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LE MOYNE COLLEGE

2021-2022

College Catalog

The contents of this catalog represent the most current information available at the time of publication. However, during the period of time covered by this catalog, it is reasonable to expect changes to be made with respect to this information without prior notice. The course offerings and requirements of Le Moyne College are under continual examination and revision. Thus, the provisions of this catalog are not to be regarded as an irrevocable contract between Le Moyne College and the student.

ACADEMIC CALENDAR

2021-2022

Please be aware that this is the Academic Calendar posted in the College Catalog. Please visit the Academic Calendar via the Registrar's website (<https://www.lemoyne.edu/College-Administration/Office-of-the-Registrar/Classes-Calendar-and-Catalogs/Academic-Calendar/>) for the most up-to-date calendar.

August 2021

14	Saturday	First-year Residential Students Move In
15	Sunday	First-year Commuter Students Arrive and First-year Orientation begins
16	Monday	COR 100 classes begin for first year students. 8 week Module A begins (Madden Graduate courses using this format) PA program classes begin for 2nd year graduate students/clinical year.
18	Wednesday	Last day to add a class for 8 week Graduate Module A. Last day to add COR 100 course.
20-22	Fri-Sun	Residences Open for Upperclassmen
21	Saturday	New Transfer Student Orientation
23	Monday	Classes begin (Undergraduate and Graduate). Last day to drop COR 100 courses only, with no grade.
24	Tuesday	PA program classes begin for 1st year graduate students
25	Wednesday	Last day to drop a class from 8 week Graduate Module A with no grade and full refund.
27-28	Fri-Sat	Ed.D. Residency Weekend
28	Saturday	Saturday Classes begin

30	Monday	Last day to add classes, audit a class, and late registration. Last day to file a proposal for Independent Study/Research with Dean's Office. Last day to drop a class with a full refund.
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September 2021

1	Wednesday	Mass of the Holy Spirit at 10:45am (Events center) 9:30-10:45am and 10:00-10:50am classes will dismiss at 10:30. Classes scheduled for 11:00am
6	Monday	Labor Day (No classes)
7	Tuesday	Last day to drop a class with no grade. Last day for Pass/Fail option.
8	Wednesday	Last day for 50% refund for 8 week Graduate Module A courses.
17	Friday	Fall Convocation
22	Wednesday	Last day to withdraw from 8 week Graduate Module A courses with a W grade.
24-25	Fri-Sat	Ed.D. Residency Weekend
24-26	Fri-Sun	Family Weekend
27	Monday	Last day to withdraw from a class for a partial refund if registered below 12 credits or dropping below 12 credits

October 2021

1	Friday	Midterm grades due for COR 100 courses only
11-12	Mon-Tues	Fall Break. Saturday classes will be held 10/09. No classes held 10/11 and 10/12.
13	Wednesday	Classes Resume
15	Friday	Midterm grades due by NOON. Last day of classes for 8 week Graduate Module A courses
18	Monday	Grades for 8 week Graduate Module A courses due by Noon. 8 week Graduate Module B classes begin.

20	Wednesday	Last day to add a class for 8 week Graduate Module B
22	Friday	Last day for W grade for COR 100 courses only
22-23	Fri-Sat	Ed.D. Residency Weekend
27	Wednesday	Last day to drop a class for 8 week Graduate Module B with no grade and full refund.

November 2021

1	Monday	Jmester registration begins for matriculated and non-matriculated Undergraduate and Graduate students.
1	Monday	Spring registration begins for matriculated MBA, Graduate Nursing, Graduate Education, Graduate Arts Administration, Occupational Therapy, Executive Leadership (Ed.D.), and Physician Assistant students.
3	Wednesday	COR 100 courses end for Fall 2021 semester.
8	Monday	Spring registration begins for non-matriculated MBA, Graduate Nursing, Graduate Arts Administration and Graduate Education students.
10	Wednesday	Last day for 50% refund for 8 week Graduate Module B classes. Final COR 100 grades due by 12pm.
15-19	Mon-Fri	Spring registration begins for matriculated Undergraduate students
19	Friday	Last day to withdraw from a class with a "W" grade.
19-20	Fri-Sat	Ed.D. Residency Weekend
24	Wednesday	Last day to withdraw from 8 week Graduate Module B classes with a W grade.

24-28	Wed-Sun	Thanksgiving Break (No classes). Thanksgiving Day is 11/26.
29	Monday	Classes resume.

December 2021

6	Monday	Undergraduate/ Graduate Classes and Co-Curricular Activities End. Faculty must resolve "I" grades
7	Tuesday	Study Day.
8-14	Wed-Tue	Final Exams
10	Friday	Last day of classes for 8 week Module B (Madden Grad courses using this format)
11	Saturday	Final Exams for Saturday Classes
15	Wednesday	Jmester session begins
20	Monday	Final grades due by NOON to Registrar's office for Undergraduate Classes. Then verification process begins. Grades will be visible in Phinfo once verification is complete.

January 2022

3	Monday	Clinical rotations resume for 2nd year graduate PA students. Clinical rotations resume for 2nd year graduate OT students
10	Monday	PA program classes begin for 1st year graduate students.
15	Saturday	Jmester 2022 Session ends.
17	Monday	Martin Luther King Jr. Day. Residence Halls open at 12pm.
18	Tuesday	Classes begin (Undergraduate and Graduate) OT graduate classes resume.
21	Friday	Jmester 2021 grades due. Then verification process begins. Grades will be visible in Phinfo once verification is complete.

25	Tuesday	Last day to add classes, audit a class, and late registration. Last day to drop a class with a full refund. Last day to file a proposal for Independent Study/Research with Dean's office.
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February 2022

1	Tuesday	Last day to drop a class with no grade. Last day for Pass/Fail option.
22	Tuesday	Last day to withdraw from a class for a partial refund if registered below 12 credits or dropping below 12 credits

March 2022

11	Friday	Midterm Grades Due
11	Friday	Spring break begins at end of classes; Saturday classes held. Residence halls close at 8pm.
14-18	Mon-Fri	Spring break. No classes.
20	Sunday	Residence Halls open at Noon
21	Monday	Classes resume.
28	Monday	Fall registration begins for matriculated MBA, Graduate Nursing, Graduate Education, Graduate Arts Administration, Occupational Therapy, Executive Leadership (Ed.D.), and Physician Assistant students.

April 2022

4	Monday	Fall registration begins for non-matriculated MBA, Graduate Nursing, Graduate Arts Administration and Graduate Education students.
4-8	Mon-Fri	Fall registration begins for matriculated Undergraduate students.
7	Thursday	Spring Convocation at 4pm in Grewen Auditorium

14-18	Thurs-Mon	Easter Weekend Break. No classes. (Holy Thursday 4/14, Good Friday 4/15, Easter Sunday 4/17, Easter Monday, 4/18)
19	Tuesday	Classes resume. Last day to withdraw from a class with a "W" grade.

May 2022

9	Monday	Undergraduate/Graduate classes and Co-Curricular Activities End. Faculty must resolve "I" grades for Fall 2021 and Jmester 2022 for graduate and undergraduate courses.
10	Tuesday	Study Day
11-17	Wed.-Tues.	Semester Ending Exams.
14	Saturday	Final Exam for Saturday Classes
17	Tuesday	Residence Halls close for Undergraduates at 8pm
18	Wednesday	Senior and Graduate grades due by noon. Then the verification process begins. Maymester classes begin
20	Friday	All other grades due by noon. Then the verification process begins.
20-22	Fri-Sun	Golden Reunion
20	Friday	Graduate Commencement (PM)
21	Saturday	Baccalaureate (PM)
22	Sunday	Undergraduate Commencement (AM). Seniors must move out by 8pm.

* Students in any of the graduate programs should consult program calendars for additional significant dates and deadlines.

GENERAL INFORMATION

Mission Statement

Le Moyne College is a diverse learning community that strives for academic excellence in the Catholic and Jesuit tradition through its comprehensive programs rooted in the liberal arts and sciences. Its emphasis is on education of the whole person and on the search for meaning and value as integral parts of the intellectual life. Le Moyne College seeks to prepare its members for leadership and service in their personal and professional lives to promote a more just society.

Accreditations & Affiliations

Le Moyne College is approved by the Regents of the University of the State of New York (<http://www.regents.nysed.gov/>) and is accredited by the Middle States Commission on Higher Education (<http://www.msche.org/>).

The Nursing Program is accredited by the Commission on Collegiate Nursing Education (<https://www.aacnnursing.org/CCNE/>) (CCNE), the Teacher Education Programs are seeking accreditation with the Association for Advancing Quality in Educator Preparation (AAQEP), the entry-level occupational therapy master's degree program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) (<http://www.aota.org/Education-Careers/Accreditation.aspx>), and the Physician Assistant Studies Program is accredited by the Accreditation Review Commission for Physician Assistant Education (<http://www.arc-pa.org/>) (ARC-PA). The Madden School of Business is accredited by Association to Advance Collegiate Schools of Business International (<http://www.aacsb.edu/>) (AACSB). The Chemistry Department is approved by the American Chemical Society (<http://www.acs.org/content/acs/en.html>).

The College is also a member of:

- Association of Jesuit Colleges and Universities (<http://www.ajcunet.edu/>) (AJCU)
- Association of Colleges and Universities of the State of New York (<http://library.albany.edu/speccoll/findaids/apap003.htm>) (ACUSNY)
- Association of American Colleges and Universities (<http://www.aacu.org/>) (AACU)
- Association to Advance Collegiate Schools of Business International (<http://www.aacsb.edu/>) (AACSB)
- College Board (<http://www.collegeboard.org/>)
- Commission on Independent Colleges and Universities (<http://www.cicu.org/>) (CICU)
- Council of Independent Colleges (<http://www.cic.edu/Pages/default.aspx>) (CIC)
- Council for Higher Education Accreditation (<http://www.chea.org/>) (CHEA)
- National Association of Independent Colleges and Universities (<https://www.naicu.edu/>) (NAICU)
- National Association for College Admission Counseling (<https://www.nacacnet.org/>) (NACAC)
- National Catholic Educational Association (<http://www.ncea.org/>) (NCEA)

Requests to review documents describing the accreditation, approval or licensing of the institution and its programs may be submitted to the

Office of Academic Affairs. Information regarding the accreditation status of Le Moyne College may be obtained from:

The New York State Education Department
Office of Higher Education
Room 977 Education Building Annex
Albany, New York 12234
Tel: 518-486-3633

Nondiscrimination Statement

Le Moyne College subscribes fully to all applicable federal and state legislation and regulations regarding discrimination (including the Civil Rights Act of 1964; Title IX of the Educational Amendments of 1972 (Title IX); Section 504 of the Rehabilitation Act of 1973 (Section 504); the Americans With Disabilities Act (ADA); the Age Discrimination in Employment Act; the Age Discrimination Act; and the New York State Human Rights Law). The College does not discriminate against students, faculty, staff or other beneficiaries on the basis of race, color, gender, creed, age, disability, marital status, sexual orientation, veteran status, or national or ethnic origin in admission to, or access to, or treatment or employment in its programs and activities. Le Moyne College is an Affirmative Action/Equal Opportunity Employer. For further information regarding Title IX contact Ann Bersani, Associate Director for Campus Life and Leadership/Interim Title IX Coordinator, at 315-445-4520. All other inquiries relative to the regulations mentioned above may be addressed to Anne Kearney, Interim Associate Provost for Student Development, at 315-445-4525.

Students with Disabilities

The Office of Disability Support Services, located in the Noreen Reale Falcone Library, arranges academic accommodations for eligible students with disabilities under Section 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act of 1990. Students with disabilities are encouraged to contact disability support services as soon as possible to ensure that academic accommodations are made available in a timely manner. Written documentation attesting to the existence of the disabling condition and signed by a licensed professional, is required before academic accommodations are implemented.

Contact Information

Voice: (315) 445-4118
TDD: (315) 445-4104
Fax: (315) 445-6014
Email: dss@lemoyne.edu
www.lemoyne.edu/dss (<http://www.lemoyne.edu/dss/>)

Student Records (FERPA)

Le Moyne College, in accordance with the Family Educational Rights and Privacy Act (FERPA), has implemented procedures for the review and access of student records. Institutional policy and procedures can be found on the Registrar's Office website (<http://www.lemoyne.edu/College-Administration/Office-of-the-Registrar/FERPA-Information/>).

Sexual Harassment Policy

Le Moyne College does not condone or tolerate any conduct that would constitute sexual harassment or sexual misconduct. The College's Sexual Harassment and/or Sexual Misconduct Policy may be found

at www.lemoyne.edu/studenthandbook (<http://www.lemoyne.edu/studenthandbook/>).

ACADEMIC INFORMATION

Le Moyne College offers curricula leading to the degrees of Bachelor of Arts (B.A.), Bachelor of Science (B.S.), Master of Science (M.S.), Master of Business Administration (M.B.A.), Master of Science in Education (M.S.Ed.), Master of Science in Teaching (M.S.T.), Doctor of Education (Ed.D), and Certificate of Advanced Study (C.A.S.). Each program is listed with the official, approved title and HEGIS number by which it is registered with the New York State Education Department. State-approved undergraduate programs of professional preparation for prospective teachers are also offered in various certification areas. Students in these programs must major in an approved subject area (see list of programs). Enrollment in programs not registered, or otherwise approved, may jeopardize a student's eligibility for certain student aid awards. The programs are as follows:

Degree Programs

Undergraduate Programs

Program	HEGIS	Degree
Adolescence Education (Grades 7-12) ²		B.A., B.S.
Biochemistry	0404	B.S.
Biology ^{1,2,3}	0401	B.A., B.S.
Business: Accounting	0502	B.S.
Business: Business Analytics	0506	B.S.
Business: Finance	0504	B.S.
Business: Information Systems	0702	B.S.
Business: Management and Leadership	0506	B.S.
Business: Marketing	0509	B.S.
Business: Risk Management and Insurance	0512	B.S.
Chemistry ^{1,2,3}	0905	B.S.
Communication	0601	B.A.
Computer Science	0701	B.A., B.S.
Criminology	2105	B.A.
Cybersecurity	2105	B.A.
Economics ^{1,2,3}	2204	B.A., B.S.
English ^{1,2,3}	1501	B.A.
English	1501	B.A./M.S.T.
Environmental Science Systems	0420	B.A., B.S.
Environmental Studies	2299	B.A., B.S.
French ^{1,2,3}	1102	B.A.
History ^{1,2,3}	2205	B.A.
History	2205	B.A./M.S.T.
Human Resource Management	0515	B.S.
Inclusive Adolescence Education (Grades 7-12) ³		B.A., B.S.
Mathematics ^{2,3}	1701	B.A.

Nursing	1203.10	B.S.
Peace and Global Studies	2210	B.A.
Philosophy ¹	1509	B.A.
Physics ^{1,2,3}	1902	B.A., B.S.
Political Science ^{1,2,3}	2207	B.A.
Professional Accountancy	0502	B.S./M.B.A.
Professional Studies	4901	B.S.
Psychology ¹	2001	B.A., B.S.
Religious Studies ¹	1510	B.A.
Risk Management and Insurance	0512	B.S.
Sociology ^{1,2,3}	2208	B.A.
Software Applications and Systems Development	0799	B.A., B.S.
Spanish ^{1,2,3}	1105	B.A.
Spanish	1105	B.A./M.S.T.
TESOL	1508	B.A., B.S.
Theatre Arts	1007	B.A.

¹ These major programs are eligible for Childhood and Special Education (Grades 1-6) teacher certification.

² Major programs and HEGIS Codes for approved collaborations with the Adolescence Education (Grades 7-12) degree program:

- Biology (0401)
- Chemistry (1905.01)
- Social Studies (2201.01): Economics, History, Political Science, or Sociology
- English (1501.01)
- French (1102.01)
- Math (1701.01)
- Physics (1902.01)
- Spanish (1105.01)

³ Major programs and HEGIS Codes for approved collaborations with the Inclusive Adolescence Education (Grades 7-12) degree program:

- Biology (0401.01)
- Social Studies (2201.01): Economics, History, Political Science, or Sociology
- English (1501.01)
- French (1102.01)
- Math (0808)
- Spanish (1105.01)

Undergraduate Certificates

Program	HEGIS	Degree
Computer Programming	0701	Cert.
Cybersecurity Fundamentals	2105	Cert.
Human Resources	0515	Cert.
Web Programming	0701	Cert.

Minor Programs

Minor programs are offered in most of the above-listed undergraduate programs. In addition, special minor programs are offered in:

- Advanced Writing
- Anthropology
- Applied Statistics
- Arts Administration
- Biology & Computer Science
- Chemistry and Computer Science
- Classical Humanities
- Creative Writing
- Dance
- Data Technologies
- Entrepreneurship and Innovation
- Ethics, Values, and Professional Life
- Faith and Social Justice
- Film
- Finance
- Gender and Women's Studies
- Health Information Systems
- Irish Literature
- Italian
- Latin
- Literature
- Legal Studies
- Medieval Studies
- Middle East and Islamic Studies
- Music
- Philosophy and Computer Science
- Race in American Society
- Risk Management
- Risk Management and Insurance
- Sports Marketing
- Visual Arts
- Visual Design

Minors are open to all students except those already majoring in the field.

Graduate Programs

Program	HEGIS	Degree
Analytics	0506	M.B.A.
Arts Administration	0599.00	M.S.
Information Systems	0702	M.S.
Adolescent Education I ¹	0803	M.S.Ed.
Adolescent Education II ²	0803	M.S.Ed.
Childhood Education I ¹	0802	M.S.Ed.
Childhood Education II ²	0802	M.S.Ed.
Dual Adolescent/Special Education I ¹	0808	M.S.Ed.

Dual Adolescent/Special Education II ²	0808	M.S.Ed.
Dual Childhood/Special Education I ¹	0808	M.S.Ed.
Dual Childhood/Special Education II ²	0808	M.S.Ed.
General Professional Education	0801	M.S.Ed.
Teaching Literacy	0830	M.S.Ed.
TESOL	1508	M.S.Ed., M.S.T.
Adolescent Education 7-12	0803	M.S.T.
Dual Adolescent/Special Education I	0808	M.S.T.
Inclusive Childhood Education 1-6	0808	M.S.T.
Special Education	0808	M.S.T.
Leadership	0506	M.B.A.
Management	0506	M.B.A.
Marketing	0509	M.B.A.
Taxation	0502.10	M.S.
Nursing	1203.10	M.S.
Family Nurse Practitioner	1203.10	M.S.
Nursing Administration	1203.10	M.S.
Nursing Education	1203.10	M.S.
Occupational Therapy	1208.0	M.S.
Physician Assistant Studies	1299.10	M.S.
School Building Leadership	0828	M.S.Ed.
School District Business Leader	0827	M.S.Ed.
School District Leadership	0827	M.S.Ed.
Executive Leadership	0827	Ed.D.

¹ These programs are for students who hold initial certification effective 9/1/04 or later.

² These programs are for students who are already certified to teach and are seeking an additional certification.

Certificates of Advanced Studies

Program	HEGIS	Degree
Arts Administration	0599	C.A.S.
Family Nurse Practitioner	1203.12	C.A.S.
Nursing Administration	1203.12	C.A.S.
Nursing Education	1203.12	C.A.S.
School Building Leadership	0828	C.A.S.
School District Business Leader	0827	C.A.S.
School District Leadership	0827	C.A.S.

Post-Baccalaureate Certificates

Program	HEGIS	Degree
Adult Education	0801	Cert.
Arts Administration	0599.00	Cert.
Graduate Enterprise Systems	0702	Cert.
Health Information Systems	0702	Cert.
Higher Education Leadership	0801	Cert.

Graduation Rates

Every year Le Moyne College reports to the New York State Education Department data pertaining to graduation rates for full-time, first-time students. Information for each entering class reflects graduation rates over a standard reporting period of five years. The table below indicates graduation rates for full-time, first-time students.

Year Entered	Class of	Enrolled	4 years percent	5 years percent
2010	2014	617	57.7	66.8
2011	2015	636	63.8	72.7
2012	2016	520	69.6	74.6
2013	2017	622	64.7	73.3
2014	2018	678	69.7	77.7
2015	2019	634	68.3	74.9
2016	2020	630	65.3	

Information for each entering class reflects graduation rates over a standard reporting period of five years. The table above indicates graduation rates for five years for the last five classes of students for which information is available. (Data source: New York State Department of Education Form 2.9).

Academic Standards

Students are expected to observe at all times the highest ethical standards as members of the academic community. Any form of dishonesty makes a student liable to severe sanctions, including expulsion from the College.

Faculty and staff members should report all instances of academic dishonesty to the appropriate dean, i.e., the dean who has jurisdiction over the class in question. The dean will review the evidence in consultation with the faculty or staff member to determine the appropriate sanction, which may include failure in a course. The dean may impose further sanctions, such as suspension or expulsion from the College. It is expected that the dean will make a determination within a reasonable period of time following notification of an instance of academic dishonesty. The dean will send the student a findings letter after a determination is made. Additionally, that dean should notify and consult with the dean of the student's home school or college. A second instance of academic dishonesty may result in suspension and may be cause for expulsion. Students should note particularly the following seven specific policies:

1. Examination Regulations—Students are expected to be familiar with the regulations that are posted before each semester examination period. Violation of any of these regulations makes a student liable

to penalties ranging from failure in the examination to expulsion from the College.

2. Cheating—A student who cheats on any assignment or examination is liable for penalties ranging from failure in the examination to expulsion from the College.
3. Plagiarism—Plagiarism is the attempt to fulfill an academic requirement by using the ideas, words or work of another person and representing them as one's own. Academic conventions dictate that students and scholars must acknowledge the source of phrases and ideas that are not their own. Many ideas and phrases are so familiar that they have become the common property of all; these obviously require no documentation. However, the use of ideas or phrases that are clearly original with another author requires that the appropriate credit be given to the original author. Plagiarism undermines that basic relationship of trust that must exist between teacher and student and among students for the educational process to work. For this reason, penalties for plagiarism range from failure on the assignment to expulsion from the College. For details regarding plagiarism, consult the library's guide to plagiarism or the library services desk.
4. Assisting Cheating or Plagiarism—A student who knowingly assists another student in cheating or plagiarism is subject to the same rules and penalties.
5. Derived Work—Derived work is work containing material (even if modified) that has been previously submitted to fulfill the requirements of another course. Submission of derived work is allowed only with prior approval by the instructor, who may impose additional requirements (e.g., full disclosure in a citation). The penalties for unapproved submission of derived work range from failure on the assignment to expulsion from the College.
6. Class recording policy—Students must obtain prior written permission from the instructor before making any audio/video recordings of a class. Unless this permission explicitly states otherwise, such recordings may not be shared with or distributed to others, and must be deleted or erased at the end of the semester. The penalties for unauthorized recording, sharing, distribution or retention may range up to expulsion from the College. Any student with a disability who requires class recordings as an accommodation must be approved by the disability support services staff and must notify faculty by presenting his or her instructor a notification form to be signed.
7. Student Conduct—Students are expected to conduct themselves in a manner that is respectful to all members of the Le Moyne community, at all times. In particular, actions or behaviors that harass, disrupt or otherwise prevent orderly conduct of a course (in the classroom or during related activities) are unacceptable. A faculty member may consult with the appropriate department chair and/or dean regarding this behavior. Students engaging in such behavior may be subject to disciplinary action, including removal from the class, cancellation of the student's registration in the class, and other penalties, up to expulsion from the College.
 - a. The potential continuing impacts of the COVID-19 pandemic and the resulting risks and implications for on-campus residential education are not fully foreseeable. As a result, the College may from time to time establish conditions, policies, rules, and restrictions (including, but not limited to, such documents as the Dolphins Declaration) in order to account for actual or potential impacts of the pandemic.

- b. The College expects all members of our community to adhere to any established conditions, policies, rules and restrictions both on and off campus. Students who do not adhere to any established conditions, policies, rules and restrictions may be subject to consequences including, but not limited to, revocation of specified campus privileges, removal from campus housing, removal from in-person classes, and possibly a formal disciplinary board hearing that could result in suspension or expulsion.

A student who wishes to exercise the right of appeal in these matters may request the Provost to convene a review board. This request must be in writing and submitted to the Provost's office within 5 business days of the date of the findings letter. An appeal must be based on questions of improper procedure, new evidence uncovered after the date of the findings letter, the student disputing the facts of the case, or excessively harsh sanction. A review board consists of three faculty members and one nonvoting faculty member who serves as chair. These members are appointed by the president of the Faculty Senate. At the student's request, two nonvoting student members may be appointed by the president of the Student Senate in consultation with the chair of the Academic Affairs Committee of that body.

The student has the option of appearing before the review board to answer questions and make a summary statement. Alternatively, the student may submit a written statement to the review board. The review board may recommend one of the following:

1. uphold the finding of responsibility and the sanction as originally imposed;
2. uphold the finding of responsibility but reduce the sanction; or
3. overturn the finding of responsibility.

It is expected that the board will meet to review the appeal and make its recommendation within a reasonable period of time following receipt of the appeal. The review board forwards its recommendation to the Provost who makes the final decision regarding the appeal. The Provost's decision is final and is not subject to further review.

Academic Integrity Tutorial and Exam Requirement

All matriculated Le Moyne students must pass the Academic Integrity Tutorial and Exam during their first semester as matriculated students at Le Moyne. These students will be blocked from subsequent course registration until they have passed the exam.

Grading Policies

Grading is a measure of the student's mastery of a select body of knowledge contained in a specific course. This mastery involves the elements of memory, understanding and expression.

The instructor judges the student's mastery of any course based on all the evidence provided during the conduct of the course. Formal examinations are only part of the evidence; questions asked by the student, recitations, term papers, book reports, written and oral quizzes, the student's participation in class discussions—any and every kind of evidence that reveals the student's development in mastering a subject is pertinent and may legitimately be used by instructors in making their judgment.

Therefore, the following grading system is in effect at Le Moyne:

A, A–

To earn a grade of A or A–, a student must seek mastery of a specified field by reason of interest. The student will show initiative and originality in attacking and solving problems. The student shows ability in rethinking problems, making associations and adapting to new and changing situations. Moreover, the student has command of an appropriate vocabulary.

B, B+, B–

To earn a grade of B, B+ or B– a student should manifest all the qualities characteristic of a student who has earned a C and, in addition, reveal a memory that encompasses more than the basic elements of a course. The student has a more personal grasp of the principles of the course, perceives wider application of these principles and can discuss the subject matter of the course with ease.

C, C+, C–

To earn a grade of C, C+ or C– a student should be able to recall the basic elements of a course, understand the essential background and materials, make some applications of the basic principles and express them intelligibly.

D

A student will earn only a D if he/she is deficient to some degree in any of the areas outlined under C, C+, C–.

F

A student deserves no better than an F if he/she is deficient to a high degree in any of the areas outlined under C, C+, C–.

HP

Awarded for superior performance in internships only. The student earns credit but no grade points. Undergraduate students only.

NC

Indicates the student has not passed the exit exam for WRT 101.

NG

Indicates that no grade has been awarded for a course.

P

Awarded for satisfactory performance in internships only. The student earns credit, but no grade points. Undergraduate students only.

PF/P

This symbol indicates satisfactory work in a course for which the student gains credit but no grade points.

PF/F

This symbol indicates failure in a course for which the only alternative mark could have been a (PF/P). It is the equivalent of an F grade.

WF

Failure for dropping a course after the 12th week of the semester or 80 percent of a summer term as published in the Academic Calendar, or for excessive absence from a course. It is the equivalent of an "F" grade.

I

Students who find themselves unable to complete work for a course by the end of the regular term may request a grade of Incomplete (I) via their instructor using the Request for Incomplete Grade Form (<https://portal.lemoyne.edu/studentresources/academic/registrar/Forms/Request%20for%20Incomplete%20Grade%20Form.pdf>). This form is an agreement between the student and the instructor that specifies the reasons, conditions, and time limit for removing an incomplete (I) grade from the student record.

Except in rare cases, the student must initiate a request for an incomplete (I) grade. An incomplete (I) grade is an option only if the student has completed enough course work for the instructor to determine a grade. The form must be submitted on or before the last day of classes for the semester.

The form specifies:

- The remaining course requirements to be completed before a final grade is assigned.
- A grade to be recorded if the student does not submit the outstanding course requirements by the specified deadline.
 - In the event that a student withdraws or takes a leave of absence from the College with an unresolved incomplete (I) grade, this grade provided by the faculty member will be recorded for the student.

An incomplete grade should be granted only for good cause (i.e., extenuating circumstances that prevent the student from completing required coursework within the normal time limits). Instructors may require documentation to support a request for an incomplete grade. In addition, instructors may refuse the request. If the precipitating reason for the request is of a personal nature, the student and/or instructor may seek the assistance of their Academic Dean in providing appropriate documentation.

Instructors are responsible for monitoring any assigned incomplete (I) grades and may change/update the grade at any point prior to the official deadline.

Deadlines for resolving incomplete grades are as follows:

Fall Semester & J-mester	Last day of classes for the following Spring semester
Spring, Maymester, & All Summer Sessions	Last day of classes for the following fall semester

W

This symbol indicates that a student has withdrawn from a course subsequent to the last day for dropping courses with no grade but before the end of the twelfth week of the semester or 80% of a summer term.

S

Indicates satisfactory work in non-credit bearing courses and activities. Undergraduate students only.

U

Indicates unsatisfactory work in non-credit bearing courses and activities. Undergraduate students only.

AUD

Granted by the instructor to indicate satisfactory participation in a course that a student has audited. This symbol does not imply satisfactory performance on examinations or other work, and it may not be converted to a letter grade.

Auditing Courses

A student who wishes to audit a course may do so with the approval of the course instructor and Department Chair. Students who audit are generally exempt from assignments and examinations; however, requirements vary depending on the course and instructor expectations. Students will negotiate the performance expectations with each instructor prior to the end of the first week of classes.

Under no circumstances may a student make a course change from credit to audit after the last day to add as designated on the Academic Calendar. A grade of AUD is recorded on the transcript. No credit is given for the course.

Audit permission forms are available in the Registrar's Office for matriculated students or you may click here (<https://portal.lemoyne.edu/studentresources/academic/registrar/Forms/Audit%20A%20Class%20Form.pdf>). Once the form is completed matriculated students will be registered in the Registrar's Office. Non-matriculated students will complete a registration form in the Center for Continuing Education (CCE) Office and be registered there. Students indicate their top three or four course preferences, as some courses will be filled. The staff in the CCE will obtain permissions to audit.

Undergraduate students wishing to audit will be added to the course one week prior to the start of each term. Audits will not exceed a maximum of two courses per semester and one course in shortened alternate semesters (Summer, May and J-mester). Auditing students will be required to meet the prerequisites for all courses for which they register.

Pass/Fail Grading

A student will be assigned a course grade on a pass/fail basis if:

1. The course is listed in the catalog as a course in which all students are graded on a pass/fail basis (e.g. internships); OR
2. The student elects the pass/fail grading option described below. In either case, if the professor judges that the student has passed the course, the professor will record a pass for the course (PF/P) which will be included on the student's transcript. Though the student will then receive full credit for the course, the grade of PF/P *will not* be computed into the student's G.P.A. If the professor judges that the student has failed the course, the professor will record a failure (PF/F) for the course. In this case, the course *will* be counted with zero grade points in the computation of the student's G.P.A.

In order to encourage greater student participation and experimentation in course selections, the pass/fail grading option is offered for an undergraduate student whose request meets the following criteria:

1. A student who has completed at least 75 credit hours may request a grade of pass/fail in a course.
2. A student may only use the pass/fail option towards no more than one course per academic semester.
3. A student may not use the pass/fail option towards a course that fulfills the requirements for the student's major, minor, or core curriculum. The course must be a free elective.
4. A student taking a course pass/fail must complete a pass/fail form and submit it to the Office of the Registrar on or before the last day to drop a class with no grade as listed on the Le Moyne College Academic Calendar. The pass/fail forms are located in the Office of the Registrar or online at www.lemoyne.edu/registrar. (<http://www.lemoyne.edu/registrar/>)
5. The student will receive grades within the course for all coursework completed, including a final examination. If the grade is D or above, the professor will record the passing grade of PF/P; credit will be awarded for the course but not calculated into the GPA. If the final grade is an F, the professor will record the failing grade of PF/F; no credit will be awarded and a grade point of zero will be calculated into the student's GPA.
6. In addition to internships and other pre-designated pass/fail courses, a student may earn up to 15 undergraduate credits with a grade of PF/P.
7. The pass/fail grading option is a matter of the student's choice; no student is required to take advantage of it.
8. A student's desire to make use of the pass/fail option shall not be a criterion in determining his or her eligibility for an open course or section.
9. Once a course has been converted from a letter-graded to a pass/fail-graded course, it cannot be converted back to a letter-graded course.

Grade Points

Candidates for a degree must complete the number of semester hours required, and their work must also reach a standard of excellence measured in terms of grade points.

The total grade points for each course are calculated by multiplying the credit hours for that course by the grade points assigned to the grade earned in the course:

A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D	1.00
F	0.00
WF	0.00
PF/F	0.00

Grade Point Average

The semester grade-point ratio is calculated by dividing the total grade points for all courses by the total credit hours for all courses. (Since the grades of W, PF/HP and PF/P carry no specified number of grade points, the credit hours for such a course do not enter into the computation of the G.P.A.)

Students with permission to transfer courses taken at other institutions are reminded that the College accepts only the credit from such courses. The grades earned in those courses do not affect the students' grade points and G.P.A.

Grievance Procedures for Grades

For cases in which a student feels he or she has been given an unjustifiably low grade, the following grievance procedure for grades has been established:

1. Within 30 days following the date of issuance of the grade (the date on which grades are due at the registrar's office or, in the case of incomplete, the date on which the "I" is removed), the student shall inform the professor of his or her dissatisfaction and arrange a meeting to discuss the grade in question. At this meeting, the professor will provide the student with his or her final examination paper if it is relevant to the question.
2. If the grade decision is not satisfactorily resolved at this meeting, the student may seek the intervention of the professor's department chair. The chair shall discuss the grievance with both the student and the professor (either individually or together) and shall make a recommendation to the student and the professor as to the disposition of the grade. If the department chair is the professor, the senior member of the department other than the course instructor shall hear the appeal.
3. If the problem has not been resolved in steps one or two above, the student may appeal to the appropriate dean. In this case, the student and the professor shall submit in writing their positions in the matter. The appropriate dean may also request a written recommendation from the department chair. (These documents are not intended to preclude meetings between the academic dean and the student, the professor and/or the department chair.) The appropriate dean shall then forward written recommendation to the student, the professor and the department chair. Within 15 days, the professor shall give written notice to the student of the final disposition of the grade with copies to the appropriate dean and the department chair.
4. The student may appeal the decision of step three (above) to the academic vice president.

Formal Academic Grievances Against Professors, Classes, or Programs

Formal academic complaints about a class or professor should be taken directly to the professor concerned first. If the issue is not resolved, a written complaint should be filed with the appropriate department chair or director. This written version should identify the complainant, specifically detail the perceived problem, the date of the meeting with the Professor and be accompanied by any relevant supporting documentation or data. It should also include the proposed response or remedy.

- The department chair or director shall discuss the grievance with both the student and the professor (either individually or together) and shall make a recommendation to the student and the professor as to a resolution. If the department chair or director is the professor,

the senior member of the department other than the course instructor shall hear the appeal.

- If the problem has not been resolved in steps one or two above, the student may appeal to the appropriate dean. In this case, the student and the professor shall submit in writing their positions in the matter. The appropriate dean may also request a written recommendation from the department chair or director. (These documents are not intended to preclude meetings between the academic dean and the student, the professor and/or the department chair or director)
- The appropriate dean shall then forward written recommendation to the student, the professor and the department chair.
- The student may appeal the dean's decision to the academic vice president within 15 days.
- Formal academic complaints about a program should be filed with the appropriate department chair or director and then proceed to resolution through the same steps outlined above for complaints about professors or courses.

Grade Reports

Grades are posted to students' Phinfo account. If a student needs a printed grade report, he or she must submit the appropriate form to the Registrar's office. Grade reports may only be requested for a single semester. If additional semesters are needed, please request an official transcript. The form to request a grade report can be found on the Registrar's website (<http://www.lemoyne.edu/College-Administration/Office-of-the-Registrar/Requesting-a-Transcript/>). It is the responsibility of the student to inform the registrar's office of a change in name or address.

Transcripts

Le Moyne College has partnered with Parchment Exchange to offer electronic transcripts to our students and alumni. Paper transcripts may also be ordered online through Parchment Exchange to be mailed to your destination or held for pick-up in the Registrar's Office.

A cost is associated with the request of an official transcript. In compliance with the Family Educational Rights and Privacy Act of 1974, telephone requests for transcripts will not be granted nor will grades be given over the telephone. The Registrar's Office does not release transcripts of students with an outstanding financial obligation to the College. See the Registrar's website (<http://www.lemoyne.edu/College-Administration/Office-of-the-Registrar/Requesting-a-Transcript/>) for more information.

Add/Drop/Withdrawal

The official dates to add, drop or withdraw from courses without academic penalty are posted on the academic calendar found on the Registrar's website (<http://www.lemoyne.edu/College-Administration/Office-of-the-Registrar/Class-Archive/>) and in the College catalog. Students who are dropping or withdrawing from a course should be aware of the schedule set for refund of tuition and/or board. It is also highly recommended that students arrange an interview with the Office of Financial Aid to discuss how a drop or withdrawal may affect any financial assistance for which they may be eligible.

Add a Course

All students have one week from the start of the semester to add a course.

Matriculated students and students who registered via the Web should add courses through Phinfo. Non-matriculated students can add a course through the Center for Continuing Education, or the appropriate graduate office, if they have not used Phinfo before.

Drop a Course

Students have two weeks from the start of the semester to drop a class. A class dropped prior to the conclusion of the second week of the semester will not appear on the academic record. Phinfo should be used to drop a class, but will not allow you to drop your last class. If you intend to drop all of your courses for a semester, you need to notify the Student Success Center if you are a matriculated undergraduate, the Center for Continuing Education if you are a non-matriculated undergraduate, or the appropriate graduate office if you are a graduate student.

Withdrawal from a Course

A student who withdraws from a course after the second week but before the end of the 12th week of the semester (or 80 percent of a Summer Session) will receive a grade of "W" on the academic record. The student must complete a course withdrawal form and submit it to the Registrar's Office or appropriate graduate office. The withdrawal is not complete until the signed form has been returned to the appropriate office. A student who withdraws from class after the 12th week of the semester (or 80 percent of a summer session) will receive a grade of "WF" on the academic record.

The date of withdrawal will be the date of filing the withdrawal form and refunds will be made accordingly. The College may adjust the course withdrawal date if conflicting information exists regarding class attendance.

Absentee Policy

The learning process takes many shapes. It can range from formal classroom instruction to one-on-one discussion to taking advantage of internships and research opportunities. Students are expected to attend all scheduled classes and observe the attendance requirements of each instructor that are listed in the course syllabus. In the event that a student is unable to attend a class due to an illness, accident, family death or religious holiday, the individual should refer to the Policy on Student Absenteeism in the Event of Illness or Accident, Policy on Reporting Absences Due to Death in a Student's Family, and/or the Policy on the Observance of Religious Holidays as listed in the Le Moyne College Student Handbook.

Personal Leave of Absence or Withdrawal from the College

For personal reasons, a student may voluntarily discontinue enrollment at the College by requesting either a leave of absence (temporary) or a withdrawal from the College (permanent).

A personal leave of absence is a temporary hiatus from the College with the intent to return after a specified period of time. Students requesting a leave of absence must indicate when they plan to return to their studies. The total time away from the College cannot exceed two consecutive semesters. A student may not take matriculated coursework

at another institution while on a leave of absence. To be eligible to return from a leave of absence, the student must demonstrate readiness to return by satisfying all requirements for return. If a student does not return from a leave of absence at the scheduled time, the student will be administratively withdrawn from the College and must apply for readmission.

A personal withdrawal is a permanent separation from the College. A student who has withdrawn must apply for readmission to the College if he or she wishes to re-enroll.

A student may request a personal leave of absence or a withdrawal by completing the Personal Leave of Absence/Withdrawal Request form available through the Student Success Center or Office of the Registrar. A student requesting a leave of absence or withdrawal will meet with College administrators to discuss the academic and financial implications of their decision. If a student wants to leave or withdraw before the end of the current semester, the request form must be submitted by the last day to withdraw from courses with a "W" grade, as specified in the Academic Calendar. Such requests will be granted if the student has a legitimate personal reason and he or she is not already liable for academic disqualification for poor scholarship or liable for suspension for misconduct. Failure to submit the leave of absence/withdrawal form in a timely fashion may result in a student's request being denied.

If the request for a personal leave of absence/withdrawal is approved for the current semester, the student must leave campus within 24-hours and be absent from campus unless he or she is otherwise expressly allowed by the vice president for student development. The student will receive grades of "W" in all enrolled courses and will have a hold on future registration until the conditions of return have been met.

If the request for a personal leave of absence/withdrawal is approved for a future semester, then the student may remain enrolled in and receive grades for the current semester. The student will have a hold on future registration until the conditions of return have been met.

In cases of both personal leaves of absence and withdrawals, the tuition refund policies specified in the Le Moyne College Catalog apply.

Medical Leave of Absence or Withdrawal from the College

For medical or psychological reasons, a student may voluntarily discontinue enrollment at the College by requesting either a medical leave of absence (temporary) or a medical withdrawal from the College (permanent).

A medical leave of absence is a temporary hiatus from the College with the intent to return after a specified period of time. Students requesting a medical leave of absence must indicate when they plan to return to their studies. The total time away from the College cannot exceed two consecutive semesters. A student may not take matriculated coursework at another institution while on a leave of absence. To be eligible to return from a leave of absence, the student must demonstrate readiness to return by satisfying all requirements for return. If readmitted, the student will be subject to such conditions as may be imposed by the vice president for student development. If a student does not return from a leave of absence at the scheduled time, the student will be administratively withdrawn from the College and must apply for readmission.

A medical withdrawal is a permanent separation from the College. A student who has withdrawn must apply for readmission to the College if he or she wishes to re-enroll.

A student may request a medical leave of absence or a withdrawal by completing the Voluntary Medical Leave of Absence/Withdrawal request form available through the Office of Student Development or Registrar. A student requesting a medical leave of absence or withdrawal will meet with College administrators to discuss the academic and financial implications of their decision. If a student wants to leave or withdraw before the end of the current semester, the request form must be submitted by the last day to withdraw from courses with a "W" grade, as specified in the Academic Calendar. Such requests will be granted if the student has a legitimate medical reason and he or she is not already liable for academic disqualification for poor scholarship or liable for suspension for misconduct. Failure to submit the medical leave of absence/withdrawal form in a timely fashion may result in a student's request being denied.

If the request for a medical leave of absence/withdrawal is approved for the current semester, the student must leave campus within 24-hours and be absent from campus unless he or she is otherwise expressly allowed by the vice president for student development. The student will receive grades of "W" in all enrolled courses and will have a hold on future registration until the conditions of return have been met.

If the request for a medical leave of absence/withdrawal is approved for a future semester, then the student may remain enrolled in and receive grades for their current classes. The student will have a hold on future registration until the conditions of the return have been met. While on a medical leave of absence/withdrawal, the student must be absent from campus, unless access is otherwise expressly allowed by the vice president for student development.

The College may require a student to take a medical leave of absence or withdrawal (or impose other appropriate restrictions, e.g., restricted campus or housing access) if, in the judgment of the vice president for student development, the student:

1. poses an imminent threat to the lives, safety or well-being of himself/herself or other members of the College community (including a threat which results from the fact that the student cannot be properly treated in the College setting), or
2. has evidenced a medical or psychological condition or behavior that seriously interferes with the student's ability to function in the College setting (thereby rendering the student unfit to continue in the program) and/or seriously interferes with the educational pursuits of other members of the College community.

Except in unusual circumstances where safety is of immediate concern, the College will make a decision to involuntarily withdraw a student only after providing the student with advance notice and an opportunity to meet with the vice president for student development. In unusual circumstances, the vice president for student development may make an interim withdrawal decision (or impose other conditions, e.g., restricted campus or housing access) without first meeting with the student. In those instances, the student will be provided with notice in the interim and will be provided with an opportunity to be heard by the vice president for student development (normally within 72-hours) before a final decision is reached. As part of the assessment, a student may be required to undergo evaluation by either a counselor from the Le Moyne College Wellness Center for Health and Counseling, a health care provider from the College's Health Services office and/or a medical or

mental health professional from outside the College community of the College's choosing. This process will also apply to those instances where the student is not withdrawn entirely from the College but where the College imposes restrictions on the student's campus participation (e.g., restricted campus or housing access).

A student remains subject to the College's regular conduct system for acts of misconduct despite the applicability of this policy and process.

A student who feels aggrieved by a final decision which involuntarily withdraws the student or which refuses the student's request for a voluntary withdrawal may file a grievance with the College's Section 504 Coordinator under the College's Section 504/ADA grievance procedure.

In any particular situation, the vice president for student development may designate another individual to act on his/her behalf for the purpose of this policy. Therefore, the references in this policy to the vice president include his/her designee.

In cases of both medical leaves of absence and withdrawals, the tuition refund policies specified in the Le Moyne College Catalog apply.

Dangerous or Life-threatening Behavior

A student may be subject to summary suspension, dismissal or involuntary withdrawal by the College for dangerous or life-threatening behavior, as determined on an individualized, case-by-case basis, for reasons including, but not limited to:

- Being unable to maintain his or her physical or psychological safety (e.g., not functioning well enough to take care of oneself in the College's academic environment);
- Posing a danger to oneself or others;
- Engaging in legal violations regarding alcohol and drugs, violent behavior and/or violating related policies as outlined in the Student Handbook;
- Otherwise engaging in behavior which is unduly disruptive, destructive or dangerous.

While the College is committed to helping students alleviate whatever factors are precipitating dangerous or life-threatening behavior, such behavior is often disruptive to the academic and social/living environment of the College community. In the case of such behavior, a student may be required by the assistant dean for student development to undergo assessment by a counselor or health care professional from Le Moyne College's Wellness Center for Health and Counseling and/or a medical or mental health professional from outside the College community of the College's choosing. In some cases, a student also may be required to receive medical, psychological and/or substance abuse treatment or satisfy other requirements as a condition of remaining in attendance at the College. Except in unusual circumstances where safety is of immediate concern, the College will make a decision to suspend, dismiss or involuntarily withdraw a student only after providing the student with advance notice of the decision and an opportunity to meet with the assistant dean for student development.

In unusual circumstances, where safety is of immediate concern, the assistant dean for student development may make an interim suspension, dismissal or involuntary withdrawal decision (or impose other conditions, such as restricted campus or housing access) without first meeting with the student. In those instances, the student will be provided with notice in the interim and an opportunity to be heard by the assistant dean for student development (normally within 72-hours) before a final decision is reached. The student also should consult the College's

medical/mental health withdrawal policy, as it may also apply in certain of these situations.

In cases where the student's alleged conduct would also be misconduct subject to adjudication through the Student Conduct process, the assistant dean for student development or his/her designee will determine whether the case, including any sanction(s) to be imposed, will be addressed pursuant to this policy or will be referred to the Student Conduct Program for adjudication in that forum.

In any particular situation, the assistant dean for student development may designate another individual to act on his/her behalf for the purpose of this policy. Therefore, the references in this policy to the assistant dean include his/her designee.

Students who have been involuntarily withdrawn in accordance with the Dangerous or Life-Threatening behavior policy may appeal to the vice president for student development or his/her designee. Appeals must be received by the office of the vice president for student development within five business days of the decision of the assistant dean for student development. The decision by the vice president for student development normally will be distributed within five business days to the student and all involved parties.

Upon appeal, the decision of the vice president for student development shall be final and cannot be appealed by means of any other grievance or appeal procedures at the College.

Failure of the student to appeal within the designated time limit of five business days will be deemed a withdrawal of the right to appeal.

STUDENT SERVICES

Le Moyne's Division of Student Development is committed to the Ignatian principles grounded within Jesuit education. We invite our students to participate actively in a safe, respectful, diverse and open academic community. We challenge them to grow in mind, body and spirit for the greater good. Hence, students are empowered to develop their unique skills and talents to be critical thinkers, compassionate leaders and contributing citizens in our diverse, ever-changing world. As educators, we are called to model our mission as mentors engaged in the pursuit of excellence. Our passion for integrative and holistic learning compels us to work collaboratively with the entire campus community. Through our comprehensive array of innovative programs and services, we provide the environment for students to be able to achieve their full potential.

The Division of Student Development encompasses Campus Life and Leadership, the Collegiate Science & Technology Entry Program (CSTEP); Disability Support Services, Event Management, Higher Education Opportunity Program (HEOP) and African American, Hispanic, Asian, Native American Program (AHANA); Inclusive Excellence and Global Education (IEGE (<https://www.lemoyne.edu/Experience/Getting-Involved/Inclusion/>)), Student Conduct, the Student Success Center, and the Wellness Center for Health and Counseling.

For more complete information on the programs available to Le Moyne's students, please refer to the Student Handbook located at www.lemoyne.edu/studenthandbook (<http://www.lemoyne.edu/studenthandbook/>).

Orientation for First-year Students

Orientation is critical to student success and prepares students to transition to collegiate life – academically, socially, spiritually and personally. Le Moyne offers a unique, comprehensive program of orientation, called Heading to the Heights, for incoming students to assist in their smooth transition to the College. All first-year students, both commuter and residential, are expected to participate in this formal series of events, which begins with participation in "Summer Welcome" and culminates with an extended, "Fall Arrival" just prior to the start of classes in August.

During "Summer Welcome" and the accompanying advising experience, first-year students develop their fall course schedules, meet an academic advisor in their major, and take placement tests. Sessions are planned so that both students and parents become acquainted with the unique services and programs that Le Moyne offers to promote success.

"Fall Arrival" is an opportunity for the College to officially welcome new students through meaningful traditions that will create lasting memories for both students and their families. In addition, a carefully selected group of returning students called Orientation Leaders will connect them to campus life. Through orientation, students are introduced into Le Moyne's mission, values, and expectations, build community, become acclimated to college life, and meet key faculty mentors and administrators before classes begin.

Orientation for Transfer Students

A similar, but distinct, orientation program called "TRANSFERmations" is offered to new transfer students prior to the beginning of classes in both the fall and spring. New transfer students are expected to participate in both "Connecting to Campus", offered at various times prior to the start of the semester, and "New Beginnings", a formal introduction to the

College prior to the start of classes. Both are tailored to the unique needs of the transfer student, with an emphasis on meeting other students and assisting in navigating their newly chosen campus.

Student ID Cards

Student picture IDs are issued from the Office of Campus Life and Leadership, located on the second floor of the Campus Center. Students will be asked to submit their personal information and photo on-line. Individuals must show proper identification, such as a driver's license/permit or state-issued ID, before being issued their college ID card. A current Le Moyne Student ID will allow you to check out books from the library, use the facilities at the recreation center, and give you access to residence halls. IDs are also needed to enter the dining hall for those who have purchased a meal plan. For information on how to apply on-line for an ID please email campuslife@lemoyne.edu.

Heights Alert Emergency Notification System

The Heights Alert system is designed to enhance and improve emergency communication so that all members of the Le Moyne College community can stay informed in the event of a campus emergency. This system will automatically send an email to all student, faculty and staff Le Moyne email accounts. Additionally, it allows students, faculty and staff to register to receive a text message to their cell phone, in the event of an emergency or campus closure. The system will be used only for emergency contact purposes. Subscribers to Heights Alert will pay no fees for the service, other than any regular fees associated with text messaging. To register simply go to Le Moyne's home page and click on the "create an account" under the Heights Alert tab.

Campus Life and Leadership

Campus Life and Leadership is devoted to providing dynamic living and learning environments that support the needs of the Le Moyne residential student. Recognizing that students' living environments have a profound impact on their personal and educational development, the Campus Life & Leadership staff aims to structure living environments that facilitate the overall growth of the individual. Throughout the academic year, members of the Campus Life and Leadership staff provide students with a variety of educational and social programs in order to enhance the College experience.

As a residential campus, Le Moyne considers the provision of on-campus housing to be a very important part of its educational mission. The College has a 4 year residency requirement and requires all students to live on campus, unless they are residing at home with their parents in the Syracuse area. Students who live with their parents are considered "commuters". The opportunity to live off campus (i.e. rent a house, apartment or other housing accommodation in the area) for students who are required by the housing policy to live on campus is not guaranteed. Any student who is considering living off campus should discuss this with the Director for Campus Life and leadership. Students are advised not sign a lease without written approval to move off campus from the Director for Campus Life and Leadership.

There are several types of housing offered, the details of which can be found on the Campus Life and Leadership website at www.lemoyne.edu/campuslife (<http://www.lemoyne.edu/campuslife/>). 1st and 2nd year students are usually housed in traditional residence halls, while suites, apartments, townhouses and houses are usually made available to

juniors and seniors through a housing lottery. Students with special housing needs should contact the Campus Life and Leadership office.

The Campus Life and Leadership Office is open Monday-Friday from 8:30 AM – 4:30 PM. Call us at 315-445-4520 or send us an email at campuslife@lemoyne.edu.

Learning Communities

Le Moyne College is pleased to offer, and strongly encourages students to participate in, learning communities. Proven to enhance the college experience, learning communities enable new students to engage in unique academic and social opportunities with their peers and faculty during critical times of transition to college.

Several options are available for first-year student participation. Residential learning communities based on various themes give students the opportunity to live with others who share similar interests and enroll in one or more key courses together as a group. Typically, the course content emphasizes the theme of the particular learning community. Learning communities often offer study groups for these linked courses and out-of-class experiences.

Learning community options vary each academic year based on student interests and faculty availability. Please visit our website at www.lemoyne.edu/learning_communities (http://www.lemoyne.edu/learning_communities/) or call the Student Success Center at (315) 445-4597 for current options or with questions.

Dining Services

There are several dining locations on campus. These include LaCasse Dining Center, The Dolphin Den, Kaffe Nuvo, and the C-Store. For information about specific meal plans, menus, special events and hours of operation, visit the dining services website: www.lemoynedining.sodexomyway.com.

The Dolphin Den, located on the ground floor of Grewen Hall, features a convenience store, an upscale coffee shop and a full-service snack bar all in a large, comfortable space. A pub, located in the Campus Center, is a social space for the members of the Le Moyne Community who are 21 years of age or older.

Health Services

Health Services are available to all undergraduate and graduate students, full time and part time. The health services professionals practice an integrated model of care delivered through the Wellness Center for Health and Counseling. Health Services is located on the first floor of Seton Hall. All services are covered without fees or co-pays, except for PPDs, lab fees, and vaccines. It is staffed with a Physician Assistant and registered nurses from 8:30 a.m. to 4:00 p.m., Monday through Friday during the academic year. Appointments are required; walk-ins cannot be accommodated, all students must be screened prior to appointments. Students may be seen in person or via telehealth depending on symptoms. Referrals to specialists off-campus can be arranged.

Health Services offers medical care that includes emergency first-aid, treatment for injuries and illness, physical exams, medical and nursing consultations, health related counseling, laboratory tests, and other diagnostic procedures ordered by the College's Physician Assistant. Off-campus services such as allergy injections, dental, x-rays and physical therapy can be arranged through the Health Services office.

Additional health and wellness information can be found on the Wellness Center for Health and Counseling website at www.lemoyne.edu/wellness (<http://www.lemoyne.edu/wellness/>).

To schedule an appointment, please contact the office between 8:30 - 4:30, Monday through Friday, at (315) 445-4440, or e-mail at healthservices@lemoyne.edu.

Required Physical Examination

All new full-time undergraduate students, including transfer students, must submit a physical examination, medical history and immunization record. In addition, no student may participate in intercollegiate athletics, or reside on campus, until these forms are on file. All health and mental health information is held confidential by the health professionals, and is secured separate from students' academic records. All health related forms can be found at www.lemoyne.edu/wellness on the Health Services page.

Required Immunizations

In compliance with New York state law, all students born on or after January 1, 1957 must have documentation of:

- **Two** doses of live measles vaccine: given no more than 4 days prior to the student's first birthday and the second at least 28 days after the first dose **OR** submit blood test results that show immunity to measles.
- **One** dose of mumps and **one** dose of rubella vaccine given no more than 4 days prior to the student's first birthday or submit blood test results that show immunity to mumps and rubella.
- **One** dose of meningococcal ACWY (i.e. Menactra or Menveo) vaccine within the last 5 years **OR** a complete 2 or 3 dose series of Men B (Bexsero or Trumenba) **OR** a signed response form declining the vaccine.

Transfer students may submit a copy of the physical/immunization record from their previous college.

Graduate health profession programs (PA, OT, and FNP) have **additional mandatory requirements** that will be described by each program.

A \$2000 *fine* will be placed on the student's account if they are not in compliance with this NYS law by having submitted these documents within 3 weeks of the start of classes. New York State law also requires the college to de-register all students taking 6 or more credit hours who are not in compliance with the regulation. Students will be unable to attend classes until the report is received and approved.

Lastly, students who are not in compliance will also have a "hold" placed on their account, and they will be unable to register for the upcoming semester. The original *Immunization Report and the Meningitis Response Form* may be submitted in person or by mail. No faxed copies will be accepted.

Medical Insurance

Undergraduate students are not required to have a health insurance policy; however, the College highly recommends students have health insurance to avoid costly medical expenses while in college. Graduate students in the Physician Assistant and Occupational Therapy programs are required to maintain health insurance. Information about

how to obtain insurance through NYS of Health can be found on the Wellness

Center webpage: Le Moyne College Wellness Center for Health and Counseling (<https://www.lemoyne.edu/Student-Life/Student-Services/Wellness-Center/>).

Counseling Services

Counseling Services are available to all undergraduate and graduate students, full time and part time. The counseling services professionals practice an integrated model of care delivered through the Wellness Center for Health and Counseling. Counseling Services is located on the 2nd floor of Seton Hall. It is staffed with licensed mental health professionals, and is open 8:30 a.m. to 4:30 p.m., Monday through Friday during the academic year. All services are covered without co-pay or fees. Sessions are scheduled by appointment by calling 315-445-4195. Currently, due to COVID-19, all counseling sessions will be conducted virtually via tele-therapy rather than in-person, but in day time crisis walk-ins will be assessed. Referrals to mental health providers in the community can also be arranged. For after-hour emergencies and crises, a counselor is on-call 24 hours. The on-call counselor can be reached by contacting Campus Security at (315) 445-4444.

College life can be quite challenging at times. Stress and distress can arise from academics, relationships, family, and mental health issues. It is a sign of strength and courage to recognize when you may need to seek help, and it is also the first step in solving any difficulty.

To support students in building resiliency skills and to find healthy and productive ways to address their problems and concerns, students are encouraged to make an appointment at the Counseling office. Services include assessments and recommendations for treatment, individual short term counseling, group counseling, and wellness coaching. A substance abuse specialist is available to provide assessments, support groups, and short-term counseling. Additionally, counseling and psycho-educational groups are offered for a variety of issues such as stress management, grief, anxiety, and ADHD.

The staff at the Wellness Center also offer wellness programming to the campus community and consultations with students, families, faculty, and staff. The counseling office web-site offers a variety of wellness and mental health related resources, including books, and brochures as well as additional information on our social media (Facebook, Instagram, and Twitter) links: *Le Moyne College Wellness Center for Health & Counseling*.

The Wellness Center is a **confidential support option** if you have experienced sexual violence, relationship violence, or stalking. You also have the right to make a report to campus security, local law enforcement, and/or state police or you can choose not to report to these agencies at all. There is no time limit if you choose to file a report with our Title IX Coordinator on campus. Licensed mental health providers and medical providers are a confidential source of support and information.

If you would like to confidentially discuss an incident of sexual assault, relationship violence, or stalking, you can do so by contacting our Wellness Center for Health and Counseling at (315) 445-4195 during regular hours of operation. If you wish to report an incident of sexual assault after hours, please contact the confidential sexual assault hotline at (315) 251-SAFE.

Additional counseling, health and wellness information can be found on the Wellness Center for Health and Counseling website at www.lemoyne.edu/wellness. To schedule an appointment, please

contact the office between 8:30 - 4:30, Monday through Friday, at (315) 445-4195 or e-mail us counselingservices@lemoyne.edu.

Campus Ministry

The Daniel J. Mulhauser, S.J. Campus Ministry Center supports the spiritual and religious life of the campus with activities open to students and staff of all faiths. As a Catholic, Jesuit College, Campus Ministry seeks to empower students, faculty, administrators, staff and alumni as persons of faith "for and with others." In addition to providing for a vital Roman Catholic liturgical and sacramental life, the campus ministry team:

- offers opportunities for spiritual retreats
- organizes opportunities for prayer, worship, and small faith communities
- promotes opportunities for service to those in need, both locally and through domestic and international service-immersion trips
- promotes ethical values and educates and organizes around issues of social justice and peace
- provides pastoral accompaniment and spiritual direction
- responds to the diverse pastoral needs of the campus community

The Daniel J. Mulhauser, S.J. Campus Ministry Center is located within the Panasci Family Chapel. The usual business hours are Monday to Friday, 8:30am to 4:30 pm. The phone number is 315-445-4110. The e-mail is campusministry@lemoyne.edu. You can find more information on our website at: www.lemoyne.edu/campusministry.

Service Learning

Service learning is one of several high-impact practices offered at Le Moyne that enrich what the student learns in the classroom by linking academic study and community service so that each experience strengthens and transforms the other. Through service learning, Le Moyne students experience our Jesuit mission: "to prepare its members for leadership and service in their personal and professional lives to promote a more just society."

Through selected courses with academic credit, service learning students are challenged to integrate a carefully selected community service experience with their course objectives. They are guided by faculty to reflect on this community experience through class discussion, journals, presentations and scholarly papers. These creative learners contribute hundreds of hours of services in the Syracuse community each year.

For several consecutive years, Le Moyne College has been selected for the President's Higher Education Community Service Honor Roll, which recognizes institutions of higher education that support exemplary, innovative, and effective community service programs. The Presidential Award is the highest federal recognition an institution can receive for its commitment to service learning and civic engagement.

Career Advising and Development

Preparing for future careers, obtaining professional employment, and pursuing graduate or professional education are all very important concerns of college students. The mission of the Office of Career Advising and Development is to empower students for success during and after college by encouraging self-reflection and experiential learning to support students in pursuing meaningful post-graduate plans and navigating lifelong career changes.

Career Advising and Development offers many programs and resources to support its mission and the career development needs of its students. Individual consultation, coaching and counseling are available with experienced career development professionals. The office invites alumni and employers to campus and virtual platforms for networking opportunities with students. Internship advisement and referral is provided. Recruitment programs featuring employers from a variety of industries are conducted on campus and online.

Students are encouraged to create a profile on Handshake where they can apply for internships and jobs; schedule an appointment with a career counselor, and register for career-related events like career fairs, employer information sessions, and workshops. Students can log-in into Handshake by either downloading the app or by visiting: <https://lemoyne.joinhandshake.com>.

First-year students and sophomores are encouraged to explore majors and careers with the help of a career counselor. Students should engage in career development activities through career advising beginning early and continuing up to graduation. Alumni of the College are also eligible for career advising throughout their careers.

The Career Advising & Development Office is located in Reilly Hall 342. The usual business hours are Monday to Friday, 8:30 am to 4:30 pm. Call us at 315-445-4185 or email us at careers@lemoyne.edu. You can find more information on our website: www.lemoyne.edu/Experience/Student-Services/Career-Services

Promise NY

Le Moyne's Mentor Promise

We want you to feel supported throughout your time at Le Moyne, from your first walk on campus to when you walk across stage at graduation, and we know mentors play a vital role in providing that support. Mentoring has been discussed as a strategy for positive youth development (DuBois & Karcher, 2005), as a way to improve the academic adjustment, retention, and success of college students (Johnson, 2016), and as a means to facilitate career development (Kram, 1985).

Mentorship can play many roles for a college student. Some students are seeking a specific career guidance, others are interested in deepening their understanding of an academic discipline, many are just looking for someone they can trust to talk through situations and decisions to discern the best approach.

The priority for first year and sophomore students should be a smooth transition from high school to college and developing meaningful relationships with their faculty. Connections to staff members at the College can also help students navigate difficult situations they encounter the first time away from home.

Examples of mentors available to first year and sophomore students:

- **Academic Advisor**

Every Le Moyne student is assigned an academic advisor when they enter the College. For students who have declared a major, a faculty member in their discipline will serve as their academic advisor. For students who are undeclared, a staff member from the Student Success Center will serve as their academic advisor, coaching them through strategies to find the right major for their unique strengths, interests, and skills. The Student Success Center plays a pivotal role in connecting all students

with campus mentors to empower students to discover their passions, interests and skills.

- **COR 100 Professor**

Every first year student takes a COR 100 class during their first semester at Le Moyne. As Le Moyne's first year Transition seminar, this course is designed to introduce students to college in an exciting, intellectually provocative seminar. Many faculty teaching these courses are long-standing professors at Le Moyne and have years of experience specifically teaching and mentoring first year students.

- **Manresa Mentor**

Students who participate in the Manresa program as a first year or a sophomore, work with a mentor who leads a small group of students through personal and professional seminars intended to help students integrate Learning, Meaning, Calling, and Career. One on one, your Manresa Mentor could help you to refine your interests, values, and skills in order to discern a career pathway that would appeal to your "whole self."

- **Area Director**

Area directors are generally master's degree level professionals who oversee one or more residence halls. These individuals live in the residence halls with students while overseeing the resident assistants, providing mentoring to residents, and creating a strong sense of community in their building(s).

- **On-campus Job Supervisor/Dolphins GROW participant**

About 25% of Le Moyne students work on campus in some capacity. Each student worker has a supervisor who can serve as a mentor during their time at Le Moyne. Specifically, Le Moyne has created the Dolphins GROW (Guided Reflection on Work) program which trains supervisors to help students make connections between their on-campus job, their academic life, and their future career goals.

In the junior and senior year, students are actively preparing for life after Le Moyne. It's during these years that students can most benefit from a mentor in their career field. Students who complete the requirements described below will be guaranteed a professional mentor.

Who can be matched with a Promise NY mentor? Juniors starting with the Class of 2022, as well as junior and senior transfer students. Students must have a GPA of 2.5 or higher, be enrolled full-time at Le Moyne, and have a Handshake profile.

Students will be required to complete the Foundations and Mentor Module on their Canvas Promise NY course.

If you have any questions regarding Le Moyne's mentoring promise as part of Promise NY, please contact the Career Advising & Development Office or Alumni & Parent Engagement Office.

Le Moyne's Interview Promise

When you leave Le Moyne, we want to make sure that interviewers, prospective employers, bosses, supervisors and colleagues recognize just how unique you are. It's a valuable opportunity to expand your experience, test-drive your interviewing skills and gain valuable feedback on how to advocate for yourself in a competitive job market. The guaranteed mock interview takes place with an alumnus or another professional. Please note mock interviews with Career Advising staff

are available to all students year-round and are not subject to the requirements below.

Who can have a mock interview with an alumnus/professional? All full-time undergraduate seniors who have at least a 2.5 GPA and a Handshake profile, and fulfill the requirements below are eligible.

Students who complete the first three years of the Manresa program are automatically eligible for a mock interview with an alumnus or Le Moyne community member. Students who do not complete the first three years of the Manresa program will need to complete the Foundations and Mock Interview Module on their Canvas Promise NY course.

If you have questions regarding Le Moyne's interview promise as part of Promise NY, please contact the Career Advising & Development Office or Alumni & Parent Engagement Office.

Le Moyne's Internship Promise

Internships help us discern what it is we are meant to do. Le Moyne wants to support you as you navigate your vocational and professional goals. In light of this, we have set in place a support system for students to secure at least one, if not more, internships during their time here on the Heights. Students who complete the steps described below will be guaranteed at least one internship during their undergraduate career.

Who is eligible for the Internship Promise? All full-time junior and senior students at Le Moyne who have a GPA of 2.5 or higher and Handshake profile at the time they complete the Foundations and Internship Module on their Canvas Promise NY course are eligible. The Internship Promise will apply to students who complete all related requirements of the Internship Module on their Canvas Promise NY course at least one full semester prior to the term in which they are seeking an internship (which must be prior to graduation). Undergraduate international students must have completed at least two semesters at the College and verify their work eligibility status with the Office of Inclusive Excellence and Global Education prior to participating in the Internship Promise NY program.

Students who participate in the first three years of Manresa are eligible for a guaranteed internship. Students who do not complete three years of Manresa will need to complete the Foundations and Internship Module on their Canvas Promise NY course.

If you have questions regarding Le Moyne's internship promise as part of Promise NY, please contact the Career Advising & Development Office - careers@lemoyne.edu

CO-CURRICULAR ACTIVITIES

Athletics

Le Moyne's athletics program offers students a variety of opportunities for participation. The College has 10 men's and 11 women's varsity teams which observe the conditions for eligibility stated by the National Collegiate Athletic Association (NCAA) and the Northeast-10 Conference. Le Moyne also sponsors club teams and has an extensive intramural program.

The Anthony A. Henninger Athletic Center is home to the varsity sports teams, while the Recreation Center is primarily devoted to intramural sports, recreational activities and the students' own personal fitness routines. Le Moyne also sponsors 13 club sport teams and has an extensive intramural program.

Clubs and Organizations

The College has numerous major-related groups which explore common academic interests. Le Moyne also has many clubs and organizations that focus on a variety of non-academic interests such as community service, recreational pursuits, publications, politics, women's issues, cultural exploration, diversity, inclusion, drama and social concerns. The College has a student-operated radio station, TV studio and newspaper.

The Student Government provides funding for each club and holds a club fair at the beginning of each semester. Students are encouraged to work with the Student Government to start a new club should there be an interest among the student body. Information regarding any of these clubs and organizations is available from the campus life and leadership office. Email campuslife@lemoyne.edu or call 315-445-4520 for more information. A list of many of the clubs and their descriptions can be found online at www.lemoyne.edu/clubs (<http://www.lemoyne.edu/clubs/>).

Study Abroad Program

The Study Abroad Program encourages qualified students to pursue international study for a semester or year. At times, students can also apply for Le Moyne College faculty led short-term study abroad programs offered during December/January and May/June. The staff guides students in choosing programs that fit both their academic needs and interests. Students also have the opportunity to talk with Study Abroad Ambassadors, Le Moyne students who have spent time abroad, and with faculty members familiar with academic programs of specific colleges and universities around the world. Le Moyne College currently has many study abroad program sites and is working to develop additional sites. Students may also pursue approved programs sponsored by other institutions. Information about Le Moyne's Study Abroad Program and services can be obtained at www.lemoyne.edu/study_abroad (http://www.lemoyne.edu/study_abroad/).

Students traditionally study abroad during their junior year, but in some cases a student may, with approval, study abroad in other semesters. To begin the process, students are required to attend an informational session one year before their intended departure. They will learn about the program criteria at the meeting such as minimum cumulative G.P.A. and judicial record criteria. For specific eligibility requirements, please refer to the office's website at www.lemoyne.edu/study_abroad (http://www.lemoyne.edu/study_abroad/). Students must also have the approval of both the study abroad coordinator and chair of their major. Students participating in the Study Abroad Program must secure advance approval

from the director of the core for courses they plan to use to fulfill core requirements. Students majoring in certain disciplines, e.g., the sciences, or those seeking teaching certification, must work far in advance with their departments in order to study abroad. Limited spots are available for study abroad. For more information, contact the Office of Inclusive Excellence and Global Education at (315) 445-4189.

Internships

All departments and programs of the College support internships for academic credit. Students can speak with the internship coordinators in their major, or talk with the Career Advising office to learn about the process. All majors are encouraged to integrate classroom education with appropriate learning experiences in the professional arena by participating in internships. Grades for internships are High Pass (HP), Pass (P) or Fail (F). If students are interested, they can contact the department chair, the department internship coordinator, or a member of the Career Advising staff for more information.

Reserve Officer Training Corps (ROTC)

Students at Le Moyne College may take reserve officer training through the Department of Military Science and the Department of Aerospace Studies at Syracuse University. Both the Army program in military science and the Air Force program in aerospace studies have basic courses, generally taken in the freshman and sophomore years, and advanced courses taken in the junior and senior years. Upon award of a bachelor's degree, students who have successfully completed advanced course requirements become commissioned second lieutenants in the United States Army or the United States Air Force. Admission to the advanced courses is generally contingent upon successful completion of the Army or Air Force freshman and sophomore courses, a satisfactory physical profile, and demonstration of academic proficiency and leadership potential. Under certain conditions, however, students who have not completed basic courses may apply during their sophomore year for the advanced courses and compete for entry into advanced ROTC at the fall registration of the junior year.

For a complete course listing, or to learn more about Syracuse University's Army and Air Force ROTC programs, go to: armyrotc.syr.edu (<http://armyrotc.syr.edu/>) and afrotc.syr.edu (<http://afrotc.syr.edu/>).

Those interested should inquire at the appropriate Syracuse University ROTC office for more information and application forms. Questions related to transferring ROTC credits to Le Moyne should be directed to the registrar's office at Le Moyne.

FACILITIES

Building Accessibility

All buildings meet minimal standards of accessibility for individuals with physical disabilities. The College has a brochure that provides a map with information on facilities’ accessibility. The maps can be found in the Office of Communications, the Office of Admission and in the Security Office. It can also be found online under “About Le Moyne.”

Noreen Reale Falcone Library Overview

The Library is located at the southwest corner of the campus. The two-story building, constructed in 1981 and renovated in 2018, also houses the Quantitative Reasoning Center, the Writing Center, and tutoring and advisement services in the Student Success Center, Disability Support Services, IT Service Desk, and the College Archives.

Its librarians provide research support and instructional services one-on-one, in classes, and online. The library’s home page of lemoyne.edu/library contains links to research guides for every academic program, over 250 databases providing access to research materials in all disciplines, in print and digital formats.

Hours

When classes are in session, library hours are:

Monday-Thursday	8 a.m. - 2 a.m.
Friday	8 a.m. - 7 p.m.
Saturday	9 a.m. - 7 p.m.
Sunday	9 a.m. - 2 a.m.

Vacation and holiday hours are announced via (315) 445-4153 and <http://resources.library.lemoyne.edu/library/hours> (<http://resources.library.lemoyne.edu/library/hours/>).

More information

Additional information about the library can be found at the library web page: www.lemoyne.edu/library (<http://www.lemoyne.edu/library/>).

Wilson Art Gallery

The Wilson Art Gallery is housed on the first floor of the library. Throughout the year, it sponsors exhibitions by local and regional artists. More information can be found at <https://lemoyne.edu/gallery> (<https://resources.library.lemoyne.edu/wilson-gallery/>). Its hours are the same as the library’s.

Bookstore

Located in the Le Moyne Plaza adjacent to campus, the bookstore is operated by Barnes & Noble College Booksellers and is open year-round. The campus store offers a wide selection of College-imprinted merchandise, school supplies, novelties, personal items, miscellaneous items and books of general interest. The staff will accept orders for any book not in stock.

Textbook purchases are made at the beginning of each semester. Specific rules for all textbook returns are posted at the checkout registers. Used

books are bought back every day, with a special buyback at the end of the fall and spring semesters during finals week.

We will accept payment for merchandise in the forms of cash, personal checks with proper ID or any major credit card. Books and merchandise can also be ordered online at www.lemoyne.bncollege.com (<http://www.lemoyne.bncollege.com>).

W. Carroll Coyne Center for the Performing Arts

The W. Carroll Coyne Center for the Performing Arts is home to the College theatre, music and dance programs as well as the main venue for professional artists performing on campus. The building features a 200-seat flexible performance space with state-of-the-art lighting and sound systems, a studio theatre, music practice rooms, a dance studio, classrooms, production shops and administrative offices.

Information Technology

10 Mitchell Hall, 445-4565
Campus Technology

Le Moyne College provides the College community with a wide variety of computing resources for instruction, research, administrative and other uses related to its academic mission. Campus residence halls provide network connectivity to many computing resources through student-owned computers. Additionally, computing labs – containing Windows and/or Macintosh systems and laser printers – are located throughout the campus for instructional software delivery and academic computing. All locations have high speed access to the Internet.

Classroom Audio/Visual Services

IT Service Desk, Noreen Reale Falcone Library, 445-4579

The Office of Information Technology provides audio-visual production and technical assistance to faculty, students, staff and administrators in support of the academic mission of the College. Services include audio and video recording, duplication or editing, assistance with presentation design, as well as the set-up and tear-down of audio visual equipment in classrooms and event rooms on campus. The staff also provides instruction on the use of the equipment and will assist in classrooms if requested. Requests for services and use of audio visual equipment must be made at least seven days in advance. Students who wish to borrow equipment for class or club projects must have the signature of a faculty sponsor, and will be approved at the discretion of Information Technology staff. All equipment loaned to students must be returned to the security office by midnight of the day borrowed; no equipment is allowed to be stored in dormitory rooms overnight.

Hours of operation are available on the Campus Technology (<https://www.lemoyne.edu/Student-Life/Student-Services/Technology/>) web page.

Cable TV

IT Service Desk, Noreen Reale Falcone Library, 445-4579

Le Moyne College, in partnership with Campus Televideo, provides more than 100 standard and high definition cable TV channels to residence hall rooms and common lounge areas. Among the cable TV lineup are two channels that provide student event information.

Email Accounts

Each student, upon enrolling, is issued an email account with an address in the lemoyne.edu (<http://lemoyne.edu/>) domain. This email account is the official email address to which the College will send email communications. This official address will be recorded in the College's electronic directories and records for that student. Contact the IT Service Desk at 445-4579 with questions regarding your email account.

Printing Allocation and Excess

Full time students are allocated the equivalent of 500 printed pages per term (8.5 in. x 11 in. "letter size," single sided, monochrome). Part time students are allocated the equivalent of 100 monochrome pages per course.

For all monochrome prints in excess of the allocation, a student shall pay \$0.05 per letter size print.

For all color prints, a student shall pay \$0.15 per letter size print irrespective of allocated monochrome pages.

All charges will be deducted from a student's unique Dolph-E-Card print account, associated with his/her login id.

Technology Use Policy

Students should be aware of the below referenced policies and standards as they apply to their use of technology resources:

- Le Moyne College Acceptable Usage Policy (<https://echo.lemoyne.edu/Faculty-Staff-Resources/Campus-Resources/Human-Resources/Policies/>)
- Le Moyne College assigns computing accounts to all members of the College community for exclusive use by the assignee.
- Users are responsible for protecting the security of their accounts and the information accessible by these accounts and are not permitted to share account information with other parties without exclusive permission of the chief information officer or his/her designee. Those who allow others to use their account, either intentionally or accidentally, are held fully accountable.
- Fraudulent or unauthorized use of College or external computing systems is strictly prohibited.

Campus Crime Statistics

Campus crime statistics can be found in the Annual Campus Security and Fire Safety Report. To access crime statistics, as well as a variety of information regarding campus safety, fire safety and crime prevention simply visit www.lemoyne.edu/annualreport (<http://www.lemoyne.edu/annualreport/>).

CENTER FOR CONTINUING EDUCATION

The Center for Continuing Education (CCE) (<https://www.lemoyne.edu/Academics/Colleges-Schools-Centers/Center-for-Continuing-Education/>) promotes lifelong learning and offers programs for educational, professional, and personal development. Its constituents include non-matriculated, visiting, returning, military-affiliated, and Bachelor of Science in Professional Studies students. Services for Veterans and military families are coordinated through the Center under the Success for Veterans (<https://www.lemoyne.edu/Academics/Veterans-Programs-and-Military-Affairs/>) program. CCE assists its learners with advisement, registration, orientation, and connections to campus resources. CCE is also home to the Bachelor of Science in Professional Studies.

Bachelor of Science in Professional Studies

The Bachelor of Science in Professional Studies (p. 64) degree provides busy working adults with the opportunity to complete a degree on a part-time basis. Students choose to concentrate in human services, business, or health-related studies. The degree provides flexibility, a foundation in critical thinking and quantitative skills, and real-world experience in either caseload or project management. Admission to the BSPS is processed through Transfer Admissions (<http://www.lemoyne.edu/Apply/Transfer-Admission/>) as a transfer or re-entry application (<http://www.lemoyne.edu/Apply/Transfer-Admission/Applying-for-Admission/>).

Continuing Education Admission

Adults 24 years of age and older may wish—or be required—to take courses for credit as non-matriculated students. Non-matriculated students working to establish their academic credibility for admission to Le Moyne College may take up to 11 credit hours per semester. Students are eligible to apply for matriculation/admission after the completion of between nine and 18 credit hours; classes taken should include at least one college core course and one course from the intended major. Non-matriculated students must apply for matriculation after 18 credit hours have been attempted, at which point they are expected to meet Transfer Admission requirements (<http://www.lemoyne.edu/Apply/Transfer-Admission/>). Occasional exceptions are made at the discretion of the department.

CCE recognizes that some adult learners, due to the demands of careers and families, can only attend evening classes. Continuing Education students are welcome to select a course of study from any of Le Moyne College's majors. Daytime course work is required for most majors; other programs, such as the BSPS, can be completed with courses at night, online, and in hybrid formats across the calendar year. Students interested in the BSPS generally apply as transfer students.

Success for Veterans Program

The Le Moyne College Success for Veterans Program (<http://www.lemoyne.edu/Learn/Veterans-Programs-and-Military-Affairs/>) offers veterans, service members, and their families a primary point of contact to help support each student's educational journey. The program provides assistance with educational benefits, academic advisement and support, and connections with campus and community resources. Veterans and service members enjoy a Veterans' House on campus, the Student Veterans Association (<https://www.facebook.com/LMCVeterans/>), and special events throughout the year. Student Veterans are also offered priority registration; registration is permitted

24 hours before the rest of their cohort, as determined by credit hours completed. For assistance, see the Veterans' Services Coordinator (vetinfo@lemoyne.edu; 315-445-4141; 210 Grewen Hall.)

In accordance with Title 38 US Code 3679 subsection (e), Le Moyne has adopted the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill[®] (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits. While payment to the institution is pending from the VA, Le Moyne will not:

- Prevent or delay the student's enrollment
- Assess a late penalty fee to the student on payments pending from VA
- Require the student to secure alternative or additional funding
- Deny the student access to any resources available to other students who have satisfied their tuition and fee bills to the institution, including but not limited to access to classes, libraries, or other institutional facilities

However, to qualify for this provision, such students will be required to fill out an official certification request.

Active Duty, Reserve, and National Guard Students

Students who are on active duty or who serve in the Reserves or National Guard and are deployed will not be penalized if the deployment was not known prior to the start of the affected semester. Should an unanticipated deployment interfere with completion of a semester, Le Moyne will work with students on a case-by-case basis to determine the best course of action. Most often, students will withdraw with non-punitive grades and be refunded or take grades of Incomplete, in which case they have an agreed-upon-in-advance amount of time in which to complete their coursework. Drill time that is known in advance is not subject to excuse from required class time or coursework; however, in some cases, students can work with individual professors before the start of classes to see if accommodations are possible.

Post-Baccalaureate Studies

Many people opt to change direction after receiving their baccalaureate degrees. CCE can help students enroll in courses that are required for admission to graduate programs—for example, pre-med coursework—or for certification, as in those preparing to become certified public accountants. These students are permitted to exceed the 18 credit hour limit established for non-matriculated students.

Registered Nurses: CCE also oversees a post-baccalaureate RN-to-MS prerequisite path (<http://www.lemoyne.edu/Academics/Graduate-Professional-Programs/Nursing/Continuing-Education/Continuing-Education-RN-to-MS/>) for Registered Nurses with a bachelor's degree in another discipline. Students complete three to five undergraduate courses that prepare RNs for entrance into a Le Moyne graduate nursing program.

Certificate in Human Resource Management

For those interested in pursuing a new career in the Human Resources field, or for those in the field and interested in enhancing their professional qualifications, Le Moyne offers a certificate in Human Resource Management (<https://www.lemoyne.edu/Learn/Colleges-Schools-Centers/Center-for-Continuing-Education/Certificate-Programs/Undergraduate-Certificates/Certificate-in-Human-Resource-Management/>). Upon completion of any certificate, these courses and previous coursework may be applied to a Le Moyne College degree.

Learners may also take an individual course to update or acquire new skills.

Professional Development

CCE also offers noncredit courses for professionals in Central New York, including preparation classes for the Society for Human Resource Management (SHRM) (<https://www.lemoyne.edu/Academics/Continuing-Education/SHRM-Preparation/>) certification exams for the SHRM-CP (Certified Professional) and SHRM-SCP (Senior Certified Professional) designation.

CCE will also work with organizations to bring professional development classes, seminars, or training modules to workplaces.

Personal Enrichment

Community members may, for personal enrichment, audit classes or take courses for credit, and may take more than 18 credit hours as approved by the department. Students who audit courses generally are exempt from assignments and examinations; however, requirements vary by class, and are negotiated between the student and the professor.

J-mester, May-mester and Summer Sessions

The Center for Continuing Education administers J-mester, May-mester, and summer sessions for all matriculated, non-matriculated, and visiting students. Further information regarding course availability, tuition costs, and registration can be found on CCE's website (<http://www.lemoyne.edu/Learn/Colleges-Schools-Centers/Center-for-Continuing-Education/>).

UNDERGRADUATE INFORMATION

- Undergraduate Admission (p. 31)
- Undergraduate Tuition and Fees (p. 33)
- Financial Aid (p. 36)
- Degree Information (p. 40)
 - Academic Standing (p. 41)
- Academic Advising and Academic Support Services (p. 43)
- Awards, Honors & Honors Programs (p. 46)

UNDERGRADUATE ADMISSION

Le Moyne College welcomes applications from students with various backgrounds and interests who have distinguished themselves by their achievements in high school. All qualified applicants are eligible for admission regardless of race, color, age, sex, physical disability, religion or national origin. Applications for admission are available through the Office of Admission or online at [lemoyne.edu/admissions](http://www.lemoyne.edu/admissions) (<http://www.lemoyne.edu/admissions/>).

First Year Admission

Applications for admission are available online at [lemoyne.edu/admissions](http://www.lemoyne.edu/admissions) (<http://www.lemoyne.edu/admissions/>). First Year students may submit either the Common Application or the Le Moyne application.

First Year Admission Requirements

First Year students seeking admission are encouraged to pursue challenging coursework and follow a rigorous college preparation program as this is the most important factor in the admission decision. Students should show proof of graduation (or the equivalent) from an accredited institution prior to matriculating and complete a minimum of 16 academic units in the following distribution:

- English (4 academic units)
- Foreign Language (3 academic units)
- Mathematics (3-4 academic units)
- Natural Science (3-4 academic units)
- Social Studies (3-4 academic units)

For students anticipating a major in Biological Sciences, Natural Sciences, Chemistry, Mathematics or Physics, four years of preparatory mathematics should be completed. Regardless of intended major, students are encouraged to complete a four unit sequence of college preparatory mathematics courses including, at minimum, Algebra I, geometry and Algebra II. At the discretion of the Admission Committee, students who fail to achieve the minimum standard may be conditionally accepted to Le Moyne and required to successfully complete a non-credit intermediate algebra course in their first year of enrollment.

Students are encouraged to take more than three units of foreign language to best prepare for language study in college.

First Year Application Requirements

An application is considered complete and ready for review when the Office of Admission receives a submitted application form, an official high school transcript, a recommendation that is preferably from a school counselor or a teacher, and a personal essay. Students should request that their official transcript be sent by their school counselor.

Applicants may submit the Scholastic Assessment Test (SAT) or the American College Testing program (ACT) for consideration. For more information on Le Moyne College's testing policy as a test-optional school, please refer to the *First Year Test Score Requirements* section.

While not required, students and families are strongly encouraged to visit campus and schedule a personal interview. Register or learn more about visit opportunities at [lemoyne.edu/visit/admissions-events-and-tours](http://www.lemoyne.edu/visit/admissions-events-and-tours) (<http://www.lemoyne.edu/visit/admission-events-and-tours/>).

First Year International Application Requirements

All foreign transcripts should be submitted to a credential evaluation service to be evaluated and then submitted to Le Moyne College. Visit

the National Association of Credential Evaluation Services (NACES) website (<https://www.naces.org/members/>) for a listing of member organizations. Additionally, if a student already graduated secondary school, please forward any national exam results such as the GCSE or WAEC.

If English is not a first language or the language of instruction in the student's secondary school career, Test of English as a Foreign Language (TOEFL), International English Language Testing System (IELTS), or Duolingo English Test results are required for consideration. Applicants with a score of 500 or higher on the SAT Evidence-based Reading and Writing section or 22 or higher on the ACT English/Writing section may be eligible for a waiver of the English language proficiency exam requirement.

Prior to enrolling, international students will need to provide documentation of citizenship such as a U.S. visa or a passport. For those who require a visa to be issued to them, a Certificate of Finance may also be required to support the Form I-20 process. For more information about these immigration documentation requirements, please visit the International Admission web page (<https://www.lemoyne.edu/Admission/International-Admission/Applying-for-First-Year-Admission/>).

First Year Arthur O. Eve Higher Education Opportunity Program (HEOP) Application Requirements

The Arthur O. Eve Higher Education Opportunity Program (HEOP) is a partnership between the New York State Education Department and Le Moyne College. HEOP provides broad and varied educational experiences to capable students who, due to academic under-preparation and limited financial resources, might not have an opportunity to attend college. The program provides academic support services, counseling, and financial aid to enable students to successfully complete their program of study at Le Moyne. HEOP is open to New York State residents only.

Le Moyne College does not have a separate application for HEOP. Students interested in applying for the program may fill out the HEOP section on their application for admission. For more information about eligibility and the HEOP process at Le Moyne College, please visit the HEOP & AHANA Office web page (<https://www.lemoyne.edu/Admission/First-Year-Admission/HEOP-AHANA/>).

First Year Test Score Requirements

As a test-optional school, Le Moyne does not require SAT or ACT scores for regular admission. Students who believe their SAT or ACT scores represent a strong, positive component of their academic portfolio may still submit them as part of their application.

Transfer Admission

Students who wish to transfer to Le Moyne from another institution are welcome and should access the application at [lemoyne.edu/transfer](http://www.lemoyne.edu/transfer) (<http://www.lemoyne.edu/transfer/>).

Transfer Admission Requirements

Applications for transfer admission are evaluated on the strength of the academic program in college, the grades earned, and the applicability of the coursework to a Le Moyne degree. For students transferring to Le Moyne from regionally accredited institutions and from academic programs similar to the intended major at Le Moyne, the following guidelines usually apply:

1. The student must have earned at least a 2.6 cumulative G.P.A. for admission to most programs.

2. Proficiency in English, mathematics and the intended area of study must be demonstrated in the academic record. In mathematics, all students must have successfully completed at least the third year of college preparatory high school mathematics or intermediate algebra at the college level.
3. Transfer students may use transfer credit to fulfill a core requirement when the transfer course is equivalent to the core course. Residency requirements may apply. [lemoyne.edu/core](http://www.lemoyne.edu/core) (<http://www.lemoyne.edu/core/>).

Transfer Application Requirements

Completed applications are reviewed on a rolling basis, so it is advantageous to apply well in advance of the announced deadlines.

A completed application package includes:

1. A completed transfer application;
2. Official transcript from each college attended or where credit has been earned;
3. Personal statement; and
4. If you have completed (post high-school graduation) fewer than 24 college credit hours at the time of application, you must submit an official high school transcript.

Transfer students are eligible for all forms of need-based financial aid.

Transfer International Application Requirements

All foreign transcripts should be submitted to a credential evaluation service for a course-by-course evaluation and then submitted to Le Moyne College. Visit the National Association of Credential Evaluation Services (NACES) website (<https://www.naces.org/members/>) for a listing of member organizations.

If English is not a first language or the language of instruction in the student's educational career, Test of English as a Foreign Language (TOEFL), International English Language Testing System (IELTS), or Duolingo results are required for consideration. Applicants with a score of 500 or higher on the SAT Evidence-based Reading and Writing section or 22 or higher on the ACT English/Writing section may be eligible for a waiver of the English language proficiency exam requirement.

Prior to enrolling, international students will need to provide documentation of citizenship such as a U.S. visa or a passport. For those who require a visa to be issued to them, a Certificate of Finance may also be required to support the Form I-20 process. For more information about these immigration documentation requirements, please visit the International Admission web page (<https://www.lemoyne.edu/Admission/International-Admission/Applying-for-First-Year-Admission/>).

Transfer Arthur O. Eve Higher Education Opportunity Program (HEOP) Requirements

There is no separate application and students can indicate interest on the HEOP section of their application for admission. Students interested in transferring into HEOP at Le Moyne must have been in an opportunity program (HEOP, EOP, SEEK, etc.) at their previous institution. Verification of status will be required prior to final acceptance into the program.

Transfer of Credit

Le Moyne makes a sincere effort to transfer credits to the student's best educational advantage, provided that the previous coursework is applicable to the Le Moyne degree program. Please visit the Registrar's website ([http://www.lemoyne.edu/College-Administration/Office-of-the-](http://www.lemoyne.edu/College-Administration/Office-of-the-Registrar/Transferring-Credit/)

[Registrar/Transferring-Credit/](http://www.lemoyne.edu/College-Administration/Office-of-the-Registrar/Transferring-Credit/)) for more information on Le Moyne's policy and procedures for accepting transfer credit.

Advanced Placement

Le Moyne College supports the Advanced Placement programs of the College Entrance Examination Board and acknowledges the accomplishments of those students who, through high scores on Advanced Placement (AP) examinations, have demonstrated special academic achievement in high school. At the same time, the College recognizes that only students who are judged to be adequately prepared should be admitted to courses and programs. The College will therefore award college-level credit based on the College's AP Credit Policy if a specific score is met. For more information and to view a copy of the College's AP Policy, please visit the Registrar's website (<http://www.lemoyne.edu/College-Administration/Office-of-the-Registrar/Transferring-Credit/>).

College Level Examination Program (CLEP)

Le Moyne College grants academic credit for some subject examinations of CLEP to students who are already enrolled in the College and to applicants for admission. For more information, please visit the Registrar's website (<http://www.lemoyne.edu/College-Administration/Office-of-the-Registrar/Transferring-Credit/>).

International Baccalaureate (IB) Credit

International Baccalaureate (IB) credit is accepted by Le Moyne College and reviewed on an individual basis. Credit is determined by the score received on the exam as well as the diploma earned. For more information, please visit the Registrar's website (<http://www.lemoyne.edu/College-Administration/Office-of-the-Registrar/Transferring-Credit/>).

UNDERGRADUATE TUITION AND FEES

2021-2022 Undergraduate Expenses

The full cost of an education at Le Moyne College is not reflected in the tuition that is charged. The College receives contributions from alumni, corporations, friends and the Jesuit community which help to offset educational expenses. Over the years, the College endowment fund has also helped to maintain the reasonable tuition charges that are assessed to the students.

Tuition and Regular Fees 2021-2022

Fee Description	Semester	Year
Tuition	\$17,805	\$35,610
Room (Residence Hall/ Dormitory)	\$4,600	\$9,200
Room (Townhouse/ Apartment)	\$5,065	\$10,130
Board (Carte Blanche)	\$2,780	\$5,560
Board (Carte Blanche Gold)	\$2,880	\$5,760
Board (16 Meal Plan)	\$2,615	\$5,230
Board (16 Meal Plan Gold)	\$2,715	\$5,430
Board (12 Meal Plan)	\$2,445	\$4,890
Board (12 Meal Plan Gold)	\$2,545	\$5,090
Board (8 Meal Plan)	\$1,870	\$3,740
Board (8 Meal Plan Gold)	\$1,970	\$3,940
15 Meal Commuter Plan (optional)	\$286 + \$125 MunchMoney	
30 Meal Commuter Plan (optional)	\$530 + \$200 MunchMoney	
60 Meal Commuter Plan (optional)	\$785 + \$200 MunchMoney	

Mandatory Fees, Incidental Fees, Deposits and Miscellaneous Charges

Mandatory Fees

Fee Description	Charge
Comprehensive School fee-Full-time Undergraduate (per semester)	\$500
Comprehensive School fee-Part-time Undergraduate (per semester)	\$35

Parking Permit Fees

Fee Description	Charge
Resident- First Year	\$500
Resident - Second Year	\$250
Resident - Third Year	\$150

Resident - Fourth Year +	\$100
Commuters (All)	\$100

Academic Fees

Fee Description	Charge
Science Laboratory Fee (per laboratory)	\$65
Chemistry Breakage Fee (per course)	\$10
Chemical Principals I (all sections)	\$106.40
Visual/Studio Arts Fee (per course)	\$50
Photography Fee (per course)	\$55
Music 396 Applied Music I	\$234
Music 397 Applied Music II	\$468
Communications Fee (per course)	\$30
Communications CMM 307	\$55

Academic Fees Involving Travel

There will be an additional fee for courses in which travel is required. It is mandatory for the registered students to sign a travel agreement form of understanding with the faculty coordinator and adhere to Le Moyne College's travel policy.

Incidental Fees

Fee Description	Charge
Housing security deposit (refundable)	\$300
Late payment	\$100
Late registration	\$25
Returned check	\$20
Application fee	\$35
Transcript of record	\$10

**All college fees are subject to change

New Student Enrollment Deposit

If an accepted applicant decides to attend Le Moyne, a \$300 enrollment deposit is required. This deposit is deducted from the first semester's tuition and room charges. Deposits are not refundable after May 1 if the student does not enroll.

Full-Time Students

An undergraduate student is considered full time if registered for 12 or more credit hours in a given semester. A student with an overall GPA of at least 3.25 who wishes to enroll in more than 18 credit hours must visit the Registrar (GH212) to enroll in the additional credit hours. A student with an overall GPA of less than 3.25 must request approval for a course overload from the Assistant Dean for Student Success (RH342). The student and Assistant Dean will meet to discuss the need for the additional course work based upon the student's past performance and future requirements. The course overload may not be approved if in the Assistant Dean's judgement this additional course work would jeopardize the student's academic performance.

Part-Time Students

A part-time student, is a student who carries less than 12 credit hours in a given semester. Please reference the following link for information regarding tuition and fees for part-time study.

Additional details from the Le Moyne College Center for Continuing Education (<http://www.lemoyne.edu/Apply/Continuing-Education-Admission/Tuition-Costs/>).

Refund Policies

Students in any of the Le Moyne College programs who withdraw from the College for any circumstance during the spring and fall terms are entitled to a refund of a percentage of their tuition charge based on their formal withdrawal date.

The date of withdrawal will be considered the date on which a written statement of withdrawal has been received by the registrar. Tuition adjustment calculations are done automatically based on the date of withdrawal and the start date of the semester. Fees are not refundable.

If you withdraw from the College or from a 15-week course during the **fall** and **spring** semester, you may be entitled to a credit percentage of your tuition.

- 100 percent tuition credit during the first week
- 80 percent tuition credit during the second week
- 60 percent tuition credit during the third week
- 40 percent tuition credit during the fourth week
- 20 percent tuition credit during the fifth week
- No tuition refund credit after the fifth week

In cases where a government agency requires a different refund policy, the College will adhere to the government agency policy. For courses less than 15 weeks, please contact the Bursar's office for the refund policy.

The cost of education is a substantial investment. You can purchase elective insurance plan coverage for tuition, room and board charges which will minimize financial loss in case of withdrawal during a term. The coverage must be purchased prior to the first day of classes for the fall semester. Questions regarding the plan should be addressed to A.W.G. Dewar at (617) 774-1555 or e-mail at trp@dewarinsurance.com

Room and Board

Students residing in residence halls who are dismissed from the college during the semester are not entitled to any refund. Students in good standing who voluntarily withdraw from the College during the semester should contact the Office of Residence Life regarding room and board policies.

Financial Aid and Return of Title IV Funds (R2T4) Refund Policy

Prior to withdrawing or taking a leave of absence, a student should contact the Financial Aid Office to review how this change may impact their financial aid for the current and future semesters. Withdrawing prior to completing a semester may impact a student's ability to meet the College's Standards of Academic Progress policy, which can be reviewed here. If a student withdraws or takes a leave of absence during a semester, their institutional charges may be reduced based on their official date of withdrawal/leave of absence. To view the College's tuition refund policies, see Refund Policy above. Le Moyne grants and scholarships are reduced in accordance with our tuition refund policy.

Students who have received Title federal funds (such as a Pell Grant, SEOG Grant, TEACH Grant, Federal Direct Subsidized/Unsubsidized Loans, Federal PLUS loans) and withdraw or take a leave of absence prior to completing 60% of a semester are subject to the Return of Title IV Funds policy. The Financial Aid Office will use the federal formula to calculate the amount of aid a student has "earned" based on their official date of withdrawal/leave of absence. Any "unearned" federal funds will be refunded back to the federal programs in the following order:

1. Unsubsidized Direct Loan
2. Subsidized Direct Loan
3. Perkins Loan
4. Direct Graduate PLUS Loan
5. Direct Parent PLUS Loan
6. Pell Grant
7. SEOG Grant
8. TEACH Grant

Once all required adjustments are made to the student's account, the student will be notified by email of any resulting balance owed to the College.

Financial Responsibility

Students are responsible for any college debt they have incurred. Students who fail to make payment by the scheduled due date and fail to make acceptable payment arrangements, will have financial restrictions place on their account. The financial restriction will be released after the outstanding debt and penalties have been paid in full. The restriction:

- will withhold the student's transcripts and/or diploma
- will prohibit the student from registering for any subsequent periods
- may cancel the student's registration immediately, without credit for course in which the student is enrolled

If a college debt must be referred to outside sources for collection, the student will be responsible for paying any third-party collection agency fees (approximately 33% of amount outstanding) plus any attorney fees associated. Delinquent accounts will be reported to one or more of the national credit bureaus.

Payment Information

Payment of Tuition and Fees

All tuition and fees are due prior to each semester start. Bills are available for students to view on line at phinfo.lemoyne.edu (<https://myinfo.lemoyne.edu/Student/Account/Login/?ReturnUrl=%2fStudent%2f>) based on their semester registration. Payments for tuition and fees via electronic check may be processed on line 24/7 through phinfo.lemoyne.edu (<https://myinfo.lemoyne.edu/Student/Account/Login/?ReturnUrl=%2fStudent%2f>). Cash, check and money order are accepted in the bursar office during normal business hours. Credit cards are not accepted.

Students who do not pay their tuition on or before the due date are not permitted to attend class until they pay their tuition. Students who fail to pay their tuition prior to the start of classes for the semester will be responsible for payment of a \$100 late fee and interest of 1% per month or an annual rate of twelve percent (12%) on the outstanding balance. Students who register on or after the first day of classes will be subject to a late registration fee as outlined under the Incidental Fees. This includes students who add courses to achieve full-time status after the start of the semester. Students whose checks are returned by the bank will also be subject to a late-payment fee as well as a returned check fee. Accounts

date from the opening day of the semester. Students permitted to enter later than this date are charged for the full semester.

Payment Plan

The College offers the Cashnet Tuition Payment Plan, a monthly payment plan for people who want an alternative to paying at the beginning of each semester. Brochures are available in the bursar and financial aid offices or at *Cashnet Payment Portal*.

FINANCIAL AID

Financial Aid

Le Moyne College considers it essential to provide assistance to students whose personal and family resources are inadequate to meet the full cost of education. The College has developed a comprehensive program of scholarships, grants, loans and employment to supplement resources of full-time students.

More detailed information is available at the Office of Financial Aid. Costs can be found on the Bursar's office website.

Important Steps in Applying for Funds

In order to apply for all the aid available through Le Moyne, an incoming student must file the Free Application for Federal Student Aid (FAFSA). The FAFSA is available online at www.fafsa.ed.gov (<http://www.fafsa.ed.gov>), and should be complete by January 15.

Returning students must file the NYS TAP Application and the FAFSA. If requested, students and/or parents must submit documents to fulfill federal verification requirements. All forms should be received by the Office of Financial Aid by April 15 each year.

Any type of financial aid administered by the College may be revoked in the event that a discrepancy between the applicant's statement of need and his or her current financial status is discovered.

Verification

Verification is a federal review process regulated by the Department of Education to confirm the accuracy of student reported data on the FAFSA. The U.S. Department of Education selects applications to be verified, however an institution may also choose to select an applicant for verification if discrepancies are found. Once verification documents have been requested by the College, the student must submit all requested documentation within 30 days. Federal student aid will remain estimated and will not be credited to a student's account until verification is complete. **Returning students will not receive a financial aid package until verification has been completed.**

Items to be verified may vary depending on the individual verification flag assigned to the applicant by the Department of Education. Items to be verified may include:

- Adjusted gross income (AGI)
- U.S. income tax paid
- Education credits
- Untaxed portions of IRA distributions
- Untaxed portions of pensions
- IRA deductions and payments
- Tax-exempt interest income
- Income earned from work
- Household size
- Number in college
- High school completion status
- Identity/statement of educational purpose

Students are notified in writing by the Financial Aid Office of the documents need to complete verification, and the following documents are those generally required to complete the process:

- Signed copy of student's federal income tax return from the prior, prior year (two years ago)
- Signed copy of parents' federal income tax return from prior, prior year (two years ago for dependent students)
- Signed copy of spouse's income tax return for prior, prior year (two years ago for married independent students)
- Verification Document
- Copy of 1099 from the prior, prior year (two years ago)
- Copy of W-2's from the prior, prior year (two years ago)

Upon receipt of the verification documents, the school will compare the information on the submitted documents with that on the FAFSA. If discrepancies are revealed, the school will make the corrections, which could result in a change in aid eligibility. The school will notify the student in writing of any changes in eligibility due to verification within one week of completing the verification process.

If a student is selected for verification after federal student aid funds have already disbursed, the school will withhold all future disbursements of federal student aid until verification is complete. If verification results in the student's ineligibility for aid that has been previously disbursed, then the student is responsible for repaying aid that he/she is not eligible for. The school will notify the student in writing requesting full payment of the overpayment of aid he/she is not eligible for. Any student in an overpayment status who fails to repay the overpayment or make satisfactory repayment arrangements will be reported to the U.S. Department of Education and/or to the National Student Loan Data System (NSLDS) and remain ineligible for further federal student aid until the overpayment is resolved.

Undergraduate Student Satisfactory Academic Progress Policy (SAP) Federal and Le Moyne Aid

Any student receiving Le Moyne or federal financial aid must maintain Satisfactory Academic Progress. In addition to the College's satisfactory academic standards outlined in the Academic Information section of the catalog, students receiving Title IV aid must also meet additional SAP requirements as required by federal regulations (CFR 668.34). Federal Standards of Academic Progress (SAP) require that a student must complete their degree within a specified **maximum time frame**, demonstrate they are progressing through their program at a pace that will ensure graduation within the maximum time frame (**quantitative**) and achieve a GPA that is consistent with meeting graduation requirements (qualitative). SAP reviews will be completed at the end of each semester once final grades have been posted.

Financial Assistance Programs Affected

- All Federal Aid Programs
- All Institutional Awards
- All Private/Alternative Loans

Qualitative Requirements – GPA

Undergraduate students (full time or part time) are required to maintain the following cumulative GPA:

Credits Completed	Grade Level	Cumulative GPA
First semester Freshman	First semester Freshman	1.75

0-24	Freshman	2.0
25-53	Sophomore	2.0
54-83	Junior	2.0
84-Graduation	Senior	2.0

Quantitative Requirements - PACE

Undergraduates must complete a minimum percentage of cumulative attempted credits or pace. Pace is calculated by dividing the cumulative credit hours earned by the cumulative credit hours attempted.

Students must maintain a minimum pace of 67.00%. For example, a student who completes 12 of their 15 credits attempted is at a 80% pace.

Maximum Time Frame

Undergraduate students are limited to 180 credits for a program with a published length of 4 years. If a student changes their major or program, the Financial Aid Office will evaluate the possibility of the extension of the maximum timeframe.

Financial Aid Warning

If a student fails to meet SAP upon review at the end of a payment period, the student will be sent a warning letter from the Financial Aid Office. The warning letter will inform the student of required minimum quantitative and qualitative standards (Cum. GPA 2.0 and completing 67.00% of all attempted credits). During the warning semester students will be eligible for all funding sources including federal and institutional aid programs. A student who receives a warning letter is strongly advised to work closely with the Student Success Center in order to address their academic progress difficulties. Students who fail to meet the GPA and/or Pace requirements set forth in this policy after the warning period will lose their federal and Le Moyne aid unless they successfully appeal and are placed on financial aid probation.

SAP Appeal Procedures

Once a student has been notified of their ineligibility for Title IV aid, they may submit a written appeal to the SAP Appeals Committee prior to the first day of classes of the next term.

1. A student may appeal on the basis of: an injury or illness, the death of a relative, or other special circumstances. The appeal must explain why he or she failed to make satisfactory progress and what has changed in their situation that will allow them to make satisfactory progress at the next evaluation.
2. Students are required to meet with an advisor in the Academic Success Center and/or an academic advisory, to develop a plan that will be followed to return the student to good academic standing.
3. At the completion of the review of the appeal, which should take no longer than 10 business days, the student will be notified in writing of the results, and what needs to be accomplished in the coming term(s) to return to good academic standing (and to maintain Title IV aid eligibility).

Financial Aid Probation

If a student's appeal is approved, the student will be placed on financial aid probation, with an academic plan and will be eligible for federal and Le Moyne aid for one semester. If the student is meeting the universally applicable SAP requirements, or the requirements of their academic plan, the student will be eligible to receive Title IV aid for future semesters,

provided the student continues to meet those requirements upon review of each subsequent term.

Incompletes, Withdrawals, and Repeated Course Work

Incompletes, withdrawals and repetitions will be reviewed on a case by case basis, as they relate to qualitative and quantitative guidelines by staff at the Financial Aid Office. (Student's may only retake a passed course once, and be able to count the course toward enrollment status and eligibility for Title IV aid for the semester it is being retaken.)

Transfer Coursework

Only transfer credits accepted by Le Moyne and those credits which count towards a student's current program will be counted as both attempted and completed credits in SAP evaluation. Transfer credits will not count towards qualitative SAP requirements (GPA).

NEW SAP/Conflicting Information

If the Financial Aid Office receives new information affecting SAP such as late notification of a grade change for previous for a previous fall or spring term, the SAP for that student will be rechecked using the new information on a case by case basis.

Regaining Eligibility

A student who has lost eligibility for Le Moyne and federal financial aid due to not meeting SAP requirements will regain Le Moyne and federal financial aid eligibility by taking action that brings the student into compliance with quantitative and qualitative satisfactory academic standards outlined in this policy.

Graduate Student Satisfactory Academic Progress Policy (SAP) Federal and Le Moyne Aid

Any graduate student receiving Le Moyne federal financial aid must maintain Satisfactory Academic Progress. In addition to the College's satisfactory academic standards outlined in the Academic Information section of the catalog, students receiving Title IV aid must also meet additional SAP requirements as required by federal regulations (CFR 668.34). Federal Standards of Academic Progress (SAP) require that a student must complete their degree within a specified maximum time frame, demonstrate they are progressing through their program at a pace that will ensure graduation within the maximum time frame (quantitative) and achieve a GPA that is consistent with meeting graduation requirements(qualitative). SAP reviews will be completed at the end of each semester once final grades have been posted.

Financial Assistance Programs Affected

- # All Federal Aid Programs
- # All Institutional Awards
- # All Private/Alternative Loans

Qualitative Requirements – GPA

Graduate students (full or part-time) are required to maintain a cumulative GPA of 3.0.

Quantitative Requirements - PACE

Graduate students must complete a minimum percentage of cumulative attempted credits or pace. Pace is calculated by dividing the cumulative

credit hours earned by the cumulative credit hours attempted. Students must maintain a minimum pace of 67.00%. For example, a student who completes 4 of their 9 credits attempted is at a 44.44% pace.

Maximum Time Frame

Students are eligible for Federal Student Aid Program funding and Le Moyne aid for a maximum time-frame lasting 150% of the normal time needed to complete their program of study. For example, a graduate student may receive federal aid for up to 36 months toward completion of a 24 month degree.

Financial Aid Warning

If a student fails to meet SAP upon review at the end of a payment period, the student will be sent a warning letter from the Financial Aid Office. The warning letter will inform the student of required minimum quantitative and qualitative standards (Cum. GPA 2.0 and completing 67.00% of all attempted credits). During the warning semester students will be eligible for all funding sources including federal and institutional aid programs. A student who receives a warning letter is strongly advised to work closely with the Student Success Center in order to address their academic progress difficulties. Students who fail to meet the GPA and/or Pace requirements set forth in this policy after the warning period will lose their federal and Le Moyne aid unless they successfully appeal and are placed on financial aid probation.

Title IV SAP Appeal Procedures

Once a student has been notified of their ineligibility for Title IV aid, they must submit a written appeal to the SAP Appeals Committee prior to the first day of classes of the next term.

A) A student may appeal on the basis of: an injury or illness, the death of a relative, or other special

circumstances. The appeal must explain why he or she failed to make satisfactory progress and

what has changed in their situation that will allow them to make satisfactory progress at the next

evaluation.

B) In some instances, depending on the situation, the student may be required to meet with an

advisor in the Academic Success Center and/or a designee, to develop a plan that will be followed

to return the student to good academic standing.

C) At the completion of the review of the appeal, the student will be notified in writing of the

results, and what needs to be accomplished in the coming term(s) to return to good academic

standing (and to maintain Title IV aid eligibility).

Financial Aid Probation

If a student's appeal is approved, the student will be placed on financial aid probation, with or without an academic plan and will be eligible for federal and Le Moyne aid for one semester. If the student is meeting the universally applicable SAP requirements, or the requirements of their

academic plan, the student will be eligible to receive Title IV aid for future semesters, provided the student continues to meet those requirements upon review of each subsequent term.

Incompletes, Withdrawals, and Repeated Course Work

Incompletes, withdrawals and repetitions will be reviewed on a case by case basis, as they relate to qualitative and quantitative guidelines. (Student's may only retake a passed course once, and be able to count the course toward enrollment status and eligibility for Title IV aid for the semester it is being retaken.)

Requests for waiver of these guidelines, based on extenuating circumstances, should be done in writing to the SAP Appeals Committee.

NEW SAP/Conflicting Information

If the Financial Aid Office receives new information affecting SAP such as late notification of a grade change for previous for a previous fall or spring term, the SAP for that student will be rechecked using the new information.

Regaining Eligibility

A student who has lost eligibility for federal financial aid due to not meeting SAP requirements will regain federal financial aid eligibility by taking action that brings the student into compliance with institutional and federal satisfactory academic standards.

Academic Guidelines for New York State Financial Aid

Students who have received an Award Certificate for any New York state funds must meet the academic guidelines described below. It is the responsibility of Le Moyne College to certify that all New York state eligibility requirements have been met. The date of certification is the day after the end of the five-week tuition refund period.

Recipients of New York state funds are encouraged to contact the financial aid office for clarification concerning these regulations.

1. Pursuit of Program (Attendance):

- Student must be enrolled for a minimum of 12 credit hours per semester.
- First-Year Award Received — Student must complete 50 percent of minimum full-time load per semester.
- Second-Year Award Received — Student must complete 75 percent of minimum full-time load per semester.
- Third-and Fourth-Year Award Received — Student must complete 100 percent of minimum full-time load per semester.

2. Standard of Satisfactory Academic Progress for Purpose of Determining Eligibility for State Student Aid:

- a. Payments starting prior to 2010-2011 and special academic programs.

Certified for Payment	Credits	G.P.A.
1st	0	0
2nd	3	1.1
3rd	9	1.2
4th	21	1.3
5th	33	2.0
6th	45	2.0
7th	60	2.0

8th	75	2.0
9th	90	2.0
10th	105	2.0

b. Payments starting in 2010-2011 and thereafter.

Certified for Payment	Credits	G.P.A.
1st	0	0
2nd	6	1.5
3rd	15	1.8
4th	27	1.8
5th	39	2.0
6th	51	2.0
7th	66	2.0
8th	81	2.0
9th	96	2.0
10th	111	2.0

Financial Aid and Return of Title IV Funds(R2T4) Refund Policy

Prior to withdrawing or taking a leave of absence, a student should contact the Financial Aid Office to review how this change may impact their financial aid for the current and future semesters. Withdrawing prior to completing a semester may impact a student's ability to meet the College's Standards of Academic Progress (SAP) policy, which can be viewed above, see "Undergraduate Student Satisfactory Academic Progress (SAP) Policy". If a student withdraws or takes a leave of absence during a semester, their institutional charges may be reduced based on their official date of withdrawal/leave of absence. To view the College's tuition refund policies, visit the Undergraduate and Graduate Tuition and Fees at <https://next-collegecatalog.lemoyne.edu/undergraduate-information/undergraduate-tuition-and-fees/> (p. 33). Le Moyne grants and scholarships are reduced in accordance with our tuition refund policy.

Students who have received Title federal funds (such as a Pell Grant, SEOG Grant, TEACH Grant, Federal Direct Subsidized/Unsubsidized Loans, Federal PLUS loans) and withdraw or take a leave of absence prior to completing 60% of a semester are subject to the Return of Title IV Funds policy. The Financial Aid Office will use the federal formula to calculate the amount of aid a student has "earned" based on their official date of withdrawal/leave of absence. Any "unearned" federal funds will be refunded back to the federal programs in the following order:

1. Unsubsidized Direct Loan
2. Subsidized Direct Loan
3. Perkins Loan
4. Direct Graduate PLUS Loan
5. Direct Parent PLUS Loan
6. Pell Grant
7. SEOG Grant
8. TEACH Grant

Once all required adjustments are made to the student's account, the student will be notified by email of any resulting balance owed to the College.

DEGREE INFORMATION

To earn a bachelor's degree at Le Moyne College, a student must satisfactorily complete 120 semester hours of credit or more, depending upon the program selected.

The semester hour is the unit of instruction used for computing the amount of work required for graduation. One semester hour is equivalent to one 50-minute period of lecture or recitation per week for one semester. Three clock hours of laboratory work are equal to one period of lecture or recitation.

A semester-hour credit is the amount of credit earned by the study of one course which meets once a week for at least a 15-week semester. No number of credits, however, will entitle a student to a degree. The requirements for each program consist of the specific outline of the courses required for the respective degrees and majors, together with the credits attached to each.

Core Curriculum

At Le Moyne College a solid grounding in the humanities and the sciences is an essential element in each student's preparation for a meaningful and productive life. The College, therefore, requires participation in the core curriculum, a special series of required courses and course options designed to assist students in acquiring the skills, knowledge, attitudes and values that are the basis of a liberal education in the Jesuit tradition. For a complete listing of these requirements, see the Core Curriculum website (p. 61).

Matriculation

Matriculated students have been admitted into the College and must be pursuing a Le Moyne College degree. All full-time students will be considered matriculated. Nonmatriculated students may select courses according to their individual interests but are advised that if they should later decide to matriculate, only courses applicable to a specific degree program can be counted toward that degree. Part-time students may study on either a matriculated or a nonmatriculated basis.

Degrees

All degrees awarded by Le Moyne College are authorized by the New York State Board of Regents and are registered with the New York State Education Department. See the list of degree programs on the Academic Information (p. 11) page.

Graduation Requirements

In order to receive a bachelor's degree, the student must:

- Obtain a passing grade in all courses required for the major program including the College core.
- Complete half of the major requirements at Le Moyne.
- Complete half the minor requirements at Le Moyne.
- Have a 2.0 overall G.P.A.
- Have a 2.0 G.P.A. in the major courses and/or minor courses.
- Complete the last 30 hours at Le Moyne.
- Complete any additional requirements as specified in a particular major.
- Complete all degree requirements for an undergraduate degree within 30 days of the graduation date for the given term. If requirements are not met, a student's graduation date will then be moved to the next

available graduation date for degree conferral. Graduate students have 60 days of the graduation date for the given term to complete all degree requirements for issuance of their graduate degree.

- Le Moyne College's Graduation Dates
 - May - the date of the College's Commencement Ceremony
 - August - August 31
 - December - December 31

Majors

Le Moyne College offers a wide array of undergraduate majors leading to the completion of a Bachelor of Arts or Bachelor of Science degree. See the list of undergraduate majors on the Academic Information (p. 11) page.

Dual Majors vs. Double Majors

If two or more academic departments have agreed upon an organized a curriculum, approved by the Curriculum Committee, they are referred to as a "dual majors." Any two or more majors combined within an academic program that are not approved by the Curriculum Committee as dual majors are therefore referred to as a "double major."

Students who wish to receive two majors within a single degree (B.S. or B.A.) must complete the core and courses described in a major and major supporting courses for each of the majors before being certified for graduation. Students who declare two majors amongst different degrees (B.S. and B.A.) must satisfactorily complete all requirements for both degrees and earn a minimum of 144 semester hours.

Changing or Adding a Major

Before either changing or adding a major, a student must consult with the chair of the department that administers the new major. The department chair will advise him or her of the course requirements and career opportunities in the field. Any change or addition of a major must be presented to the Registrar's Office. A 2.0 G.P.A. must be maintained in the major.

Some departments may have caps on the maximum number of students who can pursue a major that they offer, due to staffing or other reasons. In cases where a cap has been reached, a student may not be able to change to or add this major.

Minor Programs

A list of minor programs can be found in the Academic Information (p. 11) section of this catalog.

The College requires that half the courses used for a minor be taken at Le Moyne. Specific requirements for a minor are determined by each department. The minor course of study is required for some programs but available to every student, and approval by the major and minor department chairs is required.

Each department has the option of requiring an interview with its chair before admitting any student to its minor program. In any case, the student's declaration of an intended departmental minor must be presented in the Registrar's Office.

A student must maintain a cumulative G.P.A. of at least 2.0 in the courses fulfilling the minor requirements. For more information, refer to specific areas of study.

Academic Standing

Academic standing is determined by a student's cumulative G.P.A. beginning with the final grades of the first semester of the first year. No student may graduate from the College in any degree program with a cumulative G.P.A. of less than 2.0. Recognizing that the transition to college is sometimes difficult, the College has established minimum standards for first-year and transfer students in their beginning semester at Le Moyne (see Basis for Academic Standing).

Credit Hours Attempted Toward Degree

This category includes all hours, comprising all transfer hours, W, PF/P and PF/HP, and any hours failed, including F, PF/F and WF, that have been attempted toward the Le Moyne degree. The student may choose to revoke transfer credits being used towards the degree program (please contact the Registrar's office). Only credits attempted at Le Moyne are used in calculating the G.P.A.

Academic Forgiveness

There are two instances in which a student can seek academic forgiveness. If a student returns to Le Moyne after an absence of 10 years, he/she may apply for academic forgiveness. A student should apply for academic forgiveness during the semester in which he or she is re-admitted. This policy allows the aged record to be treated as transfer credit; courses with a grade of C or better count as credit toward graduation and courses with a grade of D or F will not count toward graduation credit. No course counts in the calculation of the new cumulative G.P.A. The previous record will be recorded on the transcript with the old grades, but the student will restart a new G.P.A. A notation explaining the policy will be on the transcript.

A student who has changed majors and has the consent of his/her academic advisor in the new major may petition the dean for academic forgiveness of an entire semester. Students must achieve a minimum 2.5 G.P.A. in the semester before making such a petition. This differs from the policy for aged records in that all courses for the semester will be removed from the G.P.A. and none will count toward graduation.

Retaking Courses

If a student retakes a course already taken at Le Moyne College, all the grades for that course will appear on the transcript, but the course will apply toward the student's degree program only once.

For each repeated course, up to one failing grade (F, WF or PF/F) for that course will be removed from the calculation of the grade point average, provided that the repeated course was taken at Le Moyne and that it is the same as the original (same course number, same course title).

Satisfactory Academic Standing

A student who has earned a cumulative G.P.A. of 2.0 or better is in good academic standing.

Academic Warning

A warning occurs when a first-semester, first-year student receives a semester G.P.A. from 1.75 through 1.999. While on warning, a student is required to meet with a representative from the Student Success Center throughout the course of the semester, develop an academic recovery plan, and attend academic success programming. The student may receive other stipulations intended to improve the student's academic success, such as attending individual tutoring or study groups. Such

students should also consult with their advisor about their first semester progress and discuss strategies for raising their grades. Students should also meet with their instructor(s) of courses in which they are struggling. A warning may be issued for one semester only.

Academic Probation

Students on academic probation have two semesters to raise their cumulative G.P.A. to 2.0 or above. While on probation, a student is required to meet regularly with an assigned probation counselor throughout the course of the semester and attend academic success programming. The student may be restricted to a reduced course load, and/or receive other stipulations intended to improve the student's academic success, such as attending individual tutoring or study groups.

The most efficient way for students to raise their G.P.A. is to retake any courses at Le Moyne in which they earned an "F." Upon completion of the course, the failing grade will be replaced with the new grade and their cumulative G.P.A. will be adjusted. The original grade of "F" remains on the transcript but is not calculated into the G.P.A. A grade of "F" can only be replaced once. If a student fails a course the second time, the second "F" and the new grade are calculated in the G.P.A.

Academic Disqualification

If a student is academically disqualified (see chart on next page), one fall or spring semester must elapse before that student can apply for readmission to Le Moyne. While readmission is not guaranteed, disqualified students who are successfully readmitted must have earned above average grades at other accredited institutions while they were away from Le Moyne; sought counseling to resolve non-academic issues that were compromising their academic success; and/or resolved any financial, personal or academic support issues impeding academic achievement.

Once semester grades are reported, students who are academically disqualified are informed of their academic standing as well as the procedures for appeal of their disqualification. Disqualification will be enforced unless, in the judgment of the Academic Appeals Committee, there are extenuating circumstances. If a student appeals disqualification and the appeal is successful, then the Assistant Dean for Student Success, on behalf of the Appeals Committee, will inform the student of the conditions for resuming studies.

Readmission

An academically disqualified student who wishes to return is required to complete a readmission application available through the Office of Admission. Readmission is not guaranteed to students who were academically disqualified. Readmission and the conditions for such are determined by the Assistant Dean for Student Success. All financial obligations must be settled with the Office of the Bursar prior to reactivation. If allowed to return, the student will be on academic probation with conditions outlined.

Academic Dismissal

A student who has been readmitted after academic disqualification and who fails to meet the terms of readmission will be dismissed and not eligible to return.

Basis for Academic Standing

Academic standing is a point-in-time calculation (at the end of each fall and each spring semester) taking into account a student's grades in the

previous semester and his/her cumulative grade point average. Good academic standing is required for students to graduate and maintain most scholarships and financial aid.

First-semester, first-year students

Grades and Average	Status
Cumulative G.P.A. of 2.0 or above	Good Academic Standing
Cumulative G.P.A. of 1.75 through 1.999	Academic Warning
Receiving three or more failing grades (F, WF, PF/F)	Academic Probation
Cumulative G.P.A. below 1.75	Academic Probation

First-semester, transfer students

Grades and Average	Status
Cumulative G.P.A. of 2.0 or above	Good Academic Standing
Receiving three or more failing grades (F, WF, PF/F)	Academic Probation
Cumulative G.P.A. below 2.0	Academic Probation

All undergraduate students except first-semester students

Grades and Average	Status
Cumulative G.P.A. of 2.0 and higher	Good Academic Standing
Cumulative G.P.A. average below 2.0	Academic Probation
Receiving three or more failing grades (F, WF, PF/F) and a G.P.A. above 2.0	Academic Probation
Receiving three or more failing grades (F, WF, PF/F) and a G.P.A. below 2.0	Academic Disqualification
After 2 consecutive semesters on probation, student's cumulative G.P.A. is below 2.0	Academic Disqualification

Additional notes concerning academic standing:

- All charts above and policies refer to both full-time and part-time students; such policies apply regardless of number of credits earned in a given semester. Part-time is defined as enrolled in fewer than 12 credit hours in a given fall or spring semester as recorded immediately following the add/drop deadline.
- An incomplete grade will not preclude the College from calculating a students' academic standing. Instead, the INC grade will neither increase nor decrease the students' grade point average. If a student feels that an existing Incomplete grade may have an impact on their overall academic standing then they are encouraged to address it at the time of appeal.
- Academic standing is established only during fall and spring semesters. A student's J-mester, May-mester and summer session earned credits/quality points are factored into the overall G.P.A. following only the next fall or spring semester.
- Students approved for a leave of absence will not have the semester(s) on hiatus counted toward the calculation of semesters on probation.

ACADEMIC ADVISING AND ACADEMIC SUPPORT SERVICES

Professionals within Student Development offer students and faculty comprehensive programs tailored to the needs of students at distinct developmental stages, including programs for first-year and transfer students and students who have not declared a major, as well as comprehensive orientation programs, early intervention programs, coordination of academic standing and assistance to students on academic probation, tutoring, service learning, international student advising and support to students enrolled in the HEOP and AHANA programs, and C-STEP.

The purpose of this support is to help Le Moyne students succeed in college by connecting them with faculty and programs that enable them to create meaningful relationships within and outside the classroom while enhancing their intellectual, social and personal development.

Advisement Program

Advising for first-year students begins prior to the first day of classes. Once students choose Le Moyne College, they receive information on the Heading to the Heights orientation website, and access to their New Student Portal. This prepares them to participate in Summer Welcome, meet with an academic advisor in their major, review their fall course schedule and take placement tests. This pre-college program is designed to acquaint students and their parents primarily with the academic aspects of the first-year experience.

During their fall semester, first-year students are assigned to an academic advisor in their major or, if undeclared, with a professional advisor in the Student Success Center. The student's first-year advisor should be considered a primary mentor and is critical in helping the new student develop the skills necessary to make valuable decisions throughout their academic career and in their major. Frequent interaction between first-year advisor and student is essential, especially in the first semester. After the first year, students either continue to meet with their advisor or are assigned an upper-division faculty advisor who typically counsels sophomores, juniors, seniors and transfer students. Transfer students who are undeclared are advised by the Student Success Coordinator.

The Advisor/Advisee Relationship

The advisor and student share equal responsibility to develop a meaningful relationship. Advisors can provide guidance and mentoring to help students make informed choices. However, students are ultimately responsible for meeting the requirements of their degree programs.

Students should meet on an individual basis with their advisor several times each semester. Both individual and group meetings are quite important, especially prior to registration, as academic advisors must review the students' proposed schedules and approve them for student registration on Phinfo. These meetings also allow for discussions about the student's major/minor, possible internships, research, career planning and graduate school opportunities. Some departments schedule group advisement to inform students about activities and new classes in the major while others offer special programming and events regarding major-related topics, e.g., departmental research opportunities and internships.

Student Outreach

While it is integral to Le Moyne's mission for faculty and administrators to encourage students to seek their assistance, sometimes students are at a crossroads and need additional, immediate or more intensive support for their well-being and academic success. Students can also experience unexpected extenuating circumstances during their time at Le Moyne that will affect their academic performance and their lives while at college. For that reason, Le Moyne has established the Early Alert System Exchange (EASE), a confidential early intervention and referral process that provides avenues for professors, administrators, and staff with the means to identify students in need of additional support. These students may exhibit risk factors that may limit their ability to be successful at Le Moyne. Such factors may include academic challenges, major life events causing overwhelming stress, unmet emotional or medical needs, or lack of a support structure. In addition, EASE also identifies students with multiple academic deficiencies at mid-term and those who are not following required academic probation guidelines. The EASE process is led by the Assistant Dean for Student Development and the Assistant Dean for Student Success.

Student Success Center

Le Moyne students are encouraged to take advantage of the free services coordinated by the Student Success Center. The office provides tutoring, study groups, individual consultations and workshops for all students seeking to improve their academic performance and achieve excellence. Individual and group support is also available to students interested in strengthening their learning strategies (e.g., time management, note-taking and test prep strategies). Students are welcome to set up individual appointments with a member of the student success staff to learn more.

Free one-to-one tutoring and study groups are available during the academic year. Students can make tutoring appointments online by visiting lemoyne.mywconline.com (<http://lemoyne.mywconline.com>). For more information about the Student Success Center, contact (315) 445-4597.

Disability Support Services

The Office of Disability Support Services, located on the first floor of the Noreen Reale Falcone Library, arranges academic accommodations for eligible students with disabilities under Section 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act of 1990. Students with disabilities are encouraged to contact disability support services as soon as possible to ensure that academic accommodations are made available in a timely manner. Written documentation attesting to the existence of the disabling condition and signed by a licensed professional is required before academic accommodations are implemented.

Contact Information

Voice: (315) 445-4118
TDD: (315) 445-4104
Fax: (315) 445-6014
Email: dss@lemoyne.edu
www.lemoyne.edu/dss (<http://www.lemoyne.edu/dss/>)

HEOP Program

Arthur O. Eve Higher Education Opportunity Program

The Arthur O. Eve Higher Education Opportunity Program (HEOP) at Le Moyne College provides broad and varied educational experiences to capable students who, due to academic under preparation and limited

financial resources, might not have the opportunity to attend college but show potential for academic success. This learning community provides comprehensive academic support services, counseling, advising, and financial aid that enable students to successfully complete their program of study at Le Moyne College. Students are required to attend the Pre First-Year Summer Academic Institute to prepare them for the academic rigor of college-level study. HEOP is available to New York State residents and receives generous support from the New York State Education Department. For more information, visit our website at www.lemoyne.edu/HEOP-AHANA (<http://www.lemoyne.edu/HEOP-AHANA/>).

AHANA Program

The Le Moyne College African-American, Hispanic, Asian, Native American Program (AHANA) provides broad and varied education experiences to capable students who may need additional academic support and community on the Le Moyne College Campus. Students who meet the academic criteria and identify as one or more of the listed underrepresented groups may be eligible for admission to the program. This learning community provides additional academic support services, counseling, advising, and is available to both New York state and non-New York state residents. Students are required to attend the Pre First-Year Summer Academic Institute to prepare them for the academic rigor of college-level study. Financial assistance for AHANA students is based on need as reflected on the student's FAFSA application and Le Moyne College's financial aid form. For more information, visit our website at www.lemoyne.edu/HEOP-AHANA (<http://www.lemoyne.edu/HEOP-AHANA/>).

CSTEP

The Le Moyne College Collegiate Science and Technology Entry Program (CSTEP) was developed to prepare individuals for professional licensure, or to enter careers in the fields of science, technology, engineering and math (STEM). It provides historically underrepresented and economically challenged students with services and activities to prepare them for entry into CSTEP-targeted professions. Enrichment activities are designed to increase recruitment, retention and placement of eligible students in severe shortage areas. They include individual advisement, a workshop series, mentorship, research opportunities, tutoring, a summer program, career and graduate school preparation, conference, community service and service-learning activities. More information about the CSTEP program can be found online at www.lemoyne.edu/cstep (<http://www.lemoyne.edu/cstep/>).

APLUS

The Achievement Program for Le Moyne Undergraduate Scholars (APLUS) is a new program developed to prepare students for careers or advanced studies in the areas of the social sciences and humanities. It provides historically underrepresented and first generation students with opportunities to achieve their personal, academic, and professional goals. Students participate in individual advising meetings and also group seminars where they are connected to professional opportunities (such as internships, volunteering, or shadowing), academic resources (such as tutoring, graduate school preparations, and graduate school entrance exam studying), and personal skill growth through community service and mentoring. For more information or if you are interested in applying, please contact the Associate Director, Lauren Van Derzee at vanderle@lemoyne.edu.

International Student Advisement

Le Moyne College provides its F-1 international students support regarding their immigration status. All undergraduate and graduate students who are studying at Le Moyne under the direction of an F-1 student visa receive assistance on issues such as maintaining status, employment, practical training, etc. They are also given the opportunity to attend an international orientation upon their entrance into Le Moyne. This session provides students with valuable information regarding immigration regulations.

Due to immigration guidelines, all F-1 students must complete their immigration registration paperwork during the first two weeks of each semester. In addition, they are required to maintain full-time enrollment and meet all other immigration regulations. For more information, contact the Office of Inclusive Excellence and Global Education at (315) 445-4189.

Pre-Health Advisement

The chair of the Health Professions Advisory Committee (HPAC) serves as the principal advisor for those students and alumni interested in the health professions. Information sessions for prospective applicants to professional schools begin as early as the fall semester of the freshman year. For qualified applicants to most doctoral degree programs in the health professions, members of the committee evaluate undergraduate credentials and formulate official college letters of recommendation. Contact Dr. Beth Pritts, chair of the Health Professions Advisory Committee, for more information at (315) 445-4431 or prittsbb@lemoyne.edu.

Health Professions Advisory Committee

The Health Professions Advisory Committee functions to advise and assist students interested in pursuing careers in the health professions. The committee chair serves as an information source and as the principal advisor for those interested in professional fields such as dentistry, medicine, optometry, podiatry, veterinary medicine and other allied health care fields. The chair furnishes general information regarding professional school admission requirements and entrance examinations and also conducts informational meetings for prospective applicants to professional schools. For qualified applicants to most doctoral degree programs in the health professions, the members of the committee evaluate undergraduate credentials and formulate official college letters of recommendation. The chair also assists students enrolled in the different affiliation programs between Le Moyne College and health professions schools (refer to Graduate Program Pathways (p. 106) for descriptions of these programs). Further information regarding the committee and its functions may be obtained from the chair of the committee, Dr. Beth Pritts at (315) 445-4431 or prittsbb@lemoyne.edu.

Pre-Law Advisement

The director of pre-law education serves as the principal advisor for those students and alumni interested in careers in the legal profession. Information sessions for prospective applicants to professional schools begin as early as summer orientation and registration when the director of pre-law education meets with entering students and their parents. The current pre-law advisor is James Snyder, Esq.

PromiseNY: Le Moyne's Graduation Promise

Le Moyne College provides numerous academic programs and academic support services that enable a student to maintain steady academic progress and complete an undergraduate degree within four years. (A

four year graduation plan takes into account eight traditional semesters and includes both May and August graduations in the student's final year.) Still, graduating within four years requires a student to carefully plan a course schedule, successfully complete each enrolled course, and heed the advice of their academic advisor. In order to achieve timely degree completion, all students must meet the following obligations:

- **Transition to College:** New students shall participate in the College's orientation program and meet at least three times with their academic advisor during their first semester. This is an important time for students to learn about degree requirements, utilize College resources, and plan for future semesters. Prior to the start of their first semester, all students must provide the Admission and/or Registrar's Office with official transcripts which demonstrate completion of high school course requirements and any college coursework that was completed before matriculation into Le Moyne.
- **Transfer of Credit:** Students who take Advanced Placement, International Baccalaureate, or college courses while in high school must submit such documentation to the Le Moyne College Registrar at least one month before classes begin. Other transfer credit must be pre-approved and a student's last 30 credit hours must be completed at Le Moyne. Students must submit all transcripts from other institutions to the Le Moyne College Registrar's Office immediately after completion of transfer courses.
- **Course Placement:** Students who are required to take foundational courses (WRT 100, CHM 101, MTH 007, etc.) may not be able to complete their degree within four years. In these cases, summer, J-mester, and/or Maymester courses may be required, yet students are responsible for all associated tuition charges.
- **Major Declaration:** Students must declare all majors and minors before the beginning of their sophomore year in order to allow enough time to complete their degree in four years. Some majors and dual degree programs require students to complete more than 120 credit hours and will not be included in the graduation promise because they require additional coursework. At the time of declaration, students will be advised of the anticipated time for completion based on the students' previous coursework and course sequencing. Students who are unsure of which major to select should participate in College activities to explore new or additional programs. Students who change majors, add an additional major, or declare a minor during the four years must re-evaluate their graduation plan. These changes may impact the student's ability to graduate in four years.
- **Academic Advising:** All students are assigned an academic advisor within their major and must meet with that individual (or a member of the department acting on the advisor's behalf) at least three times in their first semester and at least once in each subsequent semester. Students have multiple resources to identify which courses they should select to ensure academic progress, such as their academic advisor and Phinfo. Students are responsible for seeking advice from their academic advisor when they do not understand a college requirement, have questions regarding course sequencing, or are considering altering their course schedule (adding, dropping, or withdrawing from a course). All required forms must be submitted to the Registrar's Office by the stated deadline. Any such changes may have an impact on the student's ability to complete their degree within four years.
- **Timely Registration:** Students shall register online at their assigned registration time each semester after having been cleared by their academic advisor(s). To do so, students must follow their program evaluation in Phinfo to track progression towards their degree. Students are responsible for contacting their academic advisor, department chair of their major, or a representative of the Registrar's Office with any registration questions. In order to register on time, student accounts must be clear of registration holds and all financial obligations must be met. Students must register for the courses that have been approved by their academic advisor. Students must discuss any variance from their proposed course schedule with their academic advisor.
- **Course Completion:** Students should follow all faculty/instructor guidelines for individual courses and seek help if they are not performing well. Students who fail or withdraw from a course are responsible for retaking the course and/or earning appropriate credits. In these cases, summer, J-mester, and/or Maymester courses may be required of such students. However, students are responsible for all associated tuition charges.
- **Academic Progress:** Students must earn at least 30 credits per year and maintain good academic standing. In addition, some majors require students to maintain a higher standard (i.e., 3.0 GPA in the major or 2.8 GPA for certain courses, etc.). Students must earn appropriate grades to meet these criteria and, if needed, students should utilize College resources such as faculty office hours, Student Success Center, Qualitative Reasoning Center, and the Writing Center to strive for success in their courses. Students who are unable to earn the necessary grades will require additional time in order to complete their degree. In addition, students who do not maintain continuous enrollment for eight semesters will require additional time to complete the degree. Students must maintain good academic standing each semester and achieve at least a 2.0 grade point average overall, in their major(s), and in their minor(s) in order to graduate.
- **Student Compliance:** All students should read their College email daily as they are responsible for correspondence sent to this address. Le Moyne strongly encourages students to limit their work hours to a reasonable number of hours to ensure proper sleep and adequate study time. In addition, students must maintain good disciplinary and nonacademic standing.

If you have any questions regarding Le Moyne's graduation promise as part of PromiseNY, please contact the Registrar's Office or Assistant Dean for Student Success.

AWARDS, HONORS & HONORS PROGRAMS

Degree Honors

The bachelor's degree, awarded at commencement to students who have successfully completed a prescribed program of study toward the degree, will be qualified "with honor" in the case of students who have achieved a high average by the end of their course of study at the College as follows:

- Students who have achieved a cumulative G.P.A. of 3.500 - 3.699 in all subjects by the end of their course of study will be awarded the bachelor's degree cum laude.
- Students who have achieved a cumulative G.P.A. of 3.700 - 3.849 in all subjects by the end of their course of study will be awarded the bachelor's degree magna cum laude.
- Students who have achieved a cumulative G.P.A. of 3.850 - 4.000 in all subjects by the end of their course of study will be awarded the bachelor's degree summa cum laude.
- Students who have completed all of the Integral Honors Program requirements and earned an Integral Honors degree will have achieved the highest academic distinction conferred by the College.

Transfer students who have completed 60 credit hours at Le Moyne are eligible for degree honors at graduation.

Awarding of honors is determined by a student's cumulative G.P.A. as of the date of graduation and is unaffected by courses taken subsequently to the granting of a degree.

Dean's List

In order to qualify for the Dean's List in a given semester, a student must be registered as a full-time student for the semester and have achieved a semester G.P.A. of 3.500 or higher. In addition, the student must have received grade points for at least nine credit hours of coursework during the semester. No grade points are associated with the grade of HP, P or W. Students who are approved through Disability Support Services for a reduced course load in accordance with the Americans with Disabilities Act (ADA) must receive grade points from at least six credit hours of coursework.

Part-time matriculated students will qualify for the Dean's List in a given academic year if they have achieved an academic G.P.A. over the fall and spring semesters of 3.500 or higher. In addition, the student must have received grade points for at least 12 credit hours of coursework during the academic year with no more than one grade of W. No grade points are associated with the grade of HP, P or W.

Undergraduate Medals and Awards

The following medals and awards are presented to seniors at the Honors Convocation:

College-Wide

- The Rev. James C. Finlay, S.J. Award for Integral Honors

College of Arts and Sciences

- The American Institute of Chemists Student Medal Award
- The Physics Program Medal for Outstanding Performance in Physics
- The Brine Medal in Chemistry or Biochemistry

- The Marie Arnold Chapin Medal in Biological Sciences
- The Department of Foreign Languages Medal
- The Father John P. Lahey Award in Writing
- The Leon J. Maltby Medal in Mathematics
- The Bishop Thomas J. Costello D.D., Medal
- The Department of Psychology Medal
- The Pierre Teilhard de Chardin, S.J. (1881-1955) Award in Anthropology
- The Gregory J. Derschug, S. J., Medal in Sociology
- The Edward Eagan Medal in the Arts
- The Eugene J. Fitzmartin Medal in English
- The Bishop Foery Medal in Religious Studies
- The Thomas R. Hogan Award in Communications
- The Leonard P. Markert Medal in Philosophy
- The Gene McCarthy Award in Theatre Studies
- The Suzanne V. McClusky Medal in History
- The Medal for Scholarly Regional and Urban Applied Research
- The H. Paul Nelligan Medal in Pure Science
- The Pi Gamma Mu Scholarship Award in the Social Sciences
- The Lee-Anne Scaccia Cruz Award for Excellence in Gender and Women's Studies
- The Elizabeth Schlaerth Memorial Medal in History
- The Wall Street Journal Student Achievement Award in Economics
- The Judith L. Zunic Award for Outstanding Adult Learner
- The Patrick J. Keane Medal
- The Rachel L. Carson Medal for the Environment
- The Medal for Excellence in Computer Science
- The Medal for Excellence in Criminology
- The David L. Smith Award for Excellence in Field Studies

Madden School of Business

- The Frank and Margaret Ahrens Memorial Medal in General Business
- The Francis and Martha McElroy Medal in Business
- The New York State Society of Certified Public Accountants Award
- The Maurice W. Powers Medal in Accounting
- The W. S. Smith Memorial Award of the Institute of Internal Auditors
- The Syracuse Chapter of the New York Society of Certified Public Accountants Joseph J. Eron Certificate of Merit
- The Michael D. Madden Award in Management
- The Salwa Ammar Award in Leadership
- The Syracuse Chapter of the New York Society of Certified Public Accountants Joseph J. Eron Career Preparation Award
- The John D. '60 and Barbara G. Collins Accounting Scholarship Fund at Le Moyne College

Purcell School of Professional Studies

- The M. Janice Nelson Award in Nursing
- The Robert and Doris Bacorn Award for Service and Leadership in Nursing
- The Catherine and William Lynn Education Medal

The following medals and awards are presented to students at the Deans' Scholars Convocation:

College-Wide

- The Highest Achievement in the Undeclared Category

College of Arts and Sciences

- The Myrtle G. Derschug Medal in First-Year Social Sciences
- The T. Frank Dolan Jr. Medal in First-Year Liberal Arts
- The Susan E. Henninger Medal in First-Year Pure Science
- The Marnie A. McCluskey Medal in Sophomore Social Sciences
- The Msgr. Charles F. McEvoy Medal in Sophomore Liberal Arts
- The Family of T. Frank Dolan Jr. Medal in Sophomore Pure Science
- The William R. Lukacs Medal in Mathematics
- The Msgr. David J. Dooling Medal in Junior Social Sciences
- The James E. Kenney Alumni Award in Junior Economics
- The Bishop David F. Cunningham Medal in Junior Liberal Arts
- The William F. J. Ryan Medal in Junior Pure Science
- The John W. Bush Memorial Award for the Best Paper in Historiography
- The Pasquale J. Paglia Prize for Excellence in Romance Languages

Madden School of Business

- The James M. Phillips Medal in First-Year Accounting
- The Edward M. O'Donnell Medal in First-Year Business Administration
- The Anne J. Endries Medal in Sophomore Accounting
- The Vincent J. Smith Medal in Sophomore Business Administration
- The Robert J. Dermody Medal in Junior Accounting
- The Richard W. Egan Memorial Medal in Junior Business Administration

Purcell School of Professional Studies

- The Elizabeth Hogan Medal in First-Year Nursing
- The M. Janice Nelson Medal in Sophomore Nursing
- The Cecilia F. Mulvey Medal in Junior Nursing

The following medals and awards are presented to students at Student Development's Ignite Awards Leadership Banquet

- The Excellence in Programming Award
- The Excellence in Inclusive Programming Award
- The Student Club of the Year Award
- The Student Club President of the Year Award
- The Moderator of the Year Award
- The Outstanding International Student Award
- The Student Support Worker of the Year Award
- The RAs of the Year Award
- The Wellness Center for Health & Counseling 2019 Service Award
- The Ian Prescott Award
- The Matteo Ricci, S.J. Award for Achievement in Diversity Award
- The Rev. Gregg C. LeStrange Award for Excellence in Liturgy/Music Award
- The Dr. John Blazi Award for Service Award
- The Andy Brady, S.J., Award for Leadership in Ministry Award
- The Rev. John P. Bucki, S.J. A.M.D.G. Award
- The Student Unsung Hero Award

- The Cura Personalis Award in Student Development Award
- The Magis Awards in Leadership Award

Departmental Honors

Some departments offer an honors degree to superior students who complete specified requirements in the major field. Department chairs invite qualified applicants to pursue this degree at an appropriate time in their academic program. Departmental honors thus provides a challenge for the student who excels in the major or for the transfer student who enters Le Moyne too late to participate in the Integral Honors Program.

College-wide standards apply, but each department supplements these with its own regulations. The interested student should seek information from his or her department chair.

Honor Societies

Le Moyne has a chapter of Alpha Sigma Nu, the Jesuit national honor society; Alpha Kappa Delta, the national honor society for sociologists; Beta Beta Beta, the national honor society in biology; Delta Mu Delta, the national honor society in business and accounting; Kappa Delta Pi, the national honor society in education; Omicron Delta Epsilon, the international honor society in economics; Phi Alpha Theta, the national honor society in history; Phi Sigma Tau, the national honor society in philosophy; Pi Gamma Mu, the national social science honor society; Pi Mu Epsilon, the national honor society in mathematics; Pi Sigma Alpha, the national honor society in political science; Psi Chi, the national honor society in psychology; Tau Sigma, the national transfer student honor society; Theta Alpha Kappa, the national honor society for religious studies and theology; and Pi Epsilon, the national honor society for environmental sciences.

GRADUATE INFORMATION

- Graduate Admission and Registration (p. 51)
- Graduate Tuition and Fees (p. 52)
- Financial Aid (p. 54)
- Graduate Policies and Procedures (p. 56)
- Awards and Honors (p. 60)

Student Services

Le Moyne offers a variety of services to meet the academic and personal needs of students. The following information provides an overview of the facilities, programs, services and activities designed to assist students.

Student Identification Cards

Student picture IDs are issued from the Office of Campus Life and Leadership located on the second level of the Campus Center. Individuals must show proper identification, such as a driver's license/permit or state-issued ID, before being issued a college ID card. A current Le Moyne student ID will allow students to check out books from the library and use the facilities at the recreation center. Students are encouraged to submit their own ID pictures using the College's on-line submission process. For information on how to submit a picture and obtain a student ID, please email campuslife@lemoyne.edu.

Heights Alert Emergency Notification System

The Heights Alert system is designed to enhance and improve communication so that all members of the Le Moyne College community can stay informed in the event of an emergency on campus. This voluntary system allows students and staff to be notified by a text message to their cell phone, in the event of an emergency or campus closure. The message can also be sent to a designated email address. The system will be used only for emergency contact purposes. Subscribers to Heights Alert will pay no fees for the service, other than any regular fees associated with text messaging.

Dining Services

There are several dining locations on campus. These include LaCasse Dining Center, The Dolphin Den, Kaffe Nuvo, and the C-Store. For information about specific meal plans, menus, special events and hours of operation, visit the dining services website www.lemoynedining.sodexomyway.com

The Dolphin Den, located on the ground floor of Grewen Hall, features a convenience store, an upscale coffee shop and a full-service snack bar all in a large, comfortable space. A pub, located in the Campus Center, is a social space for the members of the Le Moyne Community who are 21 years of age or older.

Medical Insurance

Le Moyne College will not be continuing the Health Insurance program for our students through Le Moyne College beginning Fall 2020. If you are a NYS resident and are in need of coverage for the upcoming year, we would recommend that you visit the NYS Health Insurance Marketplace which can be accessed at <https://nystateofhealth.ny.gov/>.

Counseling Services

Graduate studies can be quite stressful and challenging at times. Stress and distress can arise about academics, relationships, family, and mental

health issues. It is a sign of strength and courage to recognize when you may need to seek help, and it is also the first step in solving any difficulty.

To support students in building resiliency skills and to find healthy and productive ways to address their problems and concerns, students are encouraged to make an appointment at the counseling office of the Wellness Center for Health and Counseling, located in Seton Hall.

The Wellness Center offers the following:

- A holistic assessment and recommendations for treatment, which may include referrals to therapy and support groups off-campus
- Individual short-term, solution-focused therapy. Initial appointments can be scheduled by calling 315-445-4195.
- Services related to substance abuse issues and concerns including assessments, support and educational groups, and short-term counseling.
- A variety of wellness programming for the campus community.
- Resources to borrow, which include brochures, books, and DVDs, and information on various social media (Facebook, Twitter.)
- Consultation with student, families, faculty, and staff.
- The Wellness Center is a **confidential support option**. If you have experienced sexual violence, relationship violence, or stalking you have the right to make a report to campus security, local law enforcement, and/or state police, or, you can choose not to report to these agencies at all. There is no time limit if you choose to file a report with our Title IX Coordinator on campus. Licensed mental health counselors and medical providers are a confidential source of support and information. If you would like to confidentially discuss an incident you can do so by calling the Wellness Center at 315-445-4195 during regular hours of operation. If you wish to discuss an incident of sexual assault or other relationship violence after hours, please contact the sexual assault hotline at 315-251-SAFE.

For more specific information consult www.lemoyne.edu/wellness (<http://www.lemoyne.edu/wellness/>), call (315) 445-4195, or visit our offices on the 2nd floor of Seton Hall.

Office Hours: 8:30 a.m. - 4:30 p.m. during the academic year. In an emergency after hours, call Campus Security at (315) 445-4444.

Health Services

Health Services are available to all graduate students, full time and part time. The health services professionals practice an integrated model of care delivered through the Wellness Center for Health and Counseling. Health Services is located on the first floor of Seton Hall. All services are covered without fees or co-pays, except for PPDs and lab fees. It is staffed with a Physician Assistant and registered nurses from 8:30 a.m. to 4:00 p.m., Monday through Friday during the academic year. Appointments are preferred; walk-ins can be seen based on appointment availability. Referrals to specialists off-campus can be arranged.

Health Services offers medical care that includes emergency first-aid, treatment for injuries and illness, physical exams, medical and nursing consultations, health related counseling, laboratory tests, and other diagnostic procedures ordered by the College's Physician Assistant. Off-campus services such as allergy injections, dental, x-rays and physical therapy can be arranged through the Health Services office.

Additional health and wellness information can be found on the Wellness Center for Health and Counseling website at www.lemoyne.edu/wellness (<http://www.lemoyne.edu/wellness/>).

To schedule an appointment, please contact the office between 8:30 - 4:30, Monday through Friday, at (315) 445-4440.

Campus Ministry

Campus Ministry, based in the Panasci Family Chapel, is committed to serving the entire college community from the perspective of faith and values. An attitude of respect is encouraged among all religious traditions represented by the Le Moyne population. The pastoral staff offers many opportunities in spiritual growth, community building and service in the name of justice. Through a variety of retreats students, faculty, administrators and staff are encouraged to come to a deeper awareness of the truth in their hearts and to be inspired by the call to be leaders as they serve the needs of others. The Ignatian Family Teach-In is just one of the social justice programs sponsored by Campus Ministry that embodies the hallmark of a Le Moyne College education. Participants deepen their relationship with God through consciousness-raising activities that challenge them to integrate their personal values with the call to justice.

The Service Immersion Trips provide national and international service and learning opportunities for the students, faculty, administrators and staff of the College. The goal of the program is for participants to deepen their relationship with God through sharing in the lives of those living in poverty through short-term service projects and living experiences.

Campus Ministry provides opportunities for students and staff to take part in the liturgical ministries of lector, Eucharistic minister and choir member. All are welcome to come to the Campus Ministry center where they can relax and find a trusted place where both religious and spiritual concerns can be addressed.

Career Advising and Development

The mission of the Office of Career Advising and Development is to empower students for success during and after their time at Le Moyne by offering comprehensive programs, services, and support to enhance students' professional development

Career Advising and Development offers many programs and resources to support its mission and the career development needs of its students. Individual consultation, coaching and counseling are available with experienced career development professionals. The office invites alumni and employers to campus for networking opportunities with students. Recruitment programs featuring employers from a variety of industries are conducted on campus, through joint consortium programs in the region and online. Alumni of the College are also eligible for career services throughout their careers.

The Career Advising & Development Office is located in Reilly Hall 342. The usual business hours are Monday to Friday, 8:30 am to 4:30 pm. Call us at 315-445-4185 or email us at careers@lemoyne.edu. You can find more information on our website: www.lemoyne.edu/Experience/Student-Services/Career-Services (<http://www.lemoyne.edu/Experience/Student-Services/Career-Services/>).

Noreen Falcone Library

The Library is located at the southwest corner of the campus. The library's collections, policies and services are discussed in a series of guides. Copies of these guides are available in the reference area, as well as on the library's home page.

The library's home page contains links to over 135 databases providing access to research materials in all disciplines, in print and electronic formats. A database of over 100 million records, contributed by over 15,000 libraries, is used for the acquisition, cataloging and interlibrary

borrowing of materials. When the library does not own the materials a student needs, this system is used to borrow those materials from another library in the region, New York state or elsewhere.

Please check the College website during fall, spring and summer semesters for library hours. Summer and holiday hours are announced via (315) 445-4153. Additional information can be found at the library Web page: www.lemoyne.edu/library (<http://www.lemoyne.edu/library/>).

Bookstore

Located in the Le Moyne Plaza adjacent to campus, the bookstore is operated by Barnes & Noble College Booksellers and is open year-round. The campus store offers a wide selection of College-imprinted merchandise, school supplies, novelties, personal items, miscellaneous items and books of general interest. The staff will accept orders for any book not in stock.

Textbook purchases are made at the beginning of each semester. Specific rules for all textbook returns are posted at the checkout registers. Used books are bought back every day, with a special buyback at the end of the fall and spring semesters during finals week.

They will accept payment for merchandise in the forms of cash, personal checks with proper ID or any major credit card. Books and merchandise can also be ordered online at www.lemoyne.bncollege.com (<http://www.lemoyne.bncollege.com>).

W. Carroll Coyne Center for the Performing Arts

The W. Carroll Coyne Center for the Performing Arts is home to the College theatre, music and dance programs as well as the main venue for professional artists performing on campus. The building features a 200-seat flexible performance space with state-of-the-art lighting and sound systems, a studio theatre, music practice rooms, a dance studio, classrooms, production shops and administrative offices.

Computer Resources

A wide variety of computing resources are available on campus linked through a campus-wide fiber optic network. These resources are managed by the Office of Information Technology, which is located in the Noreen Falcone Library. In order to keep users informed and assist them in their use of these resources, a number of printed and online publications are produced throughout the year, including a newsletter and technical bulletins. Workshops and seminars are also held on various products and services.

A service desk, staffed by professional and student consultants, is available for further assistance. It is located in the library. All new graduate students should contact the service desk for IT access information. The service desk can be reached at 315.445.4579, servicedesk@lemoyne.edu or on line at www.lemoyne.edu/Experience/Student-Services/Technology (<http://www.lemoyne.edu/Experience/Student-Services/Technology/>).

All students, faculty and staff are provided accounts, without cost, on appropriate systems that provide access to general applications, such as word processing, spreadsheets, databases and programming languages, as well as email and specific applications related to their fields. Access to the library catalog and the Internet are also provided.

A number of computer facilities, located throughout the academic buildings, are available for instruction and general student use. Each room is equipped with either Windows or Macintosh computers attached

to networked laser printers. A variety of general applications as well as specialized instructional applications are supported on these systems.

GRADUATE ADMISSION AND REGISTRATION

Executive Leadership

- Ed.D., Executive Leadership

Each graduate program's admission process is guided by its own criteria and application requirements. Please visit the individual programs for this information and the graduate admission website (<https://www.lemoyne.edu/Admission/Graduate-and-Professional-Admission/>) to complete the graduate application. If there are questions regarding requirements or the admission process, please contact the Office of Graduate Admission at (315) 445-5444 or at GradAdmission@lemoyne.edu.

Registration for new graduate students is completed through the individual program departments. Please see the program information contact information to schedule an advising and registration appointment.

Graduate Programs

Le Moyne College offers a number of graduate-level programs. Curriculum and program requirements can be found in the following divisions:

The College of Arts and Sciences

- MS: Arts Administration
- Advanced Certificate in Arts Administration

Madden School of Business

- MBA
- 150-hour MBA (for Le Moyne undergraduate accounting majors)
- MS: Information Systems
- 150-hour MSIS (for Le Moyne undergraduate accounting majors)
- MS: Taxation
- 150-hour MTax (for Le Moyne undergraduate accounting majors)
- Graduate Certificate: Health Information Systems
- Graduate Certificate: Enterprise Systems

Purcell School of Professional Studies

Department of Education

- MST, MSED: Dual Childhood (grades 1-6), Dual Adolescent (grades 7-12), Literacy (birth-grade 6 & grades 5-12), TESOL (Pre K-grade 12)
- MS, CAS: School Building Leadership, School District Leadership, School District Building Leadership
- MSED: Professional Education (non-certification)

Department of Nursing

- MS and Post-Master's Certificate:
 - Nurse Administration
 - Nurse Education
 - Family Nurse Practitioner

Department of Occupational Therapy

- MS: Occupational Therapy

Department of Physician Assistant Studies

- MS: Physician Assistant Studies

GRADUATE TUITION AND FEES

2021-2022 Graduate Tuition and Fees

Program	Tuition *(per credit hour unless otherwise noted)	Comprehensive Fee (per semester)
Physician Assistant Program	\$15,650 *(Per Semester)	\$155
Occupational Therapy	\$15,475 *(Per Semester)	\$405
EdD in Executive Leadership	\$1,529	\$75
Masters Business Administration	\$899	\$75
Masters Education	\$779	\$75
Masters Nursing	\$779	\$75
Masters Arts Administration	\$779	\$75
Masters Family Nurse Practitioner	\$975	\$75
Masters Information Systems	\$899	\$75
Audit Fee - Graduate Programs	\$225	\$75
Parking Permit	\$50 per year	N/A

Incidental Fees

Fee Description	Charge
Late payment	\$100
Late registration	\$25
Returned check	\$20
Application fee	\$35
Transcript of record	\$10

**All college fees are subject to change.

Payment of Tuition and Fees

Semester charges are due the Friday prior to the first day of class. Bills can be viewed electronically through ph (<https://phinfo.lemoyne.edu/Student/Account/Login/?ReturnUrl=%2fStudent%2finfo.lemoyne.edu>) (<https://phinfo.lemoyne.edu/Student/Account/Login/?ReturnUrl=%2fStudent%2f>) in advance of the due date. Payments for tuition and fees via electronic check may be processed on line 24/7 through ph (<https://phinfo.lemoyne.edu/Student/Account/Login/?ReturnUrl=%2fStudent%2finfo.lemoyne.edu/Student/Account/Login/?ReturnUrl=%2fStudent%2f>). Cash and money order are accepted in the bursar office during normal business hours. Credit cards are not accepted.

Students who do not pay their tuition on or before the due date are not permitted to attend class until they pay their tuition. Students who fail to pay their tuition prior to the start of classes for the semester will be responsible for payment of a \$100 late fee and interest of 1% per month or an annual rate of twelve percent (12%) on the outstanding balance. Students who register on or after the first day of classes will be subject to a late registration fee as outlined under the Incidental Fees. This includes

students who add courses to achieve full-time status after the start of the semester. Students whose checks are returned by the bank will also be subject to a late-payment fee as well as a returned check fee. Accounts date from the opening day of the semester. Students permitted to enter later than this date are charged for the full semester.

Financial Responsibility

Students are responsible for any college debt they have incurred. Students who fail to make payment by the scheduled due date and fail to make acceptable payment arrangements, will have financial restrictions place on their account. The financial restriction will be released after the outstanding debt and penalties have been paid in full. The restriction:

- will withhold the student's transcripts and/or diploma
- will prohibit the student from registering for any subsequent periods
- may cancel the student's registration immediately, without credit for course in which the student is enrolled

If a college debt must be referred to outside sources for collection, the student will be responsible for paying any third-party collection agency fees (approximately 33% of amount outstanding) plus any attorney fees associated. Delinquent accounts will be reported to one or more of the national credit bureaus.

Payment Plan

The College offers the Cashnet Tuition Payment Plan, a monthly payment plan for people who want an alternative to paying at the beginning of each semester. Brochures are available in the bursar and financial aid offices or at *Cashnet Payment Portal*.

Refund Policies

The date of withdrawal is the date you notify, in writing, the appropriate graduate program office. Tuition adjustment calculations are done automatically based on the date of withdrawal and the start date of the semester. Fees are not refundable.

If you withdraw from the College or from a 15-week course during the spring and fall term, you may be entitled to a tuition credit of a percentage of your tuition.

- 100 percent tuition credit during the first week
- 80 percent tuition credit during the second week
- 60 percent tuition credit during the third week
- 40 percent tuition credit during the fourth week
- 20 percent tuition credit during the fifth week
- No tuition refund credit after the fifth week

In cases where a government agency requires a different refund policy, the College will adhere to the government agency policy. For courses shorter than 15 weeks, please contact the Bursar's office for the refund policy.

Room and Board

Students residing in residence halls who are dismissed from the college during the semester are not entitled to any refund. Students in good standing who voluntarily withdraw from the College during the semester should contact the Office of Residence Life regarding room and board policies.

Financial Aid and Return of Title IV Funds (R2T4) Refund Policy

Prior to withdrawing or taking a leave of absence, a student should contact the Financial Aid Office to review how this change may impact their financial aid for the current and future semesters. Withdrawing prior to completing a semester may impact a student's ability to meet the College's Standards of Academic Progress policy, which can be reviewed here. If a student withdraws or takes a leave of absence during a semester, their institutional charges may be reduced based on their official date of withdrawal/leave of absence. To view the College's tuition refund policies, see Refund Policy above. Le Moyne grants and scholarships are reduced in accordance with our tuition refund policy.

Students who have received Title federal funds (such as a Pell Grant, SEOG Grant, TEACH Grant, Federal Direct Subsidized/Unsubsidized Loans, Federal PLUS loans) and withdraw or take a leave of absence prior to completing 60% of a semester are subject to the Return of Title IV Funds policy. The Financial Aid Office will use the federal formula to calculate the amount of aid a student has "earned" based on their official date of withdrawal/leave of absence. Any "unearned" federal funds will be refunded back to the federal programs in the following order:

1. Unsubsidized Direct Loan
2. Subsidized Direct Loan
3. Perkins Loan
4. Direct Graduate PLUS Loan
5. Direct Parent PLUS Loan
6. Pell Grant
7. SEOG Grant
8. TEACH Grant

Once all required adjustments are made to the student's account, the student will be notified by email of any resulting balance owed to the College.

FINANCIAL AID

Graduate Student Satisfactory Academic Progress Policy (SAP)

Federal and Le Moyne Aid

Any graduate student receiving Le Moyne federal financial aid must maintain Satisfactory Academic Progress. In addition to the College's satisfactory academic standards outlined in the Academic Information section of the catalog, students receiving Title IV aid must also meet additional SAP requirements as required by federal regulations (CFR 668.34). Federal Standards of Academic Progress (SAP) require that a student must complete their degree within a specified **maximum time frame**, demonstrate they are progressing through their program at a pace that will ensure graduation within the maximum time frame (**quantitative**) and achieve a GPA that is consistent with meeting graduation requirements (**qualitative**). SAP reviews will be completed at the end of each semester once final grades have been posted.

Financial Assistance Programs Affected

- All Federal Aid Programs
- All Institutional Awards
- All Private/Alternative Loans

Qualitative Requirements – GPA

Graduate students (full or part-time) are required to maintain a cumulative GPA of 3.0.

Quantitative Requirements - PACE

Graduate students must complete a minimum percentage of cumulative attempted credits or pace. Pace is calculated by dividing the cumulative credit hours *earned* by the cumulative credit hours *attempted*.

Students must maintain a minimum pace of 67.00%. For example, a student who completes 4 of their 9 credits attempted is at a 44.44% pace.

Maximum Time Frame

Students are eligible for Federal Student Aid Program funding and Le Moyne aid for a maximum time-frame lasting 150% of the normal time needed to complete their program of study. For example, a graduate student may receive federal aid for up to 36 months toward completion of a 24 month degree.

Financial Aid Warning

If a student fails to meet SAP upon review at the end of a payment period, the student will be sent a warning letter from the Financial Aid Office. The warning letter will inform the student of required minimum quantitative and qualitative standards (Cum. GPA 3.0 and completing 67.00% of all attempted credits). During the warning semester students will be eligible for all funding sources including federal and institutional aid programs. A student who receives a warning letter is strongly advised to work closely with the Student Success Center in order to address their academic progress difficulties. Students who fail to meet the GPA and/or Pace requirements set forth in this policy after the warning period will lose their federal and Le Moyne aid unless they successfully appeal and are placed on financial aid probation.

Title IV SAP Appeal Procedures

Once a student has been notified of their ineligibility for Title IV aid, they must submit a written appeal to the SAP Appeals Committee prior to the first day of classes of the next term.

1. A student may appeal on the basis of: an injury or illness, the death of a relative, or other special circumstances. The appeal must explain why he or she failed to make satisfactory progress and what has changed in their situation that will allow them to make satisfactory progress at the next evaluation.
1. In some instances, depending on the situation, the student may be required to meet with an advisor in the Academic Success Center and/or a designee, to develop a plan that will be followed to return the student to good academic standing.
2. At the completion of the review of the appeal, the student will be notified in writing of the results, and what needs to be accomplished in the coming term(s) to return to good academic standing (and to maintain Title IV aid eligibility).

Financial Aid Probation

If a student's appeal is approved, the student will be placed on financial aid probation, with or without an academic plan and will be eligible for federal and Le Moyne aid for one semester. If the student is meeting the universally applicable SAP requirements, or the requirements of their academic plan, the student will be eligible to receive Title IV aid for future semesters, provided the student continues to meet those requirements upon review of each subsequent term.

Incompletes, Withdrawals, and Repeated Course Work

Incompletes, withdrawals and repetitions will be reviewed on a case by case basis, as they relate to qualitative and quantitative guidelines. (Student's may only retake a passed course once, and be able to count the course toward enrollment status and eligibility for Title IV aid for the semester it is being retaken.)

Requests for waiver of these guidelines, based on extenuating circumstances, should be done in writing to the SAP Appeals Committee.

NEW SAP/Conflicting Information

If the Financial Aid Office receives new information affecting SAP such as late notification of a grade change for previous for a previous fall or spring term, the SAP for that student will be rechecked using the new information.

Regaining Eligibility

A student who has lost eligibility for federal financial aid due to not meeting SAP requirements will regain federal financial aid eligibility by taking action that brings the student into compliance with institutional and federal satisfactory academic standards.

Title IV Fund Refund Policy

Prior to withdrawing or taking a leave of absence, a student should contact the Financial Aid Office to review how this change may impact their financial aid for the current and future semesters.

If a student withdraws or takes a leave of absence during a semester, their institutional charges may be reduced based on their official date of withdrawal/leave of absence. To view the College's tuition refund policy, please visit the Graduate Tuition and Fees page of this catalog.

Students who have received Title federal funds (such as a Pell Grant, SEOG Grant, TEACH Grant, Federal Direct Subsidized/Unsubsidized Loans, Federal PLUS loans) and withdraw or take a leave of absence prior to completing 60% of a semester are subject to the Return of Title IV Funds policy. The Financial Aid Office will use the federal formula to calculate the amount of aid a student has “earned” based on their official date of withdrawal/leave of absence. Any “unearned” federal funds will be refunded back to the federal programs in the following order:

1. Unsubsidized Direct Loan
2. Subsidized Direct Loan
3. Perkins Loan
4. Direct Graduate PLUS Loan
5. Direct Parent PLUS Loan
6. Pell Grant
7. SEOG Grant
8. TEACH Grant

Once all required adjustments are made to the student’s account, the student will be notified by email of any resulting balance owed to the College.

GRADUATE POLICIES AND PROCEDURES

Student Classifications

Matriculated

Graduate students who have fulfilled all of the entrance requirements and have been accepted as candidates for a master’s degree.

Conditionally Admitted

Students who do not meet the criteria for full matriculation, but appear to have the capability to successfully complete graduate courses. An applicant is admitted with academic conditions that must be met within the time-frame outlined in the decision letter and status will be reviewed again and a final admission decision will be made.

Non-Matriculated

Non-matriculated students are students who qualify for graduate work and are completing graduate courses but who are not formally admitted into a graduate program. Examples include enrollment for personal enrichment, professional certification or development, or transferring of credits to another institution. Students are generally limited to six credit hours as a non-matriculated student.

Full-time Graduate Student

The course load for full-time graduate students is at least nine credit hours.

Auditing

A student who wishes to audit a course may do so with the approval of the course instructor. Students who audit courses generally are exempt from assignments and examinations; however, requirements vary depending on the course. Under no circumstances may a student make a course change from credit to audit after the last day to add a course as listed in the Academic Calendar section. A grade of AUD is recorded on the transcript if minimum attendance standards are met. No credit is given.

- Graduate students not wanting to earn graduate credit may audit classes and must declare audit status at the time of registration and pay the audit rate.
- Participation requirements are specific to each program.

Advisement

Matriculated students may be assigned an Advisor in the department to which they belong for academic guidance.

Registration

- See the Academic Calendar (p. 6) for registration dates.
- Immunizations:
Le Moyne College requires all students to provide proof of immunization, regardless of the number of credit hours. Our Immunization Report and the Meningitis Response Form must be submitted and approved before the end of the third week of class.

This policy is based on New York State Public Health Law Sections 2165 and 2167 that requires proof of specific immunizations for all students who are enrolled in 6 credit hours or more.

If the required Immunization Report and the Meningitis Response Form are not received by Le Moyne College by the 3rd week of class, the student will incur a \$100 non-refundable fine that will be placed on their account. Transfer students may submit a copy of physical/immunizations records from their previous college. Health profession programs have additional mandatory requirements.

New York State law requires the college to de-register all students taking 6 or more credit hours who are not in compliance with the regulation. Students will be unable to attend classes until the report is received and approved.

Lastly, students who are not in compliance will also have a “hold” placed on their account, and they will be unable to register for the upcoming semester. The original Immunization Report and the Meningitis Response Form may be returned in person or by mail. No faxed copies will be accepted. Both forms can also be found at: www.lemoyne.edu/wellness (<http://www.lemoyne.edu/wellness/>).

Attendance

Students are required to follow the attendance policy stated in the course syllabus.

Graduate Incomplete Grading Policy

Students who find themselves unable to complete work for a course by the end of the regular term may request a grade of Incomplete (I) via their instructor using the Request for Incomplete Grade Form (<https://portal.lemoyne.edu/studentresources/academic/registrar/Forms/Request%20for%20Incomplete%20Grade%20Form.pdf>). This form is an agreement between the student and the instructor that specifies the reasons, conditions, and time limit for removing an incomplete (I) grade from the student record. Instructors may require documentation to support a request for an incomplete grade. In addition, instructors may refuse the request. If the precipitating reason for the request is of a personal nature, the student and/or instructor may seek the assistance of their Academic Dean in providing appropriate documentation. Faculty are responsible for monitoring any assigned incomplete (I) grades and may change/update the grade at any point prior to the official deadline.

Deadlines for resolving incomplete grades are as follows:

Fall semester & J-mester	Last day of classes for the following Spring semester
Spring, May-mester & all Summer sessions	Last day of classes for the following Fall semester

For more information on Le Moyne’s grading policies, please visit the Grading Policies page (p. 14).

GPA

Students are considered in good standing if their grade point average is 3.0 or higher on a 4.0 scale, based on specific academic criteria that are found under the individual program sections of this catalog.

Retaking Courses

Graduate students are only permitted to repeat one course in an attempt to receive credits toward a graduate certificate or degree.

Leave of Absence, Withdrawal, and Probation

- If a graduate student chooses to withdraw or take a leave of absence from the program, she/he must inform her/his graduate program. A student may apply for a leave of absence in accordance with the policy of his or her department. Students who are not enrolled for more than 3 consecutive semesters will be withdrawn from the College. *Students enrolled in programs within the Purcell School of Graduate Studies should review policy below.*
- Matriculated students who have earned a grade point average of less than 3.0 are placed on academic probation. Specific probation and termination policies can be found in the policies of the specific graduate departments.
- Graduate students are to exhibit at all times the behaviors that represent the practice standards and norms of ethical conduct. A student will be placed on behavioral probation for a minimum of one semester for actions inconsistent with the technical and professional standards of each discipline.

Purcell Graduate Leave of Absence/Withdrawal Policy

For personal or medical reasons, a student may voluntarily discontinue enrollment at the College by requesting either a leave of absence (temporary) or a withdrawal from the College (permanent).

A leave of absence is a temporary hiatus from the College with the intent to return after a specified period of time. Students requesting a leave of absence must indicate when they plan to return to their studies. The total time away from the College cannot exceed two consecutive semesters. A student may not take matriculated coursework at another institution while on a leave of absence. To be eligible to return from a leave of absence, the student must demonstrate readiness to return by satisfying all requirements for return. If a student does not return from a leave of absence at the scheduled time, the student will be administratively withdrawn from the College and must apply for readmission.

A withdrawal is a permanent separation from the College. A student who has withdrawn must apply for readmission to the College if the student wishes to re-enroll. Students withdrawing from a graduate Purcell program will be contacted by a Purcell administrator for a brief exit interview.

A student may request a personal or medical leave of absence or a withdrawal by completing the Purcell Graduate Leave of Absence/Withdrawal Form available through their department. A student requesting a leave of absence or withdrawal will meet with a designated program official to discuss the academic and financial implications of their decision. The designated program official will also discuss the requirements for return if a student is taking a leave of absence.

If the request for a personal or medical leave of absence/withdrawal is approved for a future semester, then the student may remain enrolled in and receive grades for the current semester. The student will have a hold on future registration until the conditions of return have been met. If the request for a personal or medical leave of absence/withdrawal is approved for a current semester, then depending on the academic

calendar and personal circumstance the program director or chair can determine the most appropriate resolution for the student's enrollment. The student may not take a leave of absence and remain enrolled in the students coursework if the leave of absence is for the current semester.

The College may require a student to take a medical leave of absence or withdrawal if, in the judgment of the College, the student poses an imminent threat to the lives, safety or well-being of themselves or other members of the college community (including preceptor and internship settings).

Except in unusual circumstances where safety is of immediate concern, the College will make a decision to involuntarily withdraw a student only after providing the student with advance notice and an opportunity to meet with Purcell officials.

In cases of both medical leaves of absence and withdrawals, the tuition refund policies specified in the Le Moyne College Catalog apply

Termination

Any student may be terminated for behavior and/or grade issues inconsistent with the technical and professional standards of each graduate program. See specific departmental guidelines.

Readmission

Students who withdraw or are academically disqualified from their graduate program must follow the college and departmental policy and procedures if they wish to re-enter their program.

Academic Standards

Students are expected to observe at all times the highest ethical standards as members of the academic community. Any form of dishonesty makes a student liable to severe sanctions, including expulsion from the College.

Faculty and staff members should report all instances of academic dishonesty to the appropriate dean who has jurisdiction over the class in question. The dean will review the evidence in consultation with the faculty or staff member to determine the appropriate sanction, which may include failure in a course. The dean may impose further sanctions, such as suspension or expulsion from the College. It is expected that the dean will make a determination within a reasonable period of time following notification of an instance of academic dishonesty. The dean will send the student a findings letter after a determination is made. Additionally, that dean should notify and consult with the dean of the student's home school or college. The second instance of academic dishonesty may result in suspension and may be cause for expulsion. Students should note particularly the following seven specific policies:

- Examination Regulations—Students are expected to be familiar with the regulations that are posted before each semester examination period. Violation of any of these regulations makes a student liable to penalties ranging from failure in the examination to expulsion from the College.
- Cheating—A student who cheats on any examination is liable for penalties ranging from failure in the examination to expulsion from the College.
- Plagiarism—Plagiarism is the attempt to fulfill an academic requirement by using the ideas, words or work of another person and representing them as one's own. Academic conventions dictate that students and scholars must acknowledge the source of phrases

and ideas that are not their own. Many ideas and phrases are so familiar that they have become the common property of all; these obviously require no documentation. However, the use of ideas or phrases that are clearly original with another author requires that the appropriate credit be given to the original author. Plagiarism undermines that basic relationship of trust that must exist between teacher and student and among students for the educational process to work. For this reason, penalties for plagiarism range from failure on the assignment to expulsion from the College. For details regarding plagiarism, consult the library's guide to plagiarism or the library services desk.

- **Assisting Cheating or Plagiarism**—A student who knowingly assists another student in cheating or plagiarism is subject to the same rules and penalties.
- **Derived Work**—Derived work is work containing material (even if modified) that has been previously submitted to fulfill the requirements of another course. Submission of derived work is allowed only with prior approval by the instructor, who may impose additional requirements (e.g., full disclosure in a citation). The penalties for unapproved submission of derived work range from failure on the assignment to expulsion from the College.
- **Class recording policy**—Students must obtain prior written permission from the instructor before making any audio/video recordings of a class. Unless this permission explicitly states otherwise, such recordings may not be shared with or distributed to others, and must be deleted or erased at the end of the semester. The penalties for unauthorized recording, sharing, distribution or retention may range up to expulsion from the College. Any student with a disability who requires class recordings as an accommodation must be approved by the disability support services staff and must notify faculty by presenting his or her instructor a notification form to be signed.
- **Student Conduct**—Students are expected to conduct themselves in a manner that is respectful to all members of the Le Moyne community, at all times. In particular, actions or behaviors that harass, disrupt or otherwise prevent orderly conduct of a course (in the classroom or during related activities) are unacceptable. A faculty member may consult with the appropriate department chair and/or dean regarding this behavior. Students engaging in such behavior may be subject to disciplinary action, including removal from the class, cancellation of the student's registration in the class, and other penalties, up to expulsion from the College.

A student who wishes to exercise the right of appeal in these matters may request the Provost to convene a review board. This request must be in writing and submitted to the Provost's office within 5 business days of the date of the findings letter. An appeal must be based on questions of improper procedure, new evidence uncovered after the date of the findings letter, the student disputing the facts of the case, or excessively harsh sanction. A review board consists of three faculty members and one nonvoting faculty member who serves as chair. These members are appointed by the president of the Faculty Senate. At the student's request, two nonvoting student members may be appointed by the president of the Student Senate in consultation with the chair of the Academic Affairs Committee of that body.

The student has the option of appearing before the review board to answer questions and make a summary statement. Alternatively, the student may submit a written statement to the review board. The review board may recommend one of the following:

1. uphold the finding of responsibility and the sanction as originally imposed;
2. uphold the finding of responsibility but reduce the sanction; or
3. overturn the finding of responsibility. It is expected that the board will meet to review the appeal and make its recommendation within a reasonable period of time following receipt of the appeal. The review board forwards its recommendation to the Provost who makes the final decision regarding the appeal. The Provost's decision is final and is not subject to further review.

Grievance Policy

For cases in which a student feels he or she has been given an unjustifiably low grade, the following grievance procedure for grades has been established:

1. Within 30 days following the date of issuance of the grade (the date on which grades are due at the registrar's office or, in the case of incomplete, the date on which the "I" is removed), the student shall inform the professor of his or her dissatisfaction and arrange a meeting to discuss the grade in question. At this meeting, the professor will provide the student with his or her final examination paper if it is relevant to the question.
2. If the grade decision is not satisfactorily resolved at this meeting, the student may seek the intervention of the professor's department chair. The chair shall discuss the grievance with both the student and the professor (either individually or together) and shall make a recommendation to the student and the professor as to the disposition of the grade. If the department chair is the professor, the senior member of the department other than the course instructor shall hear the appeal.
3. If the problem has not been resolved in steps one or two above, the student may appeal to the appropriate dean. In this case, the student and the professor shall submit in writing their positions on the matter. The appropriate dean may also request a written recommendation from the department chair. (These documents are not intended to preclude meetings between the academic dean and the student, the professor and/or the department chair.) The appropriate dean shall then forward a written recommendation to the student, the professor, and the department chair. Within 15 days, the professor shall give written notice to the student of the final disposition of the grade with copies to the appropriate dean and the department chair.
4. The student may appeal the decision of step three (above) to the academic vice president.

Formal Academic Grievances Against Professors, Classes, or Programs

Formal academic complaints about a class or professor should be taken directly to the professor concerned first. If the issue is not resolved, a written complaint should be filed with the appropriate department chair or director. This written version should identify the complainant, specifically detail the perceived problem, the date of the meeting with the Professor and be accompanied by any relevant supporting documentation or data. It should also include the proposed response or remedy.

- The department chair or director shall discuss the grievance with both the student and the professor (either individually or together) and shall make a recommendation to the student and the professor as to a resolution. If the department chair or director is the professor,

the senior member of the department other than the course instructor shall hear the appeal.

- If the problem has not been resolved in steps one or two above, the student may appeal to the appropriate dean. In this case, the student and the professor shall submit in writing their positions on the matter. The appropriate dean may also request a written recommendation from the department chair or director. (These documents are not intended to preclude meetings between the academic dean and the student, the professor, and/or the department chair or director.)
- The appropriate dean shall then forward a written recommendation to the student, the professor, and the department chair.
- The student may appeal the dean's decision to the academic vice president within 15 days.
- Formal academic complaints about a program should be filed with the appropriate department chair or director and then proceed to resolution through the same steps outlined above for complaints about professors or courses.

Add/Drop/Withdrawal from Courses

The official dates to add, drop or withdraw from courses without academic penalty are posted on the academic calendar (p. 6) found on the Registrar's website and in the College catalog.

Adding and Dropping Courses

Graduate students have one week from the start of Spring or Fall semester to add a course or before the second class of J-mester, May-mester or Summer courses. Any exceptions to this policy require the permission of the appropriate graduate department chair and the instructor. Some cohort-based graduate programs may be limited on their ability to add or drop courses.

Students who are dropping or withdrawing from a course should be aware of the schedule set for the refund of tuition. Students must inform their program director when dropping any course to determine the impact on progression.

Degrees

All degrees awarded by Le Moyne College are authorized by the New York State Board of Regents and are registered with the New York State Education Department. See the list of degree programs on the Academic Information (p. 11) page.

Graduation Requirements

In order to receive a graduate degree, the student must:

- Have a 3.0 overall G.P.A.
- Complete all degree requirements for a graduate degree within 60 days of the graduation date for the given term or a student's graduation date will be moved to the next available graduation date for degree conferral.
 - Le Moyne College's Graduation Dates
 - May - the date of the College's Commencement Ceremony
 - August - August 31
 - December - December 31
- Complete any additional requirements per individual graduate degree programs.

GRADUATE AWARDS AND HONORS

Graduate Awards and Honors

The following awards are presented to graduate students at the Honors Convocation:

College of Arts and Sciences

- The Arts Administration Community Impact Award

Madden School of Business

- The New York State Society of Certified Public Accountants Graduate Academic Achievement Award
- The Syracuse Chapter of the New York Society of Certified Public Accountants Joseph J. Eron Graduate Career Preparation Award

Purcell School of Professional Studies

- The Cecilia F. Mulvey Award
- The Patricia L. Donnelly Leadership Award
- The Department of Occupational Therapy Exceptional Student Award
- The Rev. John P. Bucki, S.J. Award in Physician Assistant Medical Humanities

UNDERGRADUATE CORE CURRICULUM

Le Moyne's liberal arts Core Curriculum is central to the College's **Catholic and Jesuit mission**. The curriculum is anchored in the Catholic intellectual tradition - which includes courses in the humanities, sciences, and the arts - and coupled with the rigor associated with Jesuit education. The Core helps students acquire both foundational knowledge and intellectual skills essential to a lifetime of inquiry, including critical thinking, quantitative and ethical reasoning, and communication skills.

Upon graduation, students of all majors will be able to actively engage complex problems and work collaboratively to help create meaningful change in the world.

Transfer Students

Like all matriculated students, transfer students must complete Le Moyne's Core Curriculum. The intent of the Core Curriculum for transfer students is to ensure the integrity of a Le Moyne education while acknowledging the importance of flexibility when transferring credits from other institutions. At least one-third of Core credits must be completed at Le Moyne. Transfer students should speak with the Admissions Office or the Registrar's Office (<http://www.lemoyne.edu/College-Administration/Office-of-the-Registrar/Transferring-Credit/>) for assistance.

Distinctive Elements in Le Moyne's Core Curriculum

While Le Moyne's Core curriculum contains elements that are common to all liberal arts curricula, it has distinctive components.

A Thorough Writing Sequence

Le Moyne's Core curriculum ensures that students have ample opportunity to develop their writing skills. In the first year, students develop and practice the critical writing skills that are necessary for success in college. They refine and enhance their skills in two other Writing Instructional courses. Students use these skills throughout their academic curriculum.

Transcending Academic Disciplines

Given the complex issues facing the world today, interdisciplinary learning is essential and Le Moyne's Core curriculum provides it. In the first two years, students establish solid foundational knowledge in a broad range of disciplines. In the junior year, students build on that foundation through interdisciplinary courses that explore how different ways of knowing contribute to intellectual inquiry. The senior year capstone course challenges students to consider contemporary issues from various disciplinary perspectives.

The Core's Bookends

Le Moyne's Core curriculum includes both a first-year Transitions seminar and a senior Transformations capstone. These two courses bookend the Le Moyne experience by introducing students to college in an exciting, intellectually provocative seminar (COR 100 Transitions) and then preparing them for life after college in a capstone course that synthesizes their learning (COR 400 Transformations).

Learning Goals of the Core Curriculum

1. DISCIPLINARY INQUIRY

Students will explore meaningful questions, both practical and transcendent, through study in the arts, humanities, natural sciences, and social sciences.

Example courses: 100-level courses in many departments.

2. INTERDISCIPLINARY INQUIRY

Students will synthesize knowledge drawn from different fields of study (the arts, humanities, natural sciences, and social sciences).

Example courses: Courses with *IDS-designation* (check ANT, BSC, CHS, CJS, CSC, ECO, HST, MKT, MUS, PSC, PSY, SOC, THR) ENG 310 Literature and Culture, COR 400 Senior Studies: Transformations.

3. CRITICAL THINKING

Students will comprehensively evaluate issues, ideas, events, and works before making informed conclusions. All Core courses.

4. WRITTEN COMMUNICATION

Students will produce coherent arguments in writing.

Example courses: WRT 101 Critical Writing, PHL 110 Introduction to Philosophy ENG 210 Major Authors, many other Core courses.

5. ORAL COMMUNICATION

Students will prepare and present in a variety of contexts, as speaker and listener. Many Core courses.

6. QUANTITATIVE REASONING

Students will analyze numerical or graphical information.

Example courses are offered by the following departments: BIO (p. 135), CHM (p. 161), PHY (p. 266), MTH (p. 236)

7. INFORMATION LITERACY

Using technologies integral to information access, students will identify, locate, evaluate, and responsibly use information that is relevant to a given problem.

Example courses: HST 110 World Civilization I, HST 111 World Civilization II, many other Core courses

8. ETHICAL INTEGRITY

Students will make reasoned ethical decisions by assessing their own moral values, recognizing different ethical perspectives, and thoughtfully analyzing ethical and moral dilemmas.

Example courses: PHL 210 Moral Philosophy, many other Core courses.

9. CREATING A MORE JUST SOCIETY

Students will investigate complex challenges involving cultural and social diversity, and the individual's role in developing just solutions.

Example courses: Many Core courses, including *DIV-designated courses* (check ANT, BUS, CHS, ECO, EDU, HST, NSG, PSC, PSY, REL, SOC, THE).

Typical Core Course Sequence

Core courses are generally taken each semester, along with major courses and major support courses. Each student designs the best schedule in consultation with his/her academic advisor.

Get in Touch

Contact the Core Program

Dr. William Day, Director

(315) 445-4514

daywb@lemoyne.edu (beatytl@lemoyne.edu)

Core Course Categories

Note that many Core courses can also fulfill requirements in a particular major. There is sufficient time in the typical four year curriculum to complete the Core and Major. Please contact the relevant department chairs for more information.

COR 100 Transitions

First Year students take COR 100 First Year Seminars: Transitions, which serves as a transition to the intellectual inquiry exemplified by a college liberal arts environment. All sections have three components: (a) Shared content on the Jesuit educational mission, and strategies for successfully transitioning to college; (b) Unique focus on a transdisciplinary topic chosen by the instructor; and (c) A common text read by all students, chosen for its rich themes and intellectual complexity.

*WRT 101 Critical Writing

A writing course designed to help students achieve basic competency in composition. Taken in the first semester. (**Writing Instructional*)

HST 110 World Civilization I + HST 111 World Civilization II

A two semester sequence in the history of world civilizations, designed to give students a broad foundation for their continuing development as global citizens. Typically taken in the 1st year.

*PHL 110 Introduction to Philosophy + PHL 210 Moral Philosophy

A course in introductory philosophy and a course in moral reasoning, designed to provide students with a framework for interpreting and creating solutions for complex issues. Typically started in the 1st year and completed in the 2nd year. (**Writing Instructional*)

*ENG 210 Major Authors + ENG 310 Literature and Culture

Two literature courses, one focused on a particular author and the other focused on interdisciplinary issues addressed through literature. Typically started in the 2nd year and completed in the 3rd year. (**Writing Instructional*)

THE + REL

Theology courses (THE) are centered in Catholic Christianity and may compare those tenets to the theology of a different tradition. Religious studies (REL) courses allows students to investigate how a particular religious tradition encounters social issues. THE is typically taken in the 1st or 2nd year; REL in the 3rd or 4th year.

Natural Science + Social Science + Math

Disciplinary courses designed to give students basic competencies in the relevant problem-solving strategies and skills. Students take one course in each category, anytime. Natural sciences: BIO, CHM, PHY. Social Sciences: ANT, CJS, ECO, EDU, PSC, PSY, SOC. Math: MTH

Encountering Another Culture (EAC)

Two courses in which students either (a) study a world language or (b) analyze the contrasting cultural components intrinsic to a particular academic topic (*Cultural Elective, CE*). Taken anytime.

Interdisciplinary Studies (IDS)

A course whose topic is studied through two distinctly different lenses. The first lens is either natural science or social science or math; the second lens is different from the first. Typically taken in the 3rd or 4th year.

Visual and Performing Arts (VPA)

A course which enables students to analyze the role of creative arts in society. Many but not all courses have a performance component. Taken anytime.

Diversity (DIV)

A course that explores the differences in power and/or differences in access to services or opportunities, within and between groups of people. Taken anytime.

COR 400 Senior Studies: Transformations

A transdisciplinary course in which students of all majors collectively engage issues faced by both individuals and society. This course contributes to the students' transformation into empowered participants in the development of just solutions for the ongoing challenges in our world. Taken in the 4th year.

INTERDISCIPLINARY PROGRAMS

The Interdisciplinary Programs at Le Moyne College offer students the opportunity to earn a Bachelor of Science degree with a major in biochemistry, a Bachelor of Science degree in Professional Studies with a concentration in health related studies or business, and a Bachelor of Arts degree with a major in peace and global studies. In addition, students may choose to minor in arts administration, peace and global studies, urban and regional studies and gender and women's studies. Also through the Interdisciplinary Programs, students may take library courses and courses at the Syracuse Consortium for Culture and Medicine and participate in the College's Integral Honors Program.

B.S. IN PROFESSIONAL STUDIES

Bachelor of Science in Professional Studies with a Concentration in Human Services, Health-Related Studies, or Business

Le Moyne's Bachelor of Science in Professional Studies provides busy working adults with the opportunity to complete a degree on a part-time basis while honing valuable skills in critical thinking, quantitative literacy, and caseload or project management. Students choose to concentrate in human services, health-related studies, or business. Each concentration requires completion of the college's core curriculum (46-49 credit hours), professional studies core (12 credit hours), applicable concentration requirements (21-27 credit hours) and electives (30-39 credit hours.)

Note: The concentration in health-related studies is designed for students with an interest in a number of health professions, and is appropriate preparation for entry into various positions and degree programs, but is *not* intended as a "pre-med" (pre-MD, DO, or PA) program.

Concentration in Human Services

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions ²	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110 & HST 111	World Civilization I and World Civilization II	6
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ³		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		3
Professional Studies Core		
MTH 110 or STA 201	Introduction to Statistics I (no Computer Lab) Statistics I	3
CTS 101 or MIS 201	Introduction to Digital Technologies Introduction to Management Info Systems	3
ENG 338 or ENG 403	Writing in the Real World Writing and Speaking in the Professions	3
SOC 341	Hum Svc Caseload Mgt-Theory & Svc Learn	3

or MGT 460 Managing Systems Projects

Human Services		
PSY 101	Introductory Psychology	3
SOC 101	Introductory Sociology	3
SOC 201	Research Methods	3
SOC 240	Social Welfare	3
PSY 330	Cross-Cultural Psychology	3
Select two of the following, at least one at the 300/400-level: PSY 220, PSY 280, PSY 302, PSY 365, PSY 380, PSY 445, PSY 449, SOC 231, SOC 323		6
Select two of the following, at least one at the 300/400 level: ANT 102, CJS 305, PGS 334, PSC 205, PSC 332, PSY 370, SOC 326, SOC 335, SOC 402		6
Electives		30
Total Credit Hours		120

- 1 Some Core requirements may be fulfilled by major requirements.
- 2 Transfer credits that do not fulfill other requirements are generally used to fulfill this requirement.
- 3 This requirement is fulfilled by a major requirement.

Concentration in Health-Related Studies

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions ²	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110 & HST 111	World Civilization I and World Civilization II	6
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ³		3
Social Science (p. 61) ³		3
Natural Science (p. 61) ³		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		3
Professional Studies Core		
MTH 110 or STA 201	Introduction to Statistics I (no Computer Lab) Statistics I	3
CTS 101 or MIS 201	Introduction to Digital Technologies Introduction to Management Info Systems	3
ENG 338 or ENG 403	Writing in the Real World Writing and Speaking in the Professions	3
SOC 341	Hum Svc Caseload Mgt-Theory & Svc Learn or MGT 460 Managing Systems Projects	3
Health Related Studies		

BSC 201	Human Anatomy & Physiology I	4
BSC 202	Human Anatomy & Physiology II	4
BSC 205	Basic Microbiology	4
PSY 101	Introductory Psychology	3
CHM 151 & 151L	Chemical Principles I and Chemical Principles I Laboratory	4
PSY 220	Human Life Span Development	3
Two PSY/SOC courses at the 300 level or above		6
Electives		36
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Transfer credits that do not fulfill other requirements are generally used to fulfill this requirement.

³ This requirement is fulfilled by a major requirement.

Concentration in Business

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions ²	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110 & HST 111	World Civilization I and World Civilization II	6
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ³		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		3
Professional Studies Core		
MTH 110 or STA 201	Introduction to Statistics I (no Computer Lab) Statistics I	3
CTS 101 or MIS 201	Introduction to Digital Technologies Introduction to Management Info Systems	3
ENG 338 or ENG 403	Writing in the Real World Writing and Speaking in the Professions	3
SOC 341 or MGT 460	Hum Svc Caseload Mgt-Theory & Svc Learn Managing Systems Projects	3
Business		
ACT 203	Principles of Accounting I for Non Accounting Majors	3
MGT 301	Organizational Behavior	3
MKT 301	Principles of Marketing	3

HRM 301	Human Resource Management	3
ECO 113	Principles of Microeconomics	3
Choose one of the following:		3
ACT 204	Principles of Accounting II for Non-Accounting Majors	
RMI 210	Introduction to Risk Management and Insurance	3
ANL 301	Business Analytics	
FIN 301	Principles of Finance	
LAW 200	Legal Environment of Business	
STA 202	Statistics II	
ECO 114	Principles of Macroeconomics	
Liberal Arts & Science Electives		12
Electives		30
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Transfer credits that do not fulfill other requirements are generally used to fulfill this requirement.

³ This requirement is fulfilled by a major requirement.

BIOCHEMISTRY

Biochemistry has grown to occupy an important and influential position in both of its parent disciplines, chemistry and biology. The biochemistry major offers an interdisciplinary curriculum that is designed to allow students to focus on either the biological or the chemical aspects of the boundary region between these two disciplines. A major in biochemistry can prepare students for advanced studies in biochemistry, biology or chemistry; for advanced studies in the health professions; for employment in the pharmaceutical or biotechnology industries or (with further study) for careers in public health policy or patent or environmental law.

The director of the major is in the Department of Chemistry; however, because of the interdisciplinary nature of the program, curricular oversight is shared with the Department of Biological and Environmental Sciences.

Student Learning Outcomes in Biochemistry

Students who graduate from this program will be able to:

Key concepts

Students who graduate with a Le Moyne degree in biochemistry will have skillfully applied key concepts in biological chemistry and molecular biology to systems at the interface of chemistry and biology.

Laboratory procedures

Students who graduate with a Le Moyne degree in biochemistry will have successfully carried out a broad range of laboratory investigations utilizing specialized equipment relevant to the discipline.

Analyze systems

Students who graduate with a Le Moyne degree in biochemistry will have analyzed chemical or biological systems using appropriate conceptual models.

Scientific method

Students who graduate with a Le Moyne degree in biochemistry will have constructed or critiqued the design of an experiment in biochemistry or molecular biology.

Quantitative reasoning skills

Students who graduate with a Le Moyne degree in biochemistry will have competently applied quantitative reasoning skills to biochemical systems.

Communication and literature

Students who graduate with a Le Moyne degree in biochemistry will have reported scientific and technical information clearly and critically in a style appropriate to the discipline.

- Biochemistry Major (B.S.) (p. 66)

Biochemistry Major (B.S.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61) ²		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61) ³		0
DIV Diversity (p. 61) ⁴		0
Major Requirements		
BIO 191	General Biology I (and lab)	4
BIO 192	General Biology II (and lab)	4
BIO 218	Cell and Molecular Biology (and lab)	4
BIO 418	Advanced Molecular Biology (and lab)	4
CHM 151 & 151L	Chemical Principles I and Chemical Principles I Laboratory	4
CHM 152 & 152L	Chemical Principles II and Chemical Principles II Lab	4
CHM 223 & 223L	Organic Chemistry I and Organic Chemistry 1 Lab	4
CHM 224 & 224L	Organic Chemistry II and Organic Chemistry II Lab	4
CHM 280	Information in Chemistry and Physical Sciences	1
or BIO 380 Information in the Biological Sciences		
CHM 311	Analytical Chemistry	4
CHM 327 & CHM 331	Physical Chemistry I and Physical Chemistry Laboratory	4
CHM 460	Biochemistry I	3
CHM 461	Biochemistry II	3
CHM 462	Biochemistry Laboratory	2
Select two additional courses from among the following:		6-8
BIO 320	Genetics (and lab)	
BIO 321	Developmental Biology (and lab)	
BIO 322	Histology	
BIO 325	Microbiology (and lab)	
BIO 340	Parasitology	
BIO 375	Introduction to Neurobiology (and lab)	

BIO 390	Independent Study in Biology & Environmental Systems	
BIO 409	Virology	
BIO 410	Toxicology	
BIO 412	Immunology	
BIO 415	Pathogenic Microbiology (and lab)	
BIO 427	Bioinformatics (and lab)	
BIO 431	Mammalian Physiology	
BIO 475	Stem Cell Biology	
BIO 480	Seminar: Biology of Cancer	
BIO 481	Seminar: Endocrine Disruptors	
BIO 482	Seminar: Current Issues in Genetics	
BIO 499	Research in Bio & Environmental Systems (minimum 3 credits total)	
CHM 320 & CHM 322	Instrumental Methods of Analysis and Instrumental Analysis Lab	
CHM 328 & CHM 332	Physical Chemistry II and Physical Chemistry II Laboratory	
CHM 436	Advanced Organic Chemistry	
CHM 495	Research in Chemistry (minimum 3 credits total)	
Major Support Requirements		
PHY 105	General Physics Scientists/Engineers I (preferred)	3
	or PHY 101 Non-Calculus General Physics I	
PHY 106	General Physics Scientists/Engineers II (preferred)	3
	or PHY 102 Non-Calculus General Physics II	
PHY 103	General Physics Laboratory	1
PHY 104	General Physics Laboratory	1
MTH 145	Calculus I	4
MTH 146	Calculus II	4
MTH 111	Introduction to Statistics I (with Computer Lab)	4
Electives		
Free Electives		6
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Typical number of credits to fulfill requirement. However, students may also fulfill this requirement with a semester of study abroad or by demonstrating intermediate language proficiency in an examination accepted by the Department of World Languages, Literatures and Cultures.

³ Students may fulfill this requirement by taking any approved 3-credit course in the appreciation or creation of visual, creative or performing arts; by taking any college course with a "VPA" designation, indicating that it includes 1-credit worth of VPA content; or, by taking an approved 1-credit independent study or special topics in performance or appreciation.

⁴ While this is a non-credit-bearing requirement, all students must take one course listed with a "DIV" designation from the list of such courses offered throughout the College.

Course	Title	Credit Hours
Freshman Year		
First Semester		
BIO 191	General Biology I (and lab)	4
CHM 151 & 151L	Chemical Principles I and Chemical Principles I Laboratory	4
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
Credit Hours		17
Second Semester		
BIO 192	General Biology II (and lab)	4
CHM 152 & 152L	Chemical Principles II and Chemical Principles II Lab	4
MTH 111	Introduction to Statistics I (with Computer Lab)	4
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
Credit Hours		18
Sophomore Year		
First Semester		
BIO 218	Cell and Molecular Biology (and lab)	4
CHM 223 & 223L	Organic Chemistry I and Organic Chemistry 1 Lab	4
PHY 105	General Physics Scientists/Engineers I	3
	or PHY 101 or Non-Calculus General Physics I	
PHY 103	General Physics Laboratory	1
MTH 145	Calculus I	4
Credit Hours		16
Second Semester		
CHM 224 & 224L	Organic Chemistry II and Organic Chemistry II Lab	4
CHM 280	Information in Chemistry and Physical Sciences	1
PHY 106	General Physics Scientists/Engineers II	3
	or PHY 102 or Non-Calculus General Physics II	
PHY 104	General Physics Laboratory	1
MTH 146	Calculus II	4
PHL 210	Moral Philosophy	3
Credit Hours		16
Junior Year		
First Semester		
CHM 327 & CHM 331	Physical Chemistry I and Physical Chemistry Laboratory	4
CHM 460	Biochemistry I	3
BIO/CHM Elective		3-4
ENG 210	Major Authors	3
Social Science (p. 61)		3
Credit Hours		16-17
Second Semester		
BIO 418	Advanced Molecular Biology	4
CHM 461	Biochemistry II	3

Religion (p. 61)	3
VPA Visual & Performing Arts (p. 61)	0
DIV Diversity (p. 61)	0
Free Elective	3

Credit Hours	13
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Senior Year**First Semester**

CHM 311	Analytical Chemistry	4
ENG 310	Literature and Culture	3
Theology (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3

Credit Hours	16
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Second Semester

CHM 462	Biochemistry Laboratory	2
BIO/CHM Elective		3-4
COR 400	Senior Studies: Transformations	3
EAC Encountering Another Culture/Language (p. 61)		3
Free Elective		3

Credit Hours	14-15
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Total Credit Hours	126-128
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Note: Courses may be offered in semesters other than indicated.

BIOLOGY & COMPUTER SCIENCE MINOR

This new minor program represents an interdisciplinary and multi-disciplinary approach for combining computer science and biological and environmental sciences. This program is part of the ERIE21 initiative to provide students with a range of options for developing computing technology capabilities.

A student must complete the following five courses.

Code	Title	Credit Hours
CSC 101	Introduction to Digital Technologies	3
CSC 175	Introduction to Algorithms and Program Design	4
CSC 185	Data Structures & Algorithms	4
BIO 192	General Biology II	4
CTS 409	Capstone Project in Biology and Computer Science	1

CERTIFICATE IN WEB PROGRAMMING

Le Moyne College’s undergraduate Web Programming certificate program is designed to prepare students for internship, part-time, and full-time employment opportunities as an entry-level web developer.

Students graduating from the Le Moyne College undergraduate Web Programming certificate program will be able to use a process to create, maintain, and verify digital design artifacts, including web pages.

Program Admission and Application Requirements

Applicants will document their interest in and motivation for pursuing this certificate program. No prior course work at an undergraduate institution is required.

Code	Title	Credit Hours
CTS 101	Introduction to Digital Technologies	3
CTS 120	Introduction to Visual Design	3
CTS 123	Web Design & Development	3
CTS 223	Web Scripting & Services	3
CTS 229	Visual Design Capstone Project	3
Course	Title	Credit Hours
Year I		
Fall		
CTS 101	Introduction to Digital Technologies	3
CTS 120	Introduction to Visual Design	3
Credit Hours		6
J-Mester		
CTS 123	Web Design & Development	3
Credit Hours		3
Spring		
CTS 223	Web Scripting & Services	3
CTS 229	Visual Design Capstone Project	3
Credit Hours		6
Total Credit Hours		15

CHEMISTRY & COMPUTER SCIENCE MINOR

This minor program represents an interdisciplinary and multi-disciplinary approach for combining computer science and chemistry, with an emphasis on physical chemistry and computing. Given the large number of prerequisites leading up to the Physical Chemistry courses required for this minor, this program is targeting students majoring in Chemistry. This program is one of the new ERIE21-funded programs designed to provide students with a range of options for developing computing technology capabilities.

The following five courses are required to complete this minor program.

Code	Title	Credit Hours
CSC 175	Introduction to Algorithms and Program Design	4
CSC 185	Data Structures & Algorithms	4
A third CSC course approved by the director of Computer Science.		3 or 4
CHM 327	Physical Chemistry I	3
CHM 328	Physical Chemistry II	3

CONSORTIUM FOR CULTURE AND MEDICINE

Courses of the Syracuse Consortium for Culture and Medicine (CCM) are open to upper-division undergraduates, graduate students and faculty from Le Moyne College, Syracuse University and Upstate Medical University and to members of the public with a bachelor's degree. Each course is worth three credits and is limited to a maximum number of 5-10 students from each institution. Contact the Le Moyne director at (315) 445-5436 for information about course registration or the need to be put on a waiting list. Most courses meet at the Upstate Medical University, with the class meeting once each week in various three-hour evening time slots.

Course offerings each semester will be selected from those listed in the catalog, and additional courses can be found on the website at www.upstate.edu/ccm (<http://www.upstate.edu/ccm/>) under Course Descriptions. CCM will announce a course schedule and meeting times in advance of each semester.

Consortium for Culture and Medicine (CCM)

CCM 407. Bioethics. 3 Credit Hours.

This course examines the use of ethical theories and standards by health care professionals. Specific issues presented in the context of case studies illuminate different types of ethical dilemmas and alternative ways of handling them morally. Issues include euthanasia, assisted suicide, truth-telling, confidentiality, research ethics, abortion, genetic counseling, surrogate motherhood, the uses of new reproductive technologies, and justice with respect to care.

Cross-listed Courses: CCM 507

CCM 408. Ethics and Health Professions. 3 Credit Hours.

This course examines the origins and use of ethical theories in the clinical, professional, organizational, and political-economic fields of action in health care. Specific issues presented in the context of case studies illuminate the several fields. These issues include assisted suicide, professional codes of ethics, the ethics of "cost-cutting," and justice with respect to care.

Cross-listed Courses: CCM 508

CCM 409. Culture and Mental Disorder. 3 Credit Hours.

This seminar examines mental disorders from bio-medical and social constructionist perspectives; both cross-cultural variation and universals are explored in traditional cultures and modern nations, e.g., Africa, Mexico, Native Americans, Hutterites, Near East. First-person accounts are used to analyze the inner world of mental illness, and bio-cultural models of psychosis is proposed.

Cross-listed Courses: CCM 509, PSY 309

CCM 410. Culture & Reproductive Health & Medicine. 3 Credit Hours.

This course examines diverse ways in which societies throughout the globe view and manage human reproduction and the implications this has for health care and medicine. The emphasis will be primarily, though not exclusively, on women's reproductive health throughout the life cycle, including puberty, sex, pregnancy, family planning, childbirth, infertility, and menopause. The course also explores changes in reproductive health care in the context of globalization and considers how an understanding of the influence of culture on reproductive health is crucial for the development of international public health policy and practice.

Cross-listed Courses: ANT 410, CCM 510

CCM 416. Medical Anthropology in Ecological Perspective. 3 Credit Hours.

This course explores the interaction of biological and cultural factors in disease causation, diagnosis, and treatment in Western and non-Western societies. The introduction of Western medicine to non-Western cultures is examined. After taking this course, students will be able to: describe the interaction of biological & cultural factors in the etiology, manifestation, and outcome of diseases cross-culturally; explain the psychosomatic basis of health & healing in historical, evolutionary, and ecological perspectives. Permission of the instructor required before registration. Fulfills Core requirement(s): DIV.

Cross-listed Courses: CCM 516, ANT 416

CCM 422. Medicine in Literature and Film. 3 Credit Hours.

The relationship between literature and medicine will be explored through the study of novels, short stories, essays and films about medical situations, characters and themes. Thematic areas to be examined include medical ethics in literature; the hospital as environment; relationships between health care workers and patients; illness as metaphor and as reality. Discussion on what writers are communicating and how they do so will emphasize characterization, setting, tone and point of view.

Cross-listed Courses: CCM 522, ENG 455

CCM 429. Dying and Death in American Literature. 3 Credit Hours.

This course will examine American attitudes and responses toward the end of life through the perspective of American fiction, non-fiction, poetry and film. We will explore how Americans deal with progressive incurable disease, terminal illness, death and bereavement. Students will analyze readings as well as keep a journal documenting their responses toward the literature and class discussion.

Cross-listed Courses: CCM 529

CCM 443. Disability and Public Health. 3 Credit Hours.

This course will explore factors influencing the health and well-being of persons with disabilities, including models of disability, disability history, law and services, health disparities, health promotion, ethics, violence, and disaster preparedness. Students will be prepared to better understand one of the largest minority populations in the United States and that people with disability constitute a group that is relevant to every facet of diversity and culture. Given that the experiences of disability touches all aspects of society, this course will prepare students to take disability into account in work related to health and well-being.

Cross-listed Courses: CCM 543

CCM 445. Public Health Ethics. 3 Credit Hours.

This course examines ethical issues in public health. Public health ethics is a new area of scholarship practice that addresses population-level health issues, such as issues of food stamps and health insurance, immunizations, public health research, legal and policy responses to infectious diseases and epidemics, and the role of religious and social values in setting health policy.

Cross-listed Courses: CCM 545

CCM 446. Culture, Communication, and Ethics in Health Care. 3 Credit Hours.

Ethical, empathic, and effective health care involves good communication, reflection, and a social and cultural knowledge and skills. This course provides a model for collaborative and culturally sensitive and skilled communication in health care. Through the study of ethics cases, narratives, and literature, students will analyze disparities and discrimination in health care for people who are deaf and disabled.

Students will explore solutions through deaf studies, disability studies, and narrative approaches to bioethics and health care. Guest speakers will include members of the Deaf community, disability studies scholars and advocates, sign language interpreters, and health care professionals.

Cross-listed Courses: CCM 546

CCM 460. Law and Reproductive Rights. 3 Credit Hours.

The law touches on every aspect of our lives, including the most intimate and personal decisions we make concerning our reproduction, our sexuality, and our very identities. This course will focus on the ways in which lawmakers and judges have tried to create policy dealing with these extremely difficult issues, as well as what those outside of the courts and legislatures have argued about what the government's role should be in this area. Selected topics to be covered include abortion, the regulation of birth and motherhood, LGBT rights and policy, birth control and sex education.

Cross-listed Courses: CCM 560

CCM 507. Bioethics. 3 Credit Hours.

This course examines the use of ethical theories and standards by health care professionals. Specific issues presented in the context of case studies illuminate different types of ethical dilemmas and alternative ways of handling them morally. Issues include euthanasia, assisted suicide, truth-telling, confidentiality, research ethics, abortion, genetic counseling, surrogate motherhood, the uses of new reproductive technologies, and justice with respect to care.

Cross-listed Courses: CCM 407

CCM 508. Ethics and Health Professions. 3 Credit Hours.

This course examines the origins and use of ethical theories in the clinical, professional, organizational, and political-economic fields of action in health care. Specific issues presented in the context of case studies illuminate the several fields. These issues include assisted suicide, professional codes of ethics, the ethics of "cost-cutting," and justice with respect to care.

Cross-listed Courses: CCM 408

CCM 509. Culture and Mental Disorder. 3 Credit Hours.

This seminar examines mental disorders from bio-medical and social constructionist perspectives; both cross-cultural variation and universals are explored in traditional cultures and modern nations, e.g., Africa, Mexico, Native Americans, Hutterites, Near East. First-person accounts are used to analyze the inner world of mental illness, and bio-cultural models of psychosis is proposed.

Cross-listed Courses: CCM 409, PSY 309

CCM 510. Culture & Reproductive Health & Medicine. 3 Credit Hours.

This course examines diverse ways in which societies throughout the globe view and manage human reproduction and the implications this has for health care and medicine. The emphasis will be primarily, though not exclusively, on women's reproductive health throughout the life cycle, including puberty, sex, pregnancy, family planning, childbirth, infertility, and menopause. The course also explores changes in reproductive health care in the context of globalization and considers how an understanding of the influence of culture on reproductive health is crucial for the development of international public health policy and practice.

Cross-listed Courses: CCM 410, ANT 410

CCM 516. Medical Anthropology in Ecological Perspective. 3 Credit Hours.

This course explores the interaction of biological and cultural factors in disease causation, diagnosis, and treatment in Western and non-Western societies. The introduction of Western medicine to non-Western cultures is examined. After taking this course, students will be able to: describe the interaction of biological & cultural factors in the etiology, manifestation, and outcome of diseases cross-culturally; explain the psychosomatic basis of health & healing; describe the methods and efficacy of non-Western healers and view illness and healing in historical, evolutionary, and ecological perspectives. Permission of instructor required before registration. Fulfills Core requirement(s): DIV.

Cross-listed Courses: CCM 416, ANT 416

CCM 522. Medicine in Literature and Film. 3 Credit Hours.

The relationship between literature and medicine will be explored through the study of novels, short stories, essays and films about medical situations, characters and themes. Thematic areas to be examined include medical ethics in literature; the hospital as environment; relationships between health care workers and patients; illness as metaphor and as reality. Discussion on what writers are communicating and how they do so will emphasize characterization, setting, tone and point of view.

Cross-listed Courses: CCM 422, ENG 455

CCM 529. Dying and Death in American Literature. 3 Credit Hours.

This course will examine American attitudes and responses toward the end of life through the perspective of American fiction, non-fiction, poetry and film. We will explore how Americans deal with progressive incurable disease, terminal illness, death and bereavement. Students will analyze readings as well as keep a journal documenting their responses toward the literature and class discussion.

Cross-listed Courses: CCM 429

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This course will explore factors influencing the health and well-being of persons with disabilities, including models of disability, disability history, law and services, health disparities, health promotion, ethics, violence, and disaster preparedness. Students will be prepared to better understand one of the largest minority populations in the United States and that people with disability constitute a group that is relevant to every facet of diversity and culture. Given that the experiences of disability touches all aspects of society, this course will prepare students to take disability into account in work related to health and well-being.

Cross-listed Courses: CCM 443

CCM 545. Public Health Ethics. 3 Credit Hours.

This course examines ethical issues in public health. Public health ethics is a new area of scholarship practice that addresses population-level health issues, such as issues of food stamps and health insurance, immunizations, public health research, legal and policy responses to infectious diseases and epidemics, and the role of religious and social values in setting health policy.

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Students will explore solutions through deaf studies, disability studies, and narrative approaches to bioethics and health care. Guest speakers will include members of the Deaf community, disability studies scholars and advocates, sign language interpreters, and health care professionals.

Cross-listed Courses: CCM 446

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The law touches on every aspect of our lives, including the most intimate and personal decisions we make concerning our reproduction, our sexuality, and our very identities. This course will focus on the ways in which lawmakers and judges have tried to create policy dealing with these extremely difficult issues, as well as what those outside of the courts and legislatures have argued about what the government's role should be in this area. Selected topics to be covered include abortion, the regulation of birth and motherhood, LGBT rights and policy, birth control and sex education.

Cross-listed Courses: CCM 460

DATA TECHNOLOGIES MINOR

This new minor program represents an interdisciplinary and multi-disciplinary approach to the world of data analysis and visualization. From a technology perspective, this program emphasizes data storage, retrieval, and visualization techniques and tools. This program is part of the ERIE21 initiative which provides students with a range of options for developing computing technology capabilities.

A student must complete the following five course requirements.

Code	Title	Credit Hours
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Any one of the following:

MTH 110	Introduction to Statistics I (no Computer Lab)
MTH 111	Introduction to Statistics I (with Computer Lab)
STA 201	Statistics I
MTH 145	Calculus I

Any one of the following:

CHM 331	Physical Chemistry Laboratory
CJS 201	Research Methods
ECO 325	Econometrics
HST 301	Methods of Historical Research
MIS 471	Information Systems Research Methods
MKT 401	Marketing Research
NSG 350	Research in Nursing
PHY 405	Statistical Physics
PSC 202	Methods of Political Science
PSY 201	Intro to Research Methods
SOC 201	Research Methods
MTH 146	Calculus II

Any one of the following (covering computing technologies):

BIO 265	Introduction to Geographic Information Systems
BIO 427	Bioinformatics
CHM 320 & CHM 322	Instrumental Methods of Analysis and Instrumental Analysis Lab
CSC 101	Introduction to Digital Technologies
CTS 101	Introduction to Digital Technologies
ESS 265	Introduction to Geographic Information Systems
MIS 201	Introduction to Management Info Systems
MTH 421	Numerical Methods
PHY 333	Computational Physics

Any one of the following (covering applied data analytics):

CTS 233	Data Technologies
CTS 340	Data Science
CTS 411	Crowds, Social Media & Digital Collaboration
CTS 415	Business Intelligence

Complete the following course:

CTS 496 Data Technologies Capstone Project

ENVIRONMENTAL STUDIES

Program Director: Hilary A. McManus

Environmental issues and problems arise at the interface of complex human and natural systems, and addressing them requires a synergistic combination of scientific, social and cultural knowledge. Addressing these issues and problems also requires scientific, social and cultural skills. The program described below has been designed to provide students with a comprehensive understanding of the mechanisms of society, as well as the scientific foundations of environmental science. The goal of the program is to train students to draw on their knowledge in one area to consider problems in another. Students need to understand the scientific basis of environmental issues just as much as the workings of the government agencies that have the power to address these issues. It is only through acquiring this interdisciplinary knowledge and skill-set that students can be prepared to work for a more ecologically sustainable and socially just world.

The director of the major is the director of environmental science systems; however, because of the interdisciplinary nature of the program, curricular oversight is shared with the Department of Biological Sciences.

Student Learning Outcomes in Environmental Studies

Students who graduate from this program will be able to:

Demonstrate scientific knowledge sufficient to understand causes of environmental problems.

Demonstrate an understanding of the origin of natural resources and the environmental and societal consequences of their exploitation.

Demonstrate skills in technical writing and oral communication of scientific information

- Environmental Studies Major (B.S.) (p. 76)
- Environmental Studies Major (B.A.) (p. 77)
- Environmental Studies Minor (p. 78)

Environmental Studies (ENS)

ENS 260. Sustainability: Ecological Entrepreneurship. 3 Credit Hours. The concept and practice of Sustainable Growth and Development have generated increasing concern over the past four decades. Recently, due to a heightened focus on climate change, ecological damage, rising inequalities of resource distribution, etc., even more attention and effort have been directed toward the concept of Sustainability. This course explores the connections among science, technology, products, and markets in the service of society, (emphasizing that none of these forces works in a vacuum), in order to study the many aspects of sustainability. Students are encouraged to be entrepreneurs of sustainability, acting to find a balance among social, ecological, and economic needs. Course satisfies core natural science requirement. Sophomore standing or permission of the instructor.
 Cross-listed Courses: ESS 260

Environmental Studies Major (B.S.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
ANT 231	Environment, Culture and Power	3
Select one of the following:		8
BIO 191 & BIO 192	General Biology I and General Biology II	
CHM 151 & CHM 152	Chemical Principles I and Chemical Principles II	
BIO 470	Seminar: Environmental Topics	3
ECO 205	Economics of Public Policy Analysis	3
ECO 113	Principles of Microeconomics	3
or ECO 114 Principles of Macroeconomics		
Select one of the following:		3
BSC 129	Global Ecosystems: North America	
BIO 329	Field Botany	
ESS 121	Global Resources	
BIO 225 or BIO 230	The Poisoning of a Planet General Ecology	3-4
PSC 101	American National Politics	3
PSC 221	State Government and Politics	3
PSC 332	Public Policy	3
Select two additional BIO, CHM, or ESS electives at 200 or higher		6-8
Select two additional PSC or ECO electives at 200-level or higher (Three hours of PSC service learning counts as one elective)		6
Select two of the following:		6
PSC 202	Methods of Political Science	
PSC 333	Environmental Politics	
PSC 340	Science, Technology, & the Good Society	
SOC 265	Population/Demography	

SOC 402	Program Evaluation Research Methods And Policy	
Major Support Requirements		
Select two of the following:		6-8
MTH 110	Introduction to Statistics I (no Computer Lab)	
	or MTH 111 Introduction to Statistics I (with Computer Lab)	
MTH 112	Introduction to Statistics II	
MTH 122	Brief Calculus	
MTH 145	Calculus I	
MTH 146	Calculus II	
Select one of the following:		3
ENG 395	Nonfiction Writing Workshop	
CMM 224	Environmental Journalism	
CMM 397	Writing Nonfiction	
Free Electives (minimum for graduation)		10-16
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

Course	Title	Credit Hours
Freshman Year		
First Semester		
BIO 191	General Biology I	4
ECO 113	Principles of Microeconomics	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		16
Second Semester		
BIO 192	General Biology II	4
PSC 101	American National Politics	3
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
ESS 329	Field Botany	4
Credit Hours		17
Sophomore Year		
First Semester		
MTH 122	Brief Calculus	3
	or or Calculus I	
MTH 145		
BIO 230	General Ecology	4
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		16
Second Semester		
PSC 221	State Government and Politics	3
ECO 205	Economics of Public Policy Analysis	3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
	or	
MTH 111	or Introduction to Statistics I (with Computer Lab)	

Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Junior Year		
First Semester		
PSC/SOC Elective		3
Science Elective		3-4
Free Elective		3
PSC 340	Science, Technology, & the Good Society	3
VPA Visual & Performing Arts (p. 61)		3
Credit Hours		15-16
Second Semester		
Science Elective		3-4
ANT 231	Environment, Culture and Power	3
Free Elective		3
CRW 395	Nonfiction Writing Workshop	3
ENG 310	Literature and Culture	3
Credit Hours		15-16
Senior Year		
First Semester		
Free Elective		3
PSC 332	Public Policy	3
Free Elective		3
BIO 470	Seminar: Environmental Topics	3
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		15
Second Semester		
PSC 333	Environmental Politics	3
Free Elective		3
PSC/SOC Elective		3
COR 400	Senior Studies: Transformations	3
Religion (p. 61)		3
Credit Hours		15
Total Credit Hours		124-126

Environmental Studies Major (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	6
& HST 111	and World Civilization II	
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ²		3
Natural Science (p. 61) ²		3

IDS Interdisciplinary Studies (p. 61)	3
Religion (p. 61)	3
COR 400 Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)	1
DIV Diversity (p. 61)	0
Major Requirements	
ANT 231 Environment, Culture and Power	3
BIO 191 General Biology I	8
& BIO 192 and General Biology II	
BIO 470 Seminar: Environmental Topics	3
ESS 121 Global Resources	3
PSC 101 American National Politics	3
PSC 333 Environmental Politics	3
or PSC 340 Science, Technology, & the Good Society	
ECO 113 Principles of Microeconomics	3
or ECO 114 Principles of Macroeconomics	
Select one of the following:	3-4
BSC 129 Global Ecosystems: North America	
BIO 225 The Poisoning of a Planet	
BIO 230 General Ecology	
BIO 329 Field Botany	
Select one of the following:	3
ECO 205 Economics of Public Policy Analysis	
PSC 221 State Government and Politics	
PSC 332 Public Policy	
Major Support Requirements	
Select one of the following:	3-4
MTH 110 Introduction to Statistics I (no Computer Lab)	
MTH 111 Introduction to Statistics I (with Computer Lab)	
STA 201 Statistics I	
Select one of the following:	3
ENG 395 Nonfiction Writing Workshop	
CMM 224 Environmental Journalism	
CMM 397 Writing Nonfiction	
Electives	
4 Liberal Arts & Science Electives	12
9 Free Electives	27
Total Credit Hours	123-125

¹ Some Core requirements fulfilled by major requirements.

² Fulfilled by major requirements.

Note: Total Credit Hours: 123-125; Liberal Arts & Sciences: 92-94; Major Requirements: 38-40; Electives & Other: 85.

Environmental Studies Minor

A minor in environmental studies requires 15 credit hours, with no more than three credit hours (one course) allowable to count towards both the environmental studies minor and another major or minor.

Choose one from each group:

Code	Title	Credit Hours
ECO 113	Principles of Microeconomics	3
	or ECO 114 Principles of Macroeconomics	
PSC 332	Public Policy	3
	or ECO 205 Economics of Public Policy Analysis	
Select one of the following:		3
PSC 333	Environmental Politics	
PSC 340	Science, Technology, & the Good Society	
ANT 231	Environment, Culture and Power	
Select one of the following:		3
ESS 121	Global Resources ¹	
ECO 305	Environmental Economics	
Select one of the following:		3
BSC 129	Global Ecosystems: North America	
BIO 237	Ecology of the Galapagos ²	
BIO 225	The Poisoning of a Planet ^{1,2}	
BIO 329	Field Botany	
Total Credit Hours		15

¹ May not be used toward Core Requirements

² BIO prerequisite

GENDER AND WOMEN'S STUDIES

Program Director: Dr. Farha Ternikar, Anthropology, Criminology, and Sociology

Gender and Women's Studies Advisory Board:

Dr. Kathleen Costello-Sullivan, English

Dr. Aparna Das, Computer Science

Dr. Leigh Fought, History

Dr. Jennifer Glancy, Religious Studies

Dr. Douja Mamelouk, World Languages, Literatures and Cultures

Dr. Alison Marganski, Anthropology, Criminology, and Sociology

Dr. Julie Olin-Ammentorp, English

Dr. Sherilyn Smith, Biology

Dr. Ludger Viefhues-Bailey, Philosophy

Ms. Kari Zhe-Heimerman, Library

Committed to understanding the experiences and perspectives of people as gendered beings in a variety of cultures and historical periods, the Gender and Women's Studies Program draws on and integrates research in the humanities, social sciences, natural sciences, and business and management. The central category of analysis is gender, the socially constructed and historically variable understanding of what it means to be a gendered person. By investigating how gender norms affect our understanding of ourselves and others, the Gender and Women's Studies Program offers students a broad, multi-disciplinary understanding of intersectionality, the ways in which gender interacts with race, ethnicity, class, religion, sexuality, and other aspects of our lives, in order to condition human consciousness and to shape the social, political, and cultural organization of human societies.

Gender and Women's Studies offers an intriguing and exciting course of study, complementing majors in the humanities, social sciences, natural sciences, and pre-professional programs. Engaged with interdisciplinary thinking, GWS minors stand out when they enter the job market or apply for graduate school. Further, GWS minors develop a greater appreciation for diversity, which is critical to becoming a strong and effective leader in today's world.

- Gender and Women's Studies Minor (p. 84)

Gender and Women's Studies (GWS)

GWS 101. Women, Culture and Society. 3 Credit Hours.

This survey course offers an interdisciplinary exploration of the role that gender has played in history and culture and continues to play in the experiences of women and men. It considers the impact of gender, race/ethnicity, class and sexuality in examining topics such as health, violence, family, work, science, art, politics and spirituality. Using primary texts from a variety of sources, the course introduces students to a range of women's studies topics that will interest and challenge both women and men. Required of all Women's Studies minors. Fulfills Core requirement(s): DIV, IDS.

GWS 125. Biblical Women. 3 Credit Hours.

Focusing on close readings of stories of biblical women, this course introduces students to the Hebrew Bible, deuterocanonical sources, and the New Testament, with attention to the social and historical contexts of those writings, the afterlives of biblical women in later religious traditions, and gender theory.

Cross-listed Courses: THE 125

GWS 200. Cultural Myths and Cultural Realities. 3 Credit Hours.

This course focuses on how we study other, especially non-western, cultures. In it, we look at recent critical debates on the nature of anthropological inquiry and the representations of other cultures that anthropologists have constructed. Is anthropology a science or humanity? How accurate are the anthropologists' representations of other cultures? Why do anthropologists studying the same culture come up with very different pictures of that culture? How much of the anthropologist's own personal and cultural biases are revealed in the way other cultures are described? How does the anthropologist's own theoretical perspective affect the way the data are interpreted? Is the nature of anthropological inquiry such that we can never escape biases? What kinds of methodologies do anthropologists use and what are their limitations? How can restudies enable us to refine our methods and generate more sophisticated comparative categories to use in the understanding of cultures? Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: PGS 200, ANT 200

GWS 202. Gender and Crime. 3 Credit Hours.

This interdisciplinary course examines crime and criminal justice as gendered phenomena. It explores how notions of masculinity and femininity shape and are shaped by criminalized practices, the operation of the criminal justice system, and our understandings of both. Focusing on gender does not mean focusing exclusively on women. Gender is a relational concept; both men and women are gendered. In this course we will consider the implications of feminist theorizing for a range of criminological concepts, approaches, and themes. Case studies from various social contexts (e.g. the U.S., Canada, Mexico, Brazil, etc.) will help students develop cultural sensitivity and a more complete understanding of our social world. Additionally, the course will develop students' ability to think critically about gender and crime from an intersectional standpoint. Historical and contemporary works by criminologists, anthropologists, sociologists, feminist theorists, and others will be reviewed. An auxiliary aim of this course is to develop students' capacity to read and write academic texts efficiently and effectively.

Fulfills Core Requirement(s): Diversity (DIV) and Interdisciplinary Studies (IDS).

Cross-listed Courses: CJS 202, ANT 202, SOC 202, PGS 202

GWS 213. People&Cultures Southeast Asia. 3 Credit Hours.

An anthropological and topical introduction to the region of Southeast Asia and the various societies and cultures found there. Topics to be discussed are: regional definition and intra-regional variation, ecology and economic systems, history and prehistory, social organization including politico-territorial systems and concepts of hierarchy and power, kinship and alliance systems, patron-client systems, ethnic groups and ethnicity, religions, gender systems, personality and communicative systems such as language and other conceptual and symbolic systems. The focus of the course will be on analyses that contrast with western views and that have provided a source of debate on western theories of society and culture. Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: PGS 213, ANT 213

GWS 226. Extreme Murder. 3 Credit Hours.

This course examines the phenomenon of extreme murder. In particular, serial killers, spree killers, and mass murderers - as well as the circumstances surrounding these events - are explored. Other egregious types of offenders may also be reviewed. Throughout the duration of the course, students will learn about infamous killers as well as those who are less recognized in media and popular culture, and the impact of the crimes on persons and society. Students in this course will study copious cases and take a multidimensional approach to critically examine risk factors/causes underlying such violence. In addition to discussing offenders, victims and the context within which victims and offenders interact (the criminal event perspective) will be analyzed. Special attention will be given to sex and gender, among other variables such as race and class. Students will also explore theory and give thought to deterministic, social, cultural, and other explanations. Importantly, they will come to understand how criminological and sociological research has contributed to knowledge (e.g. through qualitative and quantitative techniques) and shaped practice (e.g. criminal profiling, risk assessment, proactive policing, victim-services, etc.).

Cross-listed Courses: CJS 226, SOC 226

GWS 231. Marriage and Families. 3 Credit Hours.

A social scientific study of contemporary and historical forms of marriage and family life in America. We will compare different types of American families with family structures in other parts of the world and other historical periods. We will study interactions between family systems and work, education, health care and legal systems and focus on their public policy implications.

Cross-listed Courses: SOC 231

GWS 232. Family Violence. 3 Credit Hours.

Using sociological perspectives, this course will examine family violence including the abuse of partners, children and elders. It will focus on understanding the origins and the larger forces leading to and reinforcing family violence, and as well as on the microdynamics of violence within families. It will also examine how family violence varies across differences such as race/ethnicity, sexual orientation and disability.

Cross-listed Courses: CJS 232, SOC 232

GWS 240. Social Welfare. 3 Credit Hours.

This course will provide an historical overview of social welfare policy, both public and private, as it has evolved from medieval alms-giving to modern welfare statism. Welfare's costs and benefits, structure and relationship to other parts of society will be examined. Relevant sociological theories will be reviewed, with particular attention to the way they have been applied to problems of social welfare. The social work profession will be examined sociologically.

Cross-listed Courses: SOC 240

GWS 241. Social Inequality. 3 Credit Hours.

An analysis of contemporary developments in stratification theory from both the conflict and structural-functional perspectives. Differences between and among social groups are examined in detail as they are manifested in socialization, educational opportunities, occupational status, life styles, income and health. Special emphasis is placed on the concept of class and the changing American class structure, female status attainment and poverty. Fulfills Core requirement(s): DIV.

Prerequisite: SOC 101 or its equivalent.

Cross-listed Courses: SOC 241

GWS 244. Race and Ethnic Relations. 3 Credit Hours.

Race and ethnicity are a significant aspect of American society, especially as one of the main modes of social stratification. This class will introduce students to the major sociological perspectives on race and ethnicity and will further develop their sociological understanding of and critical thinking about race in the United States. This class will also encourage students to examine race in the U.S., with an emphasis on class, gender and urban life. At the end of this class, students should be familiar with the social importance that race and ethnicity play in everyday life.

Cross-listed Courses: SOC 244, CJS 244

GWS 275. The Psychology of Women. 3 Credit Hours.

This course explores empirical research and theory in areas of psychology relevant to women and sex roles. Topics include sex roles and sex-role stereotyping; biological and psychosocial origins of gender; and gender differences in behavior personality and abilities. Readings and class discussions encourage application of concepts to a variety of settings, including female-male relationships, parenting, education, occupation, the media, et al. Students are expected to develop an in-depth topic of special interest for a term paper and/or class presentation. Satisfies Core diversity requirement.

Prerequisite: PSY 101 or permission of the instructor.

Cross-listed Courses: PSY 275

GWS 301. Crime and Punishment Comparative Perspective. 3 Credit Hours.

This course uses social science, historical, activist, and cross-cultural perspectives to consider the process of criminalization - how certain acts come to be defined as crimes, and certain categories of people come to be considered criminals - as well as social responses to crime. This course will treat the relative concept of "crime" as a social force with special consideration on how it relates to power; legitimacy; citizenship; rights; and the social inequalities of race, class and gender. Critical exploration of these connections is applied to current challenges and ways of addressing them.

Prerequisite: CJS 101, ANT 101 or 102, or permission of instructor.

GWS 312. Women and Politics. 3 Credit Hours.

The goal of this course is to make women visible and their voices audible in the study of American politics. "Politics" is broadly construed to include the politics of everyday life as well as that of national institutions. While gender politics is stressed, we will also study how race, ethnicity, class, sexual orientation, religion, disability and age affect a person's place and role in American society, culture and politics. Fulfills Core requirement(s): DIV.

Cross-listed Courses: PSC 312

GWS 314. Post-Colonial Literature and Theory. 3 Credit Hours.

This course will introduce students to theories of colonialism through the study of world literatures. What is the impact of colonization on a culture? How do questions of language, race, class, and gender impact the experience of colonialism? Students will read novels and short works from a variety of formerly subject nations, including India, Nigeria, Egypt, and Ireland. Short segments of theory will guide and accompany these readings.

Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills Core Requirement(s): DIV.

Cross-listed Courses: ENG 325, PGS 314

GWS 315. Latin American Women Writers. 3 Credit Hours.

The course introduces students to the narrative production by women writers of Spanish America & Brazil. It explores themes and subject matter relating to women's experience in the context of questions raised by feminist criticism. It examines issues such as the engendering of subjectivity and voice, and also the critical reception of these texts in the literary canon. Finally, it addresses more general issues such as the social construction of gender and the construction of a specific feminine identity.

GWS 316. Philosophy of the Body. 3 Credit Hours.

Examining both classical and contemporary texts, this course will present a variety of perspectives-metaphysical, phenomenological and cultural-on the body as a subject of philosophical exploration. Particular attention will be paid to the relationship between culture and body, contemporary attitudes toward the body and various dimensions of the experience of embodiment. (A,B).

Prerequisite: PHL 301 or 302 or 303.

GWS 320. Women and Religion. 3 Credit Hours.

In view of the rapidly changing self-concepts and roles of women, both in the churches and in society as well as the discussion about the nature of our images of God and our use of God language, this course explores some of the implications of these changes for modern women and men. Historical, archetypal and contemporary material is used in a seminar format.

Prerequisite: REL 200.

Cross-listed Courses: REL 320

GWS 321. The Anatomy of Cruelty. 3 Credit Hours.

Drawing on a combination of philosophical texts and other genres (e.g., novels, films, TV shows), this course seeks to provide students with an opportunity to study contemporary constructions of cruelty and criminal violence. We will probe the central images and tropes that permeate contemporary depictions of cruelty and criminal violence, with an eye to discerning the philosophical sources, the socio-political contexts, and the political uses of these representations. Particular attention will be paid to the structure of torture, the philosophy of emotion and cruelty, the paradoxes of cruelty, the Gothic imagination, and the impact of social hierarchies on contemporary constructions of cruelty and criminal violence. Prerequisites or corequisites: PHL 101, 201 or the permission of the instructor.

GWS 323. The Social Production of Space. 3 Credit Hours.

This course is an introduction to the work done in philosophy, geography and cultural studies that addresses the social production of space. In contrast to modern conceptions of space as a pre-given, homogenous and infinite grid of possible locations, the ideas of social production of space leads to a conceptualization of space as deeply textured, often conflicted and historically produced and reproduced. Key concepts to be covered are: abstract space, time-space compression, the decorporealization of space, the impact of everyday practices on spatial production, multiple spaces, raced spaces and spaces of resistance.

Cross-listed Courses: PHL 357

GWS 326. 19th C English and Irish Women Writers. 3 Credit Hours.

This course will examine literature produced by English and Irish women, respectively, during the 19th C. In particular, we will attend to the ways in which issues of particular concern to women from these respective yet interconnected nations are engaged in similar but also divergent ways. The course will not seek to apply some universal standard applicable to women from both nations, nor is its intent to substantiate any false binaries. Rather, the interest is to consider how aesthetic and narrative differences reflect differing social contexts; how the close interactions between these nations inflect the respective literary canons; how women from these nations represent one another; and how gendered issues may or may not affect, and be affected by, wider national views.

Cross-listed Courses: ENG 326

GWS 329. History of Latin American Social Movement. 3 Credit Hours.

Will examine peaceful Latin American social change movements in historical and global context. The civil components of violent revolutions will be examined along with peaceful social movements that confronted ruthless dictatorships across Latin America, energizing democracy and expanding ethnic rights. The course will look at how these movements re-defined gender roles and placed the economic and environmental concerns of the poor in the international spotlight. Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: HST 329, PGS 329, PSC 329

GWS 334. Social Activism. 3 Credit Hours.

An experiential and academic examination of social activism in the United States. The course first explores the meaning of citizenship and the role of activism in a democratic republic. It then focuses on how activism is done by analyzing various social movements and the impact they have had on citizenship, public policy and social change. Junior standing required.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: PGS 334, PSC 334

GWS 340. Special Topics: The Empire. 3 Credit Hours.

This course examines the practice of re-writing or "writing back" by postcolonial authors as a mode of counter-narration and resistance in the context of imperialism and the emergence of the postcolonial consciousness. We study canonical British and French texts by Bronte, Conrad, and Camus in conversation with their anti-colonial literary re-imaginings by the likes of Rhys, Salih, Coppola, Daoud, and Hamid. The goal is to understand how postcolonial writers have tried to transform earlier texts to give voice to the otherwise silenced and dehumanized racial, religious, and linguistic "other" of canonical texts. This course also offers students an introduction to some foundational paradigms of postcolonial theory and criticism.

Prerequisites: WRT 101; ENG 218 (or ENG 210 with department chair permission).

GWS 343. U.S. Latina Thought. 3 Credit Hours.

U.S. Third World women in general and Latinas in particular have raised important philosophical questions that have enriched philosophical and feminist considerations about the nature of the self, reality, knowledge and politics. This course will involve a close reading of a number of philosophical and literary texts by U.S. Latinas from a number of different social locations.

Cross-listed Courses: PGS 343

GWS 344. Gender and Society. 3 Credit Hours.

This course examines the processes and institutions through which gender is constructed and operates in society. It analyzes how gender serves to organize everyday life as well as how such institutions as work, education and marriage take their form according to historically variable contexts of gender relations. Gender will be considered in a cross-cultural context, as well as in interaction with race/ethnicity and class. Students will employ a variety of theoretical perspectives to examine these relationships.

Prerequisite: GWS 101, PSC 101 or SOC 101.

Cross-listed Courses: SOC 344

GWS 346. Victorian Poetry and Prose. 3 Credit Hours.

This course examines the poetry and non-fiction prose of the Victorian period, which begins with the passage of the First Reform Bill in 1832 and runs concurrently with the reign of Queen Victoria from 1837 to 1901, a period that saw a general shift away from the Romantic emphasis on individualism and subjectivism to a new emphasis on social life and social concerns, including the role of women in both private and public life; that witnessed a comparable shift away from the sanctity of nature to a new emphasis on the discoveries of natural science, including those of Charles Lyell and Charles Darwin; and that marked the unprecedented expansion of British industry and the utmost extension of the British Empire. The course will explore these developments as well as other developments in religion, art, culture and the Victorian imagination in the poetry of Tennyson, Arnold, the Brownings, the Rossettis, Swinburne, Meredith, and Hardy, as well as the non-fiction prose of Carlyle, Hazlitt, Darwin, Marx, Mill, Arnold, Ruskin, Pater, and Wilde, and/or others representative of the period.

Prerequisites: WRT 101, and ENG 200, ENG 210 or ENG 218.

Cross-listed Courses: ENG 346

GWS 347. The Victorian Novel. 3 Credit Hours.

An examination of the Victorian novel, addressing the following issues: the ways in which Victorian novels recall and revise romanticism and look forward to modernity; the influences of science, evolution, and industry on the content and form of the novel; representations of domesticity and the attempts of women novelists to rewrite or redefine heroism and tragedy; and Victorian preoccupation with the past, as it affects narrative notions of character and conceptions of literary history. Authors treated include Charlotte Bronte, Emily Bronte, Charles Dickens, Thomas Hardy and George Eliot.

Prerequisites: WRT 101, and ENG 200, ENG 210, ENG 218.

Cross-listed Courses: ENG 347

GWS 351. Critical Approaches to Film. 3 Credit Hours.

An introduction to film genre, genre theory and film criticism, the course will examine the generic conventions that govern production and reception of film texts. Film genres may include the screwball comedy, the melodrama, the western, the musical, the gangster picture, film noir and others.

Prerequisites: WRT 101 and ENG 200, ENG 210, or ENG 218.

Fulfills Core Requirement(s): VPA.

Cross-listed Courses: CMM 380, THR 371, ENG 371

GWS 354. Modern American Fiction. 3 Credit Hours.

A study of American fiction of the modernist period (roughly 1915-1950), including representative works by many of the major fiction writers, e.g. Wharton, Faulkner, Glasgow, Hemingway, Hurston, Fitzgerald, Wright.

Prerequisites: WRT 101, ENG 200/218.

Cross-listed Courses: ENG 364

GWS 355. Philosophy of Science. 3 Credit Hours.

This is a meta-mathematical/meta-scientific course in philosophical analysis. The concepts to be investigated are drawn from the fields of mathematics, physics and cosmology (e.g., number, shape, gravity, force, energy, matter, space, time, infinity, singularity). Focused attention will be given to the traditional "paradoxes" associated with the attempt to understand these concepts as well as to the more contemporary "anomalies" brought to light in the investigations of physics and astrophysics. (E).

Cross-listed Courses: PHL 364

GWS 357. Modern European Drama. 3 Credit Hours.

A study of representative plays of European dramatists from the mid-19th century to the mid-20th centuries.

Prerequisites: ENG 100, ENG 200/218.

Cross-listed Courses: THR 369, ENG 369

GWS 358. Representations of the Media in Film. 3 Credit Hours.

This course is designed to explore ways in which films present myriad images of the mass media when they take as their subject matter the news, documentaries, radio, television, and the film industry itself. The course will develop students' understanding of the nature and function of mass media in American culture and the relationship between power structures and representations of gender in media industries.

Prerequisites: WRT 101, ENG 200/218.

Cross-listed Courses: CMM 358

GWS 359. The Films of Alfred Hitchcock. 3 Credit Hours.

In this course, we will examine whether Hitchcock's films can be said to constitute a coherent "body" of work - identifying in the process potential stylistic idiosyncracies and thematic preoccupations. And we will try to come to some understanding of what is gained and what lost by thinking in these terms. We will use Hitchcock's desire to develop a rigorously cinematic mode of presentation as a means of opening a discussion about the ways films "speak". And we will wonder, along with a handful of contemporary critics, what kind of viewer the films seek to construct. We will take the films' explicit interest in watching as a point of departure for an analysis of voyeurism and its centrality in contemporary western culture. Finally, and not incidentally, we will use the occasion the course provides to spend time watching a number of engaging films. Fulfills core Visual and Performing Arts requirement. (VPA)
Prerequisites: WRT 101, ENG 200/ENG 218.

Cross-listed Courses: CMM 383, ENG 378

GWS 360. Spanish Women Writers. 3 Credit Hours.

In this course students will explore different aspects related to the literary expression and construction of identity through the study of works by women writers both from Spain and Latin America who practice a variety of genres; autobiography, novel, short story and poetry. Through the analysis of these texts we will derive interdisciplinary discussions related to the construction of gender, sexuality and feminine creativity. We will examine not only the form and the content of the texts, but we will also contextualize the works in their historical, cultural and literary background. Through the use of secondary texts such as paintings, documentaries, musical compositions and film, the students will explore the different forms of art and disciplines that intersect with the texts and project the worldview of each period.

Cross-listed Courses: PGS 450, SPN 451

GWS 365. U.S. Women's History, From the Colonial Era to the Present. 3 Credit Hours.

This course studies the roles and experiences of women in american history, society, and culture, including women's roles in the family, work, education, health, religion, political reform, and social change from the colonial era to the present. This course will include discussions of the difference between sex and gender, and the intersection of race, class, gender, and sexuality in the lives of women.

GWS 380. Lit by Women: 17th-19th Cent. 3 Credit Hours.

The works of English and American women writers from the 17th through the 19th century. Covers a wide survey of authors, including complete novels by Fanny Burney, Jane Austen, Charlotte Bronte and George Eliot.
Prerequisites: WRT 101, ENG 200/218.

Cross-listed Courses: ENG 380

GWS 381. Women As Art/ Women As Artists. 3 Credit Hours.

Working with the subject/object distinction made in the visual arts by thinkers like John Berger and Laura Mulvey, this class begins by examining texts in which women are portrayed as beautiful objects, then moves to texts in which women create their own artworks. In all of these works, questions of power, agency, and creativity are central. We will read novels such as Edith Wharton's *The House of Mirth*, Tracy Chevalier's *Girl with a Pearl Earring*, and Mary Gordon's *Spending*, along with A.S. Byatt's *The Matisse Stories* and a number of other short works. The course also includes art history relevant to the works being studied, and when possible, visits by artists and a trip to museums in New York City. English majors: this counts as a Topics course.
Prerequisites: WRT 101, ENG 210.

Cross-listed Courses: ENG 381

GWS 382. African-American Literature. 3 Credit Hours.

An introduction to the wide range of African-American literature from slave narratives to present-day authors. Issues include the relation of African-American culture to dominant Anglo culture; the influence of slavery on the lives of African-Americans; African-American self-perception; the roles of gender and economic status. Authors may include Douglass, Jacobs, Chesnutt, Hurston, Hughes, Brooks, Wright, Morrison, Naylor and others. English majors earning certification in Adolescent and Dual Adolescent/Special Education will also study and practice curriculum design and instructional strategies that connect the course's content to today's multi-cultural classrooms. Only English may satisfy the EDU 303 teacher certification requirement by completing this course.

Prerequisites: WRT 101, ENG 200/218.

Cross-listed Courses: ENG 382

GWS 383. American Ethnic Literature. 3 Credit Hours.

Introduces students to native and immigrant voices in American literature, including Native American writers such as James Welch and Louise Erdrich; Asian American writers such as Maxine Hong Kingston and Amy Tan; and writers from Latino/a, Arab American, Jewish and othr backgrounds. English majors earning state teacher certification in Adolescent and Dual Adolescent/Special Education will also study and practice curriculum design and instructional strategies that connect the course's content to today's multi-cultural classrooms. Only English majors may satisfy the EDU 303 teacher certification requirement by completing this course. Prerequisites: WRT 101, ENG 200/218.

Cross-listed Courses: ENG 383

GWS 401. Theories of Sex and Gender. 3 Credit Hours.

This interdisciplinary seminar explores the roots of contemporary theories of sex and gender by examining the rich variety of perspectives on sex and gender that have evolved since the nineteenth century. We will address cultural and biological explanations for identity formation, as well as selected topics of interest in contemporary culture and the impact of feminisms and gender studies on ways of reading classic and contemporary materials such as film, literature, and art. The course is designed not only to give students some familiarity with the history and content of feminist theories, but also to provide them with a context for considering and developing their own positions on issues concerning sex, gender, and power. Required of all Gender and Women's Studies minors.
Prerequisite: 3 credit hours in GWS or the permission of the director.

GWS 404. Literature and Psychology. 3 Credit Hours.

A seminar employing psychological approaches in analyzing and writing about literary texts. In examining fiction, poetry and drama by writers from Sophocles to Toni Morrison, the course includes such topics as archetypes, defense mechanisms, psychological disorders, family dramas, therapeutic relationships, the psychology of women or the psychology of the artist. Contributions of selected psychological theorists provide a foundation for discussion of literary texts. Prior knowledge of psychology is not required.

GWS 405. International Human Rights. 3 Credit Hours.

This course will examine the development of human right in the international system. It will explore the content of the current international human right regime -the "blue" social and political rights and the "red" economic rights, as well as "green" rights to development, a clean environment, and peace. It will explore how rights develop and are propagated and will examine the role of governments, international organizations, and non-governmental organizations in the development of rights thinking. By way of illustration, it will examine the anti-apartheid struggle in South Africa and the expansion of women's rights over the last twenty years. A one-credit integrated service learning experience may be offered with this course.

Cross-listed Courses: PGS 405, PSC 405

GWS 407. Medieval and Renaissance Women. 3 Credit Hours.

This course will explore the roles and perceptions of women in medieval and early modern periods in Europe (300-1500). We will also consider the roll of gender in history and examine how women saw themselves as wives, mothers, workers and spiritual and sexual beings. Open to seniors only. Fulfills ENG/HST senior core requirement.

GWS 408. Gender and Literature. 3 Credit Hours.

Students will explore issues of gender formation and gender identity (in the United States) as described in the literature. The course covers a variety of eras as well as authors from various backgrounds. Prerequisites or corequisites: WRT 101, ENG 200/ENG 218, ENG 300.

GWS 412. American Outlaws and Outcasts. 3 Credit Hours.

Exploration of American literature from a cultural perspective, particularly its fascination with characters who transgress, manipulate and confront the boundaries that demark American culture. We will focus on a variety of figures who are both powerful and marginal: writers, criminals, clowns and lovers. We will compare America's painted and tainted ladies with its masked lone rangers to see what difference gender makes in the terms and consequences of their isolation.

GWS 414. American Film Noir and Femme Fatale. 3 Credit Hours.

This core course will trace the development of film noir and the femme fatale through the original cycle of noir films of the '40s and '50s to later and neo-films. We will look at the socio-historical contexts of these films in order to generate questions not only about the cultural origins and revisions of the genre, but also about the effectiveness and viability of contemporary representations of the femme fatale. Students will present submissions each week in response to films and assigned readings.

GWS 415. 12 American Films: Auteurism. 3 Credit Hours.

A socio-historical study of the works of six exceptional American film directors of the twentieth century. We will approach the films of Billy Wilder, Orson Welles, Alfred Hitchcock, Stanley Kubrick, Martin Scorsese and Woody Allen through the perspective of. 1) socio-historical context, 2) genre study, and 3) auteurism (film director as author/artist). Focus on theme of viewing and being viewed, and the larger issues of performance raised by this theme, including the process of becoming a public image and the representation of the artist-figure and actor. Significant attention to the representation of women as objects of vision.

GWS 416. Religion, Sex and Gender. 3 Credit Hours.

This seminar will study the religious understandings of sex and sexuality, and the role which religion plays in establishing and reinforcing gender roles. Students will explore the attitudes toward sex and sexuality found in religious art, music and literature. The course will treat the dualisms which prevail in all cultures and academic disciplines that assign different tasks and qualities to men and women. Students will also discuss the gender expectations of different religious traditions to assess the impact that such expectations have on the pursuit of knowledge.

Prerequisites: Junior standing.

Cross-listed Courses: REL 412

GWS 418. Located Knowledges. 3 Credit Hours.

This course will be an exploration of the ethical and epistemological consequences of social location. Is your understanding of the world and your ability to move responsibly in it impacted by your race, gender, class, or sexuality? As you finish your final year at Le Moyne, we will reflect on how you have been prepared to promote justice in a diverse society.

GWS 419. Contemp Irish Lit and Politics. 3 Credit Hours.

This interdisciplinary core seminar will explore the major writers of post-Civil War Irish literature, focusing on the novelists, poets and playwrights who have responded to and helped shape an Ireland very different from that of the 1916 Rising. We shall read selectively in the fiction, poetry and drama of the period, with special attention to the intersection of politics and imagination in contemporary Irish culture. Prerequisites or corequisites: WRT 101, ENG 200/ENG 218, ENG 300.

GWS 422. Literature and Science. 3 Credit Hours.

This course explores relationships between literature and science through a study of drama, poetry, scientific articles, and nonfiction writings about science, most of it from the 20th century. We will look at how literature represents and interprets scientific practice and concepts, and how scientific texts use literary and rhetorical techniques to communicate with and persuade audiences. Topics include women and science, the languages of science, and heroes/anti-heroes of science.

GWS 447. Stereotypes/Prejudice/Discrim. 3 Credit Hours.

This course is designed to enhance the understanding of the development and persistence of stereotypes. The psychology of social cognition with regard to the accuracy and inaccuracy of those stereotypes will be addressed as well as how the inaccuracies may lead to prejudice and discrimination. We will explore how this affects our social interactions; specifically addressing the areas of race, class and gender. Students will read book chapters and journal articles and are expected to contribute to classroom discussions of these materials. Students will also complete a writing project. Senior standing required. Prerequisites: PSY 101 and PSY 201 or permission of the chair.

Cross-listed Courses: PSY 447

Gender and Women's Studies Minor

In order to complete a minor in the Gender and Women's Studies Program, students must take GWS 101 Women, Culture and Society, OR SOC 344 Gender and Society, GWS 401 Theories of Sex and Gender; and nine other credit hours cross-listed with courses offered by the Gender and Women's Studies Program and selected in consultation with the program director. Normally, no more than three credit hours may come from the allied Gender and Women's Studies Program curriculum and no more than six credit hours from any single department. The pass/fail option may not be used to fulfill requirements for the minor. Core courses and some major electives may count both toward Core and

toward the major. Please consult the program director if you have any questions.

Code	Title	Credit Hours
Minor Requirements		
GWS 101	Women, Culture and Society or SOC 344 Gender and Society	3
GWS 401	Theories of Sex and Gender	3
Select three additional courses. Normally, two should be from the list of Primary GWS Courses; no more than one should be from the Allied GWS courses.		9
Total Credit Hours		15
Primary GWS Courses		
GWS 125	Biblical Women	
GWS 202	Gender and Crime	
GWS 226	Extreme Murder	
GWS 232	Family Violence	
GWS 275	The Psychology of Women	
GWS 312	Women and Politics	
GWS 315	Latin American Women Writers	
GWS 320	Women and Religion	
GWS 326	19th C English and Irish Women Writers	
GWS 334	Social Activism	
GWS 340	Special Topics: The Empire	
GWS 343	U.S. Latina Thought	
GWS 344	Gender and Society	
GWS 360- GWS 379	Special Topics	
GWS 365	U.S. Women's History, From the Colonial Era to the Present	
GWS 380	Lit by Women: 17th-19th Cent	
GWS 381	Women As Art/ Women As Artists	
GWS 407	Medieval and Renaissance Women	
GWS 408	Gender and Literature	
GWS 416	Religion, Sex and Gender	
GWS 419	Contemp Irish Lit and Politics	

Code	Title	Credit Hours
Allied GWS Courses		
GWS 200	Cultural Myths and Cultural Realities	3
GWS 213	People&Cultures Southeast Asia	3
GWS 231	Marriage and Families	3
GWS 240	Social Welfare	3
GWS 241	Social Inequality	3
GWS 244	Race and Ethnic Relations	3
GWS 301	Crime and Punishment Comparative Perspective	3
GWS 314	Post-Colonial Literature and Theory	3
GWS 316	Philosophy of the Body	3
GWS 321	The Anatomy of Cruelty	3
GWS 323	The Social Production of Space	3
GWS 329	History of Latin American Social Movement	3

GWS 346	Victorian Poetry and Prose	3
GWS 347	The Victorian Novel	3
GWS 351	Critical Approaches to Film	3
GWS 355	Philosophy of Science	3
GWS 357	Modern European Drama	3
GWS 358	Representations of the Media in Film	3
GWS 359	The Films of Alfred Hitchcock	3
ENG 364	Modern American Fiction	3
GWS 360- GWS 379	Special Topics	3
GWS 382	African-American Literature	3
GWS 383	American Ethnic Literature	3
GWS 404	Literature and Psychology	3
GWS 405	International Human Rights	3
GWS 412	American Outlaws and Outcasts	3
GWS 415	12 American Films: Auteurism	3
GWS 418	Located Knowledges	3
GWS 422	Literature and Science	3
GWS 447	Stereotypes/Prejudice/Discrim	3

INTEGRAL HONORS

Program Director: Matthew Fee

The Integral Honors Program offers exceptional students both a unique educational experience and the opportunity to earn the highest academic distinction that Le Moyne College confers upon its graduates. The program serves all majors. To earn an Integral Honors degree students take a series of Honors courses taught by faculty from departments across the college and include individually and team-taught classes. The Honors curriculum takes the place of much of the Core curriculum that all Le Moyne students complete, with a few exceptions. In addition to class work, all Honors students complete a thesis, or capstone, project. Completion of all requirements earns a student the Integral Honors degree.

Students apply for admission to the Integral Honors Program during their senior year of high school, although some spots are open for students who choose to apply during their first semester, once they have started their course work at Le Moyne. During the first and second years, students typically take four foundational Honors courses in Theology, English, Philosophy, and History, where students have the opportunity to challenge themselves with in-depth exploration of texts and methodologies within these disciplines.

After the first year, Honors students take two interdisciplinary seminars on various topics. Honors students complete HON 380 Honors Thesis Research in their third year. This course prepares the students to complete their Honors thesis through exploring and refining their topic according to its disciplinary intervention; the scope and structure of its argument; and its use of interdisciplinary research. Each student then applies this knowledge to developing and researching his or her own interdisciplinary honors thesis project under the guidance of a professor-mentor. HON 480 Honors Thesis Project continues the research and writing of the honors thesis throughout the senior year, culminating in the public presentation of the thesis project at Le Moyne's Scholars Day at the end of the spring semester. Students also participate in an academic defense of the honors thesis with their faculty review committee.

To maintain Integral Honors status, a student must earn a minimum grade of B in each honors course. A minimum overall GPA of 3.25 and completion of all honors courses are also expected for graduation with the Integral Honors degree.

Students in the Integral Honors Program pay regular tuition but have the privilege of taking extra courses without charge. Such added hours may not be applied, however, to early graduation, and any summer, May-mester or J-mester courses require payment of regular tuition.

For further information, please see Interdisciplinary Programs or contact the program director.

- Integral Honors Program (p. 87)

Integral Honors (HON)

HON 110. Honors Philosophy. 3 Credit Hours.

Offered every spring semester, Honors Philosophy is a writing-instructional seminar that introduces students to the practice of philosophy and to some of the central questions, modes of inquiry, and forms of analysis and argumentation that distinguish philosophy from other ways of understanding ourselves and our world. Organized around the themes of "the human condition" and "the examined life," the seminar engages students in reflective dialogue about central concepts that define the human condition (e.g., knowledge and understanding, beauty and value, justice and community, transcendence and the divine, etc.). Writing instruction is geared towards developing skills in writing argumentative essays, with students working through advanced philosophical literature. Open only to Integral Honors Program students. This course replaces PHL 110 in the Core Curriculum.

HON 111. Honors English. 3 Credit Hours.

Offered every fall semester, this writing-instructional seminar introduces students to honors-level critical reading and critical writing in the discipline of literary studies. Daily class discussions of the reading assignments enhance students' critical thinking and reading skills while modeling the art of respectful and effective intellectual debate. Open only to Integral Honors Program students. This course replaces ENG 210 in the Core Curriculum.

Prerequisite: WRT 101.

Cross-listed Courses: ENG 210

HON 112. Honors Theology. 3 Credit Hours.

Offered every fall semester, Honors Theology is the first required course in the Honors Program curriculum. Honors Theology introduces students to theology as an academic discipline that seeks to understand what individuals and communities mean by their faith claims (religious or not), the god(s) which are the objects of these claims (whether personal, impersonal or abstract), and expectations (intellectual and behavioral) placed on those who follow them. Each Theology seminar explores a specific theme or themes using a select number of texts that highlight the theme(s) chosen. Daily class discussions of the reading assignments enhance students' critical thinking and reading skills while modeling the art of respectful and effective intellectual debate. Open only to Integral Honors Program students. This course replaces the Theology requirement in the Core Curriculum.

HON 115. Honors World Civilizations. 3 Credit Hours.

Through extensive readings of both primary and secondary sources, this seminar surveys the most important developments, issues, accomplishments and problems of World civilizations since the eighteenth century and examines the development of African, Asian, European, Islamic, Native American and Latin American civilizations since the eighteenth century. Emphasis will be placed on the issues surrounding colonialism and its impact through Asia, Africa and the Americas. This seminar will include the production of a research paper. Open only to Integral Honors Programs students. This course replaces HST 111 in the Core Curriculum.

HON 215. Honors Interdisciplinary Philosophy Seminar. 3 Credit Hours.

Offered every fall semester, HON215 is an interdisciplinary seminar that honors students typically take in the fall semester of their second year. The seminar, which may or may not be team taught, features an interdisciplinary approach to topics of the instructor's (or instructors') choosing. Typically, the seminar will alternate between humanities-based themes (e.g. monsters and the monstrous) and science-based themes (e.g. bioethics) with an interdisciplinary approach to topics in moral philosophy serving as the seminar's foundation. Attention will be paid to the ethical implications of the selected topics, questions of value, the nature of the good life, and/or moral obligations towards others and oneself. Open only to Integral Honors Program students. This course replaces PHL 210 in the Core Curriculum.

Prerequisite: HON 110.

HON 225. Honors Interdisciplinary Literature Seminar. 3 Credit Hours.

Offered every spring semester, HON 225 is an interdisciplinary seminar, which may or may not be team taught, that honors students typically take in the spring semester of their second year. The seminar topic is narrowly focused for a deep and intense engagement with the course material. Each HON 225 seminar explores a specific theme or historical moment by integrating literary studies and multiple disciplines, and by concentrating on a select number of texts from those disciplines. Daily class discussions not only enhance students' critical reading and speaking skills but teach the art of respectful and effective intellectual debate. Writing assignments in this writing-instructive course focus on critical writing about interdisciplinary themes and texts. Open only to Integral Honors Program students. This course replaces ENG 310 in the Core Curriculum.

Prerequisites: HON 111.

Cross-listed Courses: ENG 310

HON 320. The World of the Other. 3 Credit Hours.

An interdisciplinary course on the contemporary world that will address philosophical, social, religious, literary, and scientific issues from diverse perspectives but full immersed within a context of modernization, underdevelopment, and dependency. Taught on campus and in Latin America by Le Moyne College faculty, the course also features lectures by guest speakers from the Rafael Landivar University, a Jesuit institution, in Guatemala City and in Quetzaltenango. The course is open to Non-Honor students with permission of the instructors. NOTE: There are additional travel expenses associated with this course for the travel component.

Prerequisite(s): Senior standing or permission of the instructor.

Cross-listed Courses: COR 400I

HON 351. Interdisciplinary Seminar: Bioethics. 3 Credit Hours.

When and where the implications and practices of biological sciences meet ethics we have bioethics. This course introduces students to a variety of current ethical issues in biology including topics in genetics and biotechnology, reproductive technology, environmental issues such as biodiversity and use (and abuse) of natural resources, and biomedical ethics. Understanding and application of value choices and ethics is emphasized.

Prerequisites: HON 215 or permission from Honors Director.

HON 380. Honors Thesis Research. 3 Credit Hours.

In this course, each Honors student chooses or creates an interdisciplinary honors thesis project in consultation with the Honors Program Director, who teaches the course, and with a faculty mentor. Students research their thesis projects throughout the semester, with particular attention, focused on developing a scholarly intervention that consists of a well-structured argument of appropriate scope, informed by sustained, interdisciplinary academic research. Creative and artistic projects, science, social science, and business research studies, historical research papers, and other interdisciplinary projects are all acceptable as thesis projects when informed by sustained academic research. As the final writing assignment for the course, each student drafts a thesis proposal that includes the thesis introduction, timeline for completion, and an analytical review of the current scholarly research in the field of his or her thesis. This thesis proposal must be approved before he or she may continue with the thesis. Open only to Integral Honors Program students.

Prerequisites: HON 110, HON 112 or HON 115; HON 111; HON 215 or HON 225.

HON 480. Honors Thesis Project. 3 Credit Hours.

Under the direction of a primary mentor, and in consultation with the Honors Program Director as well as a secondary reader from an additional discipline (in order to develop the project's interdisciplinarity), the honors student produces an independent, interdisciplinary honors thesis project informed by sustained academic research as the culmination of his or her work in the Integral Honors Program. Open only to Integral Honors Program students.

Prerequisite: HON 380.

Cross-listed Courses: COR 400, COR 400A, COR 400B, COR 400C, COR 400E, COR 400G, COR 400H, COR 400I, COR 400J, COR 400K, COR 400M, COR 400S, COR 400Q, COR 400T, COR 400R, COR 400X, COR 400AB, COR 400W, COR 400BB, COR 400CB, COR 400DB, COR 400EB, COR 400FB, COR 400V, COR 400N

Integral Honors

College Core and Honors Sequence

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
Natural Science (p. 61)		3
Social Science (p. 61)		3
Religion (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Mathematics (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
VPA Visual & Performing Arts (p. 61)		3
DIV Diversity (p. 61)		0
Other Requirements ²		
HON 110	Honors Philosophy	3
HON 111	Honors English	3
HON 112	Honors Theology	3
HON 115	Honors World Civilizations	3

HON 215	Honors Interdisciplinary Philosophy Seminar	3
HON 225	Honors Interdisciplinary Literature Seminar	3
HON 380	Honors Thesis Research	3
HON 480	Honors Thesis Project	3
Total Credit Hours		57

- ¹
Other Core requirements are fulfilled by Honors Program requirements (see "Other Requirements" below).
- ²
Honors Program requirements that substitute for Core requirements.

The remainder of the student’s program depends on the choice of major.

Typical Program for College Core and Honors Sequence

Course	Title	Credit Hours
Freshman Year		
First Semester		
HON 112	Honors Theology	3
Credit Hours		3
Second Semester		
HON 110	Honors Philosophy	3
HON 115	Honors World Civilizations	3
Credit Hours		6
Sophomore Year		
First Semester		
HON 111	Honors English	3
HON 215	Honors Interdisciplinary Philosophy Seminar	3
Credit Hours		6
Second Semester		
HON 225	Honors Interdisciplinary Literature Seminar	3
Credit Hours		3
Junior Year		
Second Semester		
HON 380	Honors Thesis Research	3
Credit Hours		3
Senior Year		
First Semester		
HON 480	Honors Thesis Project	3
Credit Hours		3
Total Credit Hours		24

¹ Please consult program director for additional requirements

LEGAL STUDIES MINOR

Legal Studies focuses on law as a social phenomenon, and legal systems as both cultural systems and institutional systems. Much of jurisprudential theory identifies justice both as the first value of law and as the standard against which legal systems are to be judged. Within this framework, special attention is focused on the role of law in the lives of society's least advantaged populations. Consistent both with this understanding of justice and with the College's mission of education for social justice, engaged citizenship and service in the interests of the disadvantaged, the legal studies minor will emphasize problem-solving, values identification and critical thinking skills.

Although housed within the political science department, the legal studies minor is an interdisciplinary course of study composed of five courses. It is designed for both law school-bound students and those who want to gain a credential that complements their major and future careers.

Code	Title	Credit Hours
Minor Requirements		
LGS 201	Introduction to Legal Studies	3
LAW 200	Legal Environment of Business	3
Select one of the following humanities courses:		3
PHL 350	Philosophy of Law	
HST 316	History of American Law	
LGS 230	Legal Research and Writing	
Select one of the following social science courses:		3
PSY 335	Psychology and the Law	
SOC 321	Law, Society and Social Science	
PSC 301	The U.S. Supreme Court	
PSC 362	International Law	
PSC 405	International Human Rights	
Select one capstone course: ¹		3
PSC 451	American Constitutional Law I	
PSC 452	American Constitutional Law II	
Internships from various disciplines		
Departmental honors/research projects from various disciplines		
Total Credit Hours		15

¹ The legal studies director will exercise flexibility in the development of capstone coursework in a manner that maximizes the educational benefit of the student.

Legal Studies

LGS 201. Introduction to Legal Studies. 3 Credit Hours.

This course is an introduction to the American legal system: its processes, institutions, actors, objectives, values, and impact. We will investigate not only how law affects society but also how it affects the attitudes and actions of individuals in everyday life. To study this, an interdisciplinary approach is adopted and theories that range from the mainstream to the critical will be examined. This course is required for the LGS minor; it may also be taken as a PSC offering.

Cross-listed Courses: PSC 205

LGS 220. The Criminal Justice System. 3 Credit Hours.

This course examines the criminal justice system and its effects on individuals within the system. It also considers the criminal justice systems effects on individuals both inside and outside the system with respect to the commission of crime.

Prerequisite: SOC 305 recommended.

Cross-listed Courses: SOC 220, CJS 220

LGS 230. Legal Research and Writing. 3 Credit Hours.

Students will be introduced to the skills of legal analysis, legal research, and legal writing. The course will focus on building a basic legal vocabulary, issue recognition, effective organization, clear writing, and proper legal citation. Students will also have an opportunity to strengthen their speaking skills by participating in oral arguments. These skills form the essential building blocks of critical and logical thinking, and will serve any student interested in pursuing legal studies, advancing their undergraduate educations, entering graduate school, or working in science or business.

Cross-listed Courses: PSC 230

LGS 243. Law and Politics. 3 Credit Hours.

A study of the relationship between legal and political norms, actors and institutions. Through analysis of contemporary controversies the following questions are examined: How is law political? Can or should judging be value free? What are the alternatives to going to court? What values does the legal system maintain? Can law change an unwilling society?

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: PSC 243

LGS 250. Legal Environment of Business. 3 Credit Hours.

This course provides an introduction to the various ways in which laws and the legal system affect the conduct of business. Students will be encouraged to use their understanding of law and the legal system as a tool in ethical business decision making. Some reference to the impact of law in the international sphere will be included.

Cross-listed Courses: LAW 200

LGS 253. Cybersecurity Law. 3 Credit Hours.

An introduction to the key legal and policy issues related to cybersecurity, including the legal authorities and obligations of both the government and the private sector with respect to protecting computer systems and networks, as well as the national security aspects of the cyber domain including authorities related to offensive activities in cyberspace. The course will include a survey of federal laws, executive orders, regulations, and cases related to surveillance, cyber intrusions by private and nation-state actors, data breaches, and privacy and civil liberties matters, among other things.

Cross-listed Courses: PSC 253

LGS 301. The U.S. Supreme Court. 3 Credit Hours.

An examination of the personalities, politics, processes, decision-making and impact of the United States Supreme Court.

Cross-listed Courses: PSC 301

LGS 310. Business Law for Accountants. 3 Credit Hours.

A continuation of LAW 200. This course will focus on the law of business organizations including partnerships, corporations, employer-employee relationships, principal-agency relationships and topics closely related to business organizations. Such topics will include commercial transactions, bankruptcy and suretyship. An emphasis will be placed on the role of the accountant with respect to all topics.

Prerequisite: LAW 200.

LGS 316. History of American Law. 3 Credit Hours.

This course will weave together the history of U.S. legal and constitutional thought with the role that law has played in social and political change and in everyday life. It will consider a wide variety of texts and events but will concentrate on: colonial antecedents; revolution and the U.S. Constitution; the golden age of American law; courts and the rise of industrial capitalism; Black slavery and freedom; achievements and limits of liberal legal reform; the experience of the women's, labor, and civil rights movements; and legal realism and theories of the administrative state.

Cross-listed Courses: HST 316

LGS 321. Law, Society & Social Science. 3 Credit Hours.

The structure and functions of law as an institution are analyzed from the perspectives of classical and contemporary social scientific theories. The legal processes of the assignment of responsibility, the resolution of disputes, the distribution of social rewards and the imposition of sanctions are studied in cross-cultural perspective. Attention is also focused on the use of social scientific knowledge by legal institutions.

Cross-listed Courses: CJS 321, SOC 321

LGS 335. Psychology and the Law. 3 Credit Hours.

The legal system is a pervasive and important part of our lives. The goal of this course is to help students develop an understanding of the psychological aspects of the functioning of the system and the effects of the legal system on us. This course will address the social psychological aspects that impact and are impacted by the legal system. Students will develop an understanding of many issues, including how psychologists contribute to the law and the legal system, psychological theories of crime, psychological issues related to the selection and performance of police officers, the dynamics of eyewitness testimony, jury selection and performance and confessions. Junior standing required.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: PSY 335, CJS 335

LGS 340. International Business Law. 3 Credit Hours.

This course introduces the international legal environment of business through a study of differing legal systems and the methods of international trade regulation. Part One focuses on the economic, social and political forces that shape the development of international law and its related legal institutions including an overview of the public and private legal tools used to regulate business and settle disputes. Part Two will deal with the international commercial transaction with a focus on private law. Part Three will cover the public law aspects of international and US trade law including GATT, import and export regulations and NAFTA. Part Four deals with the legal risks associated with international trade, environmental concerns, nationalization and privatization. Students will be encouraged to use their knowledge of law and the legal system as a tool in business and policy decision making.

LGS 350. Philosophy of Law. 3 Credit Hours.

This is not a course in the study of law. It is a course designed to afford students who have an interest in the law (not necessarily professional) an opportunity to reflect on the philosophical presuppositions of the law and the philosophical problems that arise within the general domain of jurisprudence. Based on readings (historical and contemporary) written by both philosophers and jurists, the course typically addresses general theories of law, law and morality, judicial reasoning and crime and punishment. Students should expect to do a great deal of linguistic analysis as well as some case study.

Cross-listed Courses: PHL 350

LGS 362. International Law. 3 Credit Hours.

The course will examine the theory and practice of International Law (IL) with reference to various events, which shaped the development of international law in all its forms (norms, rules, principles, precedent, custom, treaties etc). The course will emphasize current international legal norms and possibilities for future development.

Cross-listed Courses: PSC 362, PGS 364

LGS 451. American Constitutional Law I. 3 Credit Hours.

A study of selected problems in constitutional law with emphasis on areas of current concern. Material consists of case studies, selected articles, commentaries and judicial biographies. The Supreme Court is viewed as a social, economic and cultural force in our political system as well as a source and arbiter of law and order. The interaction of the court and interest groups is examined in connection with the development of constitutional law.

Prerequisite: permission of the instructor or department chair.

Cross-listed Courses: PSC 451

LGS 452. American Constitutional Law II. 3 Credit Hours.

A study of selected problems in constitutional law with emphasis on areas of current concern. Material consists of case studies, selected articles, commentaries and judicial biographies. The Supreme Court is viewed as a social, economic and cultural force in our political system as well as a source and arbiter of law and order. The interaction of the court and interest groups is examined in connection with the development of constitutional law.

Prerequisite: permission of the instructor or department chair.

Cross-listed Courses: PSC 452

LIBRARY

Library (LIB)

LIB 100. Library & Info Research Strat. 1 Credit Hour.

LIB 280. Info in Chemistry & Physical Sciences. 1 Credit Hour.

This course will introduce the changing information landscape in chemistry and the physical sciences to help students become effective database and "free web" searches. Students will also become familiar with the social and ethical issues relating to the production and use of scientific information in an increasingly digital society.

Cross-listed Courses: CHM 280, PHY 280

LIB 380. Information in the Biological Science. 1 Credit Hour.

This course will introduce the changing information landscape in the biological sciences, and help students become advanced database and "free web" searchers. Students will also become familiar with the social and ethical issues relating to the production and use of scientific information in an increasingly digital society.

Cross-listed Courses: BIO 380

MEDIEVAL STUDIES MINOR

The medieval studies minor at Le Moyne College offers students the opportunity to explore the development of cultures and societies from the fifth through the 15th centuries. The student will examine the Middle Ages by studying across a variety of disciplines, including classical studies, history, literature, philosophy and religious studies.

The minor is designed to enable students to connect courses in several departments, allowing them to approach the medieval world from an interdisciplinary perspective. One of the strengths of the medieval studies minor at Le Moyne is the international breadth of course offerings available to students.

Students completing the medieval studies minor must take five courses from the list of approved courses; a minimum of four of those courses must focus explicitly on the Middle Ages. Students interested in the minor may contact Dr. Erin Mullally in the English department.

Code	Title	Credit Hours
Minor Requirements		
Two English electives focusing on the medieval period		6
One history or religious studies elective from the approved list		3
Select one of the following:		6
Two additional courses in any discipline focusing on the Middle Ages		
One course in medieval subject matter and one course in an adjacent historical period such as the Greek and Roman world or the European renaissance		
Total Credit Hours		15

The study of Latin is strongly encouraged. Three credits of Latin language instruction could be used towards the minor.

MIDDLE EAST AND ISLAMIC STUDIES MINOR

According to the Modern Language Association (MLA) the study of world language is booming in the US, yet only 1% study "critical languages" despite the growing needs of such skills for US national security agencies. Demand for Arabic and the study of the Arab world grew by 126.5% from 2002-2006 according to the MLA study, and again by 46.3% between 2006-2009. Over 400 million people speak Arabic in the world and 1.8 billion of the world's population identifies as Muslim. Students who complete a minor in Middle East and Islamic Studies will make themselves more marketable nationally and internationally, as the minor is interdisciplinary and reflects knowledge of a Middle Eastern language as well as the politics, history and religions of the Middle East and North Africa and/or the greater Islamic world. According to the Center for Strategic and International Studies, the US continues to have a national security strategy in the Middle East and North Africa (MENA) region, which in turn will call for experts on the region. A minor in Middle East and Islamic Studies will give graduate school and national agencies' applicants advantages over other candidates.

¹ Or proof of equivalent proficiency in any other Middle Eastern language at the beginning level, in which case you must take two courses from the above list thus the minor will be 15-17 credits.

Code	Title	Credit Hours
World Languages		
ARA 101	Elementary Arabic I ¹	4
	or ARA 201 Intermediate Arabic I	
	or ARA 301 Arabic Conversation	
ARA 102	Elementary Arabic II ¹	4
	or ARA 202 Intermediate Arabic II	
	or ARA 302 Arabic Conversation II	
Islamic Studies (Choose One)		3
REL 360	The Qur'an	
REL 365	Islam	
REL 366	Islamic Mysticism	
Middle East History and Politics (Choose One)		3
HST 350	State and Faith in the Middle East	
HST 377	Early Islamic History, 600-1300	
HST 378	Empires of Islam, 1300-1922	
HST 379	Modern Middle East History 1792- Present	
HST 417	Seminar: African History	
PSC 357	Politics of the Middle East	
REL 402	Jerusalem-The Politics of Sacred Space	
Electives (Choose One)		3
PSC 105	Comparative Politics	
PSC 261	International Politics	
PSC 367	War, Peace and Violence	
PHL 324	Philosophies of Judaism	
GWS 213	People&Cultures Southeast Asia	
GWS 314	Post-Colonial Literature and Theory	
REL 362	Judaism	
REL 383	Philosophies of Judaism	
REL 309	New Testament	
THE 201	Old Testament	

PEACE AND GLOBAL STUDIES

Chair: Matthew Loveland

Professor: Delia Popescu

Associate Professor: Matthew Loveland, Jonathan Parent

Professor of Practice: Anirban Acharya, James T. Snyder

Visiting Assistant Professor: Yunus Sozen

Professor Emeritus: J. Barron Boyd

Program Director: Delia Popescu

Peace and global studies is an interdisciplinary major designed to provide students with a way to understand the origins, challenges and ethical problems of the contemporary world. Students who take this major explore how the concepts of justice and peace are linked to issues of economics, labor relations, the environment, religion, gender and family, law and human rights, communications and culture.

As an interdisciplinary major, not all courses are offered by one department. Rather, courses are drawn from various fields in the humanities, (history, philosophy, religious studies) the social sciences (political science, anthropology, sociology) and world languages.

An important component of peace and global studies is the study of world languages. Majors are required to take six credits beyond intermediate in one language and pass a proficiency examination.

Peace and global studies majors are also required to take PGS 201 Introduction to Peace & Global Studies, and a capstone course. Peace and global studies majors are required to spend at least one semester abroad. They are also encouraged to participate in internship programs and service learning.

In addition to these requirements, peace and global studies majors are required to identify a thematic and regional specialization for their course of study. The letters T or R, listed at the end of course descriptions, indicate to which specialization the course is associated.

Thematic Specializations

Human Rights & Democratization

Violence

Peace and Reconciliation

International Relations

Cross-Cultural Encounters

Regional Specializations

Sub-Saharan Africa

Latin and South America

Europe

Asia

The Middle East & North Africa

Peace and global studies majors are well positioned to find careers in government service, non-governmental organizations or to pursue graduate studies and professional training in law, management and public policy.

Student Learning Outcomes in Peace & Global Studies

Global issues

PGS students are able to describe and analyze global political, social, economic, and cultural issues. This means they know details about the issue, particularly those with global significance, and are able to explain how international political relationships affect the issue in multiple international contexts. Assignments from several PGS courses are appropriate for assessment.

Specific region

PGS graduates will be knowledgeable of the social, cultural, and political aspects of a globalized world. In particular, they will be well versed about a country or region outside the United States. They will demonstrate this knowledge via papers written for a range of assignments.

World language

PGS graduates will be proficient in a world language. They will demonstrate this via a standardized language proficiency exam administered by the department of world languages.

- Peace and Global Studies Major (B.A.) (p. 102)
- Double Major (B.A.) in Peace and Global Studies and Political Science (p. 101)
- Peace and Global Studies Minor (p. 103)

Peace and Global Studies (PGS)

PGS 101. Introduction to Anthropology. 3 Credit Hours.

This course introduces students to the basic concepts, theories and methodologies in anthropology by focusing on the classic four fields of the discipline: physical anthropology, archaeology, linguistics and cultural anthropology. This course focuses on the evolution of the human species and theories of early culture, the reconstruction of the past through archaeological analysis, the structure and usage of language as part of culture, and the description and analysis of societies and cultures utilizing comparative theories and methodologies in cultural anthropology. No prerequisite. Fulfills Core requirement(s): DIV. Cross-listed Courses: ANT 101

PGS 102. World Cultures. 3 Credit Hours.

What is it like to grow up in New Guinea? How do the Maya fit into the world system? Where do the Massai go when looking for a mate? This is a survey course to make you aware of various social structures and cultural practices around the world. By systematically analyzing many socio-cultural factors, such as subsistence, family, kinship, gender, political system, and religion the course will illuminate basic similarities and differences among all peoples and cultures. Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE). Cross-listed Courses: ANT 102

PGS 105. Comparative Politics. 3 Credit Hours.

This course will introduce you to the comparative analysis of governments, political movements, institutions, cultures, and ideologies around the world. The course will comparatively address a variety of cases including the UK, France, Brazil, Iran, China, Russia, India, Nigeria, and the U.S.

Fulfills Core Requirement(s): DIV.

Cross-listed Courses: PSC 105

PGS 200. Cultural Myths and Cultural Realities. 3 Credit Hours.

This course focuses on how we study other, especially non-western, cultures. In it, we look at recent critical debates on the nature of anthropological inquiry and the representations of other cultures that anthropologists have constructed. Is anthropology a science or humanity? How accurate are the anthropologists' representations of other cultures? Why do anthropologists studying the same culture come up with very different pictures of that culture? How much of the anthropologist's own personal and cultural biases are revealed in the way other cultures are described? How does the anthropologist's own theoretical perspective affect the way the data are interpreted? Is the nature of anthropological inquiry such that we can never escape biases? What kinds of methodologies do anthropologists use and what are their limitations? How can restudies enable us to refine our methods and generate more sophisticated comparative categories to use in the understanding of cultures? Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: GWS 200, ANT 200

PGS 201. Introduction to Peace & Global Studies. 3 Credit Hours.

This course will provide an introduction to Peace and Global Studies. The first segment of the course will examine different ways of thinking about peace and different methodologies to achieve a peaceful world. It will be interdisciplinary, examining the problem of peace from spiritual, psychological, anthropological, literary, historical, and political perspectives. The second segment of the course covers a variety of global topics and issues that are either threats to peace, pose the potential to create serious and enduring threats to the well-being of people of the world, or offer possible solutions. Taken together, the two segments of the course introduce students to some of the different approaches to peace that they will encounter and will help them to evaluate critically those approaches and perspectives. They will also have some insight into the range and complexity of the issues that are global in scope.

PGS 202. Gender and Crime. 3 Credit Hours.

This interdisciplinary course examines crime and criminal justice as gendered phenomena. It explores how notions of masculinity and femininity shape and are shaped by criminalized practices, the operation of the criminal justice system, and our understandings of both. Focusing on gender does not mean focusing exclusively on women. Gender is a relational concept; both men and women are gendered. In this course we will consider the implications of feminist theorizing for a range of criminological concepts, approaches, and themes. Case studies from various social contexts (e.g. the U.S., Canada, Mexico, Brazil, etc.) will help students develop cultural sensitivity and a more complete understanding of our social world. Additionally, the course will develop students' ability to think critically about gender and crime from an intersectional standpoint. Historical and contemporary works by criminologists, anthropologists, sociologists, feminist theorists, and others will be reviewed. An auxiliary aim of this course is to develop students' capacity to read and write academic texts efficiently and effectively.

Fulfills Core Requirement(s): Diversity (DIV) and Interdisciplinary Studies (IDS).

Cross-listed Courses: CJS 202, ANT 202, SOC 202, GWS 202

PGS 203. Anthropology of War. 3 Credit Hours.

Why do wars happen? What causes violence to erupt between different groups of people? Are we, as humans, biologically predisposed for violence, or are we pushed towards violence based on the social structures around us? How are societal inequalities exacerbated by war? How do different groups negotiate conflicts to leverage more power or violence, or reduce levels of violence? How do we commemorate and remember war and the casualties of conflict? What do our memories about the past tell us about how power is societally distributed in the present? This course explores the role of warfare in cultural construction and expression using a four-field anthropological approach, evaluating archaeological, skeletal, ethnographic and linguistic evidence of war throughout human existence.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: ANT 203

PGS 213. People & Cultures Southeast Asia. 3 Credit Hours.

An anthropological and topical introduction to the region of Southeast Asia and the various societies and cultures found there. Topics to be discussed are: regional definition and intra-regional variation, ecology and economic systems, history and prehistory, social organization including politico-territorial systems and concepts of hierarchy and power, kinship and alliance systems, patron-client systems, ethnic groups and ethnicity, religions, gender systems, personality and communicative systems such as language and other conceptual and symbolic systems. The focus of the course will be on analyses that contrast with western views and that have provided a source of debate on western theories of society and culture. Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: GWS 213, ANT 213

PGS 223. Global Crime. 3 Credit Hours.

This course explores illegal activity and criminalization in the context of the destabilizing effects of globalization. The course considers the transnational dimension of crime in both the developed and postcolonial parts of the world, and its connections to our own everyday lives. The course will cover the growth and character of the extra-legal networks of power and finance that shape our contemporary world, and will examine their relations with state power, corporate business, and law enforcement activities. Finally, it introduces some of the challenges of both supra-state and popular responses to illegitimate activities that are shaped by global political economy.

Prerequisite: CJS 101 or ANT 101.

Fulfills Core Requirement: Diversity (DIV).

Cross-listed Courses: CJS 223, ANT 223

PGS 225. Gangs and Criminal Community. 3 Credit Hours.

This course introduces students to gang-life as an urban phenomenon that starts in the 19th century and that in the 2000s is diffused across the margins and illicit flows of the global economy. Students will read memoirs of members of gang communities, with attention to notions of agency and iconoclasm, situating gang life in a continuum of political resistance. We will also look at the history of modern transnational gangs as a view into the history of displacement, modern war, and the pre-history to the discourses surrounding "global terrorism", giving students the tools for a critical reading of current debates around state security, "organized crime", and sovereignty.

Cross-listed Courses: CJS 225, SOC 225

PGS 261. International Politics. 3 Credit Hours.

A survey of some major problems associated with international politics. Special attention also is given to the study of nationalism, the nation-state, international organization (especially the United Nations), comparative foreign policies of selected nations. An integrated one-credit service learning experience may be offered in conjunction with this course.

PGS 300. Anthropological Linguistics. 3 Credit Hours.

An introduction to the science of linguistics, focusing on the social and cultural aspects of language. Topics to be considered are: 1) language and human nature; 2) linguistic and non-linguistic forms of communication; literate and oral cultures; 4) the basic components of language; 5) meaning in language and speech; 6) language differentiation along sociological lines (race, class, gender, etc.); and 7) the relationship between language and cultural knowledge systems, especially those of non-western cultures. Fulfills Core Requirements: Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: WLC 301, ANT 300

PGS 303. Democracy and Its Critics. 3 Credit Hours.

The term "democracy" has become synonymous with legitimate rule. But what kind of democracy is the true fountain of legitimacy? What type of institutions are best fitted for instituting democracy? What are the conditions without which democracy cannot survive? Who is included in the phrase "we, the people"? Are democratic regimes more viable in homogenous or heterogeneous societies? Can democracy be tyrannical? This course investigates historical and contemporary controversies that reflect various challenges to democracy, the forms of actual democratic politics, and the meaning of "democracy" as a concept.

Fulfills Core Requirement(s): IDS.

Cross-listed Courses: PSC 303

PGS 304. Anthropology of Refugees. 3 Credit Hours.

This course offers a critical introduction to the heterogeneous global histories and contemporary world politics that shape the experience of refugees globally and in the United States. By reading a range of anthropological as well as other related theoretical texts, we will explore issues central to the field of refugee/forced migration studies. What experiences define a refugee? Who is included in the category "refugee," and who or what decides? What constitutes a refugee camp, and where do refugees go from a camp? How have refugees resettled in American cities fared in recent times? In approaching these questions, the course will focus on the topics of displacement, dispossession, statelessness, border crossings, emplacement, refugee rights, subjectivity, and aspirations. We will examine ethnographies of Palestinian refugees in refugee camps in Lebanon to foreground lived experiences of encampment; Cambodian refugees resettled in the Bronx, New York to understand the relationship between the United States and the refugees it willingly accepts; and the everyday experience of Somali refugees living in Lewiston, Maine to underscore how recently arrived refugees navigate everyday marginalization. We will also consider our local context of Syracuse, New York as a major site for refugee resettlement since the 1980s.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: ANT 304

PGS 313. Mexico in Its Arts & Literature. 3 Credit Hours.

Despite Mexico's geographical proximity, political relevance and economic importance to the United States, few countries are as poorly understood as is Mexico among Americans. As a result, few Americans appreciate their neighbor's historical odyssey, in search of political stability, national unity, democracy and economic prosperity. This course offers an introduction to 20th and 21st century literature and cultural production about modern Mexico. Emphasis will be placed on the way intellectuals, writers and artists whose novels, short stories, films, paintings deal with Mexico City's changing social and political landscape, and how these representations question themes and trends in national identity, state control, globalization and immigration. The course will provide a historical outline of the interaction between artists, the state, and national identity in Mexico. It will also challenge dominant narratives within Mexican history, through an examination of the experience of subaltern groups, including women and indigenous peoples. This course includes a travel component. Students must request permission of instructor via an application in order to register.

Prerequisite: SPN 202.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: SPN 413

PGS 314. Post-Colonial Literature and Theory. 3 Credit Hours.

This course will introduce students to theories of colonialism through the study of world literatures. What is the impact of colonization on a culture? How do questions of language, race, class, and gender impact the experience of colonialism? Students will read novels and short works from a variety of formerly subject nations, including India, Nigeria, Egypt, and Ireland. Short segments of theory will guide and accompany these readings.

Prerequisites: WRT 101, and ENG 200, ENG 210 or ENG 218.

Fulfills Core Requirement(s): DIV.

Cross-listed Courses: ENG 325, GWS 314

PGS 323. Contemporary World Literature in English. 3 Credit Hours.

Students will read major literary works in English by writers from Africa, Asia, and the Caribbean. The principal texts have been published since the 1980s, and address issues such as colonialism and postcolonialism, national identity, globalization, migration, economic exploitation, and gender and sexuality.

Prerequisites: WRT 101 and ENG 200 or 218.

PGS 325. Religious and Cultural Ecologies. 3 Credit Hours.

This course explores the rich diversity of religious and cultural ecologies found throughout much of the world. Religious and cultural ecologies refer to the scientific and scholarly studies of the vast, complex, diverse, and dynamic arena at the interfaces of religions and cultures on the one hand, and environments, ecologies and environmentalism on the other. The course asks the question of what roles, if any, the religious traditions of different cultures the world over might play in addressing the contemporary ecological crisis. This question is addressed from a combined religious studies and anthropological approach focusing on the intersections of religion, culture, and ecology from a textual, contextual, and cross-cultural or comparative framework.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: ANT 325

PGS 328. Latin America, Since 1825. 3 Credit Hours.

A study of the nations of Latin America from the independence period to the present. Chief emphasis on Argentina, Brazil, Chile and Mexico: their struggle for political and economic stability, their progressive urbanization and modernization and their relations with each other and with the United States. The Cuban and Nicaraguan revolutions and the policy of the United States toward Central America are also covered.

Cross-listed Courses: HST 428, PGS 428

PGS 329. History of Latin American Social Movements. 3 Credit Hours.

Will examine peaceful Latin American social change movements in historical and global context. The civil components of violent revolutions will be examined along with peaceful social movements that confronted ruthless dictatorships across Latin America, energizing democracy and expanding ethnic rights. The course will look at how these movements re-defined gender roles and placed the economic and environmental concerns of the poor in the international spotlight. Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: HST 329, GWS 329, PSC 329

PGS 330. Cross-Cultural Psychology. 3 Credit Hours.

Cross-cultural psychology is an approach emphasizing evaluation of psychological knowledge in the context of culture. Do the discoveries psychologists have made apply to all people from all cultures or only to some people, depending on culture? This course explores the impact of society and culture on human behavior, identity and personality development, social interaction norms, and even perceptual tendencies. We will examine what it means to say that humans are socio-cultural in nature. We will also examine those areas where humans differ, due to varied cultural experiences. Areas of interest will include education and development, views on intelligence, perceptual and cognitive processes, motivation, sex and gender and aggression. The examination of these issues will aid students in developing the ability to understand and interact with individuals and groups in other countries and in our own heterogeneous nation. Fulfills Core requirement(s): Diversity (DIV); and Interdisciplinary studies (IDS) *OR* Cultural Elective (CE). Course cannot fulfill all 3 requirements.

Cross-listed Courses: PSY 330

PGS 331. Readings in Globalization. 3 Credit Hours.

Through literature, film, and theory, this course explores the cultural and social significance of globalization and such related issues as migration, nationality, and identity. A central factor in globalization is the movement of people among different cultural locations and economic conditions, and this course will help students understand the importance of displacement in the creation of the contemporary era. Texts in this course consider what it means to identify with a plurality of linguistic, racial or cultural positions, and address the diverse yet deeply connected experiences that define contemporary global culture. Readings by authors such as Nuruddin Farah (Somalia), M.G. Vassanji (Kenya/Tanzania/Canada), and Zadie Smith (England), and films by directors such as Atom Egoyan (Canada), Hanif Kureishi (England), and Faith Akin (Germany/Turkey).

PGS 334. Social Activism. 3 Credit Hours.

An experiential and academic examination of social activism in the United States. The course first explores the meaning of citizenship and the role of activism in a democratic republic. It then focuses on how activism is done by analyzing various social movements and the impact they have had on citizenship, public policy and social change.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: GWS 334, PSC 334

PGS 335. Asian Philosophy. 3 Credit Hours.

An examination of the main philosophical traditions of India and the Far East: Hinduism, Buddhism, Taoism and Confucianism. This course will focus upon mysticism as a primary determinant of Eastern thought and will seek to place these philosophies in their historical and cultural setting. (C,D).

Cross-listed Courses: PHL 325

PGS 336. Comparative Religious Ethics & Social Concerns. 3 Credit Hours.

The course is a study in comparative religious ethics. The course will guide students through the ethical perspectives that eastern, western, and indigenous religious traditions have developed on four social issues facing our world: the construction of sexuality and gender, social justice, violence and the environment.

Prerequisite: REL 200.

Cross-listed Courses: REL 336

PGS 343. U.S. Latina Thought. 3 Credit Hours.

U.S. Third World women in general and Latinas in particular have raised important philosophical questions that have enriched philosophical and feminist considerations about the nature of the self, reality, knowledge and politics. This course will involve a close reading of a number of philosophical and literary texts by U.S. Latinas from a number of different social locations.

Cross-listed Courses: GWS 343

PGS 344. Immigration. 3 Credit Hours.

This course examines the topic of immigration from multiple perspectives: historical comparison between current and previous waves of immigrants, political debates over what we should do locally and nationally, the complex economic and social impacts of immigrants (both legal and unauthorized), the changing legal environment, comparative immigration policies, and the post-9/11 national security implications of immigration. This course aims to have you explore and challenge your own views, try to make sense of completing arguments and evidence, and gain a respect for perspectives not your own. A visit to the National Immigration Museum at Ellis Island may be planned.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PSC 344, SOC 343, CJS 343

PGS 350. State and Faith in the Middle East. 3 Credit Hours.

This course will examine how states used religion as a means of legitimacy and law as well as staged a desperate battle against religious forces from the Ottoman period until the present day. Islam will be the focus of the course, as a variety of fundamentalist/revivalist movements, the politicization of religion, and secularization efforts are examined throughout the Middle East. In addition, the role of Judaism and Christianity will be discussed in regards to the establishment and present situation of Israel and Lebanon.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: HST 350

PGS 357. Politics of the Middle East. 3 Credit Hours.

The goal of this course is to provide a nuanced understanding of Middle Eastern politics while fostering analytical skills. We will analyze contemporary political processes, starting from the establishment of nation-states and consolidation of authoritarianisms in the region, and working our way toward the Arab Spring and the authoritarian backlash that followed. Throughout the course, we will think about the key factors that shape politics in the region, specifically trying to critically think about 'Middle East exceptionalism' - the idea that authoritarianism is widespread and persistent in the region, more so than anywhere else in the world. This is a comparative politics course that integrates history with international relations through a comparative lens, and as a result, its focus is on the development of state-society relations. The topics covered here are pertinent to current international debates related to populism, nationalism, the rise of authoritarianism, and challenges to democracy and democratic institutions. Junior standing required. Fulfills Core Requirements: Interdisciplinary Studies (IDS) and Diversity (DIV).

Cross-listed Courses: PSC 357

PGS 358. The Cold War & Global Confront 1945-1964. 3 Credit Hours.

An intensive study of superpower confrontations and conflicts from 1945 through 1964. Soviet and American attitudes and ideologies, the roots and origins of the Cold War, the nuclear arms race, crises and clashes in Europe and the Third World, social and cultural impacts.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: HST 358

PGS 360. Model United Nations. 1 Credit Hour.

This course is designed to provide an orientation to the activities of the United Nations, as well as providing an understanding of the modalities of international diplomacy. This course will include current events, pressing international issues, the basics of international law and some of the protocol and procedures of diplomacy. All of this will assist students in preparing for their role as a distinguished diplomat at the National Model United Nations conference (conference attendance is not mandatory).

Cross-listed Courses: PSC 360

PGS 363. U.S. Foreign Policy. 3 Credit Hours.

This course will examine how the foreign policy of the United States is made. It will look at the sources of foreign policy, the factors which influence its formation, and the substance of past and present U.S. policies. A one-credit integrated service learning experience may be offered with this course.

Cross-listed Courses: PSC 363

PGS 364. International Law. 3 Credit Hours.

The course will examine the theory and practice of International Law (IL) with reference to various events, which shaped the development of international law in all its forms (norms, rules, principles, precedent, custom, treaties etc). The course will emphasize current international legal norms and possibilities for future development.

Cross-listed Courses: PSC 362, LGS 362

PGS 365. Religions of Asia. 3 Credit Hours.

The practices, beliefs and history of Hinduism, Buddhism (including Japanese developments) and Taoism will be examined in this course. Particular attention will be given to the relationship of each tradition to its cultural context in the course of history and to problems confronting each tradition in the modern world.

Prerequisite: REL 200.

Cross-listed Courses: REL 363

PGS 366. Globalization: the Politics of International Economic Relations. 3 Credit Hours.

This course focuses on the power relationships behind contemporary international economic events. Among the issues that will be addressed: trade and protectionism, multinational corporations, international debt, the opening of investment markets in Eastern Europe and Western Third World economic relations. The basic principles of macroeconomics and international finance will be covered.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PSC 366

PGS 367. War, Peace and Violence. 3 Credit Hours.

This course will examine the theory and practice of the Just War doctrine. At the most general level, we will be concerned with the debate between realists, just war theorists and pacifists over the moral character of war. More specific topics include the justification of defensive, pre-emptive and preventive wars; humanitarian intervention; the combatant/noncombatant distinction; the distinction between direct and "collateral" harm to civilians; sieges, blockades and economic sanctions; guerrilla warfare; terrorism and reprisals; nuclear deterrence; and various religious conceptions of war and peace, especially those found in various Christian pacifist and Islamic traditions.

Fulfills Core Requirement(s): IDS.

Cross-listed Courses: PSC 367

PGS 367S. War, Peace & Violence Service Learning. 1 Credit Hour.
Service learning experience.

PGS 369. Cold War & Global Upheaval, 1964-Present. 3 Credit Hours.
An intensive study of the later years of the Cold War and the post-Cold War period. Continued Soviet and American rivalry combined with efforts to control the nuclear arms race, Third World "proxy wars" such as Vietnam and Afghanistan, the collapse of the Iron Curtain and end of the Soviet Union, global adjustments to the development of a unipolar world, the rise of terrorism and jihadist tendencies, social and cultural impacts. Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: HST 359, PSC 359

PGS 370. International Courts & Global Justice. 3 Credit Hours.
This course combines almost three weeks of study abroad at The Hague University in the summer with Le Moyne-based sessions in the Fall. The course provides historical, analytical, as well as experiential education in the fields of genocide studies, justice, and conflict resolution through intensive workshops, lectures, simulations, and a case-study. We will focus on the meaning of justice and its various dimensions (do we seek retribution, restoration, or some transitional middle ground?), and on how the international pursuit of that justice is complicated by issues such as sovereignty, denial of genocide, on-going violence, and the rejection of international jurisdiction. The course consists of in-class "traditional" lectures at (built around the case study and all of the related facets of international justice), interactive sessions with international court personnel, jurists, and scholars, as well as visits to historical sites. Cross-listed Courses: PSC 370

PGS 375. The New Europe: Central & Eastern Europe. 3 Credit Hours.
This course provides a comparative analysis of the political systems in Eastern Europe from 1945 to the present. The goal of this course is to provide students with a broad perspective on the changes that took place in Eastern Europe over the last century with an emphasis on the period around and after the 1989 revolutions. Fulfills Core Requirement(s): IDS and DIV.

Cross-listed Courses: PSC 375

PGS 377. Security Studies. 3 Credit Hours.
The purpose of this course is to introduce a selection of the most important ideas that form the basis of security studies including the international political system, the state, the military, and war, and other prevailing concepts, organizing principles, military deployment patterns, legal regulations, and political relationships that determine the state of international security at the moment. The course will also explore the organization and functions of the U.S. Intelligence community, its interaction with national security policymakers, key issues about its workings, and the challenges it faces in defining its future role. Cross-listed Courses: PSC 377

PGS 379. Modern Middle East Hist 1792 - Present. 3 Credit Hours.
The last two hundred years have been a period of profound and often troubling change for the people of the Middle East. In this period, modern technology, rapid forms of travel and communication and new ideas and concepts challenged for many the certainties of religion, family, gender, and class. A fundamental feature of these two centuries has been the growing role of Europe and Europeans in the lives of the inhabitants of the Middle East. Imperialism, colonialism and nationalism set in motion a series of events that transformed the region from a place where two great empires, the Ottoman and Qajar held sway, into a dozen independent states like Turkey, Egypt, Israel, Syria, Iraq, Jordan and Iran. This course uses the words, art, literature and thought of local people to understand the way these changes interacted with the intellectual, social and cultural dimensions of Middle Eastern life. Fulfills Core Requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: HST 379

PGS 381. Christianity in Dialogue. 3 Credit Hours.
This course will explore contemporary dialogue between Christianity and other world religions, with the aim of helping students address basic questions that arise in the course of such inter-religious relationships. Students will explore some of the basic attitudes that Christian thinkers have taken toward respectful engagement of other faiths, as well as addressing the obstacles that hinder dialogue. Furthermore, Christian approaches to interfaith dialogue will be explored intensively with respect to one particular world religion or family of traditions, which may vary as the course is offered from year to year. We will enter into the contemporary dialogue between Christianity and Hinduism. Our study will focus on Hindu-Christian dialogue as it has been enacted in both personal and communal contexts. A further focus will address the performance of dialogue through the cross-cultural interpretation of canonical texts. Prerequisite/ Corequisite: REL 200.

PGS 388. Coca, Culture & Politics in Latin Amer. 3 Credit Hours.
Coca has been closely connected to religion and culture in Andean South America for millennia. The plant was both cultivated and controlled by the Inca and Spanish empires. Today, peasant coca growers are part of new Latin American political movements. Global demand for the drug cocaine, made from coca, finances insurgencies, civil wars, and criminal violence in Latin America. The United States and international bodies prosecute a "War on Drugs" that targets peasant growers and traditional use as much as it does criminal organizations. This course explores the local culture and international relations of coca and cocaine. It focuses on the Latin Americans who produce and consume coca and are victimized by the violence of both the drug trade and suppression efforts. Fulfills Core Requirement(s): Diversity (DIV); Interdisciplinary Studies (IDS) *OR* Cultural Elective (CE). Business Majors cannot use this course to fulfill both both IDS and CE. Cross-listed Courses: HST 388

PGS 389. Opium, Empire, and State in Asia. 3 Credit Hours.

Opium is an ancient medicine that became a mainstay for European traders in Asia and the keystone of their imperial economies. After opium opened Asian states to European influence it was established as an economic necessity for multi-national empires, emerging states, and insurgencies alike. This course looks at the political, economic, and social relations of opium in Asia and the world. It examines the connections between local production and global trade in the politics of native cultures, national governments, and international relations. At the end of the semester students will be able to look at today's headlines and understand their historical roots as well their future implications. Fulfills Core requirement(s): Diversity (DIV); and Interdisciplinary studies (IDS) *OR* Cultural Elective (CE). Course cannot fulfill all 3 requirements. Cross-listed Courses: HST 389, PSC 389

PGS 390. Independent Study. 3 Credit Hours.**PGS 399. Diversity in the City. 3 Credit Hours.**

Special Topic: The course focuses on the cultural, ethnic, religious and class diversity of Paris' changing landscape. Students will use Bourdieu, Goffman, Marx, and Simmel and other theorists to understand diversity, culture and identity by studying the diversity of "the city." Through readings, documentaries and a weeklong trip to Paris students will use sociological theories on society and culture to study diversity in the city. In particular the minority populations of the immigrant French communities, the recent North African immigrant communities, and the Muslim communities will be examined. This class will also explore how religious (Catholic and Muslim) as well as ethnic diversity shapes current debates on French and European citizenship. This class concludes with a 11-12 day trip to Paris that will include visits to the Eiffel Tower, Notre Dame, the Arab Institute, Luxembourg Gardens, La Mosque (Paris' mosque) and Jardin des Plantes. Cross-listed Courses: SOC 399

PGS 400. International Business. 3 Credit Hours.

The purpose of this course is to provide students with a foundation of the basic concepts and tools for the conduct of international business. Consideration is given to the managerial and operational opportunities and problems of the company operating internationally. Emphasis is on behavioral aspects and environmental factors influencing and affecting the use of international business strategies, the development of an international orientation. The role of international business as a contributor to the company's overall business objective achievement is stressed. Prerequisite: senior standing in business or permission of the instructor.

Cross-listed Courses: BUS 400

PGS 401. Seminar: Mexico. 3 Credit Hours.

This course provides a detailed study of Mexico from pre-Columbian times to the present day. Themes include Maya and Aztec civilizations, the Spanish conquest, Mexico under Spanish colonial rule, the independence movements of 1810-1823, the era of the Great Reforms, the Mexican Revolution of 1910, and political, social and economic developments in contemporary Mexico. Fulfills ENG/HST senior core requirement. Junior standing required. Fulfills Core requirement(s): Diversity (DIV); and Interdisciplinary studies (IDS) *OR* Cultural Elective (CE). Course cannot fulfill all 3 requirements. Cross-listed Courses: HST 403

PGS 402. Global Economic Issues. 3 Credit Hours.

Is globalization inevitable and irreversible? Who are the winners and losers? Globalization is the process of integration of markets, politics, and legal systems. Supporters of globalization believe it increases a nation's economic growth and expands opportunities for countries to trade and realize comparative advantages in their areas of strength. Opponents believe it increases inequality within and between nations, threatens employment and living standards, thwarts labor and environmental standards, and retards social progress. This course includes a description of the principles and practices of foreign trade; mechanisms of international payments; international trade policies, international trade and financial institutions; international cartels; and defines globalization; examines its impact on trade; movement of capital and labor; diffusion of knowledge and technology, and distribution of income in the world. Prerequisite: Either ECO 113 or ECO 114.

Cross-listed Courses: ECO 405

PGS 404. Jerusalem-The Politics of Sacred Space. 3 Credit Hours.

These courses are designed to investigate the presuppositions, structures and images that underlie the human attempt to understand basic religious issues. Through various unifying foci (such as the question of God, theory and praxis, faith and justice, etc.), students will be enabled to come to a reflective understanding of their own religious assumptions and values in the context of their previous years of study. The courses will have a seminar format, with an emphasis on student discussion and active integration of material through class presentations and written work. Cross-listed Courses: REL 402

PGS 405. International Human Rights. 3 Credit Hours.

This course will examine the development of human right in the international system. It will explore the content of the current international human right regime -the "blue" social and political rights and the "red" economic rights, as well as "green" rights to development, a clean environment, and peace. It will explore how rights develop and are propagated and will examine the role of governments, international organizations, and non-governmental organizations in the development of rights thinking. By way of illustration, it will examine the anti-apartheid struggle in South Africa and the expansion of women's rights over the last twenty years. A one-credit integrated service learning experience may be offered with this course. Cross-listed Courses: GWS 405, PSC 405

PGS 406. Modern East Asia. 3 Credit Hours.

This course studies the history of China, Japan, Korea and Vietnam during the nineteenth and twentieth centuries, with emphasis on their customs and cultures and the impact on them of modernization, imperialism, revolution and war. A seminar project and oral report are required of all students. Fulfills ENG/HST senior core requirement. Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE). Cross-listed Courses: HST 406

PGS 408. Religion, Conflict, Peace/African Context. 3 Credit Hours.

This course is designed to introduce the class to basic questions, patterns, and contemporary issues on religion, justice, and peace in an African context. As such, the course will not be centered on the presentation of a particular narrative, thematic or structural account of the history of the multiple conflict situations in Africa. On the contrary, it is the aim of this course to take a case-study approach to the problems affecting Africa. In the light of the perspectives on Peace and Global Studies Program at Le Moyne College, we shall focus on ethnicity, religion and justice in conflict situation in African problems, it will also seek to acquaint students with how some of the socio-economic, political and religious problems affecting the continent go back to the colonial period. Cross-listed Courses: REL 400

PGS 409. Self Knowledge, Cosmopolis & Transcendence. 3 Credit Hours.

This course pays close attention to our own historicity. Each participant will make a conscious attempt to be authentic in responding to the question, who am I, and to engage the question of the meaning of their own identity and existence in relation to the cosmos, transcendence, and society. The selected readings and pedagogy employed will serve as a maieutic- midwife- in the Socratic sense; inspiring the student to articulate who he or she is, and how she ought to live with others, care for the earth, and collaborate in originating creative healing social and environmental structures. In this connection we will engage the significance and implications of the following phenomenon: "to equip an animal with intelligence constitutes not only the possibility of culture and of science but also the possibility of every abomination that has occurred in the course of human history".

PGS 413. History & Memory in Palestine-Israeli Conflict. 3 Credit Hours.

This seminar explores the Palestinian-Israeli conflict through the lens of the linked concepts of history and memory. It uses as well, the rich literature generated by the conflict to explore the connections between historiography, commemoration, museology, archaeology and power; it takes a multidisciplinary approach to an understanding of how the history of the region has been written and how the past is made to live in the lives of contemporary Palestinians and Israelis. Likewise, it interrogates how history and memory are inscribed on national and diasporan identity and problematizes phenomena like "collective memory" "transgenerational trauma" and "national history." Fulfills ENG/ HST senior core requirement. Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: HST 409

PGS 417. Seminar: African History. 3 Credit Hours.

This course introduces students to the development of African historiography. Students will interpret, analyze and critique different methodologies and have the opportunity to pursue their own specific research interests. In addition, this course will also examine the importance of the African oral tradition, European and Arabic travel literature, archeology and anthropology in the intellectual construction of Africa. This course is designed for upper-level history majors and other interested students and will fulfill the requirements of the senior core. Fulfills Core Requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: HST 417, PSC 417

PGS 428. Latin America, Since 1825. 3 Credit Hours.

A study of the nations of Latin America from the independence period to the present. Chief emphasis on Argentina, Brazil, Chile and Mexico: their struggle for political and economic stability, their progressive urbanization and modernization and their relations with each other and with the United States. The Cuban and Nicaraguan revolutions and the policy of the United States toward Central America are also covered. Fulfills Core Requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: HST 428, PGS 328

PGS 450. Spanish Women Writers. 3 Credit Hours.

In this course students will explore different aspects related to the literary expression and construction of identity through the study of works by women writers both from Spain and Latin America who practice a variety of genres; autobiography, novel, short story and poetry. Through the analysis of these texts we will derive interdisciplinary discussions related to the construction of gender, sexuality and feminine creativity. We will examine not only the form and the content of the texts, but we will also contextualize the works in their historical, cultural and literary background. Through the use of secondary texts such as paintings, documentaries, musical compositions and film, the students will explore the different forms of art and disciplines that intersect with the texts and project the worldview of each period.

Cross-listed Courses: GWS 360, SPN 451

Double Major (B.A.) in Peace and Global Studies and Political Science

Code	Title	Credit Hours
Core Requirements (p. 61)		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
Capstone Course		3
Capstone Experience ¹		3
Electives - Regional ²		9
Electives - Thematic ²		9
World Language		18
Free Electives ³		17

PGS 101	Introduction to Anthropology	3
PGS 201	Introduction to Peace & Global Studies	3
PSC 201	Introduction to Political Science	3
PSC 202	Methods of Political Science	3
PSC Electives (300 or higher)		6
Social Science (fulfilled by major requirements)		
Statistics		4
Total Credit Hours		133

¹ Normally fulfilled by study abroad experience.

² Twelve of the 18 credit hours should be courses with PGS/PSC cross listing.

³ Students are urged to fulfill the extra two credit hours through participation in service learning courses.

Peace and Global Studies Major (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
Capstone Course ²		3
Capstone Experience ³		3
World Language ⁴		18
PGS 201	Introduction to Peace & Global Studies	3
Electives		
Regional Specialization ⁵		12
Thematic Specialization		12
Free Electives		27
Total Credits		120

¹ Some Core requirements may be fulfilled by major requirements.

² Course designated by Peace and Global Studies Program

³ Majors are required to spend at least one semester abroad in an officially recognized academic program. The director of peace and global studies may waive this requirement in special circumstances.

⁴ World Language: Students are required to take six credit hours beyond intermediate in one living world language and demonstrate at least an intermediate level of proficiency according to ACTFL oral proficiency guidelines.

⁵ Supported regional specializations include Africa, Latin and South America, Europe, Asia and the Middle East.

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
EAC Encountering Another Culture/Language (p. 61)		3
Regional Specialization		3
Natural Science (p. 61)		3
Credit Hours		15
Second Semester		
ENG/PHL		3
HST 110	World Civilization I	3
EAC Encountering Another Culture/Language (p. 61)		3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
Free Elective		3
Credit Hours		15
Sophomore Year		
First Semester		
ENG/PHL		3
EAC Encountering Another Culture/Language (p. 61)		3
PGS 201	Introduction to Peace & Global Studies	3
Thematic Specialization		3
Free Elective/REL		3
Credit Hours		15
Second Semester		
ENG/PHL		3
EAC Encountering Another Culture/Language (p. 61)		3
Regional Specialization		3
Free Elective		3
Free Elective/REL		3
Credit Hours		15
Junior Year		
First Semester		
ENG/PHL		3
EAC Encountering Another Culture/Language (p. 61)		3
Regional Specialization		3
Free Elective		3
Capstone Experience		3
Credit Hours		15
Second Semester		
HST 111	World Civilization II	3

EAC Encountering Another Culture/Language (p. 61)	3
Thematic Specialization	3
Free Elective	3
Free Elective	3
Credit Hours	15
Senior Year	
First Semester	
IDS Interdisciplinary Studies (p. 61)	3
Capstone Seminar	3
Thematic Specialization	3
Free Elective	3
Free Elective	3
Credit Hours	15
Second Semester	
Regional Specialization	3
Free Elective	3
Free Elective	3
Free Elective	3
COR 400 Senior Studies: Transformations	3
Credit Hours	15
Total Credit Hours	120

All peace and global studies majors are encouraged to study abroad during their junior year.

Peace and Global Studies Minor

The minor in peace and global studies is open to all majors and those students interested in gaining a global perspective on issues of history, culture, politics and conflict resolution. Minors are required to attain an intermediate proficiency in one living world language and take both PGS 201 Introduction to Peace & Global Studies and a PGS capstone seminar. Minors must take four additional courses approved by the director of peace and global studies.

Code	Title	Credit Hours
PGS 201	Introduction to Peace & Global Studies	3
PGS capstone seminar		3
Four additional courses approved by the director of peace and global studies		12
Total Credit Hours		18

Supported thematic specializations include, but are not limited to, Human Rights and Democratization, Violence, International Relations, Cross-cultural Encounters and Peace and Reconciliation.

Peace and global studies majors will design an appropriate course of study with the director of peace and global studies.

PHILOSOPHY & COMPUTER SCIENCE MINOR

This new minor program represents an interdisciplinary and multi-disciplinary approach for combining computer science and philosophy. Utilizing computing technologies while having a better understanding of the theory of knowledge and ethical considerations is at the heart of this program. This minor program is designed to be taken by students in any major and is one of the new ERIE21-funded programs designed to provide students with a range of options for developing computing technology capabilities.

A student must complete the following requirements.

Code	Title	Credit Hours
One of the following courses in logic.		3
PHL 310	Critical Reasoning	
PHL 311	Introduction to Formal Logic	
One of the following courses in Epistemology or Advanced Ethics.		3
Qualifying Epistemology courses are:		
PHL 352	Critical Theory & Technological Society	
PHL 358	Philosophy of Race	
PHL 362	Theory of Knowledge	
PHL 364	Philosophy of Science	
Qualifying Advanced Courses in Ethics are:		
PHL 359	Ethics of Medical Technology	
PHL 348	Social & Political Philosophy	
Or other applied ethics courses with approval by the Chair of the PHL department.		
CSC 101	Introduction to Digital Technologies	3
Two courses from the Computer Science course offerings, with approval from the Chair of Computer Science.		6-8
One of these courses could be replaced with an independent study combining PHL and CSC content, with approval of both Chairs.		

VISUAL DESIGN MINOR

This minor program represents an interdisciplinary and multi-disciplinary approach to the world of visual design. From a digital technologies perspective, this program emphasizes web and graphic design. This minor program is designed to be taken by students in any major and is one of the new ERIE21-funded programs designed to provide students with a range of options for developing computing technology capabilities.

A student must complete any five of the following courses.

Code	Title	Credit Hours
CTS 101	Introduction to Digital Technologies	3
CTS 120	Introduction to Visual Design	3
CTS 123	Web Design & Development	3
CTS 223	Web Scripting & Services	3
CTS 229	Visual Design Capstone Project	3
Any one of the following:		
ART 223	Digital Illustration	
CMM 308	Media Layout and Design	
Any one of the following:		
ART 240	Black and White Photography	
ART 243	Color Photography	
ART 247	Studio Photography	
ART 248	Fantasy Photography	
CMM 205	Intro to Video Production	
CMM 208	Frame to Frame: Concepts in Motion	
CMM 307	Communications Photography	
CMM 378	Creative Advertising	

GRADUATE PROGRAM PATHWAYS

Graduate program pathways allow students to continue directly into graduate programs at Le Moyne or with an affiliated institution upon completion of the student's undergraduate degree program at Le Moyne.

Internal Graduate Program Pathways

3+2 Pathway to Physician Assistant Program at Le Moyne College

Affiliated Institution: Le Moyne College

Eligible Students: Le Moyne college juniors majoring in Biological Sciences who meet requirements

Degrees Awarded: Bachelor's degree in Biological Sciences (after completing first year in P.A. program) and Master's degree (M.S.) in physician assistant studies; both degrees from Le Moyne College

Length: Three years as an undergraduate in Biological Sciences and two years as a graduate student in Physician Assistant Studies

Contact: Chair of the Health Professions Advisory Committee

4+1 Dual Bachelor's/Master's Degree in Information Systems, Express Path, at Le Moyne College

The College's MSIS Express Path program allows students to earn their undergraduate degree in any field in four years and their MSIS at Le Moyne College in just one additional year of study. When they graduate, our alumni are distinguished by their ability to lead and to tackle complex issues as they respond to the needs of an ever-changing world.

The timeline for the 4+1 Dual Bachelor's/MSIS Program Express Path is as follows:

March 1 of the junior year - complete the MSIS application process for admission by providing: application form, two letters of recommendation, and a personal statement. Students must have a 3.3 grade-point average. Neither the GMAT nor the GRE are required. (Notification of pre-approved admission to the Express Path will be made on a rolling basis. Final admission to the MSIS program will be conditional on completion of your undergraduate program.)

Upon completion of the junior year - Students will show fulfillment, or will fulfill, the two foundation graduate course requirements with a grade of "B" or better (or their undergraduate equivalents: see below) for the MSIS Program: MIS 501 (<http://collegecatalog.lemoyne.edu/search/?P=MIS%20501>) Management Information Systems and MIS 601 (<http://collegecatalog.lemoyne.edu/search/?P=MIS%20601>) Information Strategy and Management. This may be achieved in several ways. A maximum of 9 graduate credit hours (i.e., three graduate level courses) may be taken upon completion of a student's junior year.

Summer or Fall after completing undergraduate requirements - The remainder of the 30 MSIS credit hours can be completed in 12 months if the student is enrolled full time during the fall, spring, and summer semesters, as well as during the J-mester and Maymester. Students may also complete the program on a part-time basis.

To view the M.S. requirements, visit the Information Systems (M.S.) Program page (<http://collegecatalog.lemoyne.edu/madden-business/>

[msis/information-systems-ms/](http://collegecatalog.lemoyne.edu/madden-business/)). For more information, please contact Dr. Martha Grabowski, Information Systems Program Director.

Accelerated Path into Master of Science in Arts Administration at Le Moyne College

Affiliated Institution: Le Moyne College

Eligible Students: All Le Moyne College Undergraduates

Degrees Awarded: Bachelor's degree in chosen discipline and Master's degree (M.S.) in arts administration; both degrees from Le Moyne College

Length: Four years as an undergraduate in chosen discipline (with Arts Administration Minor) and 15 months as a graduate student in Arts Administration (assuming full-time study).

Contact: Director of Arts Administration Program

Direct Entry Programs

The direct entry programs allow students to apply for admission to Le Moyne College graduate programs during the senior year of high school. The programs allow students to diversify their educational experiences at Le Moyne with the confidence that they are guaranteed admission to a graduate degree program at Le Moyne College after successfully completing the admission requirements.

Advising Path for B.S. PSY to M.S. OT

Bachelor of Science in Psychology and Master of Science in Occupational Therapy

The psychology and occupational therapy departments at Le Moyne College are partnering to offer a specially designed program that provides an opportunity for an express path to participation in the occupational therapy program. Students pursuing the Psychology BS/Occupational Therapy MS program will be invited to participate in activities in the OT department and will be granted preferential consideration as long as they demonstrate successful completion of the pre-requisites (and satisfy all other requirements) for the Master of Science in Occupational Therapy. For details see the chair of the psychology or occupational therapy departments.

Direct Entry Program - Le Moyne College Occupational Therapy

Affiliated Institution: Le Moyne College

Eligible Students: Those who meet the requirements (see details under Psychology Major or Sociology Major) and wish to become occupational therapists.

Degrees Awarded: Bachelor's degree in either Psychology or Sociology and Master's degree (M.S.) in occupational therapy studies; both degrees from Le Moyne College

Direct Entry Program - Le Moyne College Physician Assistant

Affiliated Institution: Le Moyne College

Eligible Students: Those who meet requirements and wish to become physician assistants. (Students must apply as high school seniors and be accepted to the program before beginning their freshman year at Le Moyne.)

Degrees Awarded: Bachelor's degree in Biological Sciences (after completing first year in PA program) and Master's degree (M.S.) in physician assistant studies; both degrees from Le Moyne College

Length: Three years as an undergraduate in Biological Sciences and two years as a graduate student in Physician Assistant Studies

Contact: Chair of the Health Professions Advisory Committee

Admission Options for Physician Assistant Studies

Post-baccalaureate – For individuals who have already earned a bachelor's degree or will have earned one by the time the program begins.

Accelerated – A five-year (3+2) B.S./M.S. curriculum with application to the physician assistant studies program in the student's junior year (available only to Le Moyne students).

Direct entry – There are two options for early acceptance to exceptional high school students wishing to accelerate their academic and career paths to become physician assistants. Students will complete a Bachelor of Science in biological sciences and Master of Science in Physician Assistant Studies and have the option of following a 3+2 accelerated pathway or a 4+2 pathway which allows for a fourth year to participate in a study abroad semester, academic minors, collegiate sports or other Le Moyne academic and personal-growth experiences. Application to either direct entry option is made during the senior year of high school and is available only to first-year students.

External Graduate Program Pathway Partnerships

3+3 Doctor of Physical Therapy Pathway with the State University of New York (SUNY) Upstate Medical University

Affiliated Institution: SUNY Upstate Medical University

Eligible Le Moyne Students: Those who meet requirements and wish to pursue studies in physical therapy. (Students must apply as high school seniors and be accepted to the program before beginning their freshman year at Le Moyne.)

Degrees Awarded: Bachelor's degree (B.A.) in Biological Sciences from Le Moyne (after completing first year in physical therapy program) and doctoral degree in physical therapy (D.P.T.) from SUNY Upstate Medical University

Length: Three years at Le Moyne and three years at SUNY Upstate Medical University

Contact: Chair of the Health Professions Advisory Committee

3+4 Podiatry Pathway with the New York College of Podiatric Medicine

Affiliated Institution: The New York College of Podiatric Medicine

Eligible Students: Those who meet requirements and wish to pursue studies in podiatry.

Degrees Awarded: Bachelor's degree (B.S.) in Biological Sciences from Le Moyne (after completing first year of podiatry school) and Doctor of Podiatric Medicine (D.P.M.) degree from the New York College of Podiatric Medicine

Length: Three years at Le Moyne and four years at the New York College of Podiatric Medicine

Contact: Chair of the Health Professions Advisory Committee

3+4 Optometry Pathway with the Pennsylvania College of Optometry at Salus University

Affiliated Institution: Pennsylvania College of Optometry at Salus University

Eligible Students: Those who meet requirements and wish to pursue optometry studies.

Degrees Awarded: Bachelor's of Science degree in Biological Sciences from Le Moyne (after completing first year of optometry school) and Doctor of Optometry (O.D.) degree from Pennsylvania College of Optometry at Salus University

Length: Three years at Le Moyne and four years at Salus University

Contact: Chair of the Health Professions Advisory Committee

Four-One Forensic Sciences Pathway with Syracuse University

Affiliated Institution: Forensics and National Security Sciences Institute of Syracuse University

Eligible Students: Students with a GPA of at least 3.0 majoring in biological science or chemistry interested in forensics.

Degrees Awarded: Bachelor of Science degree in biology or chemistry from Le Moyne and Master of Science degree in forensic science or biomedical forensic sciences from Syracuse University.

Length: Four years at Le Moyne (with additional courses at Syracuse University) and at least one full year at Syracuse University.

Contact: Chair of the Department of Biological Sciences or chair of the Department of Chemistry and Physics.

4+1 Fast Track Dual Bachelor's/Master's Degree in Information Systems, with Syracuse University

B.S. Business Administration/Information Systems

Le Moyne College

M.S., Information Management

Syracuse University, School of Information Studies

This program allows Le Moyne students with a major in Business Administration/Information Systems, a major in Computer Science, or a dual major in Information Systems and Computer Science (SASD) to complete a Master's degree program in Information Management at Syracuse University by taking Syracuse University graduate courses as early as their junior year at Le Moyne College.

Students complete the program with one or two semesters of additional course work beyond their Le Moyne undergraduate program. For example, they may take graduate courses at Syracuse University in the summer of their junior year, and complete the program in the summer or fall immediately following their graduation from Le Moyne. Le Moyne students enrolled in the 4+1 Fast Track program can participate in internships through Le Moyne and/or Syracuse University, and are supported with a graduate assistantship at Syracuse during their time at S.U.

The agreement also stipulates that Le Moyne students in the 4+1 program will be charged Le Moyne tuition for their S.U. courses, rather than S.U. tuition. For students who come in with transfer, I.B. or AP credit, this could mean that they may be able to graduate on time with both the bachelor's degree from Le Moyne and a master's degree from S.U. and no change in status with respect to their financial aid.

For more information, please contact Dr. Martha Grabowski, Information Systems Program Director.

Dual Bachelor's/Master's Degree in Engineering Partnership

Affiliated Institution: Syracuse University

Eligible Students: Those meeting requirements

Degrees Awarded: Bachelor's degree (B.S. or B.A.) with a concentration in pre-engineering from Le Moyne College and master's of engineering (M.S.) from Syracuse University (Ten individual major concentrations. Please see the appropriate section of the catalog for details concerning the individual major concentrations.)

Length: Four years at Le Moyne College and three semesters at Syracuse University

Contact: Director of Engineering Programs, Chair of the Department of Physics, Biology, Chemistry, or Mathematics & Computer Science, depending on the concentration.

Students participating in the Syracuse University Bachelor's/Master's Degree in Engineering Partnership must choose the appropriate pre-engineering concentration within the appropriate major. Please see the Physics, Biology, Chemistry, or Mathematics & Computer Science sections of this catalog for typical programs.

Students who successfully complete their Le Moyne bachelor's degree program with a concentration in pre-engineering with both an overall 3.0 G.P.A. and a 3.0 G.P.A. in their science, mathematics and engineering courses, are eligible for pre-admission into the appropriate master's degree program at Syracuse University and a 50 percent waiver on their master's degree tuition, subject to the terms of the agreement with Syracuse University. The master's degree will typically be completed in an additional three semesters after graduation from Le Moyne.

Permission to register for courses at Syracuse University required by the individual pre-engineering degree concentrations is at the discretion of the director of pre-engineering programs, and will be contingent upon satisfactory academic performance. Students must have both a 3.0 G.P.A. in all mathematics, science and engineering courses, and a 3.0 G.P.A. overall, through the end of the semester prior to the semester in which registration takes place, in order to be permitted to register for engineering courses at Syracuse University for a given term. In addition, students must successfully maintain both 3.0 averages through the end of the term prior to the term in which the course(s) at Syracuse University are to be taken in order to be permitted to maintain that registration and take the course(s). Exceptions may be granted at the discretion of the program director.

- Biological Sciences (B.A.) and BioEngineering (M.S.) (p. 148)
- Environmental Science Systems (B.S.) and Environmental Engineering Science (M.S.) (p. 156)
- Computer Science (B.S.) with a Concentration in Pre-Engineering: Computer Science/Computer Engineering (p. 176)
- Chemistry (B.S.) with a Concentration in Pre-Engineering: Chemical Engineering (p. 167)
- Physics (B.S.) with a Concentration in Pre-Engineering: Civil with Geotechnical Focus (p. 273)
- Physics (B.S.) with a Concentration in Pre-Engineering: Civil with Structural Focus (p. 274)
- Physics (B.S.) with a Concentration in Pre-Engineering: Electrical Focus (p. 274)

- Physics (B.S.) with a Concentration in Pre-Engineering: Environmental Focus (p. 275)
- Physics (B.S.) with a Concentration in Pre-Engineering: Mechanical and Aerospace Focus (p. 276)

Early Assurance Programs

Early assurance programs allow students to apply for early admission to an affiliated graduate school after completion of their sophomore year at Le Moyne. The programs allow students to diversify their educational experiences at Le Moyne with the confidence that they are guaranteed admission to the affiliated graduate program after earning a bachelor's degree at Le Moyne College.

Early Assurance Program - Le Moyne/State University of New York (SUNY) at Buffalo School of Dental Medicine

Affiliated Institution: SUNY at Buffalo School of Dental Medicine Program

Eligible Students: Qualified sophomores

Degrees Awarded: Bachelor's degree (B.S.) from Le Moyne and Doctor of Dental Surgery (D.D.S.) degree from SUNY at Buffalo School of Dental Medicine Program

Length: Four years at Le Moyne and four years at SUNY at Buffalo School of Dental Medicine Program

Contact: Chair of the Health Professions Advisory Committee

Early Assurance Program - Le Moyne/ College of Medicine at the State University of New York (SUNY) Upstate Medical University

Affiliated Institution: Upstate Medical University

Eligible Students: Qualified sophomores

Degrees Awarded: Bachelor's degree (B.S.) from Le Moyne and Doctor of Medicine (M.D.) degree from Upstate Medical University

Length: Four years at Le Moyne and four years at Upstate Medical University

Contact: Chair of the Health Professions Advisory Committee

Three/Three Undergraduate (B.A.)/Juris Doctor (J.D.) Pathways

Three/Three Juris Doctor (J.D.) with Suffolk University Law School

Affiliated Institution: Suffolk University, Boston, Massachusetts.

Eligible Le Moyne Students: Those who wish to pursue the study of Law and meet the requirements of Le Moyne's 3+3 Agreement with Suffolk University Law School.

Degrees Awarded: Bachelor's degree (B.A.) in Political Science, English, History, Philosophy, or Psychology from Le Moyne (after completing the first year of law school), and a Juris Doctor (J.D.) degree in Law from Suffolk University Law School.

Estimated Time To Completion: Three years at Le Moyne College and three years at Suffolk University Law School.

Full description of terms and conditions of the Agreement found at:

<https://www.lemoyne.edu/Academics/Undergraduate-Programs/Pre-Law/Three-Plus-Law> (<https://www.lemoyne.edu/Academics/Undergraduate-Programs/Pre-Law/Three-Plus-Law/>)

Contact: Director of the Le Moyne 3+3 Pre-Law Committee.

Three/Three Juris Doctor (J.D.) with Syracuse University College of Law

Affiliated Institution: Syracuse University College of Law, Syracuse, New York.

Eligible Le Moyne Students: Those who wish to pursue the study of Law and meet the requirements of Le Moyne's 3+3 Agreement with Syracuse University College of Law.

Degrees Awarded: Bachelor's degree (B.A.) in Political Science, English, History, Philosophy, or Psychology from Le Moyne (after completing the first year of law school), and a Juris Doctor (J.D.) degree in Law from Syracuse University.

Estimated Time To Completion: Three years at Le Moyne College and three years at Syracuse University College of Law.

Full description of terms and conditions of the Agreement found at:

<https://www.lemoyne.edu/Academics/Undergraduate-Programs/Pre-Law/Three-Plus-Law> (<https://www.lemoyne.edu/Academics/Undergraduate-Programs/Pre-Law/Three-Plus-Law/>)

Contact: Director of the Le Moyne 3+3 Pre-Law Committee.

Three/Three Juris Doctor (J.D.) with the University at Buffalo School of Law

Affiliated Institution: University at Buffalo School of Law, Buffalo, New York.

Eligible Le Moyne Students: Those who wish to pursue the study of Law and meet the requirements of Le Moyne's 3+3 Agreement with the University at Buffalo School of Law.

Degrees Awarded: Bachelor's degree (B.A.) in Political Science, English, History, Philosophy, or Psychology from Le Moyne (after completing the first year of law school), and a Juris Doctor (J.D.) degree in Law from the University at Buffalo School of Law.

Estimated Time To Completion: Three years at Le Moyne College and three years at the University at Buffalo School of Law.

Full description of terms and conditions of the Agreement found at:

<https://www.lemoyne.edu/Academics/Undergraduate-Programs/Pre-Law/Three-Plus-Law> (<https://www.lemoyne.edu/Academics/Undergraduate-Programs/Pre-Law/Three-Plus-Law/>)

Contact: Director of the Le Moyne 3+3 Pre-Law Committee.

Three/Three Juris Doctor (J.D.) with the Albany Law School

Affiliated Institution: Albany Law School, Albany, New York.

Eligible Le Moyne Students: Those who wish to pursue the study of Law and meet the requirements of Le Moyne's 3+3 Agreement with the Albany Law School.

Degrees Awarded: Bachelor's degree (B.A.) in Political Science, English, History, Philosophy, or Psychology from Le Moyne (after completing the first year of law school), and a Juris Doctor (J.D.) degree in Law from the Albany Law School.

Estimated Time To Completion: Three years at Le Moyne College and three years at the Albany Law School.

Full description of terms and conditions of the Agreement found at:

<https://www.lemoyne.edu/Academics/Undergraduate-Programs/Pre-Law/Three-Plus-Law> (<https://www.lemoyne.edu/Academics/Undergraduate-Programs/Pre-Law/Three-Plus-Law/>)

Contact: Director of the Le Moyne 3+3 Pre-Law Committee.

External Undergraduate Program Pathway Partnership for Allied Health Professions

SUNY Upstate Medical University

Qualified Le Moyne students may apply to transfer into a variety of programs offered at Upstate (respiratory therapy, medical imaging (radiography, CT and MRI, ultrasound), medical biotechnology, medical technology, radiation therapy). Most of these Upstate programs would begin after students had completed their sophomore year at Le Moyne, would be approximately two years in length, and would lead to a Bachelor of Science degree from Upstate. For all programs, students would have to complete certain academic and non-academic prerequisites, and have achieved certain minimum grade point averages in order to be able to transfer to Upstate.

Contact: Chair of the Health Professions Advisory Committee

COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is at the core of who we are and what we do at Le Moyne. It is the academic center and intellectual hub of our Jesuit college, committed to transformative education rooted in the liberal arts (<http://www.lemoyne.edu/Learn/Colleges-Schools-Centers/College-of-Arts-Sciences/Why-Arts-Sciences/>). We are home to an array of engaging academic majors (<https://www.lemoyne.edu/Academics/Colleges-Schools-Centers/College-of-Arts-Sciences/>) and nationally-recognized scholars and artists. Our talented faculty (<http://www.lemoyne.edu/Learn/Faculty-by-Department/>) and staff have an unwavering commitment to maintaining a supportive learning environment and to delivering a rigorous, high-quality, student-centered education in the Jesuit tradition (<http://www.lemoyne.edu/Values/Heritage-and-Commitment/>). Our collective goal is to prepare our graduates to excel in their chosen fields and to become ethical, conscientious, and globally-focused citizens who promote a more peaceful and just society.

Undergraduate students may pursue a broad range of academic majors and minors across the humanities, natural sciences, social sciences, and visual and performing arts. All undergraduate students in the College of Arts and Sciences share a common, liberal arts Core Curriculum. We offer Bachelor of Arts (B.A.) degrees in twenty disciplines, Bachelor of Science (B.S.) degrees in nine fields, and more than a dozen specialized minor programs of study. Students have several opportunities to complete more than one major within the College or to choose a degree path that leads to a Bachelor's degree (B.A. or B.S.) with Teacher Certification or a combined Bachelor of Arts and Master of Science in Teaching (B.A./M.S.T.). In addition, the College offers a Master of Science (M.S.) degree in arts administration, a post-baccalaureate certificate in arts administration, and advising pathways into the Madden School's Master of Business Administration (M.B.A.) program and the Purcell School's Master of Science (M.S.) in Occupational Therapy program. The College also participates in a Bachelor's/Master's dual degree partnership in engineering, 3+3 Bachelor's/Juris Doctor's joint degree partnerships in law, and 4+1 Bachelor's/Master's joint degree partnerships in information sciences and in forensic science, along with other accelerated Bachelor's/Master's degree programs and priority partnerships with highly-respected graduate programs. More detailed information about these opportunities is available with descriptions of specific majors and in the Graduate Program Pathways section of this catalog.

ANTHROPOLOGY, CRIMINOLOGY AND SOCIOLOGY

Chair: Frank Ridzi

Program Director: Alison Marganski (of Criminology), Deborah Tooker (of Anthropology)

Professor: Jeffrey Chin, Clifford Donn, Deborah Tooker

Associate Professor: Alison Marganski, Frank Ridzi, Farha Ternikar

Assistant Professor: Porche' Whitby

Adjunct Faculty: Emera Bridger-Wilson, Crystal Collette, LMSW, Douglas Macdonald, Derek McGork, Mary Patricia Radford, Amy Roache-Fedchenko, David E. Robertson, Jr., James E. Stacey, Margaret Wehrer, Ian Wilson

The Department of Anthropology, Criminology & Sociology offers a major in sociology with five concentrations (human services, criminology, theory and research, dual childhood and special education, and anthropology), an interdisciplinary major, criminology, as well as minors in anthropology, sociology, and criminology.

Student Learning Outcomes in Criminology

Theory

1. Theory: Students will apply theoretical perspectives to understand criminal offending, criminal victimization, and/or criminal events according to professional standards in the field. This will include that students:

- Define theory and describe its role in building criminological knowledge.
- Compare and contrast theoretical knowledge from different disciplinary perspectives (e.g. biological theories, psychological theories, sociological theories, etc.); work may recognize variation across disciplinary perspectives and/or within disciplinary perspectives.
- Apply theories or theoretical approaches to understand criminality or related phenomenon and discuss how the selected theories or approaches inform solutions.

Methods

2. Methods: Students will resolve empirical research problems using methodological knowledge and skills according to professional standards in the field. This will include that students:

- Identify basic methodological approaches and describe the general role of methods in building criminological knowledge.
- Compare and contrast the basic methodological approaches for gathering data.
- Design a research study in an area of choice and explain why various decisions were made.
- Critically assess a published research report and explain the study's strengths and weaknesses.

Professional Socialization

3. Professional Socialization: Students will gather and evaluate relevant information according to professional standards in the field. This will include that students:

- Describe what criminology is and give examples of how it offers a multidimensional approach to studying criminal offending, criminal victimization, and/or criminal events.
- Articulate the contribution of criminology to a liberal arts understanding of social problems and justice-oriented solutions.
- Apply principles and concepts in criminology to at least one social problem and offer respective solutions.

Communication

4. Communication: Communicate effectively in a variety of situations according to professional standards in the field.

Critical thinking

5. Critical thinking: Students will comprehensively evaluate issues and ideas arising in the field before accepting or making informed conclusions. This will include that students:

- Demonstrate skills in recall, analysis, application, synthesis, and evaluation.
- Explain how human behavior is influenced by individual, relational, community, societal and/or cultural factors.
- Identify underlying assumptions in theoretical orientations or arguments.
- Identify underlying assumptions in particular methodological approaches to an issue.
- Interpret statistical data.
- Consider how research findings reflect back on theory and/or inform solutions.

Student Learning Outcomes in Sociology

Theory

1. Theory: Students will Apply theoretical perspectives to a variety of social phenomena according to professional standards in the field. This will include:

- Define theory and describe its role in building sociological knowledge.
- Compare and contrast basic theoretical knowledge.
- Demonstrate the historical/cultural context in which theories were developed.
- Apply basic theories or theoretical approaches in at least one area of social reality.

Methods

2. Methods: Students will resolve empirical research problems using methodological knowledge and skills according to professional standards in the field. This will include:

- Identify basic methodological approaches and describe the general role of methods in building sociological knowledge.
- Compare and contrast the basic methodological approaches for gathering data.
- Design a research study in an area of choice and explain why various decisions were made.
- Critically assess a published research report and explain how the study could have been improved.

Professional Socialization

3. Professional Socialization: Students will gather and evaluate relevant information according to professional standards in the field. This will include:

- Describe how sociology is similar or different from other social sciences and give examples of these differences.
- Articulate the contribution of sociology to a liberal arts understanding of social reality.
- Apply principles, concepts and the sociological imagination to at least one area of social reality.

Communication

4. Communication: Communicate effectively in a variety of situations according to professional standards in the field.

Critical thinking

5. Critical thinking: Students will comprehensively evaluate issues and ideas arising in the field before accepting or making informed conclusions. This will include:

- Demonstrate skills in recall, analysis and application, and synthesis and evaluation.
- Identify underlying assumptions in theoretical orientations or arguments.
- Identify underlying assumptions in particular methodological approaches to an issue.
- Show how patterns of thought and knowledge are directly influenced by political and economic social structures.
- Present opposing viewpoints and alternative hypotheses.
- Engage in teamwork where many different points of view are presented.

- Sociology Major (B.A.) (p. 122)
- Sociology Minor (p. 128)
- Direct Entry Pathway: B.A. SOC to M.S. OT (p. 128)
- Criminology Major (B.A.) (p. 130)
- Criminology Minor (p. 131)
- Anthropology Minor (p. 132)
- Race in American Society Minor (p. 132)

Anthropology (ANT)

ANT 101. Introduction to Anthropology. 3 Credit Hours.

This course introduces students to the basic concepts, theories and methodologies in anthropology by focusing on the classic four fields of the discipline: physical anthropology, archaeology, linguistics and cultural anthropology. This course focuses on the evolution of the human species and theories of early culture, the reconstruction of the past through archaeological analysis, the structure and usage of language as part of culture, and the description and analysis of societies and cultures utilizing comparative theories and methodologies in cultural anthropology. No prerequisite. Fulfills Core requirement(s): DIV.

Cross-listed Courses: PGS 101

ANT 102. World Cultures. 3 Credit Hours.

What is it like to grow up in New Guinea? How do the Maya fit into the world system? Where do the Massai go when looking for a mate? This is a survey course to make you aware of various social structures and cultural practices around the world. By systematically analyzing many socio-cultural factors, such as subsistence, family, kinship, gender, political system, and religion the course will illuminate basic similarities and differences among all peoples and cultures. Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).
Cross-listed Courses: PGS 102

ANT 200. Cultural Myths and Cultural Realities. 3 Credit Hours.

This course focuses on how we study other, especially non-western, cultures. In it, we look at recent critical debates on the nature of anthropological inquiry and the representations of other cultures that anthropologists have constructed. Is anthropology a science or humanity? How accurate are the anthropologists' representations of other cultures? Why do anthropologists studying the same culture come up with very different pictures of that culture? How much of the anthropologist's own personal and cultural biases are revealed in the way other cultures are described? How does the anthropologist's own theoretical perspective affect the way the data are interpreted? Is the nature of anthropological inquiry such that we can never escape biases? What kinds of methodologies do anthropologists use and what are their limitations? How can restudies enable us to refine our methods and generate more sophisticated comparative categories to use in the understanding of cultures? Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: PGS 200, GWS 200

ANT 201. Field Methods. 3 Credit Hours.

This course will introduce students to the basic methods of anthropological research, and the range of techniques for gathering information that we call ethnographic fieldwork. We will ask how this tradition began, how it has changed through the course of the 20th century to present, and what new technologies make available new possibilities as we document cultural forms in a variety of scenarios and settings. We will try our hand at key methods in ethnographic research such as participant-observation, structured and unstructured interviewing, and then make our way to thinking about photography and video technologies in the realm of digital media, asking how these have been used in cultural representation in the past and what we might attempt with them in the present. While we cover a breadth of scholarly articles about ethnographic research and working with human subjects, this class will also develop as a workshop in which students produce ethnographic writing, and actively evaluate and guide one another's work. Students will apply what they learn during the course toward designing their own ethnographic research project, to be presented at the end of the semester.

ANT 202. Gender and Crime. 3 Credit Hours.

This interdisciplinary course examines crime and criminal justice as gendered phenomena. It explores how notions of masculinity and femininity shape and are shaped by criminalized practices, the operation of the criminal justice system, and our understandings of both. Focusing on gender does not mean focusing exclusively on women. Gender is a relational concept; both men and women are gendered. In this course we will consider the implications of feminist theorizing for a range of criminological concepts, approaches, and themes. Case studies from various social contexts (e.g. the U.S., Canada, Mexico, Brazil, etc.) will help students develop cultural sensitivity and a more complete understanding of our social world. Additionally, the course will develop students' ability to think critically about gender and crime from an intersectional standpoint. Historical and contemporary works by criminologists, anthropologists, sociologists, feminist theorists, and others will be reviewed. An auxiliary aim of this course is to develop students' capacity to read and write academic texts efficiently and effectively.

Fulfills Core Requirement(s): Diversity (DIV) and Interdisciplinary Studies (IDS).

Cross-listed Courses: CJS 202, SOC 202, PGS 202, GWS 202

ANT 203. Anthropology of War. 3 Credit Hours.

Why do wars happen? What causes violence to erupt between different groups of people? Are we, as humans, biologically predisposed for violence, or are we pushed towards violence based on the social structures around us? How are societal inequalities exacerbated by war? How do different groups negotiate conflicts to leverage more power or violence, or reduce levels of violence? How do we commemorate and remember war and the casualties of conflict? What do our memories about the past tell us about how power is societally distributed in the present? This course explores the role of warfare in cultural construction and expression using a four-field anthropological approach, evaluating archaeological, skeletal, ethnographic and linguistic evidence of war throughout human existence.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PGS 203

ANT 213. People & Cultures Southeast Asia. 3 Credit Hours.

An anthropological and topical introduction to the region of Southeast Asia and the various societies and cultures found there. Topics to be discussed are: regional definition and intra-regional variation, ecology and economic systems, history and prehistory, social organization including politico-territorial systems and concepts of hierarchy and power, kinship and alliance systems, patron-client systems, ethnic groups and ethnicity, religions, gender systems, personality and communicative systems such as language and other conceptual and symbolic systems. The focus of the course will be on analyses that contrast with western views and that have provided a source of debate on western theories of society and culture. Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: GWS 213, PGS 213

ANT 223. Global Crime. 3 Credit Hours.

This course explores illegal activity and criminalization in the context of the destabilizing effects of globalization. The course considers the transnational dimension of crime in both the developed and postcolonial parts of the world, and its connections to our own everyday lives. The course will cover the growth and character of the extra-legal networks of power and finance that shape our contemporary world, and will examine their relations with state power, corporate business, and law enforcement activities. Finally, it introduces some of the challenges of both supra-state and popular responses to illegitimate activities that are shaped by global political economy. Fulfills Core Requirement: Diversity (DIV).

Prerequisite: CJS 101 or ANT 101.

Cross-listed Courses: CJS 223, PGS 223

ANT 231. Environment, Culture and Power. 3 Credit Hours.

This course looks at issues in human interaction with environment and resources from a cross-cultural perspective. Anthropological approaches to environment will be presented along with ethnographic examples from various types of societies around the world. Assignments will encourage students to apply this knowledge both to their own community and to environmental concerns on a global scale. Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

ANT 300. Anthropological Linguistics. 3 Credit Hours.

An introduction to the science of linguistics, focusing on the social and cultural aspects of language. Topics to be considered are: 1) language and human nature; 2) linguistic and non-linguistic forms of communication; literate and oral cultures; 4) the basic components of language; 5) meaning in language and speech; 6) language differentiation along sociological lines (race, class, gender, etc.); and 7) the relationship between language and cultural knowledge systems, especially those of non-western cultures. Fulfills Core Requirements: Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: WLC 301, PGS 300

ANT 303. Social Theory in Anthro/Sociol. 3 Credit Hours.

This course explores sociological and anthropological theory by studying a number of the classical thinkers in the disciplines. We study the origins of and interrelationships among these theories in their particular social and historical milieus, as well as their relevance to sociology and anthropology today. The student is expected to gain both a competence in the historical development of social scientific theory and an ability to theorize about social phenomena. Fulfills Core requirement(s): DIV. Prerequisites: SOC 201 (CJS 201/PSC 202) or ANT/GWS/PGS 200 or permission of instructor.

Cross-listed Courses: SOC 303

ANT 304. Anthropology of Refugees. 3 Credit Hours.

This course offers a critical introduction to the heterogeneous global histories and contemporary world politics that shape the experience of refugees globally and in the United States. By reading a range of anthropological as well as other related theoretical texts, we will explore issues central to the field of refugee/forced migration studies. What experiences define a refugee? Who is included in the category "refugee," and who or what decides? What constitutes a refugee camp, and where do refugees go from a camp? How have refugees resettled in American cities fared in recent times? In approaching these questions, the course will focus on the topics of displacement, dispossession, statelessness, border crossings, emplacement, refugee rights, subjectivity, and aspirations. We will examine ethnographies of Palestinian refugees in refugee camps in Lebanon to foreground lived experiences of encampment; Cambodian refugees resettled in the Bronx, New York to understand the relationship between the United States and the refugees it willingly accepts; and the everyday experience of Somali refugees living in Lewiston, Maine to underscore how recently arrived refugees navigate everyday marginalization. We will also consider our local context of Syracuse, New York as a major site for refugee resettlement since the 1980s.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PGS 304

ANT 310. Religion and Healing. 3 Credit Hours.

This course is an exploration of the plurality of cultural and religious contexts in which healing occurs with the goal of enabling students to appreciate the overlap between the fields of medicine and religion. We research the understandings that religions and healing systems, both traditional and modern, have of the human condition, of health and illness and of acceptable ways of maintaining and restoring health. We look at how religious readings, guest lectures, and field trips, students become exposed to alternative and complementary forms of medicine, and healing practices and the religious and spiritual worldviews that give shape to them.

ANT 325. Religious and Cultural Ecologies. 3 Credit Hours.

This course explores the rich diversity of religious and cultural ecologies found throughout much of the world. Religious and cultural ecologies refer to the scientific and scholarly studies of the vast, complex, diverse, and dynamic arena at the interfaces of religions and cultures on the one hand, and environments, ecologies and environmentalism on the other. The course asks the question of what roles, if any, the religious traditions of different cultures the world over might play in addressing the contemporary ecological crisis. This question is addressed from a combined religious studies and anthropological approach focusing on the intersections of religion, culture, and ecology from a textual, contextual, and cross-cultural or comparative framework.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: PGS 325

ANT 390. Independent Study in Anthropol. 1-3 Credit Hours.

A student who wishes to pursue an independent study project in anthropology for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the academic dean. It will be kept on file in the academic dean's office.

ANT 410. Culture & Reproductive Health & Medicine. 3 Credit Hours.

This course examines diverse ways in which societies throughout the globe view and manage human reproduction and the implications this has for health care and medicine. The emphasis will be primarily, though not exclusively, on women's reproductive health throughout the life cycle, including puberty, sex, pregnancy, family planning, childbirth, infertility, and menopause. The course also explores changes in reproductive health care in the context of globalization and considers how an understanding of the influence of culture on reproductive health is crucial for the development of international public health policy and practice.

Cross-listed Courses: CCM 410, CCM 510

ANT 416. Medical Anthropology in Ecological Perspective. 3 Credit Hours.

This course explores the interaction of biological and cultural factors in disease causation, diagnosis, and treatment in Western and non-Western societies. The introduction of Western medicine to non-Western cultures is examined. After taking this course, students will be able to: describe the interaction of biological & cultural factors in the etiology, manifestation, and outcome of diseases cross-culturally; explain the psychosomatic basis of health & healing; describe the methods and efficacy of non-Western healers and view illness and healing in historical, evolutionary, and ecological perspectives. Permission of instructor required before registration. Fulfills Core requirement(s): DIV.

Cross-listed Courses: CCM 416, CCM 516

ANT 490. Internship in Anthropology. 1-6 Credit Hours.

Participation in a field learning experience closely related to one of the areas of anthropology. The student intern will meet regularly with his or her supervisor in the agency and/or will report as required to the faculty member assigned to supervise the field experience. Students are expected to apply what they have learned in the academic program to the field experience. An evaluation of the field experience will also be required. The internship and placement must be approved by the instructor. Three hours of field work per week are required to generate one credit hour. The number of credit hours to be awarded must be contracted prior to registration.

ANT 496. Honors Project in Anthropology. 3-6 Credit Hours.

The nature of the project is determined by the mentor and the student. The due dates for each draft as well as the number of credit hours the student is to receive is contracted prior to registration.

ANT 499. Research in Anthropology. 3-6 Credit Hours.

An upper-level student who wishes to undertake an anthropological research project for academic credit during a given semester must submit a research proposal prior to registration and a research report at the end of the semester. The proposal must be approved by the research director, the department chair and the assistant academic vice president and dean. The proposal will be kept on file in the assistant academic vice president's office.

Criminology (CJS)

CJS 100. Contemporary Issues in American Politics. 3 Credit Hours.

A study of several important issues in contemporary American society and of the manner in which they are being handled by our political system. Among the issues covered are: the energy crisis, nuclear energy, toxic wastes, inflation, recession, government spending, crime, military spending, the arms race and the new religious right. This course does not fulfill requirements for a major in political science; it will carry credit toward a minor.

Cross-listed Courses: PSC 100

CJS 101. Introduction to Criminology. 3 Credit Hours.

This course offers an interdisciplinary exploration of crime, its causes and notions of justice. The concepts of crime and justice will be explored drawing on writings from the humanities (English literature, philosophy, religious studies, history) and research from the social sciences (sociology, anthropology, economics, political science and psychology).

CJS 201. Research Methods. 3 Credit Hours.

This course is an introduction to the research methodologies employed by social scientists. Major analytic issues covered in the course include measurement validity and reliability, the grounds for making causal inferences, sampling and research ethics. Major techniques to be studied include participant observation, survey research, experimentation, intensive interviewing and evaluation research. Required of all sociology/criminology majors.

Prerequisites: ANT 101, ANT 102, SOC 101, CJS 101 or PSC 101 and MTH 111.

Cross-listed Courses: PSC 202, SOC 201

CJS 202. Gender and Crime. 3 Credit Hours.

This interdisciplinary course examines crime and criminal justice as gendered phenomena. It explores how notions of masculinity and femininity shape and are shaped by criminalized practices, the operation of the criminal justice system, and our understandings of both. Focusing on gender does not mean focusing exclusively on women. Gender is a relational concept; both men and women are gendered. In this course we will consider the implications of feminist theorizing for a range of criminological concepts, approaches, and themes. Case studies from various social contexts (e.g. the U.S., Canada, Mexico, Brazil, etc.) will help students develop cultural sensitivity and a more complete understanding of our social world. Additionally, the course will develop students' ability to think critically about gender and crime from an intersectional standpoint. Historical and contemporary works by criminologists, anthropologists, sociologists, feminist theorists, and others will be reviewed. An auxiliary aim of this course is to develop students' capacity to read and write academic texts efficiently and effectively.

Fulfills Core Requirement(s): Diversity (DIV) and Interdisciplinary Studies (IDS).

Cross-listed Courses: ANT 202, SOC 202, PGS 202, GWS 202

CJS 220. The Criminal Justice System. 3 Credit Hours.

This course examines the criminal justice system and its effects on individuals within the system. It also considers the criminal justice systems effects on individuals both inside and outside the system with respect to the commission of crime.

Prerequisite: SOC 305 recommended.

Cross-listed Courses: LGS 220, SOC 220

CJS 223. Global Crime. 3 Credit Hours.

This course explores illegal activity and criminalization in the context of the destabilizing effects of globalization. The course considers the transnational dimension of crime in both the developed and postcolonial parts of the world, and its connections to our own everyday lives. The course will cover the growth and character of the extra-legal networks of power and finance that shape our contemporary world, and will examine their relations with state power, corporate business, and law enforcement activities. Finally, it introduces some of the challenges of both supra-state and popular responses to illegitimate activities that are shaped by global political economy.

Prerequisite: CJS 101 or ANT 101.

Fulfills Core Requirement: Diversity (DIV).

Cross-listed Courses: ANT 223, PGS 223

CJS 225. Gangs and Criminal Community. 3 Credit Hours.

This course introduces students to gang-life as an urban phenomenon that starts in the 19th century and that in the 2000s is diffused across the margins and illicit flows of the global economy. Students will read memoirs of members of gang communities, with attention to notions of agency and iconoclasm, situating gang life in a continuum of political resistance. We will also look at the history of modern transnational gangs as a view into the history of displacement, modern war, and the pre-history to the discourses surrounding "global terrorism", giving students the tools for a critical reading of current debates around state security, "organized crime", and sovereignty. Fulfills Core requirement(s): DIV.

Cross-listed Courses: SOC 225, PGS 225

CJS 226. Extreme Murder. 3 Credit Hours.

This course examines the phenomenon of extreme murder. In particular, serial killers, spree killers, and mass murderers - as well as the circumstances surrounding these events - are explored. Other egregious types of offenders may also be reviewed. Throughout the duration of the course, students will learn about infamous killers as well as those who are less recognized in media and popular culture, and the impact of the crimes on persons and society. Students in this course will study copious cases and take a multidimensional approach to critically examine risk factors/causes underlying such violence. In addition to discussing offenders, victims and the context within which victims and offenders interact (the criminal event perspective) will be analyzed. Special attention will be given to sex and gender, among other variables such as race and class. Students will also explore theory and give thought to deterministic, social, cultural, and other explanations. Importantly, they will come to understand how criminological and sociological research has contributed to knowledge (e.g. through qualitative and quantitative techniques) and shaped practice (e.g. criminal profiling, risk assessment, proactive policing, victim-services, etc.).

Cross-listed Courses: SOC 226, GWS 226

CJS 232. Family Violence. 3 Credit Hours.

Using sociological perspectives, this course will examine family violence including the abuse of partners, children and elders. It will focus on understanding the origins and the larger forces leading to and reinforcing family violence, and as well as on the microdynamics of violence within families. It will also examine how family violence varies across differences such as race/ethnicity, sexual orientation and disability.

Cross-listed Courses: GWS 232, SOC 232

CJS 244. Race and Ethnic Relations. 3 Credit Hours.

Race and ethnicity are a significant aspect of American society, especially as one of the main modes of social stratification. This class will introduce students to the major sociological perspectives on race and ethnicity and will further develop their sociological understanding of and critical thinking about race in the United States. This class will also encourage students to examine race in the U.S., with an emphasis on class, gender and urban life. At the end of this class, students should be familiar with the social importance that race and ethnicity play in everyday life.

Cross-listed Courses: SOC 244, GWS 244

CJS 255. Criminal Investigation. 3 Credit Hours.

Do you intend to work in the field of criminal justice? Then it's critical to read about and learn from research, as practitioners in today's world transform knowledge into action. Criminal investigation will provide a basic understanding of criminal investigation including the history of criminal investigation, investigative techniques used for different types of crimes (violent and property), basics of evidence collection and analysis, responsibilities of investigators, intelligence gathering, and the legal aspects of criminal investigation. Additionally, the course will cover research, policy, and evidence-based practices that are increasingly being considered in the field in order for students to learn to recognize the value of translating research into practice.

Prerequisite: ANT 101, SOC 101 or CJS 101.

CJS 301. Crime & Punishment From a Comparative Perspective. 3 Credit Hours.

This course uses social science, historical, activist, and cross-cultural perspectives to consider the process of criminalization-how certain acts come to be defined as crimes, and certain categories of people come to be considered criminals-as well as social responses to crime. This course will treat the relative concept of "crime" as a social force with special consideration on how it relates to power; legitimacy; citizenship; rights; and the social inequalities of race, class, and gender. Critical exploration of these connections is applied to current challenges and ways of addressing them.

Prerequisites: CJS 101, ANT 101, or ANT 102, or permission of instructor.

Cross-listed Courses: GWS 301

CJS 305. Criminological Theory. 3 Credit Hours.

Criminology is the scientific study of crime and criminal behavior. Various theoretical perspectives (e.g. psychological, biological, sociological, etc.) are reviewed, along with their respective solutions, for crime and criminality in American society. Different types of offenses are also explored (e.g. violent crime, property crime, victimless crime, corporate crime, etc.). By critically examining theories of crime causation, students gain an understanding of the social forces which shape and contribute to the commission of crime and criminal events in American society. Prerequisites: ANT 101 or CJS 101 or SOC 101 or permission of the instructor.

Cross-listed Courses: SOC 305

CJS 321. Law, Society & Social Science. 3 Credit Hours.

The structure and functions of law as an institution are analyzed from the perspectives of classical and contemporary social scientific theories. The legal processes of the assignment of responsibility, the resolution of disputes, the distribution of social rewards and the imposition of sanctions are studied in cross-cultural perspective. Attention is also focused on the use of social scientific knowledge by legal institutions. Prerequisites: ANT 101 or CJS 101 or PSC 101 or SOC 101 and MTH 110 or MTH 111 or STA 201 or the equivalent.

Cross-listed Courses: LGS 321, SOC 321

CJS 322. Economics of Crime and Punishment. 3 Credit Hours.

This course examines contemporary issues of crime, punishment, and criminal justice from an economic perspective. Basic economic concepts such as rational choice, opportunity costs, cost-benefit analysis, and supply and demand provide insights into criminal justice concerns. Public policies for crime control are assessed with consideration of underlying economic realities and economic effects. Contemporary topics may include effectiveness of alternative crime control measures and 'tough on crime' public policies, costs, and benefits of incarceration, the war on drugs, gun control, and capital punishment. Readings are drawn from the Social Sciences; with the focus on applying economic methods to evaluate criminal justice issues. No prerequisites.

Cross-listed Courses: ECO 322, SOC 322

CJS 323. Juvenile Delinquency. 3 Credit Hours.

After examining the causes of delinquency among juveniles and the various ways of treating delinquents, the second part of the course focuses on juvenile court: the history of the juvenile court movement, current procedures employed by the juvenile court and its relationship with other community agencies that deal with delinquents.

Cross-listed Courses: SOC 323

CJS 326. Deviance. 3 Credit Hours.

This course covers major theories in the field of deviance. Students will become familiar with classical, positivist, functionalist, strain, social disorganization, social control, social learning, interactionist, critical, feminist and conflict theories. Students will also gain experience critiquing social science research and learn the fundamentals of designing social science research projects.

Prerequisite: SOC 101 or CJS 101.

Cross-listed Courses: SOC 326

CJS 335. Psychology and the Law. 3 Credit Hours.

The legal system is a pervasive and important part of our lives. The goal of this course is to help students develop an understanding of the psychological aspects of the functioning of the system and the effects of the legal system on us. This course will address the social psychological aspects that impact and are impacted by the legal system. Students will develop an understanding of many issues, including how psychologists contribute to the law and the legal system, psychological theories of crime, psychological issues related to the selection and performance of police officers, the dynamics of eyewitness testimony, jury selection and performance and confessions. Junior standing required.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: LGS 335, PSY 335

CJS 343. Immigration. 3 Credit Hours.

This course examines the topic of immigration from multiple perspectives: historical comparison between current and previous waves of immigrants, political debates over what we should do locally and nationally, the complex economic and social impacts of immigrants (both legal and unauthorized), the changing legal environment, comparative immigration policies, and the post-9/11 national security implications of immigration. This course aims to have you explore and challenge your own views, try to make sense of completing arguments and evidence, and gain a respect for perspectives not your own. A visit to the National Immigration Museum at Ellis Island may be planned. Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PSC 344, PGS 344, SOC 343

CJS 345. Conflict Resolution. 3 Credit Hours.

This course will introduce students to the field of conflict resolution. It will include an overview of the history and theories of the field and some of the major critiques of present theories and practices. The course also will provide students with an understanding of the spectrum of role professionals in conflict resolution undertake. Students will gain selected conflict resolution skills and come to understand conflict experientially by participating in three role plays demonstrating issues associated with inter-personal, inter-group and organizational conflict.

Prerequisites: SOC 101, CJS 101, ANT 101, ANT 102, or EDU 105.

Cross-listed Courses: SOC 345

CJS 351. Victimology. 3 Credit Hours.

This course analyzes and scientifically examines the physical, emotional, and financial impact of crime on its victims. Specific types of victims and crime will be studied, including homicide, sexual assault, domestic violence, child maltreatment, elder abuse, and assault. This in-depth course requires the student to analyze restitution issues, the treatment of victims by the criminal justice system, victims' rights legislation, and contemporary trends in the treatment of victims.

Prerequisites: SOC 101, CJS 101, PSY 101 or GWS 101.

Cross-listed Courses: SOC 351

CJS 381. Understanding Modern Terrorism. 3 Credit Hours.

This course is designed to introduce students to the academic understanding of terrorism. Through this course students will come to understand the motivations underlying terrorist behavior on an individual and structural level. In addition, the student will become more aware of the role of the U.S. in world affairs and the reaction from other countries regarding this involvement. The impact of these two areas on terrorist behaviors will be analyzed. Through readings of both historical events and academic research, students will become more aware of the influences on the rise, success, and the end of terrorist campaigns.

Prerequisites: CJS 101 and CJS 305 or CJS 323 or junior status.

CJS 390. Independent Study in Criminology. 1-3 Credit Hours.

A student who wishes to pursue an independent study project in criminology for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the Dean of Arts & Sciences. It will be kept on file in the Dean's office.

CJS 396. Race, Gender and Justice. 3 Credit Hours.

This course critically examines major theories, research findings, policies, and controversies concerning race, gender, and crime in the context of social justice. In terms of disciplinary affirmation, the focus is on criminology theory, but with a predisposition towards ways in which questions of social justice can be viewed from a sociological perspective. The first objective of the course is to debunk the myth that there is a cast iron boundary between questions of criminal justices and social justice. Along with this objective is the need to provide students who are interested in pursuing a criminal justice career an awareness of key discourses in criminology in conjunction with a keen sense of empathy required for the maintenance of social order in an increasingly diversified universe. The second objective of the course is to explore how theoretical insights can provide the tools for making sense of the vast amount of data and information on crime and the criminal justice system especially as it relates to debates and contestation on questions of race, ethnicity, and gender. Students will get the opportunity to explore the main sources used for research. This will enable us to achieve our third objective; in what ways can our findings inform social policy in the desire to provide equal justice for all. We shall conclude our exploration by returning to our starting place: Can race, ethnicity, and gender be useful analytic categories?

CJS 450. Advanced Seminar in Criminology. 3 Credit Hours.

This course is designed to advance the students understanding of criminological thought. Students will be introduced to the classics of criminology through an examination of the original works. Building upon prior classes in criminological theory, the current class discusses the theoretical importance, empirical status, and policy implications for a range of theories ranging from structural theories to trait theories.

Prerequisites: SOC 305 or SOC 323.

CJS 451. Capstone Course in Criminology and Sociology. 3 Credit Hours.

This is the capstone course for the criminology and sociology curricula. The course provides a forum where students can demonstrate mastery of the tools acquired throughout their curricula including content knowledge and skills for conducting social science research. Students will examine topics of interest, review the scholarly literature on these topics and conduct empirical research that answers one or more questions on these topics. The final product of this course is a piece of scholarly/professional writing.

Prerequisites: CJS 101 or SOC 101, MTH 111, CJS or SOC 201, and SOC 303 or CJS 305.

Cross-listed Courses: SOC 451

CJS 490. Internship in Criminology. 1-6 Credit Hours.

Participation in a field learning experience closely related to one of the areas of criminology or sociology. The student intern will meet regularly with his or her supervisor in the agency and/or will report as required to the faculty member assigned to supervise the field experience. Students are expected to apply what they have learned in the academic program to the field experience. An evaluation of the field experience will also be required. The internship and placement must be approved by the instructor. Three hours of field work per week are required to generate one credit hour. The number of credits to be awarded must be contracted for prior to registration.

CJS 496. Honors Project in Criminology. 3-6 Credit Hours.

The nature of the project is determined by the mentor and the student. The due dates for each draft as well as the number of credit hours the student is to receive is contracted for prior to registration.

CJS 499. Research in Criminology. 3-6 Credit Hours.

An upper-class student who wishes to undertake a criminological research project for academic credit during a given semester must submit a research proposal prior to registration and a research report at the end of the semester. The proposal must be approved by the research director, the department chair, and the Dean of Arts & Sciences. The proposal will be kept on file in the Dean's office.

Sociology (SOC)

SOC 101. Introductory Sociology. 3 Credit Hours.

An introduction to sociology's contributions toward an understanding of men and women and their social world. The course examines social interaction as the basis of social behavior and the foundation of social groups. Sociological concepts and methodology are used to provide meaning and understanding of such phenomena as gender roles, the development of the self, the family, social class and stratification, deviant behavior, behavior in organizations and bureaucracy, urban life, power and politics and social change. Required of all sociology majors. No prerequisite.

SOC 144. Introduction to Race in American Society. 3 Credit Hours.

This course is an interdisciplinary introduction to the study of race in American Society. It draws on the scholarship in the fields of business, humanities, and the social sciences to help students see the impact of race on life in contemporary America. No prerequisite.

Cross-listed Courses: RAS 101

SOC 200. Career Pract & Prof Computing Soc/Crim. 3 Credit Hours.

This course focuses on: (1) the discipline and profession of sociology/criminology; (2) career exploration and career development skills for undergraduate sociology/criminology majors; (3) professional writing skills; (4) graduate and professional school exploration and advising; (5) applied sociology/criminology and action anthropology; (6) professional socialization; (7) computer literacy in research and presentation of self both in person and on the Internet; and (8) professional ethics.

SOC 201. Research Methods. 3 Credit Hours.

This course is an introduction to the research methodologies employed by social scientists. Major analytic issues covered in the course include measurement validity and reliability, the grounds for making causal inferences, sampling and research ethics. Major techniques to be studied include participant observation, survey research, experimentation, intensive interviewing and evaluation research. Required of all sociology/criminology majors.

Prerequisites: ANT 101, ANT 102, SOC 101, CJS 101 or PSC 101 and MTH 111.

Cross-listed Courses: CJS 201, PSC 202

SOC 202. Gender and Crime. 3 Credit Hours.

This interdisciplinary course examines crime and criminal justice as gendered phenomena. It explores how notions of masculinity and femininity shape and are shaped by criminalized practices, the operation of the criminal justice system, and our understandings of both. Focusing on gender does not mean focusing exclusively on women. Gender is a relational concept; both men and women are gendered. In this course we will consider the implications of feminist theorizing for a range of criminological concepts, approaches, and themes. Case studies from various social contexts (e.g. the U.S., Canada, Mexico, Brazil, etc.) will help students develop cultural sensitivity and a more complete understanding of our social world. Additionally, the course will develop students' ability to think critically about gender and crime from an intersectional standpoint. Historical and contemporary works by criminologists, anthropologists, sociologists, feminist theorists, and others will be reviewed. An auxiliary aim of this course is to develop students' capacity to read and write academic texts efficiently and effectively.

Fulfills Core Requirement(s): Diversity (DIV) and Interdisciplinary Studies (IDS).

Cross-listed Courses: CJS 202, ANT 202, PGS 202, GWS 202

SOC 203. Sociology of Sport. 3 Credit Hours.

This course provides an introduction to examine sports through a sociological perspective by examining various purposes, theories, methods and ideas of the institution of sport. By a variety of course readings, critical discussions, video and assignments, students in this course are encouraged to view sports and physical activity from a sociological lens, and to form their own critical insights into established structural realities, power relations, and social forces that shape, and are shaped by the institution of sports. This course will examine a variety of important topics within the sociology of sport. (e.g. race, class, gender, sexuality, media, activism, cultural power, etc). A central foundation of the course requires students to apply a sociological imagination to their own consumption of, and participation in sports within their own lives.

SOC 205. Race and Popular Culture. 3 Credit Hours.

This course is a sociological exploration of how Race shapes contemporary popular culture in American society. The course will examine how Race shapes social institutions such as sports, music, television/film, and social media among other aspects of culture. This course introduces students to key theories of race including Debois, Omi & Winant and Colorblind Theory.

SOC 220. The Criminal Justice System. 3 Credit Hours.

This course examines the criminal justice system and its effects on individuals within the system. It also considers the criminal justice systems effects on individuals both inside and outside the system with respect to the commission of crime.

Prerequisite: SOC 305 recommended.

Cross-listed Courses: LGS 220, CJS 220

SOC 225. Gangs and Criminal Community. 3 Credit Hours.

This course introduces students to gang-life as an urban phenomenon that starts in the 19th century and that in the 2000s is diffused across the margins and illicit flows of the global economy. Students will read memoirs of members of gang communities, with attention to notions of agency and iconoclasm, situating gang life in a continuum of political resistance. We will also look at the history of modern transnational gangs as a view into the history of displacement, modern war, and the pre-history to the discourses surrounding "global terrorism", giving students the tools for a critical reading of current debates around state security, "organized crime", and sovereignty.

Cross-listed Courses: CJS 225, PGS 225

SOC 226. Extreme Murder. 3 Credit Hours.

This course examines the phenomenon of extreme murder. In particular, serial killers, spree killers, and mass murderers - as well as the circumstances surrounding these events - are explored. Other egregious types of offenders may also be reviewed. Throughout the duration of the course, students will learn about infamous killers as well as those who are less recognized in media and popular culture, and the impact of the crimes on persons and society. Students in this course will study copious cases and take a multidimensional approach to critically examine risk factors/causes underlying such violence. In addition to discussing offenders, victims and the context within which victims and offenders interact (the criminal event perspective) will be analyzed. Special attention will be given to sex and gender, among other variables such as race and class. Students will also explore theory and give thought to deterministic, social, cultural, and other explanations. Importantly, they will come to understand how criminological and sociological research has contributed to knowledge (e.g. through qualitative and quantitative techniques) and shaped practice (e.g. criminal profiling, risk assessment, proactive policing, victim-services, etc.).

Cross-listed Courses: CJS 226, GWS 226

SOC 231. Marriage and Families. 3 Credit Hours.

A social scientific study of contemporary and historical forms of marriage and family life in America. We will compare different types of American families with family structures in other parts of the world and other historical periods. We will study interactions between family systems and work, education, health care and legal systems and focus on their public policy implications.

Cross-listed Courses: GWS 231

SOC 232. Family Violence. 3 Credit Hours.

Using sociological perspectives, this course will examine family violence including the abuse of partners, children and elders. It will focus on understanding the origins and the larger forces leading to and reinforcing family violence, and as well as on the microdynamics of violence within families. It will also examine how family violence varies across differences such as race/ethnicity, sexual orientation and disability.

Cross-listed Courses: CJS 232, GWS 232

SOC 240. Social Welfare. 3 Credit Hours.

This course will provide an historical overview of social welfare policy, both public and private, as it has evolved from medieval alms-giving to modern welfare statism. Welfare's costs and benefits, structure and relationship to other parts of society will be examined. Relevant sociological theories will be reviewed, with particular attention to the way they have been applied to problems of social welfare. The social work profession will be examined sociologically.

Cross-listed Courses: GWS 240

SOC 241. Social Inequality. 3 Credit Hours.

An analysis of contemporary developments in stratification theory from both the conflict and structural-functional perspectives. Differences between and among social groups are examined in detail as they are manifested in socialization, educational opportunities, occupational status, life styles, income and health. Special emphasis is placed on the concept of class and the changing American class structure, female status attainment and poverty.

Prerequisite: SOC 101 or CJS 101.

Fulfills Core Requirement(s): DIVERSITY (DIV).

Cross-listed Courses: GWS 241

SOC 244. Race and Ethnic Relations. 3 Credit Hours.

Race and ethnicity are a significant aspect of American society, especially as one of the main modes of social stratification. This class will introduce students to the major understanding of and critical thinking about race in the United States. This class will also encourage students to examine race in the U.S., with an emphasis on class, gender and urban life. At the end of this class, students should be familiar with the social importance that race and ethnicity play in everyday life.

Cross-listed Courses: CJS 244, GWS 244

SOC 265. Population/Demography. 3 Credit Hours.

A sub-discipline of sociology, demography is the scientific study of populations. This course treats elementary demographic measures and techniques. Within a sociologically and historically grounded framework, it examines the components of population change (natality, mortality and migration) as well as the effects of the size and composition of a population upon institutions and social problems. The course might examine, for instance, the effects of population stability or change upon the family, housing, education, markets for various products and/or the quality of the environment. Policy making to shape population conditions will also be considered.

SOC 303. Social Theory in Anthro/Sociol. 3 Credit Hours.

This course explores sociological and anthropological theory by studying a number of the classical thinkers in the disciplines. We study the origins of and interrelationships among these theories in their particular social and historical milieus, as well as their relevance to sociology and anthropology today. The student is expected to gain both a competence in the historical development of social scientific theory and an ability to theorize about social phenomena.

Prerequisites: SOC 201 (CJS 201/PSC 202) or ANT/GWS/PGS 200 or permission of instructor.

Fulfills Core Requirement(s): DIV.

Cross-listed Courses: ANT 303

SOC 305. Criminological Theory. 3 Credit Hours.

Criminology is the scientific study of crime and criminal behavior. Various theoretical perspectives (e.g. psychological, biological, sociological, etc.) are reviewed, along with their respective solutions, for crime and criminality in American society. Different types of offenses are also explored (e.g. violent crime, property crime, victimless crime, corporate crime, etc.). By critically examining theories of crime causation, students gain an understanding of the social forces which shape and contribute to the commission of crime and criminal events in American society.

Prerequisites: ANT 101 or CJS 101 or SOC 101 or permission of the instructor.

Cross-listed Courses: CJS 305

SOC 310. Aging and Society. 3 Credit Hours.

This course will examine aging as an individual and a social process. The focus will be on the social process of growing old in America. Students will be exposed to the effects society exerts on its aging population. Topics will include the demographic structure, current theories of aging, the effects of economic, political and psychological considerations on aging.

SOC 311. Sociology of Work. 3 Credit Hours.

This course focuses on issues related to work, the workplace and work life. Issues involving social relations at work, authority structures, work and social identity, equality and inequality are addressed, as are differences between professional and managerial, production and service occupations. Major controversies in the field will be discussed and debated.

Prerequisites: ANT 101, CJS 101, MGT 301, PSY 101, SOC 101 or WER 101.

SOC 321. Law, Society and Social Science. 3 Credit Hours.

The structure and functions of law as an institution are analyzed from the perspectives of classical and contemporary social scientific theories. The legal processes of the assignment of responsibility, the resolution of disputes, the distribution of social rewards and the imposition of sanctions are studied in cross-cultural perspective. Attention is also focused on the use of social scientific knowledge by legal institutions. Prerequisites: ANT 101 or CJS 101 or PSC 101 or PSY 101 or SOC 101 and MTH 110 or MTH 111 or STA 201.

Cross-listed Courses: LGS 321, CJS 321

SOC 322. Economics of Crime and Punishment. 3 Credit Hours.

This course examines contemporary issues of crime, punishment, and criminal justice from an economic perspective. Basic economic concepts such as rational choice, opportunity costs, cost-benefit analysis, and supply and demand provide insights into criminal justice concerns. Public policies for crime control are assessed with consideration of underlying economic realities and economic effects. Contemporary topics may include effectiveness of alternative crime control measures and 'tough on crime' public policies, costs, and benefits of incarceration, the war on drugs, gun control, and capital punishment. Readings are drawn from the Social Sciences; with the focus on applying economic methods to evaluate criminal justice issues. No prerequisites.

Cross-listed Courses: ECO 322, CJS 322

SOC 323. Juvenile Delinquency. 3 Credit Hours.

After examining the causes of delinquency among juveniles and the various ways of treating delinquents, the second part of the course focuses on juvenile court: the history of the juvenile court movement, current procedures employed by the juvenile court and its relationship with other community agencies that deal with delinquents.

Cross-listed Courses: CJS 323

SOC 325. Poverty & Social Justice in Legal System. 3 Credit Hours.

The class will explore the concept of social justice, with a special emphasis on the root causes and persistence of poverty, and how the legal system confronts, changes or contains those problems.

SOC 326. Deviance. 3 Credit Hours.

This course is a thematic introduction to sociology; it presents basic concepts and principles of sociological and criminal analysis. Different types of deviant behaviors are examined and explained using both individualistic and social structural theories. Students will acquire the tools needed to conduct a critical analysis of any social behaviors, including deviance.

Prerequisite: SOC 101 or CJS 101.

Cross-listed Courses: CJS 326

SOC 327. Food and Culture. 3 Credit Hours.

Is Indian curry an acquired taste or are we born with "taste"? Is eating organic, local or vegan just a fad or a sustainable way of life? Or "are we really what we eat?" Culture and food is an interdisciplinary seminar that examines how culture shapes and interacts with food in society. Culture, religion, race, class and gender frame our experiences, relationships with and understandings of food. Students will employ a variety of theoretical perspectives to examine these relationships including social theory, feminist philosophy, and post-colonial theory. Exploring the works of Uma Narayan, Lisa Heldke, George Simmel, Appadurai, Edward Said and Pierre Bourdieu this course will also develop both a sociological and philosophical understanding of the study of food. Junior standing required.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

SOC 335. Economics of Poverty. 3 Credit Hours.

This course examines poverty in the United States from an economic perspective. Using the basic concepts of economic analysis, it considers several dimensions of poverty, including the U.S. income distribution, the measurement and incidence of poverty, the characteristics of the poor, and the causes and consequences of poverty. It also provides an overview of the structure, history, and effectiveness of public policy aimed at alleviating poverty.

Cross-listed Courses: ECO 335

SOC 341. Hum Svc Caseload Mgt-Theory & Svc Learn. 3 Credit Hours.

This course explores the field of human services caseload management, as well as the processes, skill base and understandings involved in the human services workplace. This involves surveying the many community needs that human services agencies fulfill within society, with particular attention to the organizational process and strategies that such agencies employ toward their stated "missions". Service Learning is an integral part of this exploration. Building on a foundation of Human Services theory and an awareness of contemporary socio-economic and demographic trends, the field experience of our class members will become the vehicle for refining our understanding of the many nuances involved in caseload management in today's profession.

Prerequisites: SOC 240 and 6 credits in subject areas of ACT ECO EDU PSC PSY or CJS.

Corequisite: SOC 490.

SOC 343. Immigration. 3 Credit Hours.

This course examines the topic of immigration from multiple perspectives: historical comparison between current and previous waves of immigrants, political debates over what we should do locally and nationally, the complex economic and social impacts of immigrants (both legal and unauthorized), the changing legal environment, comparative immigration policies, and the post-9/11 national security implications of immigration. This course aims to have you explore and challenge your own views, try to make sense of completing arguments and evidence, and gain a respect for perspectives not your own. A visit to the National Immigration Museum at Ellis Island may be planned. Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PSC 344, PGS 344, CJS 343

SOC 344. Gender and Society. 3 Credit Hours.

This course examines the processes and institutions through which gender is constructed and operates in society. It analyzes how gender serves to organize everyday life as well as how such institutions as work, education and marriage take their form according to historically variable contexts of gender relations. Gender will be considered in a cross-cultural context, as well as in interaction with race/ethnicity and class. Students will employ a variety of theoretical perspectives to examine these relationships.

Prerequisite: GWS 101, PSC 101 or SOC 101.

Cross-listed Courses: GWS 344

SOC 345. Conflict Resolution. 3 Credit Hours.

This course will introduce students to the field of conflict resolution. It will include an overview of the history and theories of the field and some of the major critiques of present theories and practices. The course also will provide students with an understanding of the spectrum of role professionals in conflict resolution undertake. Students will gain selected conflict resolution skills and come to understand conflict experientially by participating in three role plays demonstrating issues associated with inter-personal, inter-group and organizational conflict.

Prerequisites: SOC 101, CJS 101, ANT 101, ANT 102, or EDU 105.

Cross-listed Courses: CJS 345

SOC 351. Victimology. 3 Credit Hours.

This course analyzes and scientifically examines the physical, emotional, and financial impact of crime on its victims. Specific types of victims and crime will be studied, including homicide, sexual assault, domestic violence, child maltreatment, elder abuse, and assault. This in-depth course requires the student to analyze restitution issues, the treatment of victims by the criminal justice system, victims' rights legislation, and contemporary trends in the treatment of victims.

Prerequisites: SOC 101, CJS 101, PSY 101 or GWS 101.

Cross-listed Courses: CJS 351

SOC 365. Death and Dying. 3 Credit Hours.

An interdisciplinary approach to understanding the process of dying and death. The course presents the findings of social science on when, where and under what conditions people die in modern society, how these situational factors have changed, and how they influence the experience of dying. It attempts a sociocultural and religious understanding of the meaning of death and bereavement, and their impact on family members and friends, as well as on society. The theological meaning of death will be treated.

SOC 365S. Death & Dying: Service Learning. 1 Credit Hour.

Service Learning experience.

SOC 369. Sociology of Religion. 3 Credit Hours.

The relationship between religion and society is complex, dynamic, and ever-changing. It has been at the root of sociology itself since the discipline began and was central to the work of many of its founders. In this course, you will use a sociological perspective to examine this relationship between religion and society. Much of the class will deal with American forms of religion, but we will also consider examples of religion outside of the U.S. context. Fulfills Core diversity requirement. Cross-listed Courses: REL 369

SOC 390. Independent Study in Sociology. 1-6 Credit Hours.

A student who wishes to pursue an independent study project in sociology for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the academic dean. It will be kept on file in the academic dean's office.

SOC 399. Diversity in the City. 3 Credit Hours.

Special Topic: The course focuses on the cultural, ethnic, religious and class diversity of Paris' changing landscape. Students will use Bourdieu, Goffman, Marx, and Simmel and other theorists to understand diversity, culture and identity by studying the diversity of "the city." Through readings, documentaries and a weeklong trip to Paris students will use sociological theories on society and culture to study diversity in the city. In particular the minority populations of the immigrant French communities, the recent North African immigrant communities, and the Muslim communities will be examined. This class will also explore how religious (Catholic and Muslim) as well as ethnic diversity shapes current debates on French and European citizenship. This class concludes with a 11-12 day trip to Paris that will include visits to the Eiffel Tower, Notre Dame, the Arab Institute, Luxembourg Gardens, La Mosque (Paris' mosque) and Jardin des Plantes. Fulfills Core diversity requirement. Cross-listed Courses: PGS 399

SOC 401. Soc Perspect in Social Psych. 3 Credit Hours.

This is an advanced course in social psychology from the sociological perspective. It is the study of the relationship between individuals and the society in which they live. The student explores the effect social forces have on individuals in areas such as attitudes and behavior, attitude change, social influence, conformity and deviance, attraction, prejudice and discrimination and socialization within the framework of a sociological social psychology. Also thoroughly examined and compared are the theories and methods of both psychological and sociological social psychologies.

Prerequisites: CJS/SOC 201 and SOC 303 or CJS 305; or by permission of instructor.

SOC 402. Program Evaluation Research Methods And Policy. 3 Credit Hours.

The goal of this course is to develop a comprehensive understanding of the use of behavioral science research methods and theories for program and intervention evaluations. Topics given special emphasis include: measurement strategies and problems, needs assessment, experimental and quasi-experimental field designs, qualitative methods, benefit-cost analysis, statistical approaches to modeling bias and the use of evaluation results in the policy process.

Cross-listed Courses: ECO 402, PSC 402

SOC 441. Capston Course: Race in American Society. 3 Credit Hours.

This course is an interdisciplinary capstone to the study of Race in American Society. It draws on the scholarship in the fields of business, humanities, and the social sciences to help students develop a project that will have an impact on race in America.

Prerequisite: RAS 101 or permission of the instructor.

Cross-listed Courses: RAS 401

SOC 444. Gender and Global Violence. 3 Credit Hours.

This course uses sociological and feminist theory to examine gender and global violence. It will examine how race, gender, sexual orientation, globalization, war and religious affiliation impact violence against women in parts of Asia, Africa, and the Middle-East. Students will develop an understanding of gendered violence in a global context with an emphasis on policy making and cultural sensitivity.

Prerequisite: SOC 101, ANT 101, PSC 101, CJS 101 or GWS 101 or by permission of instructor.

SOC 451. Capstone Course in Criminology and Sociology. 3 Credit Hours.

This is the capstone course for the criminology and sociology curricula. The course provides a forum where students can demonstrate mastery of the tools acquired throughout their curricula including content knowledge and skills for conducting social science research. Students will examine topics of interest, review the scholarly literature on these topics and conduct empirical research that answers one or more questions on these topics. The final product of this course is a piece of scholarly/professional writing.

Prerequisites: CJS 101 or SOC 101, MTH 111, CJS or SOC 201, and SOC 303 or CJS 305.

Cross-listed Courses: CJS 451

SOC 490. Internship in Sociology. 1-6 Credit Hours.

Participation in a field learning experience closely related to one of the areas of sociology. The student intern will meet regularly with his or her supervisor in the agency and/or will report as required to the faculty member assigned to supervise the field experience. Students are expected to apply what they have learned in the academic program to the field experience. An evaluation of the field experience will also be required. The internship and placement must be approved by the instructor. Three hours of field work per week are required to generate one credit hour. The number of credit hours to be awarded must be contracted for prior to registration. Prerequisite: Junior status and permission of the instructor.

Prerequisite: CJS/SOC 201 and SOC 303; or permission of instructor.

SOC 495. Empirical Research. 3-6 Credit Hours.

A team of senior students designs and carries out an empirical research project. The actual experience of planning and doing research provides students with an opportunity to review and integrate major sectors of what they have learned in their coursework. Responsibility for planning and carrying out the project rests with the students. The instructor serves as a resource person, available to offer advice or teach what is needed to solve technical problems. It is the instructor's responsibility to see that the project can be completed with the available resources and within the time constraints of a semester. The instructor also evaluates the work of students. While a student's work load in this kind of project varies from week to week, he or she is required to budget an average of nine hours per week for independent/group/class work on the project.

SOC 496. Honors Project in Sociology. 3-6 Credit Hours.

The nature of the project is determined by the mentor and the student. The due dates for each draft as well as the number of credit hours the student is to receive is contracted for prior to registration.

SOC 499. Research in Sociology. 3-6 Credit Hours.

An upper-class student who wishes to undertake a sociological research project for academic credit during a given semester must submit a research proposal prior to registration and a research report at the end of the semester. The proposal must be approved by the research director, the department chair and the academic dean. The proposal will be kept on file in the academic dean's office.

Sociology Major (B.A.)

The curriculum for the sociology major integrates the basic principles of a liberal arts education with skills specific to the critical analysis of social structure and processes. The major provides training in both sociological theory and social science research methods, as well as a thorough understanding of substantive areas such as crime and deviance, marriage and families, race, gender, law, poverty, culture, formal organizations and institutions such as the mass media, schools and government. Practical application of classroom knowledge is afforded through the department's internship program and experiential learning opportunities.

Students majoring in sociology also have the option to choose a concentration if they want to specialize. Each of the program's five concentrations provides rigorous sociological training and an in-depth look at specific areas of interest, and include the skills to prepare for careers after graduation. The human services concentration prepares the student for work in direct-assistance organizations (e.g. working for nonprofits, charities, policy advocacy or federal, state and local government) or for graduate study in applied sociology or social work. The concentration in research and theory is designed for the student who is interested in an academic career such as teaching and doing research in sociology. Students with a concentration in research and theory also may go on to do graduate study in either Ph.D. or applied master's programs in sociology or professional education in fields such as business, public health, public administration and urban planning. The concentration in criminology prepares students for work in offender- and victim-related services (e.g. law enforcement, corrections, domestic/sexual violence agencies), including within the criminal justice system, and for advanced studies in law, criminology or criminal justice. The education concentration combines intensive work in the Department of Anthropology, Criminology & Sociology and the Department of Education to prepare students for K-12 teaching careers. The concentration in anthropology has the advantage of offering students two disciplinary perspectives (Anthropology and Sociology) and addresses the origin and nature of human beings, global diversity through a comparative framework, and the political, economic, and historical contexts that affect human culture and society. It prepares the student for cross-cultural interactions and understanding, and for careers in research, global health, NGOs, social media, museums and cultural heritage.

Examples of Major Electives That Can Be Used in our Major and Concentrations:

Deviance

Internships

Juvenile Delinquency

Law, Society, and Social Science

Program Evaluation

Race and Ethnic Relations

Examples of Major Support Electives that Can Be Used in our Major and Concentrations:

Anthropological Linguistics

Anthropology of Refugees

Criminal Justice Systems

Criminological Theory

Cultural Myths and Cultural Realities

Family Violence

Gender and Crime

Peoples and Cultures of Southeast Asia

Victimology

World Cultures

Core

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	6
& HST 111	and World Civilization II	
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Total Credit Hours		52

¹ Some Core requirements may be fulfilled by major requirements.

Sociology Major in General Study

Students must complete the Core requirements (p. 123).

Code	Title	Credit Hours
SOC 101	Introductory Sociology	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
SOC 201	Research Methods	3
SOC 303	Social Theory in Anthro/Sociol	3
SOC 451	Capstone Course in Criminology and Sociology	3
SOC 490	Internship in Sociology	1-6
Major Electives (SOC courses)		12
Major Support Electives (ANT/CJS/SOC)		18
Free Electives		24
Total Credit Hours		71-76

Concentration in Anthropology

Students must also complete Core requirements (p. 123).

Code	Title	Credit Hours
Core Major Requirements		
ANT 101	Introduction to Anthropology	3
ANT 200	Cultural Myths and Cultural Realities	3
	or ANT 201 Field Methods	
ANT 213	People&Cultures Southeast Asia	3
ANT 300	Anthropological Linguistics	3
SOC 101	Introductory Sociology	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
SOC 201	Research Methods	3
SOC 303	Social Theory in Anthro/Sociol	3
SOC 451	Capstone Course in Criminology and Sociology (Soc 451 or Ant 450)	3
SOC 490	Internship in Sociology	3
	or ANT 490 Internship in Anthropology	
	or ANT 496 Honors Project in Anthropology	
	or ANT 499 Research in Anthropology	
Anthropology elective		3
Major Support Elective (ANT/CJS/SOC)		12
Free Electives		27
Total Credit Hours		73

Concentration in Criminology

Students must also complete Core requirements (p. 123).

Code	Title	Credit Hours
Core Major Requirements		
SOC 101	Introductory Sociology	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
SOC 201	Research Methods	3
SOC 220	The Criminal Justice System	3
SOC 303	Social Theory in Anthro/Sociol	3

SOC 305	Criminological Theory	3
SOC 402	Program Evaluation Research Methods And Policy	3
SOC 451	Capstone Course in Criminology and Sociology	3
SOC 490	Internship in Sociology (or alternative as approved by department chair)	1-6
Select one of the following concentration electives:		3
SOC 321	Law, Society and Social Science	
SOC 323	Juvenile Delinquency	
SOC 326	Deviance	
Major Support Requirements		
Major Support Electives (ANT/CJS/SOC)		18
Free Electives		24
Total Credit Hours		71-76

Concentration in Sociology for Childhood and Special Education (Grades 1-6)

Students must also complete Core requirements (p. 123).

Code	Title	Credit Hours
Major Requirements		
SOC 101	Introductory Sociology	3
ANT 101	Introduction to Anthropology	3
SOC 201	Research Methods	3
SOC 303	Social Theory in Anthro/Sociol	3
SOC 451	Capstone Course in Criminology and Sociology	3
Major Support Electives (ANT/CJS/SOC)		6
Major Support Requirements		
MTH 111	Introduction to Statistics I (with Computer Lab)	4
MTH 112	Introduction to Statistics II	3
Natural Science (p. 61) ¹		3
Education Requirements:		
EDU 200	Teaching in a Diverse Society	3
EDU 205	Childhood Learning and Special Needs	3
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
EDU 305	Prin & Methods of Multicultural Literacy	3
EDU 315	Plan,Assessing,Managing Inclusive Clsrm	3
EDU 365	Adapting Literacy Lrn Stu W/Spec Needs	3
EDU 375	Strategies for Teaching Content in Inclusive Classrooms (1-6)	3
EDU 376	Managing Environ for Stu W/ Disabilities	3
EDU 405	Preservice Clinical Teaching Seminar	3
EDU 430	Supervised Preservice Teaching (grades 1-6)	6

EDU 431	Supervised Preservice Teaching (spe 1-6)	6
Total Credit Hours		73

¹ Three additional credits of Natural Science.

Concentration in Human Services

Students must also complete Core requirements (p. 123).

Code	Title	Credit Hours
Core Major Requirements		
SOC 101	Introductory Sociology	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
SOC 201	Research Methods	3
SOC 240	Social Welfare	3
SOC 303	Social Theory in Anthro/Sociol	3
SOC 341	Hum Svc Caseload Mgt-Theory & Svc Learn or SOC 402 Program Evaluation Research Methods And Policy	3
SOC 490	Internship in Sociology	1-6
SOC 451	Capstone Course in Criminology and Sociology	3
Major Electives (SOC courses)		12
Major Support Electives (ANT/CJS/SOC)		12
Free Electives		24
Total Credit Hours		71-76

Concentration in Research and Theory

Students must also complete Core requirements (p. 123).

Code	Title	Credit Hours
Core Major Requirements		
SOC 101	Introductory Sociology	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
SOC 201	Research Methods	3
SOC 303	Social Theory in Anthro/Sociol	3
SOC 451	Capstone Course in Criminology and Sociology	3
Major Electives (SOC courses)		12
Major Support Electives (ANT/CJS/SOC)		18
SOC 495	Empirical Research or SOC 499 Research in Sociology	3-6
Free Electives		24
Total Credit Hours		73-76

Typical Program for Sociology Major in General Study

Course	Title	Credit Hours
Freshman Year		
First Semester		
SOC 101	Introductory Sociology	3

WRT 101	Critical Writing	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
SOC Elective		3
EAC Encountering Another Culture/Language (p. 61)		3
HST 111	World Civilization II	3
ANT/CJS/SOC Elective		3
Credit Hours		15
Sophomore Year		
First Semester		
MTH 111	Introduction to Statistics I (with Computer Lab)	4
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
SOC Elective		3
ANT/CJS/SOC Elective		3
Credit Hours		16
Second Semester		
SOC 201	Research Methods	3
Natural Science (p. 61)		3
SOC Elective		3
ANT/CJS/SOC Electives		6
Credit Hours		15
Junior Year		
First Semester		
SOC 303	Social Theory in Anthro/Sociol	3
ENG 310	Literature and Culture	3
SOC Elective		3
ANT/CJS/SOC Elective		3
Religion (p. 61)		3
Credit Hours		15
Second Semester		
ANT/CJS/SOC Elective		3
Free Electives		6
IDS Interdisciplinary Studies (p. 61)		3
Theology (p. 61)		3
Credit Hours		15
Senior Year		
First Semester		
VPA Visual & Performing Arts (p. 61)		3
SOC 451	Capstone Course in Criminology and Sociology	3
COR 400	Senior Studies: Transformations	3
Free Electives		6
Credit Hours		15
Second Semester		
SOC 490	Internship in Sociology	3

Free Electives	12
Credit Hours	15
Total Credit Hours	121

Typical Program for Concentration in Anthropology

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
EAC Encountering Another Culture/Language (p. 61)		3
SOC 101	Introductory Sociology	3
or ANT 101	or Introduction to Anthropology	
HST 110	World Civilization I	3
Credit Hours		15
Second Semester		
ANT 101	Introduction to Anthropology	3
or SOC 101	or Introductory Sociology	
PHL 110	Introduction to Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 111	World Civilization II	3
Natural Science (p. 61)		3
Credit Hours		15
Sophomore Year		
First Semester		
MTH 111	Introduction to Statistics I (with Computer Lab)	4
PHL 210	Moral Philosophy	3
ANT/CJS/SOC Electives		6
ANT 200	Cultural Myths and Cultural Realities	3
or ANT 201	or Field Methods	
Credit Hours		16
Second Semester		
ENG 210	Major Authors	3
SOC 201	Research Methods	3
Theology (p. 61)		3
ANT 213	People&Cultures Southeast Asia	3
ANT/CJS/SOC Elective		3
Credit Hours		15
Junior Year		
First Semester		
SOC 303	Social Theory in Anthro/Sociol	3
or ANT 303	or Social Theory in Anthro/Sociol	
ENG 310	Literature and Culture	3
ANT 300	Anthropological Linguistics	3
ANT/CJS/SOC Elective		3
Free Elective		3
Credit Hours		15
Second Semester		
ANT Elective		3

IDS Interdisciplinary Studies (p. 61)	3
Free Electives	6
Religion (p. 61)	3
Credit Hours	15
Senior Year	
First Semester	
COR 400 Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)	3
Free Electives	9
Credit Hours	15
Second Semester	
Free Electives	9
SOC 490 Internship in Sociology	3
or ANT 490 or Internship in Anthropology	
or ANT 496 or Honors Project in Anthropology	
or ANT 499 or Research in Anthropology	
SOC 451 Capstone Course in Criminology and Sociology	3
Credit Hours	15
Total Credit Hours	121

Typical Program for Concentration in Criminology

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 110	World Civilization I	3
SOC 101	Introductory Sociology	3
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
SOC 220	The Criminal Justice System	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 111	World Civilization II	3
ANT/CJS/SOC Elective		3
Credit Hours		15
Sophomore Year		
First Semester		
ANT/CJS/SOC Elective		3
PHL 210	Moral Philosophy	3
SOC 305	Criminological Theory	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
SOC 321	Law, Society and Social Science	3
or SOC 323 or Juvenile Delinquency		
or SOC 326 or Deviance		
Credit Hours		16
Second Semester		
SOC 201	Research Methods	3

Religion (p. 61)		3
Natural Science (p. 61)		3
ENG 210	Major Authors	3
ANT/CJS/SOC Elective		3
Credit Hours		15
Junior Year		
First Semester		
SOC 303	Social Theory in Anthro/Sociol	3
ENG 310	Literature and Culture	3
SOC 402	Program Evaluation Research Methods And Policy	3
ANT/CJS/SOC Electives		6
Credit Hours		15
Second Semester		
Free Electives		6
IDS Interdisciplinary Studies (p. 61)		3
Theology (p. 61)		3
ANT/CJS/SOC Elective		3
Credit Hours		15
Senior Year		
First Semester		
VPA Visual & Performing Arts (p. 61)		3
COR 400	Senior Studies: Transformations	3
Free Electives		9
Credit Hours		15
Second Semester		
SOC 490	Internship in Sociology	3
Free Electives		9
SOC 451	Capstone Course in Criminology and Sociology	3
Credit Hours		15
Total Credit Hours		121

Typical Program for Concentration in Sociology for Childhood and Special Education (Grades 1-6)

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
EAC Encountering Another Culture/Language (p. 61)		3
SOC 101	Introductory Sociology	3
HST 110	World Civilization I	3
Credit Hours		15
Second Semester		
ANT 101	Introduction to Anthropology	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 111	World Civilization II	3
PHL 110	Introduction to Philosophy	3

MTH 111	Introduction to Statistics I (with Computer Lab)	4
Credit Hours		16

Sophomore Year**First Semester**

MTH 112	Introduction to Statistics II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
ANT/CJS/SOC Elective		3
EDU 200	Teaching in a Diverse Society	3
Credit Hours		15

Second Semester

EDU 315	Plan, Assessing, Managing Inclusive Clrm	3
SOC 201	Research Methods	3
Natural Science (p. 61) ¹		3
EDU 205	Childhood Learning and Special Needs	3
ANT/CJS/SOC Elective		3
Credit Hours		15

Junior Year**First Semester**

ENG 310	Literature and Culture	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
SOC 303	Social Theory in Anthro/Sociol	3
Theology (p. 61)		3
Credit Hours		15

Second Semester

IDS Interdisciplinary Studies (p. 61)		3
VPA Visual & Performing Arts (p. 61)		3
EDU 305	Prin & Methods of Multicultural Literacy	3
Religion (p. 61)		3
Natural Science (p. 61)		3
Credit Hours		15

Senior Year**First Semester**

EDU 365	Adapting Literacy Lrn Stu W/Spec Needs	3
EDU 375	Strategies for Teaching Content in Inclusive Classrooms (1-6)	3
EDU 376	Managing Environ for Stu W/ Disabilities	3
COR 400	Senior Studies: Transformations	3
SOC 451	Capstone Course in Criminology and Sociology	3
Credit Hours		15

Second Semester

EDU 405	Preservice Clinical Teaching Seminar	3
EDU 430	Supervised Preservice Teaching (grades 1-6)	6

EDU 431	Supervised Preservice Teaching (spe 1-6)	6
Credit Hours		15
Total Credit Hours		121

¹ Three additional credits of Natural Science.

Typical Program for Human Services Concentration

Course	Title	Credit Hours
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Freshman Year**First Semester**

SOC 101	Introductory Sociology	3
WRT 101	Critical Writing	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		15

Second Semester

PHL 110	Introduction to Philosophy	3
SOC 240	Social Welfare	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 111	World Civilization II	3
ANT/CJS/SOC Elective		3
Credit Hours		15

Sophomore Year**First Semester**

MTH 111	Introduction to Statistics I (with Computer Lab)	4
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
ANT/CJS/SOC Elective		3
SOC Elective		3
Credit Hours		16

Second Semester

Natural Science (p. 61)		3
SOC 201	Research Methods	3
SOC Elective		3
ANT/CJS/SOC Electives		6
Credit Hours		15

Junior Year**First Semester**

SOC 303	Social Theory in Anthro/Sociol	3
ENG 310	Literature and Culture	3
SOC Elective		3
SOC 341	Hum Svc Caseload Mgt-Theory & Svc Learn	3
or SOC 402	or Program Evaluation Research Methods And Policy	
Religion (p. 61)		3
Credit Hours		15

Second Semester

Theology (p. 61)		3
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IDS Interdisciplinary Studies (p. 61)	3
SOC Elective	3
Free Electives	6
Credit Hours	15
Senior Year	
First Semester	
VPA Visual & Performing Arts (p. 61)	3
Free Electives	9
COR 400 Senior Studies: Transformations	3
Credit Hours	15
Second Semester	
SOC 490 Internship in Sociology	3
SOC 451 Capstone Course in Criminology and Sociology	3
Free Electives	9
Credit Hours	15
Total Credit Hours	121

Typical Program for Concentration in Research and Theory

Course	Title	Credit Hours
Freshman Year		
First Semester		
SOC 101	Introductory Sociology	3
WRT 101	Critical Writing	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
SOC Elective		3
EAC Encountering Another Culture/Language (p. 61)		3
HST 111	World Civilization II	3
ANT/CJS/SOC Elective		3
Credit Hours		15
Sophomore Year		
First Semester		
MTH 111	Introduction to Statistics I (with Computer Lab)	4
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
SOC Elective		3
ANT/CJS/SOC Elective		3
Credit Hours		16
Second Semester		
SOC 201	Research Methods	3
ENG 310	Literature and Culture	3
Natural Science (p. 61)		3
SOC Elective		3

ANT/CJS/SOC Elective	3
Credit Hours	15
Junior Year	
First Semester	
SOC 303 Social Theory in Anthro/Sociol	3
SOC Elective	3
Religion (p. 61)	3
ANT/CJS/SOC Elective	3
IDS Interdisciplinary Studies (p. 61)	3
Credit Hours	15
Second Semester	
ANT/CJS/SOC Electives	6
Theology (p. 61)	3
Free Electives	6
Credit Hours	15
Senior Year	
First Semester	
VPA Visual & Performing Arts (p. 61)	3
COR 400 Senior Studies: Transformations	3
Free Electives	9
Credit Hours	15
Second Semester	
SOC 495 Empirical Research or SOC 499 or Research in Sociology	3
Free Electives	9
SOC 451 Capstone Course in Criminology and Sociology	3
Credit Hours	15
Total Credit Hours	121

Sociology Minor

A minor in sociology involves 15 credit hours of sociology courses. Selection of particular courses is based upon each student's needs and interests and is made with the approval of the department chair. These courses normally begin with SOC 101 Introductory Sociology. At least nine of the 15 credit hours must be at the upper level.

Students who seek a minor in sociology should contact the department chair as early in their career at Le Moyne as possible and prior to their enrolling in any upper-level sociology course.

Direct Entry Master of Science Occupational Therapy (OT) Pathway: B.A. in Sociology

A Direct Entry opportunity to the Occupational Therapy (OT) Pathway at Le Moyne College was developed to offer early acceptance to exceptional high school students wishing to accelerate their academic and career paths to become licensed occupational therapists. Accepted students will complete a bachelor's degree in sociology and then directly enter the Master of Science Program in Occupational Therapy at Le Moyne College. Students accepted into this pathway will be invited to participate in activities with current OT students and faculty.

Application for the direct entry pathway is made during the senior year of high school and is available only to first-year students. The program is competitive and space is limited.

Eligibility Requirements for Admission into the Direct Entry Pathway

1. Minimum High School Cumulative Average = 92
2. Minimum Test Scores = SAT 1100 (Critical Reading and Math only) or ACT 21
3. Required High School Courses: Applicants must graduate from an accredited high school and must complete a minimum of 16 academic units in the following distribution:
English - 4
Foreign Language - 3
Mathematics - 3-4
Natural Science - 3-4
Social Studies - 3-4

Applying to the Direct Entry Pathway

The application and all required documents must be received by the Le Moyne College Office of Admission by January 15.

A completed application includes:

1. **A freshman application**
2. Official high school transcript
3. Recommendations: Applicants are required to submit one letter of recommendation from a guidance or college counselor; or two letters of recommendation from clergy, coaches, employers, teachers, etc.; and one recommendation from a supervisor who can attest to the applicant's demonstrated commitment to the occupational therapy field.
4. Official SAT or ACT score report or official TOEFL or IELTS score report required of non-native English speakers
5. Personal statement
6. Documentation of Observation Hours
7. Required interview by invitation only; invitations will be extended by February 1.

After beginning study as a first-year student in the Direct Entry OT Pathway at Le Moyne College, accepted students have a binding agreement with the institution and may not apply to other OT programs.

Continuation in the Direct Entry Pathway

In order to remain in good standing and continue the program, a participant must meet or exceed the following:

- **Overall GPA** – Must attain or exceed an overall GPA of 3.0. Two successive semesters below 3.0 or a cumulative GPA below 3.0 will constitute grounds for dismissal from the program. However, participants may be allowed to continue in their undergraduate major provided they remain in good academic standing at Le Moyne College; these students would then have the opportunity to apply to the Master of Science program in Occupational Therapy with other students who were not in the direct entry group.
- **Continuous Enrollment** – Students must maintain full-time enrollment status during the entire pathway.
- **Academic Prerequisites** - Participants must complete all requirements for a baccalaureate degree in psychology from Le

Moyne College by the end of the spring semester of the fourth year of enrollment. Students must also complete the prerequisite courses for the master's program in that same timeframe and attain at least a 3.0 GPA in those courses with no grade lower than a B.

Academic Prerequisites for the Master of Science Program in Occupational Therapy

Code	Title	Credit Hours
	Anatomy & Physiology I with lab (BSC 201 at Le Moyne)	4
	Anatomy & Physiology II with lab (BSC 202 at Le Moyne)	4
	Neuroscience OR Brain and Behavior ¹	3
	Cultural Idea and/or Civilizations (i.e., World Literature, World Religions, History, American Studies, Women's Studies, Sociology, Anthropology)	3
	Lifespan OR Human Development	3
	Abnormal Psychology	3
	Statistics	3
	Medical Terminology ²	1
	English Composition or Technical Writing	3
	Humanities (i.e., Ethics, Philosophy, Theology)	3

¹ OTM 202: Concepts of Neuroscience is offered online in J-mester and Maymester

² OTM 201: Introduction to Medical Terminology is offered online during J-meseter and Maymester

Code	Title	Credit Hours
Core Curriculum to Satisfy the OT Program Prerequisites		
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
PHL 210	Moral Philosophy	3

Major Requirements to Satisfy the OT Program Prerequisites

PSY 101	Introductory Psychology	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
ANT 101/102/200	Introduction to Anthropology ¹	3

Electives to Satisfy the OT Program Prerequisites

PSY 220	Human Life Span Development ²	3
PSY 280	Abnormal/Normal Psychology	3
BSC 201	Human Anatomy & Physiology I	4
BSC 202	Human Anatomy & Physiology II	4
PSY 340	Brain and Behavior	3

Other Course Requirements

Medical Terminology ³	1
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¹ Other courses on cultural ideas can also fulfill this requirement as an OT program prerequisite.

² PSY 220 may be replaced with PSY 215 AND PSY 320.

³ OTM 201 Introduction to Medical Terminology is offered online in the J-mester and May-mester.

- **Clinical Observation Experience** - Participants must also complete an additional 30 hours of clinical observation hours or work experience under the supervision of a licensed occupational therapist in multiple settings with multiple clients and submit as part of the OTCAS (Occupational Therapy Centralized Application Service) application.
- **OTCAS Application** – Participants will need to file the OTCAS application in their fourth year of study by the February 15 deadline and will be responsible for the application fee.
- **Moral and Ethical Fitness** - During all phases of the program, a student must remain in good moral and ethical standing appropriate to the pursuit of a career as an occupational therapist and eventual professional licensure. Failure to do so will result in dismissal from the program.

Criminology Major (B.A.)

Criminology is the scientific study of crime and its causes. The major in criminology is designed for the student interested in understanding crime and who appreciates approaches to crime and justice that are consistent with a liberal arts environment in the Jesuit tradition. The program is interdisciplinary, drawing on the social and natural sciences, humanities and relevant professional disciplines.

Criminology Major (B.A.)

The following courses are required regardless of concentration.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	6
& HST 111	and World Civilization II	
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
CJS 101	Introduction to Criminology	3
CJS 201	Research Methods	3
CJS 220	The Criminal Justice System	3
CJS 305	Criminological Theory	3
CJS 451	Capstone Course in Criminology and Sociology	3

Major Support Requirements

MTH 111	Introduction to Statistics I (with Computer Lab)	4
Language (through 104, at least one class to be taken in the same language at Le Moyne) ²		
Electives		
Select a total of 10 classes with 9 from lists 1 and 2, chosen with at least 3 from each.		30
Total Credits		120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Students must complete two semesters of intermediate-level courses or demonstrate equivalent proficiency. Four three-credit course slots are reserved for students to meet this requirement but those able to begin language study above the 101 level will be able to complete the requirement with fewer courses. All students will be required to take at least one course regardless of the level at which they begin. Students interested in federal law enforcement or counter-terrorism should strongly consider taking Arabic to meet their language requirement. Students unsure of their career interest may want to consider delaying language courses until their sophomore year. Upon completing their world language course work in Spanish or French, students are encouraged to consult with their advisors on the benefits of taking the nationally recognized Oral Proficiency Interview (OPI), which is administered by the World Languages, Literatures and Cultures department.

Electives

Code	Title	Credit Hours
List 1 - Human Services/Law Enforcement		
CJS 232	Family Violence	3
SOC 240	Social Welfare	3
SOC 241	Social Inequality	3
CJS 244	Race and Ethnic Relations	3
CJS 323	Juvenile Delinquency	3
CJS 326	Deviance	3
CJS 335	Psychology and the Law	3
SOC 344	Gender and Society	3
CJS 345	Conflict Resolution	3
CJS 351	Victimology	3
List 2 - Analytical/Cultural/Policy		
ANT 223	Global Crime	3
CJS 225	Gangs and Criminal Community	3
ANT 303	Social Theory in Anthro/Sociol	3
CJS 202	Gender and Crime	3
CJS 226	Extreme Murder	3
CJS 321	Law, Society & Social Science	3
CJS 322	Economics of Crime and Punishment	3
CJS 343	Immigration	3
CJS 381	Understanding Modern Terrorism	3
SOC 402	Program Evaluation Research Methods And Policy	3
SOC 444	Gender and Global Violence	3
Other CJS electives that can be counted toward the 10 total:		

CJS 390	Independent Study in Criminology	1-3
CJS 490	Internship in Criminology	1-6
CJS 496	Honors Project in Criminology	3-6
CJS 499	Research in Criminology	3-6

List 3 - Each student must choose any two classes from this list:

ANT 213	People&Cultures Southeast Asia	3
ANT 300	Anthropological Linguistics	3
HST 316	History of American Law	3
HST 350	State and Faith in the Middle East	3
HST 379	Modern Middle East History 1792- Present	3
HST 388	Coca, Culture & Politics in Latin Amer	3
HST 406	Seminar: Modern East Asia	3
HST 417	Seminar: African History	3
PSC 207	Power and Justice	3
PSC 301	The U.S. Supreme Court	3
PSC 332	Public Policy	3
PSC 362	International Law	3
PSC 451	American Constitutional Law I	3
PSC 452	American Constitutional Law II	3
PSY 220	Human Life Span Development	3
PSY 280	Abnormal/Normal Psychology	3

Course	Title	Credit Hours
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Freshman Year

First Semester

WRT 101	Critical Writing	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
CJS 101	Introduction to Criminology	3

Credit Hours 15

Second Semester

PHL 110	Introduction to Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 111	World Civilization II	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
Science		3

Credit Hours 16

Sophomore Year

First Semester

ENG 210	Major Authors	3
Language		3
Theology (p. 61)		3
CJS 201	Research Methods	3
Major Elective		3

Credit Hours 15

Second Semester

PHL 210	Moral Philosophy	3
Language		3
CJS 220	The Criminal Justice System	3

Major Elective	3
Major Elective	3
Credit Hours	15

Junior Year

First Semester

ENG 310	Literature and Culture	3
CJS 305	Criminological Theory	3
Major Elective		3
Major Elective		3
DIV Diversity or Free Elective (p. 61)		3
VPA Visual & Performing Arts (p. 61)		1

Credit Hours 16

Second Semester

IDS Interdisciplinary Studies (p. 61)	3
Major Elective	3
Major Elective	3
Major Elective	3
DIV Diversity or Free Elective (p. 61)	3

Credit Hours 15

Senior Year

First Semester

Select one of the following:	3
Religion (p. 61)	

COR 400	Senior Studies: Transformations	
Major Elective		3
Major Elective		3
Free Elective		3
Free Elective		3

Credit Hours 15

Second Semester

Select one of the following:	3
COR 400	Senior Studies: Transformations

Religion (p. 61)		
Major Elective		3
Major Elective		3
Free Elective		3
CJS 451	Capstone Course in Criminology and Sociology	3

Credit Hours 15

Total Credit Hours 122

Criminology Minor

Students who wish to minor in criminology and criminal justice should contact the chair of the department as early as possible, but no later than the beginning of the junior year, to discuss student interests and the best timing of courses to fit those interests. A prospectus will be submitted at that time which includes a statement outlining the student's interests in the area and a schedule which will allow successful completion of the course requirements. Post facto completion of the minor may not be approved.

The minor program in criminology and criminal justice requires the five courses, 15 credit hours, listed below.

Code	Title	Credit Hours
Minor Requirements		
CJS 101	Introduction to Criminology	3
CJS 305	Criminological Theory	3
Select any three of the following courses: ¹		9
CJS 201	Research Methods	
CJS 202	Gender and Crime	
CJS 220	The Criminal Justice System	
CJS 226	Extreme Murder	
CJS 232	Family Violence	
CJS 321	Law, Society & Social Science	
CJS 322	Economics of Crime and Punishment	
CJS 323	Juvenile Delinquency	
CJS 326	Deviance	
CJS 335	Psychology and the Law	
CJS 345	Conflict Resolution	
CJS 351	Victimology	
CJS 381	Understanding Modern Terrorism	
Total Credit Hours		15

¹ Note: other CJS-related courses may count toward the minor, but are subject to Department approval.

Anthropology Minor

Anthropology takes a holistic approach to the study of humankind by examining its cultural, social, linguistic, biological-evolutionary, environmental and historical dimensions. It is an interdisciplinary field that draws on the methods and theories of both the social sciences and the humanities. Its core concept is 'culture' and its hallmark methodology is long-term participant observational fieldwork. Study in anthropology not only develops within students an understanding and appreciation of societies and cultures different than their own, but also provides a critical understanding of how Western societies have viewed and interacted with other societies.

Because of its focus on cross-cultural and international issues and analysis, study in anthropology is particularly useful for students considering careers in fields such as college teaching and research, international business and law, foreign service and diplomacy, private and governmental development and foreign aid programs, missions and human rights. Anthropology also provides valuable training for students considering careers in human service fields such as social work, counseling, health care delivery and education.

The Anthropology Program offers a minor in anthropology and a major concentration within the sociology major.

Anthropology Minor

The minor in anthropology provides students with knowledge of the field of anthropology that significantly goes beyond that gained in the introductory course. Students gain substantial exposure to at least two of the four sub-fields of anthropology (sociocultural, biological, archaeological and linguistic) and to a particular ethnographic area, as well as to other topical areas.

This minor readily complements majors in other social sciences, the humanities, business and management and the natural sciences

(especially biology), and broadens students' knowledge of cultures other than their own.

Students who wish to minor in anthropology should contact the program director as early as possible in their career at Le Moyne.

The minor requires 15 credit hours to include:

Code	Title	Credit Hours
Minor Requirements		
ANT 101	Introduction to Anthropology	3
ANT 300	Anthropological Linguistics	3
ANT 213	People&Cultures Southeast Asia	3
Select two other anthropology courses, ANT 303 highly recommended		6
Total Credit Hours		15

NOTE: A student majoring in sociology who chooses to minor in anthropology must complete the anthropology minor requirements separately from the sociology major requirements with the exception of ANT 303 Social Theory in Anthro/Sociol (SOC 303 Social Theory in Anthro/Sociol), which may be counted toward the major in sociology and the minor in anthropology.

Race in American Society Minor

The Race in American Society minor complements a student's major discipline with the knowledge and essential skills needed to understand the increasingly complicated mosaic that is American society and to acquire the skills to become an anti-racist activist.

The curricular learning goals are:

1. Students completing this curriculum will be able to distinguish between prejudice and discrimination (thought versus action) in individuals
2. Students completing this curriculum will be able to identify elements of social structure that systematically disadvantage people of color, and to distinguish between individual racism and institutional racism
3. Students completing this curriculum will be able to identify elements of social structure that systematically privilege people who are identified as "white"
4. Students completing this curriculum will explore and gain an appreciation of the contributions of all groups that comprise the mosaic of American culture
5. Students completing this curriculum will be able to draw on scholarly, peer-reviewed, published work that supports the role of race in American society
6. Students completing this curriculum will have the tools to become anti-racist activists.

The Race in American Society minor requires 15 hours of course work, two required courses (RAS101 and RAS401) and three courses approved by the Director. At least one of the three support courses must be in the Humanities; at least one of the three support courses must be in the Social Sciences.

Code	Title	Credit Hours
RAS 101	Introduction to Race in American Society	3
RAS 401	Capston Course: Race in American Society	3
Approved Support Course #1		3
Approved Support Course #2		3
Approved Support Course #3		3
Total Credit Hours		15

BIOLOGICAL AND ENVIRONMENTAL SCIENCES

Chair: Patrick Yurco

Program Director: Hilary A. McManus (of Environmental Science Systems Environmental Studies)

Professor: Lara R. DeRuisseau, Devon B. Keeney, Beth F. Mitchell, Lawrence H. Tanner

Associate Professor: Emily D. Ledgerwood, Jason D. Lusier, Hilary A. McManus, Beth B. Pritts, Sherilyn G.F. Smith, Patrick Yurco

Assistant Professor: Daniel P. Kane, Cinnamon M. Pace

Professor of Practice: Chad A. Corcoran, Blair Page

Visiting Assistant Professor: Anthony Romeo, H. John Sharifi

Adjunct Faculty: Sheena Britton, Kristin Brown, Veronica Budelmann, Suzanne DeTore-Wilsey, Gary Hoole, Molly Letsch, Lewis McCafrey, Donald McCrimmon, Mariane McLaughlin, Teresa Powrozek, Wendy Scherer

Professor Emeritus: Garritt J. Lugthart Jr., Andrew Szebenyi, S.J.

Lab Coordinator: Joyce Green, Joseph Perrotta

Biological Sciences

The Department of Biological and Environmental Sciences offers B.A. and B.S. degree programs in biological sciences and B.S. degrees in environmental science systems and environmental studies. Students interested in graduate study in biology; in medical, dental or veterinary training; or in forensics should choose one of the B.S. programs in biological sciences with two or more years of chemistry. Those interested in a B.A. in Biological Sciences may elect a broad range of courses in the humanities or social sciences in place of the advanced chemistry or physics normally taken with the B.S. program. The B.A. program offers an optional concentration in biological education for students interested in teaching biological content to K-12 students. Students interested in environmental science should consider the multidisciplinary or systems approach to global environmental problems offered through the B.A. or B.S. in Environmental Science Systems. Students interested in social, economic or policy aspects of the environment should consider the interdisciplinary major in environmental studies (see Interdisciplinary Programs (p. 76) section of this catalog). In addition, minors in biological sciences, environmental science systems and environmental studies are available. Students interested in a major in biochemistry, can find it in the Interdisciplinary Programs (p. 66) section of the catalog.

In addition to the above, a five-year program leading to a B.S. degree in biological sciences and an M.S. in physician assistant studies is available to successful applicants. Through an articulation with Syracuse University's College of Engineering, students can also pursue a five-year program leading to either a B.A. in Biological Sciences and M.S. Bioengineering (see G (p. 106)raduate Program Pathways (p. 106)). Students interested in this option should choose one of the pre-engineering concentrations. An additional articulation with Syracuse University allows qualified students to apply for a five-year program leading to a B.S. in biological sciences and an M.S. in forensic

science or biomedical forensic sciences. For more information see the G (p. 106)raduate Program Pathways (p. 106) section of this catalog.

All students are encouraged to conduct research with faculty members.

College policy requires students to achieve a minimum GPA of 2.0 in their major in order to graduate. To help ensure that students can graduate on time, the department of biological and environmental sciences policy states that if students have not achieved a major (biological sciences or environmental sciences) GPA of at least 2.0 after taking 12 credits of Le Moyne BIO or ESS courses (3 lab courses), they will have one semester to raise their GPA to above 2.0. If a student does not achieve a minimum of 2.0 in the major at the end of that semester, he or she will need to petition the department in order to remain a biological or environmental sciences major.

Environmental Science Systems

The Environmental Science Systems major emphasizes a multidisciplinary or systems approach to scientific and environmental problems. The primary goal of the major is to train majors in a systems approach to scientific problems in general and problems of global change in particular. By exposing students to the problems of understanding, measuring, and predicting the consequences of global change, and by providing them with field-based research experiences at an early point in their academic careers, we hope to stimulate an interest in these young scientists in pursuing research-oriented career paths. Students interested in learning about the Bachelor of Science in Environmental Studies should visit the page on Interdisciplinary Programs (p. 76).

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Student Learning Outcomes in Biology

Students who graduate from this program will be able to:

Disciplinary knowledge

Demonstrate disciplinary knowledge at the different levels of biological organization.

Search Scientific Literature

Search and evaluate the scientific literature in order to identify acceptable sources.

Analyze and Interpret the Scientific Literature

Critically read the scientific literature in order to evaluate the scientific process.

Communicate

Effectively communicate scientific information.

Scientific process

Apply the scientific process through observation, experimentation, and hypothesis testing.

Human activities

Articulate the biological consequences associated with human activities.

Student Learning Outcomes in Environmental Science Systems

Students who graduate from this program will be able to:

Physical environment

Demonstrate an understanding of how Earth's biological communities (ecological systems) are controlled by the physical environment.

Diversity

Demonstrate knowledge of the diversity of biological communities and their evolution and distribution on Earth.

Scientific process

Apply the scientific process to the study of environmental problems through the design and execution of research.

Origin and exploitation

Demonstrate an understanding of the origin of natural resources and the environmental and societal consequences of their exploitation.

- Biological Sciences Major (B.S.) (p. 145)
- Biological Sciences Major (B.A.) (p. 148)
 - B.A. in Biology with a Concentration in Pre-Engineering (p. 148)
- Biology Minor (p. 154)
- Biology & Computer Science Minor (p. 69)
- Environmental Science Systems Major (B.A.) (p. 155)
- Environmental Science Systems Major (B.S.) (p. 155)
 - Environmental Science Systems (B.S.) with a Concentration in Pre-Engineering (p. 156)
- Environmental Science Systems Minor (p. 158)
- Environmental Studies Major (B.S.) (p. 76)
- Environmental Studies Major (B.A.) (p. 77)
- Environmental Studies Minor (p. 78)
- Forensic Sciences (p. 160)

Biology (BIO)

BIO 191. General Biology I. 4 Credit Hours.

This course introduces fundamental unifying principles of biology. Topics include the scientific method, biological chemistry, cell structure and function, membranes, energetics, cellular regulation and control, genetics, cell division and evolution. Three hours lecture and three hours laboratory per week. Carries biology major credit.

BIO 192. General Biology II. 4 Credit Hours.

This course, while continuing to stress fundamental unifying principles of biology, presents the mechanisms that allow all living organisms to meet the common requirements for life. Topics include classification/diversity; basic characteristics of all kingdoms of life; plant and animal development, form and physiology; ecology and population biology. Three hours lecture and three hours laboratory per week. Dissection required. Carries biology major credit.

Prerequisite: BIO 191 or permission.

BIO 218. Cell and Molecular Biology. 4 Credit Hours.

This course is designed to introduce the student to cell biology and the concepts of genetics at the molecular level. Basic concepts of cell structure and function are presented from a biochemical perspective. Topics include metabolism, membranes, cytoskeleton, motility, and replication and expression of genetic information. Three hours lecture and three and a half hours laboratory per week. Carries biology major credit.

Prerequisites: BIO 191 and BIO 192; CHM 151 and CHM 152 recommended.

BIO 225. The Poisoning of a Planet. 3 Credit Hours.

The pollution of our air, land, and water is an ecological problem of epidemic proportions. However, before we can come to grips with this menace, we must understand what we are facing. Our present situation results from economic conflicts, social attitudes, political indecision and the overuse and misuse of scientific and technological ideas. In this course, we will examine environmental issues such as resource depletion, pollution, overpopulation, and the nuclear winter. We will begin with the biological and ecological basis of these problems and then, in a multidisciplinary fashion, address the possible solutions and consequences of these issues. Carries biology major credit.

Prerequisites: BIO 191 and BIO 192.

BIO 228. Ecosystems of Costa Rica. 3 Credit Hours.

This classroom/field course offers students of biology and environmental science systems the unique opportunity to study the fundamental properties of ecosystems and how the physical environment (climate, geography, geology) controls them, with specific reference to tropical and temperate ecosystems. This study will involve travel for an extended period to Costa Rica, in addition to two weekend daytrips in central New York State. Field-based learning activities examine the ranges of biological diversity and differences in ecosystem structure, and the geological and ecological processes that determine ecosystem structure and function in these two locations. Note: Course satisfies BIO major requirement for ecology/population distribution and ESSS travel course requirement. Additional fees will be required for this course.

Prerequisite: BIO 191.

Cross-listed Courses: ESS 228

BIO 230. General Ecology. 4 Credit Hours.

This course uses an evolutionary approach to the study of the interrelationships of organisms with their environments. Topics include competition, co-evolution, population growth and regulation, demography, and predator-prey relationships. Laboratory work includes field study and basic methods for evaluation of data. Three hours lecture and three hours laboratory per week. Carries biology major credit.

Prerequisites: BIO 191 and BIO 192.

BIO 237. Ecology of the Galapagos. 3 Credit Hours.

This course allows students to study, in both classroom and field settings, the delicate balance between geological, biological, climatologic and anthropogenic processes in shaping ecological environments, with specific focus on the biogeography of tropical islands. The Galapagos Archipelago is a singular locale where the fragile nature of the environment, the processes that shape it, and the unique nature of its inhabitants are readily observed. Additionally, the historic significance of this locale in the development of one of the foundational theories of modern science will be explored fully. Additional expense for required travel component.

Prerequisite: BIO 191 and BIO 192.

Cross-listed Courses: ESS 237

BIO 245. Evolution. 4 Credit Hours.

The nature of the evolutionary process is studied from a number of relevant points of view, including geology, paleontology, comparative anatomy, genetics, molecular biology and anthropology. The significant influence of evolutionary concepts on human thought is discussed. Three hours lecture and three hours laboratory per week. Carries biology major credit.

Prerequisites: BIO 191 and BIO 192.

BIO 255. Animal Locomotion. 3 Credit Hours.

This course introduces the study of animal locomotion, one of the primary ways in which animals interact with their environment. Studying locomotion, and how it is influenced by both organismal and environmental factors, is a powerful way to gain insight into the relationships among morphology, physiology, evolutionary history, and habitat. Throughout the course we will examine the myriad and diverse ways that animals move on our planet. In addition, content will range from understanding how body structures, such as muscles, are important in generating movement to the physical principles that enable and constrain locomotion on land, air, and water. Lastly, we will also focus on the evolution of different locomotor patterns. The class is structured such that we will explore topics surrounding animal locomotion via content lectures, student led journal article discussions, and minilab activities. Participation is a crucial aspect of this course.

Prerequisites: BIO 191 and BIO 192.

BIO 265. Introduction to Geographic Information Systems. 4 Credit Hours.

This lab-based course introduces students to Geographic Information Systems (GIS), a system of integrated hardware, software and data-capture tools for the manipulation, modeling, analysis and display of geographic information. This course provides an introduction and practical experience with industry-standard software through three hours of lecture and a three-hour laboratory session each week. Carries BIO and ESS major credit.

Prerequisite: BIO 191.

Cross-listed Courses: ESS 265

BIO 270. Animal Behavior. 4 Credit Hours.

The mechanisms of animal and human behavior are investigated in a broad descriptive sample. Special emphasis is placed on the physiology, development and evolution of behavior patterns. Three hours lecture and three hours laboratory per week. Carries biology major credit.

Prerequisite: BIO 191, BIO 192 AND CHM 152.

Cross-listed Courses: PSY 303

BIO 275. Spring Field Botany. 3 Credit Hours.

The three-credit course will survey the spring flora of central New York, with daily excursions to various habitats to observe the diverse plants that support the regional ecosystem, with a special focus on spring ephemerals and native plants when flowering. Habitats may include local grasslands, sand dunes, peat bogs, old-growth forests, and wetlands. Plant identification and systematics will be the major focus, and students will learn human impacts and the importance of conservation of natural habitats and native species. Carries BIO and ESS major credit.

Prerequisites: Minimum of 6 BIO/ESS credits completed.

Cross-listed Courses: ESS 275

BIO 310. Field Ornithology. 4 Credit Hours.

This course will cover basic bird physiology, ecology, and conservation biology with a strong emphasis on field ecology. Students will be required to actively engage in bird identification, behavioral observation, and field data collection. This course will provide students with an extensive field experience aimed at broadening their view of the biological world around them. A major component to this course will be a Spring Break experience in southern Texas. Attaining experience in different ecoregions supplies students with a valuable perspective for thinking more broadly about biology. Additional expenses-travel expenses round-trip to McAllen, TX. Students must meet with the instructor before registration. Prerequisite(s): BIO 191 BIO 192.

Cross-listed Courses: ESS 310

BIO 315. Biology in Practice: Lab & Field Approach. 3 Credit Hours.

Aimed at providing students, especially those who are planning to teach, with additional laboratory field experience, this course explores empirical techniques currently used in a variety of biological subdisciplines. Formulation and testing of hypothesis, experimental design, data analysis and interpretation of results will be addressed. Students will have the opportunity to get hands-on experience with various techniques as well as methods analysis. A major objective of the course is the development of exercises utilizing these techniques to foster inquiry-based learning in biology. Writing techniques appropriate to the discipline will also be an important component.

Prerequisites: BIO 191, BIO 192, BIO 218.

BIO 320. Genetics. 4 Credit Hours.

This course will teach students the fundamental concepts underlying the field of genetics and introduce them to the increasing role that genetics plays in society. Lectures and labs will cover principles of both classical and molecular genetics. Topics covered include inheritance, gene expression, population genetics, and biotechnology. Three hours lecture and three hours laboratory weekly. Carries biology major credit.

Prerequisite: BIO 218.

BIO 321. Developmental Biology. 4 Credit Hours.

This course will study embryogenesis (fertilization to birth) as well as development during later stages of life. We will examine the cellular, genetic, and molecular aspects of these processes in a number of different species. This information will be supplemented with the experimental data that led to these discoveries. The laboratory portion of this course will involve students designing and carrying out their own experiments. Three hours lecture and three hours laboratory per week. Carries biology major credit.

Prerequisite: BIO 218.

BIO 322. Histology. 4 Credit Hours.

Following a consideration of fundamental tissues, most of the organ systems of the mammalian body are studied showing how these systems are actually combinations of the basic tissues. Three hours lecture and three hours laboratory per week. Carries biology major credit.

Prerequisites: BIO 191, BIO 192, BIO 218.

BIO 325. Microbiology. 4 Credit Hours.

This course emphasizes bacteria, but also deals with other groups of organisms recognized as microbes. Topics include the structure, physiology, differentiation and genetics of microorganisms, as well as ecological, industrial and disease relationships. CHM 223 and CHM 224 recommended. Three hours lecture and four hours laboratory per week. Carries biology major credit.

Prerequisites: BIO 191 BIO 192, BIO 218.

BIO 327. Botany - The Biology of Plants. 4 Credit Hours.

The activities of plants support life on earth. An understanding of the biology of plants influences the welfare of humans and other animals. This course explores the diversity and basic biology of plants. Topics include classification, physiology, morphology, evolution, and life cycles.

Prerequisites or corequisites: BIO 191 and BIO 192, CHM 151 and CHM 152. Three hours lecture and three hours laboratory per week. Carries biology major credit.

BIO 329. Field Botany. 4 Credit Hours.

The four-credit course will survey the flora of central New York, with excursions to various habitats including grasslands, sand dunes, peat bogs, old-growth forests, and wetlands. Plant identification and systematics will be the major focus, and students will learn how to create and curate an herbarium, compare the species composition of the various habitats, and learn human impacts and the importance of conservation of natural habitats and native species. The six hour block allows for travel and time in the field.

Prerequisites: BIO 191 and BIO 192.

Cross-listed Courses: ESS 329

BIO 330. Tropical Marine Biology. 4 Credit Hours.

Tropical ecology differs in many respects from that of temperate regions. The most striking of these differences occurs in the marine environment. Semester activities will include weekly meetings in which we will examine the flora, fauna and processes that characterize tropical marine systems. The course will end with 10-14 days of intensive field work in the Bahamas, studying the principles discussed in class with special attention to field and lab work as well as an individual research project. Separate fees will be required for the field portion of the course. Carries biology major credit.

Prerequisite: BIO 191 BIO 192 and permission of the instructor.

BIO 331. Anatomy and Physiology I. 4 Credit Hours.

Biology majors will study mammalian anatomy and physiology at a level appropriate for those interested in attending graduate programs in the health professions. This course is the first in a two-semester sequence. Following an overview of terminology and tissues, the skeletal, muscular, nervous, endocrine and integumentary systems will be covered. A mammal such as the cat, rabbit, or mink will serve as the primary whole-animal dissection in the laboratory; lab activities will integrate anatomy and physiology. Dissection required. Three hours of lecture and three hours of laboratory per week. Carries biology major credit. Students may take either BIO 431 or BIO 331-BIO 332, but not both. Depending on the course instructor, the class format may be primarily traditional lectures OR may incorporate the significant use of a Learning Management System, e-lectures, case studies, and discussion. Students should consult the department chair regarding the lecture format prior to registering for this course. Pre-requisites: BIO 191 and BIO 192, CHM 151 and CHM 152, BIO 218 or permission of the instructor. Fulfills: Organismal group requirement.

BIO 332. Anatomy and Physiology II. 4 Credit Hours.

This course is a continuation of BIO 331 in which biology majors will continue their study of mammalian anatomy and physiology. Systems covered include the circulatory, immune, respiratory, digestive, urinary, and reproductive. The cat is the primary dissection specimen in the laboratory; lab activities will integrate anatomy and physiology. Dissection required. Three hours of lecture and three hours of laboratory per week. Carries biology major credit. Students may take either BIO 431 or BIO 331-BIO 332, but not both.

Prerequisites: BIO 191 and 192, CHM 151 and 152, and a grade of C or better in BIO 331.

BIO 335. Biodiversity. 4 Credit Hours.

The course is designed to acquaint the student with the phenomenal diversity of life with which we share this planet. To do this, we will refresh the students' memories concerning evolution and the various mechanisms through which communities of life forms have become adapted to their environment. We will spend some time with taxonomy and biogeography before we can begin to examine the current state of biodiversity as well as future trends. The implications of these trends will signal a stopping point for the course but will hopefully serve as a beginning for the student as they move away from Le Moyne and take a place in society.

Prerequisites: Minimum of 10 BIO/ESS credits.

Cross-listed Courses: ESS 335

BIO 340. Parasitology. 4 Credit Hours.

Parasitism is the most prevalent and one of the most biologically complex of all symbiotic relationships. Parasites historically have had and continue to have a tremendous impact on the health and welfare of humans and other animals. This course explores the diversity of parasitic organisms and the adaptations which permit them to live in or on other organisms, as well as consequences to the host. Prerequisites or corequisites: BIO 191 and BIO 192 and one 200-level course. Three hours lecture and three hours laboratory per week. Carries biology major credit.

BIO 348. Environ Research in the Field: Iceland. 4 Credit Hours.

The environment of Iceland is shaped by the immensely dynamic geologic processes of active volcanoes and glaciers, but this environment is also deceptively fragile and subject to anthropogenic influence. The present landscape has resulted from this interaction of human and natural processes. A semester of classroom activity culminates in a field session where students conduct research on the processes of environmental change in Iceland.

Prerequisites: BIO 230 or ESS 205 or permission of instructor.

Cross-listed Courses: ESS 348

BIO 350. Invertebrate Biology. 4 Credit Hours.

This course introduces the study of invertebrate animals; classification, structure and life cycles are presented in detail. Three hours lecture and three hours laboratory per week. Carries biology major credit.

Prerequisites: BIO 191 and BIO 192.

BIO 360. Insect Ecology. 4 Credit Hours.

Insects outnumber all other species on this planet, and they have crucial roles in ecosystem structure and processes. This course explores the diversity of interactions between insects and other organisms in ecosystems, as well as insects' impact on the non-living environment. Three hours lecture and three hours laboratory per week. Carries biology major credit.

Prerequisites: BIO 191, BIO 192, BIO 225.

BIO 365. Criminalistics for Biologists. 3 Credit Hours.

This course will allow upper level biology majors to discover how information they have learned in their natural and physical science courses is utilized in criminalistics. In addition to lectures, students will participate in a number of hands on mini-laboratory sessions that will allow them to perform techniques used in the collection of evidence from a crime scene, as well as laboratory analyses of this evidence. Carries biology major credit.

Prerequisites: BIO 218 and CHM 151 and CHM 152; recommended courses include completion of BIO 281 and BIO 282 and two semesters of physics.

BIO 375. Introduction to Neurobiology. 4 Credit Hours.

The uniqueness of the central nervous system is explored in lectures and laboratory sessions dealing with the developmental, anatomical, and physiological aspects of neurobiology. This course is intended for biology and psychology majors and may be taken by others who are minoring in biology. Three lectures and three hours laboratory per week.

Prerequisites and corequisites: BIO 191 and BIO 192, BIO 218; CHM 223 is recommended, or by permission of instructor.

BIO 380. Information in the Biological Sciences. 1 Credit Hour.

This course will introduce the changing information landscape in the biological sciences, and help students become advanced database and "free web" searchers. Students will also become familiar with the social and ethical issues relating to the production and use of scientific information in an increasingly digital society. Prerequisite(s): BIO 191, BIO 192, and BIO 218 or permission of instructor.

Cross-listed Courses: LIB 380

BIO 381. Disease and Disorders of the Nervous System. 3 Credit Hours.

This course will examine several diseases and disorders of the nervous system. Symptoms, diagnoses, and prognoses of numerous pathologies will be investigated along with in-depth discussions of the anatomical and physiological changes that occur relative to the healthy nervous system. A particular emphasis will be placed on cellular and molecular changes. Students will supplement lecture material with primary literature searches investigating ongoing research including current and future strategies to treat and detect the disorders. Case studies will also be utilized to demonstrate how dysfunction can manifest in the patient, subsequently reinforcing our understanding of how the nervous system performs.

Prerequisites: BIO 218; also BIO 281 and BIO 282 or BIO 375 or permission of the instructor.

BIO 390. Independent Study in Biology & Environmental Systems. 1-3 Credit Hours.

A student may pursue a semester or more of independent study in a specialized area of biology of mutual interest to the student and one or more members of the faculty in the department. This course is for the above average student whose interests and abilities go farther than normal course offerings. Proposals, indicating credit sought, must have approval prior to registration. Prerequisites or corequisites: 15 credit hours in BIO in addition to BIO 380. Carries biology major credit for the tenth biology course.

Cross-listed Courses: ESS 390

BIO 409. Virology. 3 Credit Hours.

This course will explore fundamental aspects of viral biology including viral replication strategies, structural attributes, virus evolution and tactics used by viruses to evade host immune responses. Several currently relevant viruses will be discussed in detail to explore how molecular features of viruses impact human disease. In addition, we will discuss the broader applications of virology with particular emphasis on viruses and cancer, the use of viruses in vaccine approaches and gene therapy, targeting bacterial infections with bacteriophage and newly emerging viruses. In addition to lecture material, students will critically read and discuss primary virological literature.

Prerequisite: BIO 218.

BIO 410. Toxicology. 3 Credit Hours.

This course is designed to be of interest to students of environmental biology as well as those planning for a career in the health professions. General principles and mechanisms of toxicology, effects of exposure to different types of toxins, and various applications of toxicology will be discussed. Prerequisites or corequisites: BIO 191, BIO 192, BIO 218; CHM 223, and CHM 224. Three hours of lecture per week. Carries Biology major credit.

BIO 412. Immunology. 3 Credit Hours.

This course will offer students the opportunity to study the function of one of the human body's most intricate, and somewhat underappreciated systems. Students will examine how the human immune system is capable of producing a coordinated response to combat infectious organisms as well as what can happen when the immune system functions improperly. Coupled with establishing a base of immunology fundamentals will be the opportunity for the students to apply the knowledge acquired from text readings and from lecture. Through the individual and group discussion of primary scientific literature throughout the semester the student will be able to develop critical thinking and analytical skills. Three hours of lecture per week. BIO 281 and BIO 282 are recommended.

Prerequisite: BIO 218.

BIO 415. Pathogenic Microbiology. 4 Credit Hours.

The interaction between a pathogen and its host has two potential outcomes, resistance or disease. Pathogenic microbiology, therefore, is a discipline that demands an understanding of the microorganisms that cause disease, the human immune system and the mechanistic interplay between the two. This course aims to provide foundational knowledge in the area of host-pathogen interactions. Following an introduction to the microbes that naturally colonize humans, students will learn the molecular mechanisms used by microbial pathogens to overcome host barriers to infection. We will then begin a survey of clinically relevant microbial pathogens, including those that have the potential to be used as bioterror agents. We will end the semester with an in-depth examination of methods to detect infectious agents and therapeutics to limit disease. Three hours lecture and three hours laboratory per week. Carries biology major credit.

Prerequisites: BIO 218.

BIO 418. Advanced Molecular Biology. 4 Credit Hours.

This is an advanced, lab-intensive course focusing on the application and development of molecular genetic data. Lectures will focus on the practical applications of molecular data to address ecological, evolutionary, and medical questions. Lectures will also provide students with the theoretical background necessary to understand current molecular analytical and lab techniques. Labs will provide students with hands-on experience generating and analyzing molecular genetic data. Two hours lecture and six hours laboratory per week. prerequisites or corequisites: BIO 218; CHM 223 and CHM 224 and at least junior standing.

BIO 420. Special Topics in Biology. 3 Credit Hours.

Courses in this series (BIO 420-426) offer an in-depth exploration of specific issues within the field of biology, as well as topics of current interest to students and instructors.

Prerequisite: 15 credit hours in biology and permission of instructor.

BIO 427. Bioinformatics. 4 Credit Hours.

Bioinformatics is the use of computer technology to store and analyze large genetic and genomic datasets. The availability of these datasets and increasing computational abilities have led to a "bioinformatics revolution" in biology with applications in many biological disciplines, including molecular ecology and health care. In this course, students will learn the theory behind the major concepts of bioinformatics and apply this knowledge analyzing biological datasets in computer labs. Topics covered may include searching sequence databases, sequence alignment, sequence motif discovery, phylogenetic analyses, analysis of protein and nucleic acid structure and genome mapping. Three hours lecture and three hours computer laboratory per week. Carries biology major credit.

Prerequisites: BIO 218.

BIO 428. Research in Tropical Biology Biology. 4 Credit Hours.

A variety of ecosystems exist throughout the tropics and are home to the majority of the terrestrial biodiversity found around the globe. Studies of organismal interactions and species diversity are still leading to the creation of new scientific knowledge and discovery of new species, and Costa Rica represents a county with diverse tropical forests that form the basis for many of these discoveries. This upper-level field-experience course will allow students to search, analyze and interpret the scientific literature during classroom activities at Le Moyne College, then apply the scientific process through observation, experimentation, and hypothesis testing during a 10 to 15 day session in Costa Rica. Additional fees will be required for the travel component of this course. Registration by instructor approval. Carries BIO and ESS major credit.

Prerequisites: BIO 191 and BIO 192.

Cross-listed Courses: ESS 428

BIO 431. Mammalian Physiology. 3 Credit Hours.

This course is designed to teach basic principles of mammalian physiology involving the following systems: nervous, endocrine, muscular, circulatory, excretory, digestive, immune and reproductive. CHM 223-224 recommended. Carries biology major credit. Students may take either BIO 431 or BIO 281 and BIO 282, but not both.

Prerequisites: BIO 191-192, BIO 218.

BIO 450. Biology of Sharks. 3 Credit Hours.

Few organisms fascinate humans as much as sharks and their relatives, the skates, rays and chimaeras (class Chondrichthyes). Despite this, many people lack an understanding of these fishes and their beliefs and opinions are biased by misperceptions that permeate society.

This course provides a detailed overview of the biology of sharks, including morphology, physiology, ecology, behavior, and genetics. Special emphasis will also be placed on the evolution and diversity of sharks and shark-human interactions, including shark fisheries.

Prerequisites: BIO 218 and BIO 225.

BIO 458. Global Climate Systems. 3 Credit Hours.

In this class, students will come to recognize that Earth's biosphere, atmosphere, hydrosphere, and geosphere operate in complexly linked systems in which various components are exchanged over greatly varying time scales. Using laboratory and field studies, students will measure, discuss and define the impact of global change on natural systems.

Prerequisites: CHM 151 and CHM 152 and a minimum of 15 credits of BIO, including at least one course in the Ecology/Population Biology Area.

Cross-listed Courses: ESS 458

BIO 460. Biochemistry I. 3 Credit Hours.

A lecture course in the chemistry of physiologically relevant compounds. These include proteins, nucleic acids, carbohydrates and lipids. The interactions, regulation and metabolism of these compounds will be introduced. Three hours of lecture per week. Carries biology major credit. Prerequisites: CHM 224 and BIO 191 or permission of instructor.

Cross-listed Courses: CHM 460

BIO 461. Biochemistry II. 3 Credit Hours.

This course is a continuation of BIO 460. Topics to be covered include cellular metabolism and energy production; synthesis and degradation of lipids, amino acids, nucleotides; and regulation of gene expression. Carries biology major credit. Prerequisite: BIO 460.

Cross-listed Courses: CHM 461

BIO 462. Biochemistry Laboratory. 2 Credit Hours.

This laboratory will introduce techniques for studying proteins, nucleic acids and lipids. Prerequisite or corequisite: BIO 460. Carries biology major credit. Prerequisites: CHM 224 and BIO 191, or permission of instructor.

Cross-listed Courses: CHM 462

BIO 470. Seminar: Environmental Topics. 3 Credit Hours.

This advanced seminar provides students with the opportunity to explore the complexity of environmental issues in detail. By choosing current topics and analyzing the scientific and socio-economic factors underlying environmental problems, students will develop greater awareness and understanding of society's ability to mitigate these problems. This course places a high emphasis on oral and written presentation skills. Prerequisite(s): 20 credits in BIO, ESS, PSC, ECO from 200, 300 or 400 level courses.

Cross-listed Courses: PSC 470, ESS 470

BIO 475. Stem Cell Biology. 3 Credit Hours.

This course will examine the relatively new and expanding field of Stem Cell Biology. Students will dissect and analyze the most current primary literature from this exciting new field along with examining the basic science of molecular biology, fate determination, cell proliferation and differentiation. We will analyze the biology and ethics involved in this rapidly growing field and discuss the direction this field might and perhaps should go in. Throughout this course we will discuss how this field of study may impact our lives along with the potential benefits and dangers of this pursuit. Prerequisite: BIO 218.

BIO 480. Seminar: Biology of Cancer. 3 Credit Hours.

This seminar will offer advanced students the opportunity to further develop research and presentation skills required in graduate or medical school. Cancer biology is an area of intense research in fields ranging from toxicology and environmental biology to molecular biology. This seminar will examine the cell and molecular basis of cancer as a means to improve students' ability to critically evaluate the scientific literature. Students will select papers from the scientific literature for analysis and presentation in both written and oral formats. Students may be required to attend a scientific lecture off campus during the semester. Prerequisites or corequisites: BIO 218 and junior or senior standing in biological sciences or biochemistry or permission of the instructor. Three hours of lecture per week. Carries biology major credit.

BIO 481. Seminar: Endocrine Disruptors. 3 Credit Hours.

This seminar will offer upper level students in the sciences the opportunity to develop or enhance research and presentation skills required in graduate or professional school. Improper use and disposal of chemicals and physical agents by humans have caused a number of adverse effects in all living things. This seminar will specifically focus on environmental contaminants that have been shown to alter the function of the endocrine system in wildlife and humans. Although this course will utilize textbooks, it will rely heavily on the scientific literature for additional readings and assignments. Students may be required to attend one scientific lecture off campus during the semester. Prerequisites or corequisites: BIO 218, junior or senior standing in biological sciences or biochemistry or permission of the instructor. Carries biology major credit.

BIO 482. Seminar: Current Issues in Genetics. 3 Credit Hours.

This seminar will offer advanced students the opportunity to further develop skills of critically analyzing primary literature in the field of genetics and presenting those literature critiques. Genetics is at the foundation of all areas of biology. This seminar will examine both forward and reverse genetic approaches, mapping genes and creating gene knockouts to understand gene function and the implications to these broader areas of study. Students will select papers from the scientific literature for analysis and presentation in both written and oral formats. Students may be required to attend a scientific lecture off campus during the semester. Three hours of lecture per week. Carries biology major credit. Prerequisite(s): BIO 218 and permission of the instructor, BIO 320 is strongly recommended.

BIO 490. Internship in Biology. 1-3 Credit Hours.

The goal of this class is participation in a field-learning experience closely related to the student's major field of study. The student intern will meet regularly with his or her supervisor in the agency and will report as required to the faculty member assigned to supervise the internship. Students are expected to apply what they have learned in the academic program to the internship. An evaluation of the experience will also be required. The internship and placement must be approved by the faculty coordinator. Three hours of field work per week are required to generate one credit hour. Therefore, a three-credit internship will require at least nine hours on site per week. The number of credit hours to be awarded must be determined and contracted prior to registration. A signed Memorandum of Understanding (MOU) with the placement site must be on file with the Office of Career Services prior to the start of the internship experience.

Prerequisite: 64 credit hours of coursework in the major program or permission of the department chair.

BIO 499. Research in Bio & Environmental Systems. 1-3 Credit Hours.

The student conducts a laboratory or field investigation under the guidance of the faculty in the department. Proposals, indicating credits sought, must have approval prior to registration. Written research report and oral public presentation of the research are required. Prerequisites and corequisites: 15 credit hours in environmental science or biology in addition to BIO 380. For biology majors, three credits of BIO 499 carries credit for the 10th biology course. For ESS majors, three credits of ESS 499 is required for graduation.

Cross-listed Courses: ESS 499

Biological Sciences (BSC)

BSC 110. Paleobiology - Dinosaurs & Their World. 3 Credit Hours.

The term "paleobiology" encompasses the study of any ancient life, but this course focuses on a single group, the dinosaurs, an incredibly diverse assemblage of animals that dominated the ancient landscape for over 130 million years. The public appreciation and fascination with dinosaurs has grown steadily in the 180 years following their modern discovery. This course uses dinosaurs as a vehicle for a broader investigation of the biological and physical systems that comprise planet Earth, and the inter-related nature of these systems as they relate to the evolution and extinction of Earth's inhabitants over the vastness of geologic time. Does not carry biology major credit.

BSC 111. Ecology and the Environment. 3 Credit Hours.

This course focuses on basic ecological principles, especially the effects of human activities on our life-supporting environment. No prerequisite. Three hours lecture/ week. Does not carry biology major credit. This course may not be taken by biology majors as a free elective. Minors should consult with the department chair.

BSC 114. Survival of the Fitness. 3 Credit Hours.

This course will broadly examine the role of food, nutrition and exercise on the body. Current issues such as diabetes and obesity will be addressed from the lens of physical fitness and food intake. Students will survey their own fitness and participate in activities investigating the effects of physical activity on the body. Some class periods will be held in the recreation center. Does not carry biology major credit.

BSC 115. Hormones and Your Health. 3 Credit Hours.

This course for non-science majors, designed to fulfill the core science requirement, will introduce students to the importance of appropriate hormone function to their health. Students will learn basic concepts of hormone production, release, circulation throughout the body, and how hormones are required for proper body function. Alterations of normal hormone function by environmental toxins, one's health status and common medications will also be discussed. Three hours of lecture per week. Does not carry biology major credit.

BSC 129. Global Ecosystems: North America. 3 Credit Hours.

This introductory level field course will offer students the opportunity to study the fundamentals of ecosystem and earth science, with specific reference to North America. This study will involve travel for two weekends in the Adirondacks and for an extended weekend to northern Arizona. Field-based learning activities will examine the geological and ecological processes that determine the structure and function of these two systems. Does not carry Biology major credit. Satisfies Core science requirement.

Cross-listed Courses: ESS 129

BSC 135. Bodyworks: The Human Body. 3 Credit Hours.

This one semester course provides a study of the human body from combined anatomical and physiological perspectives. This course will include a "hands on" experiential component in order for students to engage in the scientific process. Such activities as measurement of physiological responses, and study of both dissected specimens and three dimensional models of human organ systems will enhance student learning. Does not carry biology major credit. Satisfies Core Science requirement.

BSC 201. Human Anatomy & Physiology I. 4 Credit Hours.

This course is the first in a two-semester sequence providing a study of anatomy and physiology in the human body. Initial portions of the course will include terminology, cell biology, biological chemistry, and tissues. Body systems covered include the skeletal, muscle, nervous, and integumentary. The cat is the primary dissection specimen in the laboratory. Dissection required. Pre-requisites: none. Three hours of lecture and two hours of laboratory per week. Does not carry biology major credit.

BSC 202. Human Anatomy & Physiology II. 4 Credit Hours.

This course is the second in a two-semester sequence providing a study of anatomy and physiology in the human body. Topics covered include the special senses, and the endocrine, circulatory, immune, respiratory, digestive, urinary and reproductive systems. Dissection required. Pre-requisites: a grade of C or better in BSC 201. Three hours of lecture and two hours of laboratory per week. Does not carry biology major credit.

BSC 203. Nutrition. 3 Credit Hours.

This course is designed to reinforce anatomy and physiology principles to further the understanding of nutrition's effect across the life cycle. It includes the study of nutrition as it relates to growth, development, general health, and disease conditions. It will include basic biological functions, classes of nutrients, and the key role nutrition plays in the prevention and treatment of disease.

Prerequisites: BSC 201 and BSC 202.

BSC 205. Basic Microbiology. 4 Credit Hours.

This course is a survey of microbial life with special emphasis on those organisms of clinical interest. Laboratory exercises emphasize the isolation, identification and control of microorganisms. Three hours of lecture and two hours laboratory per week. Prerequisite or corequisite: BSC 201 and BSC 202. Does not carry biology major credit.

BSC 310. Bugged: Insects in Human History. 3 Credit Hours.

Insect species make up over 50% of all animal species known on this planet. Successful in every habitat on earth, they dominate the land and the air. They have evolved amazing adaptations, including external skeletons, the ability to communicate using light, sound and sight, the ability to fly and to survive freezing, mimicry, complex symbiotic relationships with other organisms...the list goes on and on. This course is an exploration of this diversity as described by science and how various insects have impacted humans throughout history, whether for good or ill, using historical and religious writings, myths and folktales, plays, film and contemporary media. We will examine topics as diverse as why scarabs were sacred to the ancient Egyptians, how plague spread throughout the world in two major pandemics, and why dragonflies are termed "devil's darning needles." While lecture will be used to present some of the material, discussion and group work based on material read or seen will be a major component of the course. (NOTE: THIS COURSE DOES NOT FULFILL THE CORE REQUIREMENT FOR A NATURAL SCIENCE COURSE.) Fulfills Core Requirement(s): Interdisciplinary Studies (IDS). Prerequisite: COR 100 and Junior Standing.

BSC 330. The History of Cancer in Science and Medicine. 3 Credit Hours.

Cancer is a complex disease arising in a cell's DNA and characterized by uncontrolled cell division. Biological research in this field is aimed at explaining the events leading to the development and progression of human cancers. Medicine, in turn, relies heavily upon such scientific research to improve strategies to prevent and treat the disease. Advancement on either front requires cancer biologists and oncologists to be historians in their own right by using a rich history of discovery to make progress possible. From black bile to oncogenes as explanations for carcinogenesis or from radical mastectomies to immunotherapy as hopes for "the cure", the history of cancer is filled with centuries of visionaries, toppled dogma, serendipity, failure, and hope that have laid the cornerstones for our current understanding. This course introduces students from all majors to the basic cancer biology and medicine. This will be accomplished with the use of a historical narrative that highlights the many individuals and the key contributions which forged our current understanding of the disease, its treatment and perhaps its end. Junior standing required. (NOTE: THIS COURSE DOES NOT FULFILL THE CORE REQUIREMENT FOR A NATURAL SCIENCE COURSE.) Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

BSC 340. Brain and Behavior. 3 Credit Hours.

A study of the relationship of the brain and body to behavior. Emphasis is on the central nervous system. Topics include neuroanatomy, neural cell processes, hemispheric functions, hormonal regulation of behavior, physiological mechanisms involved in attention, arousal and sleep, and the neural bases of emotions learning and memory and psychological disorders. Does not carry biology major credit. Prerequisites: PSY 101 or permission of the instructor.

Cross-listed Courses: PSY 340

BSC 345. Pathophysiology. 3 Credit Hours.

This course is a comprehensive coverage of the basic pathophysiological mechanisms and specific diseases and disorders affecting all of the major organ systems of the human body. The concepts of pathophysiology, especially for the most commonly encountered diseases and disorders, are covered in detail, including such topics as genetics/heredity, immune system problems, inflammation and infection, endocrinology, and malignant processes. The etiology and progression of disease and disorder states are examined from the micro (cellular) and macro (organ) level. Does not carry biology major credit. Registration for this course is limited to nursing majors, except by permission from the Chair of Nursing.

Prerequisites: BSC 201, BSC 202 and BSC 205.

BSC 356. Nature: An Introduction to Wonder. 3 Credit Hours.

In a world obsessed with "connectivity," many people are, paradoxically, becoming less connected with nature, that is, with the entire natural world in which they live. This course endeavors to raise students' awareness and appreciation of the natural world of which we are all a part, using experiential, scientific, and humanistic approaches. Students will be challenged to assess and improve their own familiarity with nature and to discover or re-discover wonder, both in their own experiences of nature and in the writings and scientific studies of others. While lecture will be used to present some of the material, discussion based on material read or observations of nature will be a major component of the course, as will field experiences in nature. Junior standing required. (NOTE: THIS COURSE DOES NOT FULFILL THE CORE REQUIREMENT FOR A NATURAL SCIENCE COURSE.) Prerequisite: COR 100.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: ENG 356

Environmental Science Systems (ESS)

ESS 121. Global Resources. 3 Credit Hours.

Resources can be thought of as anything that an organism needs for survival. While this holds true for all life forms, in this class we will focus primarily on humans and human societies. The consumption of resources often results in a struggle for survival and this competition manifests itself at many levels, from the town and region (which tribes and ethnic groups have access to the best land and water supply); to the nation (control of the nation's oil, water, mines), and to the world at large. Does not carry biology major credit.

ESS 129. Global Ecosystems: North America. 3 Credit Hours.

This introductory level field course will offer students the opportunity to study the fundamentals of ecosystem and earth science, with specific reference to North America. This study will involve travel for two weekends in the Adirondacks and for an extended weekend to northern Arizona. Field-based learning activities will examine the geological and ecological processes that determine the structure and function of these two systems. Does not carry Biology major credit. Satisfies core science requirement. Additional fees will be required for this course. Does not carry biology major credit.

Cross-listed Courses: BSC 129

ESS 203. The Papal Climate Encyclical Critically explored. 3 Credit Hours.

This exploration of *Laudato Si* by Le Moyne College and SUNY College of Environmental Science and Forestry draws faculty and students to critically evaluate the case laid out in the encyclical that all humans have a responsibility to care for the Earth, "Our Common Home." It seeks to provide both a focus and a foundation to the question, how might we join together as environmental scientists, scholars and advocates for collaboration among secular and religious institutions as well as faith-based environmental activists? Counts as a major elective for ESS majors. Student carpooling will be arranged for transportation to the meeting location for this class. Prerequisite: EITHER one course in biology or environmental science [for ESS elective credit]; or one course in theology OR Junior standing or permission of the Instructor. (NOTE: THIS COURSE DOES NOT FULFILL THE CORE REQUIREMENT FOR A NATURAL SCIENCE COURSE.) Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

ESS 205. Physical Geology. 4 Credit Hours.

Physical Geology is an introduction to the study of the composition of the Earth and the processes that operate internally and at the surface. Students are introduced to basic geological concepts including plate tectonics, volcanoes, earthquakes, geologic time, types of rocks that form the crust and how they form, and surficial processes. Three hours lecture and three hours of laboratory per week. Does not carry biology major credit.

Prerequisites: BIO 191, BIO 192 and ESS 121.

ESS 228. Ecosystems of Costa Rica. 3 Credit Hours.

This classroom/field course offers students of biology and environmental science systems the unique opportunity to study the fundamental properties of ecosystems and how the physical environment (climate, geography, geology) controls them, with specific reference to tropical and temperate ecosystems. This study will involve travel for an extended period to Costa Rica, in addition to two weekend daytrips in central New York State. Field-based learning activities examine the ranges of biological diversity and differences in ecosystem structure, and the geological and ecological processes that determine ecosystem structure and function in these two locations. Note: Course satisfies BIO major requirement for ecology/population distribution and ESSS travel course requirement. Additional fees will be required for this course.

Prerequisite: BIO 191.

Cross-listed Courses: BIO 228

ESS 237. Ecology of the Galapagos. 3 Credit Hours.

This course allows students to study, in both classroom and field settings, the delicate balance between geological, biological, climatologic and anthropogenic processes in shaping ecological environments, with specific focus on the biogeography of tropical islands. The Galapagos Archipelago is a singular locale where the fragile nature of the environment, the processes that shape it, and the unique nature of its inhabitants are readily observed. Additionally, the historic significance of this locale in the development of one of the foundational theories of modern science will be explored fully. Additional expense for required travel component. Carries BIO and ESS major credit.

Prerequisite: BIO 191 and BIO 192.

Cross-listed Courses: BIO 237

ESS 238. History of Earth and Its Inhabitants. 4 Credit Hours.

This course utilizes readings, lectures, laboratory activities and field trips to examine the physical changes that have occurred on the surface of our planet and the history of life on earth. Key concepts include the tectonic evolution of North America and the fossil record of evolution, with emphasis on the geologic history of the New York region. Some travel may occur on weekends. Does not carry biology major credit.

Prerequisites: BSC 127, ESS 127, BSC 128, BSC 129 or ESS 205 or permission of instructor.

ESS 250. Water Resources. 4 Credit Hours.

This course shows the variety of ways that water impacts on the natural and man-made worlds. One of the original four 'elements', water is becoming more vital than ever, as a consequence of the continuing increases in human population, pollution, and changes in climate. The course explores the ancient concept of the water cycle in a modern context to give an appreciation of the importance of water and water quality to plants, animals and humans. Three hours lecture, three hours laboratory per week. Carries ESS major credit. Recommended: ESS 205. Does not carry biology major credit.

Prerequisites: CHM 151 and CHM 152.

ESS 260. Sustainability: Ecological Entrepreneurship. 3 Credit Hours.

The concept and practice of Sustainable Growth and Development have generated increasing concern over the past four decades. Recently, due to a heightened focus on climate change, ecological damage, rising inequalities of resource distribution, etc., even more attention and effort have been directed toward the concept of Sustainability. This course explores the connections among science, technology, products, and markets in the service of society, (emphasizing that none of these forces works in a vacuum), in order to study the many aspects of sustainability. Students are encouraged to be entrepreneurs of sustainability, acting to find a balance among social, ecological, and economic needs. Course satisfies Core Natural Science requirement. Sophomore standing or permission of the instructor. Does not carry biology major credit. Cross-listed Courses: ENS 260

ESS 265. Introduction to Geographic Information Systems. 4 Credit Hours.

This lab-based course introduces students to Geographic Information Systems (GIS), a system of integrated hardware, software and data-capture tools for the manipulation, modeling, analysis and display of geographic information. This course provides an introduction and practical experience with industry-standard software through three hours of lecture and a three-hour laboratory session each week. Carries BIO and ESS major credit.

Prerequisite: BIO 191.

Cross-listed Courses: BIO 265

ESS 275. Spring Field Botany. 3 Credit Hours.

The three-credit course will survey the spring flora of central New York, with daily excursions to various habitats to observe the diverse plants that support the regional ecosystem, with a special focus on spring ephemerals and native plants when flowering. Habitats may include local grasslands, sand dunes, peat bogs, old-growth forests, and wetlands. Plant identification and systematics will be the major focus, and students will learn human impacts and the importance of conservation of natural habitats and native species. Carries BIO and ESS major credit.

Prerequisites: Minimum of 6 BIO/ESS credits completed.

Cross-listed Courses: BIO 275

ESS 305. Environmental Economics. 3 Credit Hours.

Application of economic theory and models to critically analyze the state of the environments as well as to identify how we might bring improvements in environmental quality. Coverage of relationships and interactions of the public and private sectors in the creation and control of the different environmental issues. Junior standing required. Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: ECO 305

ESS 310. Field Ornithology. 4 Credit Hours.

This course will cover basic bird physiology, ecology, and conservation biology with a strong emphasis on field ecology. Students will be required to actively engage in bird identification, behavioral observation, and field data collection. This course will provide students with an extensive field experience aimed at broadening their view of the biological world around them. A major component to this course will be a Spring Break experience in southern Texas. Attaining experience in different ecoregions supplies students with a valuable perspective for thinking more broadly about biology. Additional expenses-travel expenses round-trip to McAllen, TX. Students must meet with the instructor before registration. Prerequisite(s): BIO 191 BIO 192.

Cross-listed Courses: BIO 310

ESS 320. Earth's Surface. 4 Credit Hours.

This course describes the interaction of sedimentary, hydrologic, and biologic processes at the surface of the Earth, with particular attention to the role of organisms and climate on the formation and erosion of soils.

Topics will include sedimentary processes, landforms, surficial hydrology, pedogenesis, fluvial and glacial processes and landforms. Significant fieldwork and mapping applications will be a part of this course. Three hours of lecture and three hours of laboratory per week are required. Does not carry biology major credit.

Prerequisites: ESS 205 or permission.

ESS 329. Field Botany. 4 Credit Hours.

The four-credit course will survey the flora of central New York, with excursions to various habitats including grasslands, sand dunes, peat bogs, old-growth forests, and wetlands. Plant identification and systematics will be the major focus, and students will learn how to create and curate an herbarium, compare the species composition of the various habitats, and learn human impacts and the importance of conservation of natural habitats and native species. The six hour block allows for travel and time in the field.

Prerequisites: BIO 191 and BIO 192.

Cross-listed Courses: BIO 329

ESS 335. Biodiversity. 4 Credit Hours.

The course is designed to acquaint the student with the phenomenal diversity of life with which we share this planet. To do this, we will refresh the students' memories concerning evolution and the various mechanisms through which communities of life forms have become adapted to their environment. We will spend some time with taxonomy and biogeography before we can begin to examine the current state of biodiversity as well as future trends. The implications of these trends will signal a stopping point for the course but will hopefully serve as a beginning for the student as they move away from Le Moyne and take a place in society.

Prerequisites: Minimum of 10 BIO/ESS credits.

Cross-listed Courses: BIO 335

ESS 340. Environmental Chemistry. 3 Credit Hours.

The focus of this course is on understanding the underlying chemical principles and reactions of natural systems and anthropogenic compounds in the environment. Topics such as chemistry of the atmosphere, aqueous media, pollutants and energy sources will be covered. The emphasis of the course is on chemical aspects of environmental science, so a general background in chemistry is a prerequisite. Does not carry biology major credit.

Prerequisites: CHM 223.

Cross-listed Courses: CHM 340

ESS 340L. Environmental Chemistry Laboratory. 1 Credit Hour.

This is an optional laboratory course that further explores topics covered in the lecture course. The lecture course (NSS 340) may be taken with or without this lab course (NSS 340L). Emphasis is on analytical methods, green chemistry techniques and investigation of materials. Three hours laboratory each week.

ESS 348. Environ Research in the Field: Iceland. 4 Credit Hours.

The environment of Iceland is shaped by the immensely dynamic geologic processes of active volcanoes and glaciers, but this environment is also deceptively fragile and subject to anthropogenic influence. The present landscape has resulted from this interaction of human and natural processes. A semester of classroom activity culminates in a field session where students conduct research on the processes of environmental change in Iceland.

Prerequisites: BIO 230 or ESS 205 or permission of instructor.

Cross-listed Courses: BIO 348

ESS 390. Independent Study in Biological & Natural Systems. 1-3 Credit Hours.

A student may pursue a semester or more of independent study in a specialized area of biology of mutual interest to the student and one or more members of the faculty in the department. This course is for the above average student whose interests and abilities go farther than normal course offerings. Proposals, indicating credit sought, must have approval prior to registration. Prerequisites or corequisites: 15 credit hours in biology in addition to BIO 380. Carries biology major credit for the tenth biology course.

Cross-listed Courses: BIO 390

ESS 428. Research in Tropical Biology Biology. 4 Credit Hours.

A variety of ecosystems exist throughout the tropics and are home to the majority of the terrestrial biodiversity found around the globe. Studies of organismal interactions and species diversity are still leading to the creation of new scientific knowledge and discovery of new species, and Costa Rica represents a county with diverse tropical forests that form the basis for many of these discoveries. This upper-level field-experience course will allow students to search, analyze and interpret the scientific literature during classroom activities at Le Moyne College, then apply the scientific process through observation, experimentation, and hypothesis testing during a 10 to 15 day session in Costa Rica. Additional fees will be required for the travel component of this course. Registration by instructor approval. Carries BIO and ESS major credit.

Prerequisites: BIO 191 and BIO 192.

Cross-listed Courses: BIO 428

ESS 458. Global Climate Systems. 3 Credit Hours.

In this class, students will come to recognize that Earth's biosphere, atmosphere, hydrosphere, and geosphere operate in complexly linked systems in which various components are exchanged over greatly varying time scales. Using laboratory and field studies, students will measure, discuss and define the impact of global change on natural systems.

Prerequisites: CHM 151 and CHM 152 and a minimum of 15 credits of BIO, including at least one course in the Ecology/Population Biology Area.

Cross-listed Courses: BIO 458

ESS 470. Seminar: Environmental Topics. 3 Credit Hours.

This advanced seminar provides students with the opportunity to explore the complexity of environmental issues in detail. By choosing current topics and analyzing the scientific and socio-economic factors underlying environmental problems, students will develop greater awareness and understanding of society's ability to mitigate these problems. Carries BIO and ESS major credit. This course places a high emphasis on oral and written presentation skills.

Prerequisites: 20 credits in BIO, ESS, PSC, ECO from 200, 300 or 400 level courses.

Cross-listed Courses: BIO 470, PSC 470

ESS 490. Internship in Environmental Science. 1-3 Credit Hours.

The goal of this class is participation in a field-learning experience closely related to the student's major field of study. The student intern will meet regularly with his or her supervisor in the agency and will report as required to the faculty member assigned to supervise the internship. Students are expected to apply what they have learned in the academic program to the internship. An evaluation of the experience will also be required. The internship and placement must be approved by the faculty coordinator. Three hours of field work per week are required to generate one credit hour. Therefore, a three-credit internship will require at least nine hours on site per week. The number of credit hours to be awarded must be determined and contracted prior to registration. A signed Memorandum of Understanding (MOU) with the placement site must be on file with the Office of Career Services prior to the start of the internship experience.

Prerequisite: 64 credit hours of coursework in the major program or permission of the department chair.

ESS 499. Research in Bio & Environmental Systems. 1-3 Credit Hours.

The student conducts a laboratory or field investigation under the guidance of the faculty in the department. Proposals, indicating credits sought, must have approval prior to registration. Written research report and oral public presentation of the research are required. prerequisites and corequisites: 15 credit hours in environmental science or biology in addition to BIO 380. For biology majors, three credits of BIO 499 carries credit for the 10th biology course. For ESS majors, three credits of ESS 499 is required for graduation.

Cross-listed Courses: BIO 499

Biological Sciences (B.S.)

(Graduate studies, health professions, veterinary, biochemistry, forensics, minor in chemistry and other areas)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3

WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
BIO 191	General Biology I	4
BIO 192	General Biology II	4
BIO 218	Cell and Molecular Biology	4
BIO 225	The Poisoning of a Planet	3
Select six additional BIO Courses. At least one course from each group: Molecular and Cellular; Organismal; and Ecology and Population. At least four must have a lab component. At least three courses must be 300 or 400 level. (see course groups below)		22-24
Major Support Requirements		
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
CHM 223	Organic Chemistry I	3
CHM 223L	Organic Chemistry I Lab	1
CHM 224	Organic Chemistry II	3
CHM 224L	Organic Chemistry II Lab	1
MTH 110	Introduction to Statistics I (no Computer Lab) ²	3-4
or MTH 111 Introduction to Statistics I (with Computer Lab)		
MTH 112	Introduction to Statistics II ²	3
Select one of the following:		8
Either PHY sequence must be taken with PHY 103 - PHY 104 (Lab sequence)		
PHY 101 & PHY 102	Non-Calculus General Physics I and Non-Calculus General Physics II	
PHY 105 & PHY 106	General Physics Scientists/Engineers I and General Physics Scientists/Engineers II	
Electives		
Electives		15
Total Credit Hours		120

1
Some Core requirements may be fulfilled by major requirements.

2
Two semesters of MTH 145 Calculus I-MTH 146 Calculus II may be substituted. Please note that most allied health programs and many other graduate programs require at least one semester of statistics. Students should consult with their advisors to determine which math they should take.

Other Requirements

Molecular and Cellular Courses

Code	Title	Credit Hours
BIO 320	Genetics	4
BIO 321	Developmental Biology	4
BIO 322	Histology	4
BIO 409	Virology	3
BIO 410	Toxicology	3
BIO 418	Advanced Molecular Biology	4
BIO 427	Bioinformatics	4
BIO 460	Biochemistry I	3
BIO 461	Biochemistry II	3
BIO 475	Stem Cell Biology	3
BIO 480	Seminar: Biology of Cancer	3
BIO 481	Seminar: Endocrine Disruptors	3
BIO 482	Seminar: Current Issues in Genetics	3

Organismal Courses

Code	Title	Credit Hours
BIO 255	Animal Locomotion	3
BIO 325	Microbiology	4
BIO 327	Botany - The Biology of Plants	4
BIO 331	Anatomy and Physiology I	4
BIO 332	Anatomy and Physiology II	4
BIO 340	Parasitology	4
BIO 350	Invertebrate Biology	4
BIO 365	Criminalistics for Biologists	3
BIO 375	Introduction to Neurobiology	4
BIO 381	Disease and Disorders of the Nervous System	3
BIO 412	Immunology	3
BIO 431	Mammalian Physiology	3
BIO 450	Biology of Sharks	3

Ecology and Population Courses

Code	Title	Credit Hours
BIO 230	General Ecology	4
BIO 237	Ecology of the Galapagos	3
BIO 245	Evolution	4
BIO 270	Animal Behavior	4
BIO 310	Field Ornithology	4
BIO 330	Tropical Marine Biology	4
BIO 335	Biodiversity	4
BIO 348	Environ Research in the Field: Iceland	4
BIO 360	Insect Ecology	4

BIO 415	Pathogenic Microbiology	4
BIO 458	Global Climate Systems	3
BIO 470	Seminar: Environmental Topics	3

Typical Program for B.S. Biological Sciences

Course	Title	Credit Hours
Freshman Year		
First Semester		
BIO 191	General Biology I	4
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		14
Second Semester		
BIO 192	General Biology II	4
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
PHL 110	Introduction to Philosophy	3
Social Science (p. 61)		3
Elective		3
Credit Hours		17
Sophomore Year		
First Semester		
BIO 218	Cell and Molecular Biology	4
CHM 223	Organic Chemistry I	3
CHM 223L	Organic Chemistry 1 Lab	1
MTH 110	Introduction to Statistics I (no Computer Lab)	3
or MTH 111	or Introduction to Statistics I (with Computer Lab)	
HST 110	World Civilization I	3
Theology (p. 61)		3
Credit Hours		17
Second Semester		
BIO 225	The Poisoning of a Planet	3
CHM 224	Organic Chemistry II	3
CHM 224L	Organic Chemistry II Lab	1
MTH 112	Introduction to Statistics II	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
Credit Hours		16
Junior Year		
First Semester		
BIO Elective		3-4
PHY 101	Non-Calculus General Physics I	3
or PHY 105	or General Physics Scientists/Engineers I	
PHY 103	General Physics Laboratory	1
ENG 310	Literature and Culture	3

EAC Encountering Another Culture/Language (p. 61)	3
PHL 210 Moral Philosophy	3
Credit Hours	16-17
Second Semester	
BIO Elective	3-4
PHY 102 Non-Calculus General Physics II or PHY 106 or General Physics Scientists/Engineers II	3
PHY 104 General Physics Laboratory	1
IDS Interdisciplinary Studies (p. 61)	3
EAC Encountering Another Culture/Language (p. 61)	3
Elective	3
Credit Hours	16-17
Senior Year	
First Semester	
BIO Elective	3-4
BIO Elective	4
Religion (p. 61)	3
Elective	3
Elective	3
Credit Hours	16-17
Second Semester	
BIO Elective	3-4
BIO Elective	4
COR 400 Senior Studies: Transformations	3
Elective	3
Credit Hours	13-14
Total Credit Hours	125-129

Typical Program for B.S. in Biological Sciences and M.S. Physician Assistant Studies 3+2

Course	Title	Credit Hours
Freshman Year		
First Semester		
BIO 191	General Biology I	4
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
WRT 101	Critical Writing	3
MTH 110 or MTH 111	Introduction to Statistics I (no Computer Lab) or Introduction to Statistics I (with Computer Lab)	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		17
Second Semester		
BIO 192	General Biology II	4
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
PHL 110	Introduction to Philosophy	3
MTH 112	Introduction to Statistics II	3

Social Science (p. 61)		3
Credit Hours		17
Sophomore Year		
First Semester		
BIO 218	Cell and Molecular Biology	4
CHM 223	Organic Chemistry I	3
CHM 223L	Organic Chemistry 1 Lab	1
HST 110	World Civilization I	3
EAC Encountering Another Culture/Language (p. 61)		3
Theology (p. 61)		3
Credit Hours		17
Second Semester		
BIO 225	The Poisoning of a Planet	3
CHM 224	Organic Chemistry II	3
CHM 224L	Organic Chemistry II Lab	1
HST 111	World Civilization II	3
EAC Encountering Another Culture/Language (p. 61)		3
ENG 210	Major Authors	3
Credit Hours		16
Junior Year		
First Semester		
BIO 331	Anatomy and Physiology I	4
PHY 101 or PHY 105	Non-Calculus General Physics I or General Physics Scientists/Engineers I	3
PHY 103	General Physics Laboratory	1
ENG 310	Literature and Culture	3
Religion (p. 61)		3
BIO Elective		3
Credit Hours		17
Second Semester		
BIO 332	Anatomy and Physiology II	4
PHY 102 or PHY 106	Non-Calculus General Physics II or General Physics Scientists/Engineers II	3
PHY 104	General Physics Laboratory	1
Social Science (p. 61)		3
BIO Elective		3
PHL 210	Moral Philosophy	3
Credit Hours		17
Senior Year		
First Semester		
BIO (PAS)		4
IDS Interdisciplinary Studies (p. 61)		3
Pharm I		3
Credit Hours		10
Second Semester		
BIO (PAS)		4
COR 400	Senior Studies: Transformations	3
Pharm II		3

Clinical Med I	7
Credit Hours	17
Total Credit Hours	128

Note: Fourth year is the first year of the P.A. curriculum. Only P.A. courses counting specifically towards core or major graduation requirements are indicated above; some other P.A. courses count as free electives. For complete typical program in the fourth and fifth year, see the physician assistant studies typical program in the graduate section of this catalog.

Biological Sciences (B.A.)

Click to see Biological Education concentrations requirements (p. 149)

Click to see B.A. in Biology with Concentration in Pre-Engineering requirements (p.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
BIO 191	General Biology I	4
BIO 192	General Biology II	4
BIO 218	Cell and Molecular Biology	4
BIO 225	The Poisoning of a Planet	3
Select four additional BIO courses. At least one course from each group: Molecular and Cellular; Organismal; and Ecology and Population. At least three must have a lab component. At least two courses must be 300 or 400 level. (See course group listings below)		15-16
Major Support Requirements		
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1

CHM, PHY or MTH Sequence. Students choosing a PHY or CHM sequence must still take one semester of MTH to fulfill core requirements.

Electives	33
Total Credits	122

¹ Some Core requirements may be fulfilled by major requirements.

Other Requirements

Molecular and Cellular Courses

Code	Title	Credit Hours
BIO 320	Genetics	4
BIO 321	Developmental Biology	4
BIO 322	Histology	4
BIO 409	Virology	3
BIO 410	Toxicology	3
BIO 418	Advanced Molecular Biology	4
BIO 427	Bioinformatics	4
BIO 460	Biochemistry I	3
BIO 461	Biochemistry II	3
BIO 475	Stem Cell Biology	3
BIO 480	Seminar: Biology of Cancer	3
BIO 481	Seminar: Endocrine Disruptors	3
BIO 482	Seminar: Current Issues in Genetics	3

Organismal Courses

Code	Title	Credit Hours
BIO 255	Animal Locomotion	3
BIO 325	Microbiology	4
BIO 327	Botany - The Biology of Plants	4
BIO 331	Anatomy and Physiology I	4
BIO 332	Anatomy and Physiology II	4
BIO 340	Parasitology	4
BIO 350	Invertebrate Biology	4
BIO 365	Criminalistics for Biologists	3
BIO 375	Introduction to Neurobiology	4
BIO 381	Disease and Disorders of the Nervous System	3
BIO 412	Immunology	3
BIO 431	Mammalian Physiology	3
BIO 450	Biology of Sharks	3

Ecology and Population Courses

Code	Title	Credit Hours
BIO 230	General Ecology	4
BIO 237	Ecology of the Galapagos	3
BIO 245	Evolution	4
BIO 270	Animal Behavior	4
BIO 310	Field Ornithology	4
BIO 330	Tropical Marine Biology	4
BIO 335	Biodiversity	4

BIO 348	Environ Research in the Field: Iceland	4
BIO 360	Insect Ecology	4
BIO 415	Pathogenic Microbiology	4
BIO 458	Global Climate Systems	3
BIO 470	Seminar: Environmental Topics	3

Biological Education Concentration with Certification in Childhood and Special Education (Grades 1-6)

Students must also complete Core requirements (p. 239).

Code	Title	Credit Hours
Major Requirements		
BIO 191	General Biology I	4
BIO 192	General Biology II	4
BIO 218	Cell and Molecular Biology	4
BIO 225	The Poisoning of a Planet	3
BIO 315	Biology in Practice:Lab & Field Approac	3
Select three additional BIO courses, at least one course from each group: Molecular and Cellular, Organismal, Ecology and Population. All must be lab courses.		12
Major Support Requirements		
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
MTH 102	Mathematics for Educators	3
Select one of the following:		3-4
MTH 110	Introduction to Statistics I (no Computer Lab)	
MTH 111	Introduction to Statistics I (with Computer Lab)	
MTH 145	Calculus I	
Education Requirements:		
EDU 200	Teaching in a Diverse Society	3
EDU 205	Childhood Learning and Special Needs	3
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
EDU 305	Prin & Methods of Multicultural Literacy	3
EDU 315	Plan,Assessing,Managing Inclusive Clsrm	3
EDU 365	Adapting Literacy Lrn Stu W/Spec Needs	3
EDU 375	Strategies for Teaching Content in Inclusive Classrooms (1-6)	3
EDU 376	Managing Environ for Stu W/ Disabilities	3
EDU 405	Preservice Clinical Teaching Seminar	3
EDU 430	Supervised Preservice Teaching (grades 1-6)	6
EDU 431	Supervised Preservice Teaching (spe 1-6)	6
Total Credits		128

Biological Education Concentration with Certification in Adolescence Education (Grades 7-12)

Students must also complete Core requirements (p. 239).

Code	Title	Credit Hours
Major Requirements		
BIO 191	General Biology I	4
BIO 192	General Biology II	4
BIO 218	Cell and Molecular Biology	4
BIO 225	The Poisoning of a Planet	3
BIO 315	Biology in Practice:Lab & Field Approac	3
Select three additional BIO courses, one from each course group: Molecular and Cellular; Organismal; and Ecology and Population. All must have a lab component.		12
Major Support Requirements		
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
CHM or PHY sequence		8
Select one of the following:		3-4
MTH 110	Introduction to Statistics I (no Computer Lab)	
MTH 111	Introduction to Statistics I (with Computer Lab)	
MTH 145	Calculus I	
CHM or PHS/PHY ¹		3-4
Education Requirements:		
EDU 200	Teaching in a Diverse Society	3
EDU 215	Learning in a Sociocultural Context	3
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
EDU 303	Multicultural Literacy Methods	3
EDU 315	Plan,Assessing,Managing Inclusive Clsrm	3
EDU 325	Teach/Adapt Curric Content Specialists	3
EDU 335	Literacy Development in the Content Area	3
EDU 401	Adolescent Education Strategies & Technology	4
EDU 405	Preservice Clinical Teaching Seminar	3
EDU 450	Supervised Preservice Teaching (7-9)	6
EDU 460	Supervised Preservice Teaching (10-12)	6
Total Credits		133

¹ Must have at least one semester of PHY/PHS for certification in general science.

Biological Education Concentration with Certification in Inclusive Adolescence Education (Grades 7-12)

Students must also complete Core requirements (p. 239).

Code	Title	Credit Hours
Major Requirements		
BIO 191	General Biology I	4
BIO 192	General Biology II	4
BIO 218	Cell and Molecular Biology	4
BIO 225	The Poisoning of a Planet	3
BIO 315	Biology in Practice:Lab & Field Approac	3
Select three additional BIO courses, one from each course group: Molecular and Cellular; Organismal; and Ecology and Population. All must have lab component.		12
Major Support Requirements		
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
MTH 110	Introduction to Statistics I (no Computer Lab)	3-4
or MTH 111 Introduction to Statistics I (with Computer Lab)		
MTH 112	Introduction to Statistics II	3
Education Requirements:		
EDU 200	Teaching in a Diverse Society	3
EDU 215	Learning in a Sociocultural Context	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
EDU 303	Multicultural Literacy Methods	3
EDU 315	Plan,Assessing,Managing Inclusive Clsrm	3
EDU 325	Teach/Adapt Curric Content Specialists	3
EDU 335	Literacy Development in the Content Area	3
EDU 345	Collabor&Transition Plan Stu Spec Needs	3
EDU 401	Adolescent Education Strategies & Technology	4
EDU 405	Preservice Clinical Teaching Seminar	3
EDU 451	Supervised Preserv Teaching (SPE 7-12)	6
EDU 460	Supervised Preservice Teaching (10-12)	6
or EDU 450 Supervised Preservice Teaching (7-9)		
Total Credits		132

B.A. in Biology with a Concentration in Pre-Engineering

Students must also complete Core requirements (p. 239).

Code	Title	Credit Hours
Major Requirements		
BIO 191	General Biology I	4
BIO 192	General Biology II	4
BIO 218	Cell and Molecular Biology	4

BIO 225	The Poisoning of a Planet	3
Select three additional BIO courses, at least one from each course group: Molecular and Cellular, Organismal, and Ecology and Population. At least two must have a lab component.		11-12
Major Support Requirements		
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
CHM 223	Organic Chemistry I	3
CHM 223L	Organic Chemistry 1 Lab	1
PHY 105	General Physics Scientists/Engineers I	3
PHY 106	General Physics Scientists/Engineers II	3
PHY 103	General Physics Laboratory	1
PHY 104	General Physics Laboratory	1
PHY 251	Spc Topic: Fundamentals of Engineering	3
MTH 145	Calculus I	4
MTH 146	Calculus II	4
MTH 245	Calculus III	4
MTH 304	Differential Equations for Scientists And Engineers	4
MTH 311	Introduction to Probability Theory	3
MTH 312	Mathematical Statistics	3
Other Requirements:		
ECS 221	¹	3
ELE 231	¹	3
ELE 232	¹	3
ECS 326	¹	3
BEN 364	¹	4
BEN 468	¹	3
BEN 575	¹	3
Total Credits		139

¹ Taken at Syracuse University

For more details on the five year dual bachelor's/master's degree in engineering program offered in affiliation with Syracuse University, please refer to the Undergraduate Transfer Programs portion of this catalog.

Typical Program for B.A. Biological Sciences

Course	Title	Credit Hours
Freshman Year		
First Semester		
BIO 191	General Biology I	4
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		14
Second Semester		
BIO 192	General Biology II	4

CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
PHL 110	Introduction to Philosophy	3
Elective		3
Social Science (p. 61)		3
Credit Hours		17

Sophomore Year**First Semester**

BIO 218	Cell and Molecular Biology	4
Select one of the following: ¹		3-4
MTH 110	Introduction to Statistics I (no Computer Lab)	
MTH 111	Introduction to Statistics I (with Computer Lab)	
HST 110	World Civilization I	3
EAC Encountering Another Culture/Language (p. 61)		3
Theology (p. 61)		3
Credit Hours		16-17

Second Semester

BIO 225	The Poisoning of a Planet	3
Elective		3
HST 111	World Civilization II	3
EAC Encountering Another Culture/Language (p. 61)		3
ENG 210	Major Authors	3
Credit Hours		15

Junior Year**First Semester**

BIO Elective		3-4
PHY/CHM/MTH		3-4
Elective		3
ENG 310	Literature and Culture	3
PHL 210	Moral Philosophy	3
Credit Hours		15-17

Second Semester

BIO Elective		3-4
PHY/CHM/MTH		3-4
Elective		3
IDS Interdisciplinary Studies (p. 61)		3
Elective		3
Credit Hours		15-17

Senior Year**First Semester**

BIO Elective		3-4
Religion (p. 61)		3
Elective		3
Elective		3
Elective		3
Credit Hours		15-16

Second Semester

BIO Elective		3-4
COR 400	Senior Studies: Transformations	3
Elective		3

Elective	3
Credit Hours	12-13
Total Credit Hours	119-126

¹ All biology majors must take at least one semester of statistics (MTH 110 Introduction to Statistics I (no Computer Lab) or MTH 111 Introduction to Statistics I (with Computer Lab)); this will satisfy the College Core requirement for Mathematics. Students choosing a two semester sequence in Chemistry or Physics must also take at least one semester of statistics (MTH 110 Introduction to Statistics I (no Computer Lab) or MTH 111 Introduction to Statistics I (with Computer Lab)); students who choose to take both semesters of statistics may take an additional free elective. Students should consult with faculty advisors to determine which option is best depending on career goals.

Typical Program for Biological Education Concentration with Certification in Dual Childhood/Special Education (Grades 1-6)

Course	Title	Credit Hours
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Freshman Year**First Semester**

WRT 101	Critical Writing	3
BIO 191	General Biology I	4
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
EDU 200	Teaching in a Diverse Society	3
COR 100	First Year Seminars: Transitions	3

Credit Hours	17
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Second Semester

PHL 110	Introduction to Philosophy	3
BIO 192	General Biology II	4
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
ENG 210	Major Authors	3

Credit Hours	17
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Sophomore Year**First Semester**

HST 110	World Civilization I	3
BIO 218	Cell and Molecular Biology	4
EDU 205	Childhood Learning and Special Needs	3
EAC Encountering Another Culture/Language (p. 61)		3
MTH 102	Mathematics for Educators	3

Credit Hours	16
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Second Semester

HST 111	World Civilization II	3
PHL 210	Moral Philosophy	3
BIO 225	The Poisoning of a Planet	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3

EAC Encountering Another Culture/Language (p. 61)	3
Credit Hours	15
Junior Year	
First Semester	
BIO 315 Biology in Practice:Lab & Field Approac	3
ENG 310 Literature and Culture	3
EDU 305 Prin & Methods of Multicultural Literacy	3
EDU 315 Plan,Assessing,Managing Inclusive Clsrn	3
Select one of the following:	3-4
MTH 110 Introduction to Statistics I (no Computer Lab)	
MTH 111 Introduction to Statistics I (with Computer Lab)	
MTH 145 Calculus I	
Credit Hours	15-16
Second Semester	
EDU 365 Adapting Literacy Lrn Stu W/Spec Needs	3
EDU 375 Strategies for Teaching Content in Inclusive Classrooms (1-6)	3
BIO Elective	4
Religion (p. 61)	3
EDU 376 Managing Environ for Stu W/ Disabilities	3
Credit Hours	16
Senior Year	
First Semester	
EDU 405 Preservice Clinical Teaching Seminar	3
EDU 430 Supervised Preservice Teaching (grades 1-6)	6
EDU 431 Supervised Preservice Teaching (spe 1-6)	6
Credit Hours	15
Second Semester	
Theology (p. 61)	3
COR 400 Senior Studies: Transformations	3
BIO Elective	4
BIO Elective	4
IDS Interdisciplinary Studies (p. 61)	3
Credit Hours	17
Total Credit Hours	128-129

Typical Program for Biological Education Concentration with Education Minor with Certification in Adolescence Education (Grades 7-12)

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
BIO 191	General Biology I	4
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
EDU 200	Teaching in a Diverse Society	3

COR 100	First Year Seminars: Transitions	3
Credit Hours		17
Second Semester		
PHL 110	Introduction to Philosophy	3
BIO 192	General Biology II	4
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
ENG 210	Major Authors	3
Credit Hours		17
Sophomore Year		
First Semester		
HST 110	World Civilization I	3
BIO 218	Cell and Molecular Biology	4
EDU 215	Learning in a Sociocultural Context	3
MTH 110 or MTH 111	Introduction to Statistics I (no Computer Lab) or Introduction to Statistics I (with Computer Lab)	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		16
Second Semester		
HST 111	World Civilization II	3
Theology (p. 61)		3
PHL 210 or ENG 310	Moral Philosophy or Literature and Culture	3
EAC Encountering Another Culture/Language (p. 61)		3
BIO Elective		4
Credit Hours		16
Interession		
ENG 310 or PHL 210	Literature and Culture or Moral Philosophy	3
Credit Hours		3
Junior Year		
First Semester		
EDU 303	Multicultural Literacy Methods	3
EDU 315	Plan,Assessing,Managing Inclusive Clsrn	3
PHY/CHM		3
BIO Elective		4
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		16
Second Semester		
BIO 225	The Poisoning of a Planet	3
CHM/PHY ¹		3
BIO Elective		4
EDU 325	Teach/Adapt Curric Content Specialists	3
EDU 335	Literacy Development in the Content Area	3
Credit Hours		16
Senior Year		
First Semester		
BIO 315	Biology in Practice:Lab & Field Approac	3

COR 400	Senior Studies: Transformations	3
EDU 401	Adolescent Education Strategies & Technology	4
Religion (p. 61)		3
CHM/PHS ¹		3
Credit Hours		16
Second Semester		
EDU 405	Preservice Clinical Teaching Seminar	3
EDU 450	Supervised Preservice Teaching (7-9)	6
EDU 460	Supervised Preservice Teaching (10-12)	6
Credit Hours		15
Total Credit Hours		132

¹ This schedule for adolescent teacher preparation programs will allow students to be certified in both biology and general science. NOTE: to be certified in general science, students must take at least one science course in each of CHM and PHY/PHS and have a total of at least 18 credits in sciences other than biology. Students who wish to obtain certification in dual adolescent and special education will need to take two additional EDU courses; they cannot take the extra CHM/PHS to be certified in general science unless they take several summer classes.

Typical Program for Biological Education Concentration with Education Minor with Certification in Dual Adolescence Education/Special Education (Grades 7-12)

Course	Title	Credit Hours
Freshman Year		
First Semester		
BIO 191	General Biology I	4
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
EDU 200	Teaching in a Diverse Society	3
Credit Hours		17
Second Semester		
BIO 192	General Biology II	4
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
PHL 110	Introduction to Philosophy	3
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
ENG 210	Major Authors	3
Credit Hours		17
Sophomore Year		
First Semester		
BIO 218	Cell and Molecular Biology	4

MTH 110 or MTH 111	Introduction to Statistics I (no Computer Lab) or Introduction to Statistics I (with Computer Lab)	3
HST 110	World Civilization I	3
EDU 215	Learning in a Sociocultural Context	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		16
Second Semester		
BIO 225	The Poisoning of a Planet	3
MTH 112	Introduction to Statistics II	3
HST 111	World Civilization II	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Intercession		
ENG 310 or PHL 210	Literature and Culture or Moral Philosophy	3
Credit Hours		3
Junior Year		
First Semester		
BIO Elective		4
Theology (p. 61)		3
EDU 303	Multicultural Literacy Methods	3
EDU 315	Plan, Assessing, Managing Inclusive Clsrm	3
ENG 310 or PHL 210	Literature and Culture or Moral Philosophy	3
Credit Hours		16
Second Semester		
BIO Elective		4
BIO Elective		4
EDU 325	Teach/Adapt Curric Content Specialists	3
EDU 335	Literacy Development in the Content Area	3
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		17
Senior Year		
First Semester		
BIO 315	Biology in Practice: Lab & Field Approac	3
EDU 345	Collabor&Transition Plan Stu Spec Needs	3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
EDU 401	Adolescent Education Strategies & Technology	4
Credit Hours		16
Second Semester		
EDU 405	Preservice Clinical Teaching Seminar	3
EDU 450 or EDU 460	Supervised Preservice Teaching (7-9) or Supervised Preservice Teaching (10-12)	6
EDU 451	Supervised Preserv Teaching (SPE 7-12)	6
Credit Hours		15
Total Credit Hours		132

Typical Program for B.A. in Biology with a Concentration in Pre-Engineering

Course	Title	Credit Hours
Freshman Year		
First Semester		
BIO 191	General Biology I	4
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
WRT 101	Critical Writing	3
MTH 145	Calculus I	4
COR 100	First Year Seminars: Transitions	3
Credit Hours		18
Second Semester		
BIO 192	General Biology II	4
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
PHL 110	Introduction to Philosophy	3
MTH 146	Calculus II	4
Social Science (p. 61)		3
Credit Hours		18
Sophomore Year		
First Semester		
BIO 218	Cell and Molecular Biology	4
PHY 105	General Physics Scientists/Engineers I	3
PHY 103	General Physics Laboratory	1
MTH 245	Calculus III	4
HST 110	World Civilization I	3
Theology (p. 61)		3
Credit Hours		18
Second Semester		
BIO Elective		3-4
PHY 106	General Physics Scientists/Engineers II	3
PHY 104	General Physics Laboratory	1
MTH 304	Differential Equations for Scientists And Engineers	4
HST 111	World Civilization II	3
ENG 210	Major Authors	3
Credit Hours		17-18
Intersession		
PHY 251	Spc Topic: Fundamentals of Engineering	3
Credit Hours		3
Junior Year		
First Semester		
BIO 225	The Poisoning of a Planet	3
MTH 311	Introduction to Probability Theory	3
ENG 310	Literature and Culture	3
CHM 223	Organic Chemistry I	3
CHM 223L	Organic Chemistry 1 Lab	1
ELE 231 ¹		3
Credit Hours		16

Second Semester

PHL 210	Moral Philosophy	3
MTH 312	Mathematical Statistics	3
BIO Elective		3-4
ECS 221 ¹		3
ELE 232 ¹		3
Credit Hours		15-16

Senior Year

First Semester

EAC Encountering Another Culture/Language (p. 61)	3
IDS Interdisciplinary Studies (p. 61)	3
Religion (p. 61)	3
BIO Elective	3-4
ECS 326 ¹	3
Credit Hours	15-16

Second Semester

EAC Encountering Another Culture/Language (p. 61)		3
COR 400	Senior Studies: Transformations	3
BEN 364 ¹		3
BEN 468 ¹		3
BEN 575 ¹		3
Credit Hours		15
Total Credit Hours		135-138

¹ Courses taken at Syracuse University

Biology Minor

To complete a minor in Biological Sciences (minimum 19 credits), students must complete BIO 191 General Biology I and BIO 192 General Biology II or equivalent and three other biology courses. At least two of these three biology courses must be lab courses and at least one course must be at the 300 or 400 level. All prerequisites must be met. None of these courses may be taken pass/fail. Courses that do not count toward the biology major are not acceptable.

Code	Title	Credit Hours
BIO 191	General Biology I (or equivalent)	4
BIO 192	General Biology II (or equivalent)	4
Select three other biology classes, at least two of which must be a lab course. At least one of the three courses must be at the 300 or 400 level. According to college policy, at least half the credits for the minor must be completed at Le Moyne.		11-12
Total Credit Hours		19-20

None of these courses may be taken pass/fail. All prerequisites must be met. Courses that do not count towards the biology major are not acceptable.

Environmental Science Systems (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110 & HST 111	World Civilization I and World Civilization II	6
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61)		3
Natural Science (p. 61) ²		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
ESS 121	Global Resources	3
BIO 191 & BIO 192	General Biology I and General Biology II	8
BIO 230	General Ecology	4
ESS 205	Physical Geology	4
BIO 335	Biodiversity	4
ESS 320	Earth's Surface	3-4
or ESS 458 Global Climate Systems		
BSC/ESS Introductory Level Elective (100 level elective)		3
BIO/ESS Upper Level Elective (200 level or above)		3-4
Major Support Requirements		
Select one of the following:		8
PHY 101 & PHY 102	Non-Calculus General Physics I and Non-Calculus General Physics II	
CHM 151 & CHM 152	Chemical Principles I and Chemical Principles II	
Select one of the following:		3-4
MTH 110	Introduction to Statistics I (no Computer Lab)	
MTH 111	Introduction to Statistics I (with Computer Lab)	
MTH 122	Brief Calculus	
MTH 145	Calculus I	
Electives		
Liberal Arts & Science Elective		3
11 Free Electives		33
Total Credit Hours		127-130

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by major requirements.

Note: Total Credit Hours: 127-130; Liberal Arts & Sciences: 90-93; Major Requirements: 42-45; Electives & Other: 85.

Environmental Science Systems (B.S.)

Environmental Science Systems Major

A minimum of seven courses from the major requirements must be lab or field courses, and at least seven BIO/ESS courses must be taken at Le Moyne College.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
BIO 191	General Biology I	4
BIO 230	General Ecology	4
BIO 458	Global Climate Systems	3
BIO/ESS Elective (BIO 192 recommended)		3-4
BIO/ESS upper level elective		3-4
BIO/ESS/CHM/PHY upper level electives		8
Select one of the following:		3
BSC/ESS 129	Global Ecosystems: North America	
ESS 237	Ecology of the Galapagos	
BIO/ESS 329	Field Botany	
ESS 121	Global Resources	3
ESS 205	Physical Geology	4
ESS 320	Earth's Surface	4
ESS 335	Biodiversity	4
ESS 499	Research in Bio & Environmental Systems	3

or ESS 490 Internship in Environmental Science

Major Support Requirements		
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
Select one of the following:		8
PHY 101 & PHY 102	Non-Calculus General Physics I and Non-Calculus General Physics II	
PHY 105 & PHY 106	General Physics Scientists/Engineers I and General Physics Scientists/Engineers II ((with lab))	
Select two of the following:		6-8
MTH 110	Introduction to Statistics I (no Computer Lab)	
or MTH 110 Introduction to Statistics I (with Computer Lab)		
MTH 112	Introduction to Statistics II	
MTH 145	Calculus I	
MTH 146	Calculus II	
Electives		
Electives		6
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

Typical Program for Environmental Science Systems Major

Course	Title	Credit Hours
Freshman Year		
Second Semester		
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
BIO 192	General Biology II	4
ESS 121	Global Resources	3
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
Credit Hours		17
First Semester		
BIO 191	General Biology I	4
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		17
Sophomore Year		
Second Semester		
ESS 205	Physical Geology	4
ESS 329	Field Botany	4
MTH 146	Calculus II	4
Theology (p. 61)		3

EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		18
First Semester		
MTH 145	Calculus I	4
Free Elective		3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		16
Junior Year		
Second Semester		
BIO 335	Biodiversity	4
BIO/ESS Elective		3-4
BIO/ESS Elective		3-4
PHY 102 & PHY 104	Non-Calculus General Physics II and General Physics Laboratory	4
Credit Hours		14-16
First Semester		
ESS 320	Earth's Surface	4
BIO 230	General Ecology	4
PHY 101 & PHY 103	Non-Calculus General Physics I and General Physics Laboratory	4
VPA Visual & Performing Arts (p. 61)		1
ENG 310	Literature and Culture	3
Credit Hours		16
Senior Year		
Second Semester		
Social Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
BIO 458	Global Climate Systems	3
COR 400	Senior Studies: Transformations	3
Religion (p. 61)		3
Credit Hours		15
First Semester		
BIO/ESS Elective		3-4
ESS 499	Research in Bio & Environmental Systems	3
Free Elective		3
Free Elective		3
Social Science (p. 61)		3
Credit Hours		15-16
Total Credit Hours		128-131

¹ Required field experience (could be as a part of BIO 330 Tropical Marine Biology or comparable course(s) and field trips to Costa Rica, Arizona or Ecuador)

Environmental Science Systems (B.S.) with a Concentration in Pre-Engineering

The Environmental Science Systems B.S. can be taken with the pre-engineering concentration to serve as the foundation for the Bachelor's

in Environmental Science Systems and the Master of Science in Environmental Engineering degree program at Syracuse University.

Bachelor of Science in Environmental Science Systems - Pre-Engineering Concentration for Master of Science in Environmental Engineering

Students must also complete Core Requirements (p. 61).

Code	Title	Credit Hours
Major Requirements		
BIO 191	General Biology I	4
BIO 192	General Biology II	4
BIO 230	General Ecology	4
BIO 335	Biodiversity	4
ESS 205	Physical Geology	4
ESS 320	Earth's Surface	4
ESS 458	Global Climate Systems	3
Select one of the following:		3
ESS 121	Global Resources	
ESS 129	Global Ecosystems: North America	
ESS 237	Ecology of the Galapagos	
ESS 329	Field Botany	4
ESS 499	Research in Bio & Environmental Systems	3
or ESS 490 Internship in Environmental Science		
Major Support Requirements		
CHM 151	Chemical Principles I	3
CHM 152	Chemical Principles II	3
PHY 105	General Physics Scientists/Engineers I	4
& PHY 103	and General Physics Laboratory	
PHY 106	General Physics Scientists/Engineers II	4
& PHY 104	and General Physics Laboratory	
MTH 110	Introduction to Statistics I (no Computer Lab)	3-4
or MTH 111 Introduction to Statistics I (with Computer Lab)		
MTH 145	Calculus I	4
MTH 146	Calculus II	4
MTH 245	Calculus III	4
MTH 304	Differential Equations for Scientists And Engineers	4
Other Requirements:		
ECS 221	Statics	3
CIE 327	Fluid Mechanics ¹	3
CIE 341	Environmental Engineering ¹	3
CIE 352: Water Resources Engineering ¹		3
Total Credit Hours		120

¹ Bridge courses to be taken at Syracuse University.

Typical Program for Bachelor of Science in Environmental Science Systems - Pre-Engineering Concentration for Master of Science in Environmental Engineering

Course	Title	Credit Hours
Freshman Year		
First Semester		
BIO 191	General Biology I	4
MTH 145	Calculus I	4
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		17
Second Semester		
BIO 192	General Biology II	4
MTH 146	Calculus II	4
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
ESS 121	Global Resources	3
Credit Hours		17
Sophomore Year		
First Semester		
PHY 105	General Physics Scientists/Engineers I	3
PHY 103	General Physics Laboratory	1
MTH 245	Calculus III	4
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		17
Second Semester		
PHY 106	General Physics Scientists/Engineers II	3
PHY 104	General Physics Laboratory	1
Theology (p. 61)		3
ESS 205	Physical Geology	4
EAC Encountering Another Culture/Language (p. 61)		3
MTH 304	Differential Equations for Scientists And Engineers	4
Credit Hours		18
Junior Year		
First Semester		
BIO 230	General Ecology	4
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
ESS 320	Earth's Surface	4
ESS 499	Research in Bio & Environmental Systems	3
ENG 310	Literature and Culture	3
Credit Hours		18
Second Semester		
BIO 335	Biodiversity	4
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
Free elective		3
CIE 274 ¹		3
Credit Hours		14

Senior Year

First Semester

MTH 110 or MTH 111	Introduction to Statistics I (no Computer Lab) or Introduction to Statistics I (with Computer Lab)	3-4
Natural/Social Science (p. 61)		3
VPA Visual & Performing Arts (p. 61)		1
CIE 327 ¹		3
CIE 341 ¹		3

Credit Hours
 13-14

Second Semester

BIO 458	Global Climate Systems	3
COR 400	Senior Studies: Transformations	3
Theology (p. 61)		3
Social Science (p. 61)		3
CIE 352 ¹		3

Credit Hours
 15

Total Credit Hours
 129-130

¹ Engineering courses at Syracuse University.

Environmental Science Systems Minor

To complete a minor in Environmental Science Systems (17-19 credits), students must complete:

Code	Title	Credit Hours
BIO 191 or ESS/BIO 228	General Biology I Ecosystems of Costa Rica	4
ESS 205	Physical Geology	4
Select one of the following:		3
ESS 121	Global Resources	
ESS 237	Ecology of the Galapagos	
ESS 129	Global Ecosystems: North America	
ESS 329	Field Botany	
Select two of the following: ¹		6-8
BIO 230	General Ecology	
ESS 320	Earth's Surface	
BIO/ESS 335	Biodiversity	
BIO/ESS 458	Global Climate Systems	
Total Credit Hours		17-19

¹ None of these courses may be taken pass/fail.

Environmental Studies Major (B.S.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
ANT 231	Environment, Culture and Power	3
Select one of the following:		8
BIO 191 & BIO 192	General Biology I and General Biology II	
CHM 151 & CHM 152	Chemical Principles I and Chemical Principles II	
BIO 470	Seminar: Environmental Topics	3
ECO 205	Economics of Public Policy Analysis	3
ECO 113	Principles of Microeconomics	3
or ECO 114	Principles of Macroeconomics	
Select one of the following:		3
BSC 129	Global Ecosystems: North America	
BIO 329	Field Botany	
ESS 121	Global Resources	
BIO 225 or BIO 230	The Poisoning of a Planet General Ecology	3-4
PSC 101	American National Politics	3
PSC 221	State Government and Politics	3
PSC 332	Public Policy	3
Select two additional BIO, CHM, or ESS electives at 200 or higher		6-8
Select two additional PSC or ECO electives at 200-level or higher (Three hours of PSC service learning counts as one elective)		6
Select two of the following:		6
PSC 202	Methods of Political Science	
PSC 333	Environmental Politics	
PSC 340	Science, Technology, & the Good Society	
SOC 265	Population/Demography	

SOC 402	Program Evaluation Research Methods And Policy	
Major Support Requirements		
Select two of the following:		6-8
MTH 110	Introduction to Statistics I (no Computer Lab)	
	or MTH 111 Introduction to Statistics I (with Computer Lab)	
MTH 112	Introduction to Statistics II	
MTH 122	Brief Calculus	
MTH 145	Calculus I	
MTH 146	Calculus II	
Select one of the following:		3
ENG 395	Nonfiction Writing Workshop	
CMM 224	Environmental Journalism	
CMM 397	Writing Nonfiction	
Free Electives (minimum for graduation)		10-16
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

Course	Title	Credit Hours
Freshman Year		
First Semester		
BIO 191	General Biology I	4
ECO 113	Principles of Microeconomics	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		16
Second Semester		
BIO 192	General Biology II	4
PSC 101	American National Politics	3
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
ESS 329	Field Botany	4
Credit Hours		17
Sophomore Year		
First Semester		
MTH 122	Brief Calculus	3
	or or Calculus I	
MTH 145		
BIO 230	General Ecology	4
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		16
Second Semester		
PSC 221	State Government and Politics	3
ECO 205	Economics of Public Policy Analysis	3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
	or	
MTH 111	or Introduction to Statistics I (with Computer Lab)	

Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Junior Year		
First Semester		
PSC/SOC Elective		3
Science Elective		3-4
Free Elective		3
PSC 340	Science, Technology, & the Good Society	3
VPA Visual & Performing Arts (p. 61)		3
Credit Hours		15-16
Second Semester		
Science Elective		3-4
ANT 231	Environment, Culture and Power	3
Free Elective		3
CRW 395	Nonfiction Writing Workshop	3
ENG 310	Literature and Culture	3
Credit Hours		15-16

Senior Year		
First Semester		
Free Elective		3
PSC 332	Public Policy	3
Free Elective		3
BIO 470	Seminar: Environmental Topics	3
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		15
Second Semester		
PSC 333	Environmental Politics	3
Free Elective		3
PSC/SOC Elective		3
COR 400	Senior Studies: Transformations	3
Religion (p. 61)		3
Credit Hours		15
Total Credit Hours		124-126

Environmental Studies Major (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	6
& HST 111	and World Civilization II	
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ²		3
Natural Science (p. 61) ²		3

IDS Interdisciplinary Studies (p. 61)	3
Religion (p. 61)	3
COR 400 Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)	1
DIV Diversity (p. 61)	0
Major Requirements	
ANT 231 Environment, Culture and Power	3
BIO 191 General Biology I	8
& BIO 192 and General Biology II	
BIO 470 Seminar: Environmental Topics	3
ESS 121 Global Resources	3
PSC 101 American National Politics	3
PSC 333 Environmental Politics	3
or PSC 340 Science, Technology, & the Good Society	
ECO 113 Principles of Microeconomics	3
or ECO 114 Principles of Macroeconomics	
Select one of the following:	3-4
BSC 129 Global Ecosystems: North America	
BIO 225 The Poisoning of a Planet	
BIO 230 General Ecology	
BIO 329 Field Botany	
Select one of the following:	3
ECO 205 Economics of Public Policy Analysis	
PSC 221 State Government and Politics	
PSC 332 Public Policy	
Major Support Requirements	
Select one of the following:	3-4
MTH 110 Introduction to Statistics I (no Computer Lab)	
MTH 111 Introduction to Statistics I (with Computer Lab)	
STA 201 Statistics I	
Select one of the following:	3
ENG 395 Nonfiction Writing Workshop	
CMM 224 Environmental Journalism	
CMM 397 Writing Nonfiction	
Electives	
4 Liberal Arts & Science Electives	12
9 Free Electives	27
Total Credit Hours	123-125

¹ Some Core requirements fulfilled by major requirements.

² Fulfilled by major requirements.

Note: Total Credit Hours: 123-125; Liberal Arts & Sciences: 92-94; Major Requirements: 38-40; Electives & Other: 85.

Environmental Studies Minor

A minor in environmental studies requires 15 credit hours, with no more than three credit hours (one course) allowable to count towards both the environmental studies minor and another major or minor.

Choose one from each group:

Code	Title	Credit Hours
ECO 113	Principles of Microeconomics	3
or ECO 114	Principles of Macroeconomics	
PSC 332	Public Policy	3
or ECO 205	Economics of Public Policy Analysis	
Select one of the following:		3
PSC 333	Environmental Politics	
PSC 340	Science, Technology, & the Good Society	
ANT 231	Environment, Culture and Power	
Select one of the following:		3
ESS 121	Global Resources ¹	
ECO 305	Environmental Economics	
Select one of the following:		3
BSC 129	Global Ecosystems: North America	
BIO 237	Ecology of the Galapagos ²	
BIO 225	The Poisoning of a Planet ^{1,2}	
BIO 329	Field Botany	
Total Credit Hours		15

¹ May not be used toward Core Requirements

² BIO prerequisite

Forensic Sciences

A memo of understanding with Syracuse University allows qualified students to apply for a five-year program leading to a B.S. in biology and an M.S. in forensic science or biomedical forensic sciences. For more information, see the Graduate Program Pathways (p. 106) section of this catalog.

CHEMISTRY

Chair: Joseph J. Mullins

Associate Professor: Theresa L. Beaty, Joseph J. Mullins, Anna O'Brien

Assistant Professor: Emily M. Harcourt, Fei Wang

Visiting Assistant Professor: Celeo Guifarro Calona

Adjunct Faculty: Olivia Barrett, Elizabeth Danaher, Valerie Lopez-Diaz, Caitlin Miller, James Morgan, Rachael Henriques Porter, Brian Wilson

Professor Emeritus: Carmen J. Giunta, Michael P. Masingale

Lab Coordinator: Donald Hughes

Approved by the American Chemical Society, the BS Chemistry program is a specialized, faculty-designed curriculum that encompasses the five foundational areas of chemistry: biochemistry, organic, inorganic, physical and analytical. Hands-on laboratory experience and the opportunity for faculty mentored-research prepare our graduates for graduate school in chemistry-related fields, other science and health-related professional programs, and jobs in industry. Double-majors, minors, and departmental honors in chemistry are also available.

Student Learning Outcomes in Chemistry

Key concepts

Students who graduate with a Le Moyne degree in chemistry will have skillfully applied key concepts in chemistry and its sub-disciplines to chemical problems.

Laboratory techniques

Students who graduate with a Le Moyne degree in chemistry will have successfully carried out a broad range of laboratory investigations utilizing specialized chemical equipment.

Conceptual models

Students who graduate with a Le Moyne degree in chemistry will have analyzed chemical systems using appropriate conceptual models.

Theory and experimental design

Students who graduate with a Le Moyne degree in chemistry will have constructed or critiqued experimental designs and methodologies in chemistry.

Mathematical skills

Students who graduate with a Le Moyne degree in chemistry will have competently applied tools of mathematical analysis to chemical systems.

Scientific communications

Students who graduate with a Le Moyne degree in chemistry will have reported scientific and technical information clearly and critically in a style appropriate to chemistry.

- Chemistry Major (B.S.) (p. 164)
- Chemistry Major (B.S.) with a Minor in Biology (p. 165)
- Chemistry Major (B.S.) and M.S. in Chemical Pre-Engineering (p. 167)

- Chemistry Major (B.S.) with a Certification in Adolescence Education (Grades 7-12) (p. 168)
- Biochemistry Major (B.S.) (p. 170)
- Forensic Sciences (p. 170)
- Chemistry Minor (p. 170)
- Interdisciplinary Minor in Chemistry & Computer Science (p. 71)

Chemistry (CHM)

CHM 101. Preparing for Chemistry. 3 Credit Hours.

A course designed to provide students with the academic foundation to successfully complete the introductory chemistry course, i.e. Chemical Principles I and II. This preparation will be primarily directed toward acquiring those higher order thinking skills considered most important if students are to learn the course content of the introductory course successfully. Students will also be aided in developing the level of problem solving ability that is required to successfully complete a college level introductory chemistry course. Does not carry chemistry major or minor credit.

CHM 151. Chemical Principles I. 3 Credit Hours.

An integrated approach to many of the major concepts of chemistry with approximately equal emphasis on general descriptive chemistry and introduction to theoretical chemistry. Topics include atomic and molecular theory, periodic properties, chemical equations and stoichiometry. CHM 151 and CHM 151L are to be taken concurrently, except by permission of the department chair.

Prerequisite: A satisfactory score on the chemistry placement exam or a grade of C or better in CHM 101 or permission of the department chair.

CHM 151L. Chemical Principles I Laboratory. 1 Credit Hour.

This laboratory includes experiments in chemical synthesis, analysis, and composition and physical properties. A variety of techniques are utilized. This laboratory course addresses many of the same topics CHM 151 treats in the classroom. CHM 151 and CHM 151L are to be taken concurrently, except by permission of the department chair.

CHM 152. Chemical Principles II. 3 Credit Hours.

An integrated approach to many of the major concepts of chemistry with approximately equal emphasis on general descriptive chemistry and introduction to theoretical chemistry. Topics include chemical kinetics and thermodynamics, chemical equilibria, gas laws, solutions, acids and bases. CHM 152 and CHM 152L are to be taken concurrently, except by permission of the department chair.

Prerequisite: A grade of C- or better in CHM 151 or by permission of the department chair.

CHM 152L. Chemical Principles II Lab. 1 Credit Hour.

This laboratory includes experiments in chemical synthesis, analysis, separation, kinetics, and equilibrium. A variety of techniques and modern equipment are utilized. This laboratory course addresses many of the same topics CHM 152 treats in the classroom. CHM 152 and CHM 152L are to be taken concurrently, except by permission of the department chair.

CHM 223. Organic Chemistry I. 3 Credit Hours.

The nomenclature, structure, reactions, preparations and physical properties of organic compounds are studied. Extensive use of reaction mechanisms, resonance theory and conformational analysis is used to correlate a wide variety of reactions. Topics include chemical bonding, saturated and unsaturated hydrocarbons, alkyl halides, stereochemistry, spectroscopy and other functional groups. Special emphasis is on natural products and substances of biological importance. CHM 223L is to be taken concurrently, except by permission of the department chair.

Prerequisites: CHM 152 or equivalent.

CHM 223L. Organic Chemistry I Lab. 1 Credit Hour.

This course will introduce fundamental organic chemistry laboratory techniques utilizing primarily microscale chemical reactions. Various skills will be developed, such as synthetic methods, purification methods (distillation, extraction, recrystallization, chromatography) and analytical techniques. The concepts of organic chemistry will be put into practice via the synthesis and study of materials of common use and theoretical interest. CHM 223 is to be taken concurrently, except by permission of the department chair.

Prerequisites: CHM 152 or equivalent.

CHM 224. Organic Chemistry II. 3 Credit Hours.

The nomenclature, structure, reactions, preparations and physical properties of organic compounds are studied. Extensive use of reaction mechanisms, resonance theory and conformational analysis is used to correlate a wide variety of reactions. Topics include aromatics, carbonyl compounds, alcohols, amines and other functional groups. Special emphasis is on natural products and substances of biological importance. The course counts for three credit hours. CHM 224L is to be taken concurrently, except by permission of department chair.

Prerequisites: CHM 223.

CHM 224L. Organic Chemistry II Lab. 1 Credit Hour.

The course will build upon the foundation of organic chemistry laboratory techniques and concepts from the first semester, utilizing primarily microscale chemical reactions and techniques. Various skills will be learned and improved upon, such as purification methods (distillation, extraction, recrystallization, chromatography), synthetic methods, and analytical techniques. Functional groups studied will include alkenes, arenes, carbonyl compounds, etc. The course counts for one credit hour. CHM 224 is to be taken concurrently except by permission of the department chair.

Prerequisites: CHM 223 and CHM 223L (or equivalents).

CHM 280. Information in Chemistry and Physical Sciences. 1 Credit Hour.

This course will introduce the changing information landscape in chemistry and the physical sciences to help students become effective database and "free web" searchers. Students will also become familiar with the social and ethical issues relating to the production and use of scientific information in an increasingly digital society.

Cross-listed Courses: LIB 280, PHY 280

CHM 311. Analytical Chemistry. 4 Credit Hours.

An integrated lecture and laboratory study of the underlying principles of the quantitative determination of substances using both gravimetric and volumetric techniques. Two lectures and six hours laboratory each week for one semester, four hours credit.

Prerequisites: CHM 224.

CHM 320. Instrumental Methods of Analysis. 3 Credit Hours.

A study of the instrumental methods of quantitative and qualitative chemical analysis will introduce students to spectroscopic, chromatographic, and mass spectrometry techniques among others.

Prerequisites: CHM 224 or permission of the instructor.

Corequisite: CHM 322.

CHM 322. Instrumental Analysis Lab. 1 Credit Hour.

The laboratory experience includes acquisition of and analysis of data using instruments such as NMR, IR, UV-vis, HPLC and GCMS.

Prerequisites: CHM 224 or permission of the instructor.

Corequisites: CHM 320.

CHM 327. Physical Chemistry I. 3 Credit Hours.

A survey of the physical properties of matter. The course includes a study of atomic and molecular structure and spectroscopy in the context of quantum mechanics; an examination of the properties of gases, solutions, and equilibria under the unifying principles of thermodynamics; and an exploration of such dynamical processes as chemical kinetics and transport properties.

Prerequisites: CHM 224 and MTH 146 and PHY 102 or PHY 106 or permission of the instructor.

CHM 328. Physical Chemistry II. 3 Credit Hours.

A survey of the physical properties of matter. The course includes a study of atomic and molecular structure and spectroscopy in the context of quantum mechanics; an examination of the properties of gases, solutions, and equilibria under the unifying principles of thermodynamics; and an exploration of such dynamical processes as chemical kinetics and transport properties.

Prerequisites: CHM 224 and MTH 146 AND PHY 102 or PHY 106.

CHM 331. Physical Chemistry Laboratory. 1 Credit Hour.

Laboratory investigations of thermodynamic, transport, chemical kinetic and molecular structural properties provide an introduction to experimental physical chemistry, with an emphasis on use of computers and electronic instrumentation.

Prerequisite: CHM 224.

Corequisite: CHM 327.

CHM 332. Physical Chemistry II Laboratory. 1 Credit Hour.

Laboratory investigations of thermodynamic, transport, chemical kinetic and molecular structural properties provide an introduction to experimental physical chemistry. Emphasis on use of computers and electronic instrumentation.

Prerequisite: CHM 224.

Corequisite: CHM 328.

CHM 340. Environmental Chemistry. 3 Credit Hours.

The focus of this course is on understanding the underlying chemical principles and reactions of natural systems and anthropogenic compounds in the environment. Topics such as chemistry of the atmosphere, aqueous media, pollutants and energy sources will be covered. The emphasis of the course is on chemical aspects of environmental science, so a general background in chemistry is a prerequisite.

Prerequisite: CHM 223.

Cross-listed Courses: ESS 340

CHM 390. Independent Study. 1-3 Credit Hours.

A student may pursue independent study in an area of chemistry of mutual interest to the student and a supervising faculty member. Any proposal for independent study must be approved by the department chair and the supervising faculty member prior to registration, and it must specify the number of credits sought, the topic to be studied, the methodology to be followed and the evaluation procedure. Prerequisites and corequisites: CHM 224.

CHM 435. Inorganic Chemistry. 3 Credit Hours.

A study of the principles that underlie the structures and reactivities of inorganic compounds. Included are the application of prominent bonding theories and symmetry to the study of the physical and chemical properties of chemical systems, and a survey of the chemistry of the elements.

Prerequisite: CHM 224.

CHM 436. Advanced Organic Chemistry. 3 Credit Hours.

A study of conformational, resonance and inductive effects on the rate and direction of organic reactions. Special emphasis is on the application of such effects to synthetic organic reactions.

Prerequisites: CHM 224.

CHM 450. Inorganic and Materials Laboratory. 1 Credit Hour.

The goal of the inorganic laboratory is to give students experience with a range of techniques used in the synthesis and characterization of inorganic compounds, the analysis of various classes of inorganic compounds and types of bonding encountered in the study of this compound class. Students will be given additional experience using quantitative techniques of chemical analysis to which they were exposed in pre-requisite courses and introduced to additional techniques that are widely used for chemical analysis. Corequisite: CHM 435.

CHM 460. Biochemistry I. 3 Credit Hours.

A lecture course in the chemistry of physiologically relevant compounds. These include proteins, nucleic acids, carbohydrates and lipids. The interactions, regulation and metabolism of these compounds will be introduced. Three hours of lecture per week. Carries biology major credit. Prerequisites: CHM 224 and BIO 191 or permission of instructor.

Cross-listed Courses: BIO 460

CHM 461. Biochemistry II. 3 Credit Hours.

This course is a continuation of CHM 460. Topics to be covered include cellular metabolism and energy production; synthesis and degradation of lipids, amino acids, nucleotides; and regulation of gene expression. Carries biology major credit. Prerequisite: CHM 460.

Cross-listed Courses: BIO 461

CHM 462. Biochemistry Laboratory. 2 Credit Hours.

This laboratory will introduce techniques for studying proteins, nucleic acids and lipids. Prerequisite or corequisite: CHM 460. Carries biology major credit.

Prerequisites: CHM 224 and BIO 191, or permission of instructor.

Cross-listed Courses: BIO 462

CHM 490. Internship. 1-6 Credit Hours.

This is to provide a student with research experience in the chemical industry or any other academic institution. The student intern will report as required to the chemistry faculty member assigned to evaluate his/her research experience. Does not count for CHM/BIOCHEM major or minor credit. Counts as college free elective.

Prerequisite: junior or senior status and prior approval by the department chair.

CHM 495. Research in Chemistry. 1-3 Credit Hours.

A student who wishes to undertake a research project for academic credit during a given semester must submit a research proposal prior to registration and a research report at the end of the semester. The proposal, indicating the number of credits sought, must be approved by the research director, the department chair and the academic dean. It will be kept on file in the academic dean's office. The research report will be written in the style of a chemistry journal. A copy of this report will be kept on file in the office of the chair of the chemistry department. At the end of the semester each student will present a short (15 min.) oral presentation to interested faculty and peers. Students taking this course for the first time must also take CHM 280 for no credit as part of their research.

Chemical Science (CHS)

CHS 111. Energy and the Environment. 3 Credit Hours.

This course, intended for non-science majors, examines a range of environmental topics, which fall under the headings of energy and atmospheric chemistry. The treatment of energy examines several technologies in use and under development for generating energy and the effects of these technologies on the environment. Examination of the atmosphere considers topics such as the ozone layer, acid rain and the greenhouse effect. The primary focus of the course is scientific; however, social, economic and political considerations are also introduced. This course may not be used to fulfill chemistry major or minor requirements.

CHS 113. Scientific Thought. 3 Credit Hours.

What is the nature of scientific investigation and the scientific method? How do scientists reason? What counts as good evidence in the practice of science? How does one explanation win acceptance by the scientific community while others languish or are rejected? This course will examine the development of a number of scientific ideas (drawn mainly from chemistry) in an attempt to answer these questions. This course will treat these cases primarily from a scientific perspective, but some attention will also be paid to external factors (for example, social, economic or technological factors). This course may not be used fulfill chemistry major or minor requirements.

CHS 115. Biotech: Wonder Drugs to Mutant Bugs. 3 Credit Hours.

This course will introduce concepts important to the biotechnology revolution. Topics will include drug development, DNA fingerprinting, genetically engineered bacteria and recent technological developments. Social, ethical, legal and economic aspects of various technologies will be discussed. This course may not be used to fulfill chemistry major or minor requirements.

CHS 117. Drugs: Curse Or Cure. 3 Credit Hours.

Drugs used by humans can eliminate pain, modulate mood and cure diseases. The scientific basis of biological activity will be studied for several types of drugs. The historical relevance of each representative drug will be discussed, along with the economic and political impact of drug use.

CHS 339. Science and WWII. 3 Credit Hours.

The course will explore the relationship between science, scientific advances and the progress and outcome of the Second World War. Chemistry, physics and medicine will be among the sciences discussed. The effectiveness of weapons/explosives, treatment of disease, access to raw materials, and other topics will be presented. Scientific content will be discussed at a level appropriate for non-science majors. Does not carry chemistry major or minor credit. Fulfills core requirement: Interdisciplinary Studies (IDS).

CHS 342. Bitter/Sweet: Stimulating Human History With Caffeine and Sugar. 3 Credit Hours.

This course will introduce students to the chemistry, biochemistry, and history of natural stimulants such as caffeine and sugar. Caffeine or related compounds are found in tea, coffee and cacao; sugar (sucrose) is produced in sugar cane and sugar beet. Physiological responses in humans to these stimulants will be studied, including metabolism and addiction. The historical uses of these plant products will be explored, leading to investigations of the social, political, and economic effects of changes in their production, consumption, and trade. Does not carry chemistry major or minor credit. Fulfills Core Requiremen(s): Interdisciplinary Studies (IDS) and Diversity (DIV). Prerequisite: HST 111.

Chemistry Major (B.S.)

Approved by the American Chemical Society, the BS Chemistry program is a specialized, faculty-designed curriculum that encompasses the five foundational areas of chemistry: biochemistry, organic, inorganic, physical and analytical. Hands-on laboratory experience and the opportunity for faculty mentored-research prepare our graduates for graduate school in chemistry-related fields, other science and health-related professional programs, and jobs in industry.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ^{Met by major requirement}		0
Social Science (p. 61)		3
Natural Science (p. 61) ^{Met by major requirement}		0
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		0
DIV Diversity (p. 61)		0
Major Requirements		
CHM 151 & 151L	Chemical Principles I and Chemical Principles I Laboratory	4

CHM 152 & 152L	Chemical Principles II and Chemical Principles II Lab	4
CHM 223 & 223L	Organic Chemistry I and Organic Chemistry 1 Lab	4
CHM 224 & 224L	Organic Chemistry II and Organic Chemistry II Lab	4
CHM 280	Information in Chemistry and Physical Sciences	1
CHM 311	Analytical Chemistry (and lab)	4
CHM 320 & CHM 322	Instrumental Methods of Analysis and Instrumental Analysis Lab	4
CHM 327 & CHM 331	Physical Chemistry I and Physical Chemistry Laboratory	4
CHM 328 & CHM 332	Physical Chemistry II and Physical Chemistry II Laboratory	4
CHM 435	Inorganic Chemistry	3
CHM 460	Biochemistry I	3
CHM 450	Inorganic and Materials Laboratory	1-2
	or CHM 462 Biochemistry Laboratory	
	Chemistry Elective (upper division)	1-2
Major Support Requirements		
BIO 191	General Biology I	4
MTH 145	Calculus I	4
MTH 146	Calculus II	4
	Select one of the following:	4
PHY 105 & PHY 103	General Physics Scientists/Engineers I and General Physics Laboratory (recommended)	
PHY 101 & PHY 103	Non-Calculus General Physics I and General Physics Laboratory	
	Select one of the following:	4
PHY 106 & PHY 104	General Physics Scientists/Engineers II and General Physics Laboratory (recommended)	
PHY 102 & PHY 104	Non-Calculus General Physics II and General Physics Laboratory	
Electives		
	Free Electives	12
Total Credit Hours		120-121

¹ Some Core requirements may be fulfilled by major requirements.

Course	Title	Credit Hours
Freshman Year		
First Semester		
CHM 151 & 151L	Chemical Principles I and Chemical Principles I Laboratory	4
MTH 145	Calculus I	4
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
Credit Hours		17

Second Semester

CHM 152 & 152L	Chemical Principles II and Chemical Principles II Lab	4
MTH 146	Calculus II	4
HST 111	World Civilization II	3
Social Science (p. 61)		3
PHL 110	Introduction to Philosophy	3
Credit Hours		17

Sophomore Year**First Semester**

CHM 223 & 223L	Organic Chemistry I and Organic Chemistry 1 Lab	4
PHY 105 & PHY 103	General Physics Scientists/Engineers I and General Physics Laboratory	4
ENG 210	Major Authors	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		17

Second Semester

CHM 224 & 224L	Organic Chemistry II and Organic Chemistry II Lab	4
CHM 280	Information in Chemistry and Physical Sciences	1
PHY 106 & PHY 104	General Physics Scientists/Engineers II and General Physics Laboratory	4
EAC Encountering Another Culture/Language (p. 61)		3
PHL 210	Moral Philosophy	3
Credit Hours		15

Junior Year**First Semester**

CHM 327 & CHM 331	Physical Chemistry I and Physical Chemistry Laboratory	4
CHM Elective		3
BIO 191	General Biology I	4
ENG 310	Literature and Culture	3

Credit Hours **14**

Second Semester

CHM 328 & CHM 332	Physical Chemistry II and Physical Chemistry II Laboratory	4
CHM 435	Inorganic Chemistry	3
CHM 450	Inorganic and Materials Laboratory	1
IDS Interdisciplinary Studies (p. 61)		3
Elective		3

Credit Hours **14**

Senior Year**First Semester**

CHM 311	Analytical Chemistry (and lab)	4
CHM 460	Biochemistry I	3
Religion (p. 61)		3
VPA Visual & Performing Arts (p. 61)		0
Elective		3

Credit Hours **13**

Second Semester

CHM 320 & CHM 322	Instrumental Methods of Analysis and Instrumental Analysis Lab	4
COR 400	Senior Studies: Transformations	3
Elective		3
Elective		3
Credit Hours		13
Total Credit Hours		120

Note: Course may be available in semesters other than indicated.

Chemistry Major (B.S.) with a Minor in Biology

Another way of achieving a B.S. degree in chemistry includes a simultaneous minor in biology. In addition to providing the student with the background required for a meaningful career in chemistry, this program is also designed to prepare the student for further studies in biochemistry, medicine, dentistry (including all requirements for admission to such programs), as well as graduate studies in these and related fields. This curriculum would permit an easy transition to a major in biochemistry or biology should the student find these subjects of greater interest. A number of free electives are permitted, making this a very flexible program. A suggested form for the program follows.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)	Met by major requirement	0
Social Science (p. 61)		3
Natural Science (p. 61)	Met by major requirement	0
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		0
DIV Diversity (p. 61)		0
Major Requirements		
CHM 151 & 151L	Chemical Principles I and Chemical Principles I Laboratory	4
CHM 152 & 152L	Chemical Principles II and Chemical Principles II Lab	4
CHM 223 & 223L	Organic Chemistry I and Organic Chemistry 1 Lab	4
CHM 224 & 224L	Organic Chemistry II and Organic Chemistry II Lab	4

CHM 280	Information in Chemistry and Physical Sciences	1
CHM 311	Analytical Chemistry (and lab)	4
CHM 320 & CHM 322	Instrumental Methods of Analysis and Instrumental Analysis Lab	4
CHM 327 & CHM 331	Physical Chemistry I and Physical Chemistry Laboratory	4
CHM 328 & CHM 332	Physical Chemistry II and Physical Chemistry II Laboratory	4
CHM 435	Inorganic Chemistry	3
CHM 460	Biochemistry I	3
CHM 450	Inorganic and Materials Laboratory or CHM 462 Biochemistry Laboratory	1
Chemistry Elective (upper division)		3
Major Support Requirements		
BIO 191	General Biology I	4
MTH 145	Calculus I	4
MTH 146	Calculus II	4
Select one of the following:		4
PHY 105 & PHY 103	General Physics Scientists/Engineers I and General Physics Laboratory (recommended)	
PHY 101 & PHY 103	Non-Calculus General Physics I and General Physics Laboratory	
Select one of the following:		4
PHY 106 & PHY 104	General Physics Scientists/Engineers II and General Physics Laboratory (recommended)	
PHY 102 & PHY 104	Non-Calculus General Physics II and General Physics Laboratory	
Minor Requirements		
BIO 192	General Biology II	4
Two other biology classes, at least one of which must be a lab course, and at least one course must be numbered BIO 210 or higher		7
Electives		
Free Electives		1
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

Course	Title	Credit Hours
Freshman Year		
First Semester		
CHM 151 & 151L	Chemical Principles I and Chemical Principles I Laboratory	4
BIO 191	General Biology I	4
MTH 145	Calculus I	4
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		18
Second Semester		
CHM 152 & 152L	Chemical Principles II and Chemical Principles II Lab	4

BIO 192	General Biology II	4
MTH 146	Calculus II	4
Social Science (p. 61)		3
PHL 110	Introduction to Philosophy	3
Credit Hours		18
Sophomore Year		
First Semester		
CHM 223 & 223L	Organic Chemistry I and Organic Chemistry I Lab	4
PHY 105 & PHY 103	General Physics Scientists/Engineers I and General Physics Laboratory	4
HST 110	World Civilization I	3
ENG 210	Major Authors	3
Theology (p. 61)		3
Credit Hours		17
Second Semester		
CHM 224 & 224L	Organic Chemistry II and Organic Chemistry II Lab	4
CHM 280	Information in Chemistry and Physical Sciences	1
PHY 106 & PHY 104	General Physics Scientists/Engineers II and General Physics Laboratory	4
HST 111	World Civilization II	3
PHL 210	Moral Philosophy	3
Credit Hours		15
Junior Year		
First Semester		
CHM 327 & CHM 331	Physical Chemistry I and Physical Chemistry Laboratory	4
IDS Interdisciplinary Studies (p. 61)		3
BIO 218	Cell and Molecular Biology	4
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		14
Second Semester		
CHM 328 & CHM 332	Physical Chemistry II and Physical Chemistry II Laboratory	4
CHM 435	Inorganic Chemistry	3
CHM 450	Inorganic and Materials Laboratory	1
EAC Encountering Another Culture/Language (p. 61)		3
Elective		1
Credit Hours		12
Senior Year		
First Semester		
CHM 311	Analytical Chemistry (and lab)	4
CHM 460	Biochemistry I	3
ENG 310	Literature and Culture	3
Religion (p. 61)		3
Credit Hours		13
Second Semester		
CHM 320 & CHM 322	Instrumental Methods of Analysis and Instrumental Analysis Lab	4
CHM Elective		3
BIO Elective		3

COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		0
Credit Hours		13
Total Credit Hours		120

Note: An interdisciplinary major in biochemistry is available. Courses may be available in semesters other than indicated.

Chemistry Major (B.S.) and M.S. in Chemical Pre-Engineering

The chemistry B.S. can be taken with a pre-engineering concentration to serve as the foundation for the Bachelor's in Chemistry and Master's in Chemical Engineering degree program at Syracuse University.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)	Met by major requirement	0
Social Science (p. 61)		3
Natural Science (p. 61)	Met by major requirement	0
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		0
DIV Diversity (p. 61)		0
Major Requirements		
CHM 151 & 151L	Chemical Principles I and Chemical Principles I Laboratory ²	4
CHM 152 & 152L	Chemical Principles II and Chemical Principles II Lab ²	4
CHM 223 & 223L	Organic Chemistry I and Organic Chemistry 1 Lab ²	4
CHM 224 & 224L	Organic Chemistry II and Organic Chemistry II Lab ²	4
CHM 280	Information in Chemistry and Physical Sciences	1
CHM 311	Analytical Chemistry (and lab)	4
CHM 320 & CHM 322	Instrumental Methods of Analysis and Instrumental Analysis Lab	4
CHM 327 & CHM 331	Physical Chemistry I and Physical Chemistry Laboratory ²	4
CHM 328 & CHM 332	Physical Chemistry II and Physical Chemistry II Laboratory ²	4
CHM 435	Inorganic Chemistry	3

CHM 460	Biochemistry I	3
CHM 450	Inorganic and Materials Laboratory or CHM 462 Biochemistry Laboratory	1
CHM Elective ³		
Major Support Requirements		
MTH 145	Calculus I ²	4
MTH 146	Calculus II ²	4
MTH 245	Calculus III ²	4
MTH 304	Differential Equations for Scientists And Engineers ²	4
MTH 311	Introduction to Probability Theory ²	3
BIO 191	General Biology I	4
PHY 105 & PHY 103	General Physics Scientists/Engineers I and General Physics Laboratory ²	4
PHY 106 & PHY 104	General Physics Scientists/Engineers II and General Physics Laboratory ²	4
PHY 333	Computational Physics ²	3
CEN 231	Mass and Energy Balances ^{2,4}	3
CEN 333	Fluid Transport ^{2,4}	3
CEN 341	Fundamentals of Heat and Mass Transfer ^{2,4}	4
CEN 587	Chemical Reaction Engineering ^{2,4}	3
ECS 326	Engineering Materials, Properties, and Processing ^{2,4}	3
Total Credit Hours		130

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Satisfies prerequisites for admission to MS program.
- ³ Satisfied by CEN 587.
- ⁴ Taken at Syracuse University.

Course	Title	Credit Hours
Freshman Year		
First Semester		
CHM 151 & 151L	Chemical Principles I and Chemical Principles I Laboratory	4
MTH 145	Calculus I	4
PHY 105 & PHY 103	General Physics Scientists/Engineers I and General Physics Laboratory	4
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
Credit Hours		18
Second Semester		
CHM 152 & 152L	Chemical Principles II and Chemical Principles II Lab	4
MTH 146	Calculus II	4
PHY 106 & PHY 104	General Physics Scientists/Engineers II and General Physics Laboratory	4
PHL 110	Introduction to Philosophy	3
VPA Visual & Performing Arts (p. 61)		0
Credit Hours		15

Sophomore Year**First Semester**

CHM 223 & 223L	Organic Chemistry I and Organic Chemistry 1 Lab	4
CEN 231 ¹		3
MTH 245	Calculus III	4
BIO 191	General Biology I	4
HST 110	World Civilization I	3
Credit Hours		18

Second Semester

CHM 224 & 224L	Organic Chemistry II and Organic Chemistry II Lab	4
CHM 280	Information in Chemistry and Physical Sciences	1
PHY 333	Computational Physics	3
MTH 304	Differential Equations for Scientists And Engineers	4
PHL 210	Moral Philosophy	3
HST 111	World Civilization II	3
Credit Hours		18

Junior Year**First Semester**

CHM 327 & CHM 331	Physical Chemistry I and Physical Chemistry Laboratory	4
CEN 333 ¹		3
Social Science (p. 61)		3
ENG 210	Major Authors	3
Religion (p. 61)		3
Credit Hours		16

Second Semester

CHM 328 & CHM 332	Physical Chemistry II and Physical Chemistry II Laboratory	4
CHM 435	Inorganic Chemistry	3
CHM 450	Inorganic and Materials Laboratory	1
CEN 341 ¹		4
ECS 326 ¹		3
IDS Interdisciplinary Studies (p. 61)		3
Theology (p. 61)		3
Credit Hours		21

Senior Year**First Semester**

CHM 311	Analytical Chemistry (and lab)	4
CEN 587 ¹		3
MTH 311	Introduction to Probability Theory	3
ENG 310	Literature and Culture	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		16

Second Semester

CHM 320 & CHM 322	Instrumental Methods of Analysis and Instrumental Analysis Lab	4
CHM 460	Biochemistry I	3
COR 400	Senior Studies: Transformations	3

Encountering Another Culture/Language (p. 61)	3
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Credit Hours	13
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Fifth Year

Syracuse University MS Chemical Engineering

Credit Hours	0
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Total Credit Hours	135
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¹ Taken at Syracuse University.

Note: Courses may be available in semesters other than indicated.

Chemistry Major (B.S.) with a Certification in Adolescence Education (Grades 7-12)

Code	Title	Credit Hours
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Core Requirements (p. 61) ¹

COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110 & HST 111	World Civilization I and World Civilization II	6
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)	Met by major requirement	0
Social Science (p. 61)	Met by EDU 105	0
Natural Science (p. 61)	Met by major requirement	0
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		0
DIV Diversity (p. 61)		0

Major Requirements

CHM 151 & 151L	Chemical Principles I and Chemical Principles I Laboratory	4
CHM 152 & 152L	Chemical Principles II and Chemical Principles II Lab	4
CHM 223 & 223L	Organic Chemistry I and Organic Chemistry 1 Lab	4
CHM 224 & 224L	Organic Chemistry II and Organic Chemistry II Lab	4
CHM 280	Information in Chemistry and Physical Sciences	1
CHM 311	Analytical Chemistry (and lab)	4
CHM 320 & CHM 322	Instrumental Methods of Analysis and Instrumental Analysis Lab	4
CHM 327 & CHM 331	Physical Chemistry I and Physical Chemistry Laboratory	4
CHM 328 & CHM 332	Physical Chemistry II and Physical Chemistry II Laboratory	4

CHM 435	Inorganic Chemistry	3
CHM 460	Biochemistry I	3
CHM 450	Inorganic and Materials Laboratory or CHM 462 Biochemistry Laboratory	1
CHM Elective		3
Major Support Requirements		
MTH 145	Calculus I	4
MTH 146	Calculus II	4
BIO 191	General Biology I	4
Select one of the following:		4
PHY 105 & PHY 103	General Physics Scientists/Engineers I and General Physics Laboratory (preferred)	
PHY 101 & PHY 103	Non-Calculus General Physics I and General Physics Laboratory	
Select one of the following:		4
PHY 106 & PHY 104	General Physics Scientists/Engineers II and General Physics Laboratory (preferred)	
PHY 102 & PHY 104	Non-Calculus General Physics II and General Physics Laboratory	
Education Requirements		
EDU 200	Teaching in a Diverse Society	3
EDU 215	Learning in a Sociocultural Context	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
EDU 303	Multicultural Literacy Methods	3
EDU 315	Plan, Assessing, Managing Inclusive Clsrm	3
EDU 325	Teach/Adapt Curric Content Specialists	3
EDU 335	Literacy Development in the Content Area	3
EDU 401	Adolescent Education Strategies & Technology ²	4
EDU 405	Preservice Clinical Teaching Seminar	3
EDU 450	Supervised Preservice Teaching (7-9)	6
EDU 460	Supervised Preservice Teaching (10-12)	6
Total Credit Hours		147

¹ Some Core requirements may be fulfilled by major requirements.

² EDU 401 Adolescent Education Strategies & Technology will substitute for either Physical Chemistry II with lab or Instrumental Chemistry - whichever would ordinarily be taken during the student's senior year.

Typical Program for Chemistry Major (B.S.) with Adolescence Teaching Certification

Course	Title	Credit Hours
Freshman Year		
First Semester		
CHM 151 & 151L	Chemical Principles I and Chemical Principles I Laboratory	4
MTH 145	Calculus I	4
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3

EDU 200	Teaching in a Diverse Society	3
Credit Hours		17
Second Semester		
CHM 152 & 152L	Chemical Principles II and Chemical Principles II Lab	4
MTH 146	Calculus II	4
PHL 110	Introduction to Philosophy	3
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
HST 111	World Civilization II	3
Credit Hours		17

Sophomore Year

First Semester		
CHM 223 & 223L	Organic Chemistry I and Organic Chemistry 1 Lab	4
PHY 105 & PHY 103	General Physics Scientists/Engineers I and General Physics Laboratory	4
EDU 215	Learning in a Sociocultural Context	3
HST 110	World Civilization I	3
EAC/Language		3
Credit Hours		17
Second Semester		
CHM 224 & 224L	Organic Chemistry II and Organic Chemistry II Lab	4
CHM 280	Information in Chemistry and Physical Sciences	1
PHY 106 & PHY 104	General Physics Scientists/Engineers II and General Physics Laboratory	4
PHL 210	Moral Philosophy	3
Theology		3
EAC/Language		3
Credit Hours		18

Junior Year

First Semester		
CHM 327 & CHM 331	Physical Chemistry I and Physical Chemistry Laboratory	4
BIO 191	General Biology I	4
EDU 303	Multicultural Literacy Methods	3
EDU 315	Plan, Assessing, Managing Inclusive Clsrm	3
ENG 210	Major Authors	3
Credit Hours		17
Second Semester		
CHM 328 & CHM 332	Physical Chemistry II and Physical Chemistry II Laboratory	4
CHM 435	Inorganic Chemistry	3
CHM 450	Inorganic and Materials Laboratory	1
EDU 325	Teach/Adapt Curric Content Specialists	3
EDU 335	Literacy Development in the Content Area	3
Religion		3
IDS ¹		3
Credit Hours		20

Senior Year**First Semester**

CHM 311	Analytical Chemistry	4
CHM 460	Biochemistry I	3
EDU 401	Adolescent Education Strategies & Technology	4
COR 400	Senior Studies: Transformations	3
ENG 310	Literature and Culture ¹	3
upper-level CHM		3
Credit Hours		20

Second Semester

EDU 405	Preservice Clinical Teaching Seminar	3
EDU 450	Supervised Preservice Teaching (7-9)	6
EDU 460	Supervised Preservice Teaching (10-12)	6
Credit Hours		15
Total Credit Hours		141

¹ It is highly recommended to take a Core course such as IDS or ENG 310 in J-mester, Maymester, or summer during these overload semesters.

Note: the typical program assumes that DIV and VPA requirements are satisfied without separate courses.

Biochemistry Major (B.S.)

An interdisciplinary major in biochemistry is available. For details, see Interdisciplinary Programs (p. 66).

Forensic Sciences

A memo of understanding with Syracuse University allows qualified students to apply to participate in a five-year pathway with Syracuse University leading to a B.S. in chemistry and an M.S. in forensic science or biomedical forensic sciences.

Students majoring in biology, chemistry, or physics at Le Moyne College interested in forensic science should initiate contact with and indicate their interest to both their Academic Advisor and the respective Department Chair for their major by the second semester of their freshman year. In the fall of their junior year, students will make formal application for consideration to a selection committee. By May 1st of their junior year, LMC students nominated by LMC's selection committee will apply for conditional admission. At the time of application, students will have GPAs above 3.0 overall as well as in their majors.

Chemistry Minor

The requirements for the chemistry minor are at least 15 credit hours of chemistry courses designated CHM and numbered 151 or higher. These must include at least three lecture courses with their associated laboratories. At least three credit hours must be at the 300- or 400- level. None of the courses may be taken as pass/fail.

COMPUTER SCIENCE

Program Director: David P. Voorhees (of Computer Science, Cybersecurity, and Software Applications and Systems Development)

Associate Professor: Aparna Das, David P. Voorhees

This program's strength is in the liberal arts tradition - students receive broad exposure to other disciplines while obtaining a solid foundation in computer science. Its distinctive features include:

1. ***A Curriculum that covers the breadth of computer science topics and allows specialization through electives.***

Our curriculum is designed to introduce students to the breadth of computer science topics from the practical to the theoretical. It focuses on fundamental concepts and principals in computer science and treats the latest trending technologies as current examples of these concepts. Our goal is to prepare students to be problem solvers who are adaptable to the rapidly changing nature of technology, rather than to be a specialist only in today's trending technologies. Our required courses cover topics such as software architecture and design, program design, algorithm analysis, and operating systems. Elective courses, taken in the last two years of the program, allow students to customize their learning based on individual interests. We offer electives on topics such as software design, secure software development, artificial intelligence, mobile computing, networks, graphics, and robotics. Course projects encompass a range of sizes and domains, with opportunities for students to experience software engineering from an individual and team perspective. At the culmination of the major, all students complete a significant senior project where knowledge acquired across various courses must be combined and applied.

2. ***Lots of interaction with faculty members and ample opportunities to learn from peers.***

Computer science majors at Le Moyne are part of a small close knit community with lots of interaction with faculty members and with other students in the major. Students are advised by the same faculty member throughout the major, thus allowing for more personal counseling. The weekly laboratory session of our intro course, where students get hands-on experience with topics learned in the classroom, is taught by faculty rather than a teaching assistant. Many of our courses include projects and assignments which are done in pairs or triples to encourage students to learn from their peers. We also hire upper-level students as tutors within Le Moyne's Quantitative Reasoning Center.

3. ***Flexibility to dive deep into technology, earn a minor, or double major.***

There are enough free electives to take many more computer science courses than what is required to earn the degree. If you would like to learn about many different aspects of software technologies, this option is right for you. The number of free electives also means you can easily earn a minor in another discipline. With good planning, we have had students earn two minors or a second major in another discipline. The flexibility in our curriculum gives you many good choices for developing a learning experience that meets your needs.

- Create, analyze, and explain the security of computational solutions.
- Know and apply information related to key subject areas:

- (1) Algorithms, data structures and complexity;
- (2) Operating systems and computer architecture;
- (3) Networking and communication; and,
- (4) Multithreading and parallelism.

- Computer Programming (Certificate) (p. 175)
- Web Programming (Certificate) (p. 70)
- Computer Science Major (B.S.) (p. 176)
- Computer Science Major (B.A.) (p. 179)
- Computer Science Minor (p. 180)
- Computer-science-based Engineering Concentrations
 - Students participating in the bachelor's + master's engineering partnership with Syracuse University must choose the appropriate concentration.
 - B.S. in Computer Science with Concentration in Pre-engineering (Computer Science) (p. 180)
 - B.S. in Computer Science with Concentration in Pre-engineering (Computer Engineering) (p. 181)
- Biology & Computer Science Minor (p. 69)
- Interdisciplinary Minor in Chemistry & Computer Science (p. 71)
- Interdisciplinary Minor in Data Technologies (p. 75)
- Interdisciplinary Minor in Philosophy & Computer Science (p. 104)
- Visual Design Minor (p. 105)

Computer Science (CSC)

CSC 101. Introduction to Digital Technologies. 3 Credit Hours.

The goal of this course is to help students gain a deeper appreciation of the capabilities and limitations of computing. Students will learn core computer science concepts and apply those using tools that they will use as future scientists, data analysts, and decision makers. By understanding software as more than a black box, students are better positioned to understand its value and its results, and make more intelligent decisions about when and how much to rely on software results. The course will use tools as Excel, Access, SQL, XML, and NetLogo to demonstrate principles.

Cross-listed Courses: CTS 101

CSC 155. COBOL Programming. 3 Credit Hours.

This course is a study of the COBOL programming language, with application of its features for table handling, sorting, sequential and random access file handling and modular programming.

Cross-listed Courses: MIS 326

CSC 165. Programming in Visual Basic With Visual Basics. 3 Credit Hours.

This class covers the basics of structured programming using Visual Basic to develop decision support systems or management science applications. The theory and practice of structured programming, logic, systems development are covered in a series of iterative hands-on assignments, which are designed based on practical decision support systems or management science applications. Students can expect to learn how to create and program advanced Excel applications or other equivalent applications. A term project involving the development and documentation of a Visual basic program is required.

Cross-listed Courses: MIS 385

Student Learning Outcomes in Computer Science

Students who graduate from this program will be able to:

- Create, analyze, and explain the design of computational solutions.

CSC 170. Introduction to Java Programming Programming. 4 Credit Hours.

This course will introduce you to programming and object oriented programming using Java. General programming topics include program design, testing strategies, and control structures such as conditionals, iteration. Object oriented topics include creating and using classes, inheritance and interfaces. Students will also learn about basic data structures such as arrays and strings. Students will solve programming problems in weekly lab sessions. Graduate students in the course will also be introduced to event-driven programming using a graphical user interface (GUI), recursion, and 2-dimensional arrays.

Cross-listed Courses: MIS 325

CSC 175. Introduction to Algorithms and Program Design. 4 Credit Hours.

This course introduces students to programming with an emphasis on computational problem-solving. Topics include program design and testing strategies, programming language syntax and semantics, scalar data types and an introduction to data structures, control structures, iteration, recursion, file input/output, exceptions as well as an introduction to algorithm analysis. Students will use a high-level programming language to develop programs and reinforce their understanding of topics.

Cross-listed Courses: MIS 175

CSC 175L. Lab. 0 Credit Hour.

Cross-listed Courses: MIS 175L

CSC 179. Transition to Python. 1 Credit Hour.**CSC 185. Data Structures & Algorithms. 4 Credit Hours.**

This course studies data structures and algorithm analysis. Topics include data structures such as list, trees, stacks, queues, heaps, hash tables and graphs, and algorithms for searching and sorting, and simple graph algorithms. Students will also learn how to formally analyze algorithms. The emphasis will be on applying data structures to design and implement efficient algorithms. Students will use a high-level programming language to complete several intermediate sized programming projects to reinforce concepts.

Prerequisite: CSC 175 or CSC 179.

CSC 275. Data Structures and Algorithms. 3 Credit Hours.

This course studies data structures and algorithm analysis. Topics include data structures such as list, trees, stacks, queues, heaps, hash tables and graphs, and algorithms for searching and sorting, and simple graph algorithms. Students will also learn how to formally analyze algorithms. The emphasis will be on applying data structures to design and implement efficient algorithms. Students will use a high-level programming language to complete several intermediate sized programming projects to reinforce concepts.

Prerequisites: CSC 170 or CSC 176.

CSC 276. Object Oriented Software Design. 4 Credit Hours.

This course deals with the general topic of object-oriented software design and introduces an object-oriented programming language. Design strategies (e.g., compositional) and concepts (e.g., functional independence) are discussed in the context of a software design model that contains four elements-architecture, data, interfaces, and components. Different object-oriented software design techniques (e.g., UML), software design metrics (e.g., coupling), and software quality assurance techniques (e.g., review) are discussed and applied to software designs. Also introduced are human-computer interaction, incremental software development using a personal software process, information models and database systems, principles of secure design, defensive programming, threats and attacks, and secure software engineering. Each student will produce design models and a prototype implementation.

Prerequisite: CSC 185.

CSC 281. Discrete Mathematics. 3 Credit Hours.

This course covers the fundamental mathematical principles relevant to computer science, applied mathematics, and engineering. Topics included are functions, relations, sets, propositional logic, predicate logic, proof techniques, (with an emphasis on mathematical induction), basics of counting, and discrete probability.

Prerequisite: MTH 145.

Cross-listed Courses: MTH 260

CSC 289. Bits, Nibbles, and Bytes. 3 Credit Hours.

This course provides an introduction to computer hardware with an emphasis on architecture and low-level programming. Topics include Boolean logic, design of combinational and sequential circuits, design of computer hardware components such as the CPU, machine level representation of data, and basic machine architecture. Assembly language is used to provide a programming experience where the code directly manipulates the CPU and memory.

Prerequisite: CSC 185.

CSC 333. Computational Physics. 3 Credit Hours.

An introduction to computer techniques and simulations emphasizing problem solving in physics and the use of statistical, differential, integral, graphical, and numerical methods. Examples will be drawn from classical, statistical, and quantum mechanics and will include numerical integration, differentiation, and the solution of ordinary and partial differential equations, using programs such as Excel, Maple, Matlab, Mathematica etc.

Prerequisites: MTH 145 and MTH 146.

Corequisite: MTH 245.

Cross-listed Courses: PHY 333

CSC 346. Software Operating Environments. 3 Credit Hours.

This course covers operating system principles and design, and focuses on process management, memory management, and device and file management. Performance considerations, including both resource usage and speed, are emphasized. Students will develop design models that describe the functional components of operating systems, and will develop/modify software that simulates selected components of an operating system. (Offered every other spring.)

Prerequisite: CSC 276.

CSC 355. Programming Languages & Paradigms. 3 Credit Hours.

This course introduces the theory of programming languages and at least two computing paradigms-functional and logic. Theory topics include syntax, semantics, type systems, program representation, language translation and execution, and memory management. At least one functional and one logic language will be covered, giving students hands-on experience using these paradigms. Choice of programming language and its impact on security will also be discussed.

Prerequisite: CSC 185.

CSC 361. Cybersecurity for Future Presidents. 3 Credit Hours.

Future Presidents will need to understand the science, technology, and human considerations behind cyber security well enough to make informed decisions when provided advice and options for action. By adopting the perspective of training future Presidents, this course aims to help all students (whether or not they later seek leadership positions in government or industry) to understand cyber security, privacy, and intellectual property issues from technical and social perspectives. It assumes a basic familiarity with computers including use of modern desktop, mobile and web-based platforms. It is designed for students who have an interest in thinking critically about how technology and cyber security may affect individuals, group, and organizations in 20-30 years. Government by the people depends on a citizenry that understands the issues their leaders must address. This course will provide students the tools to understand and evaluate the actions of future leaders in the area of cyber security.

CSC 375. Design and Analysis of Algorithms. 3 Credit Hours.

This course covers at least four major algorithm design techniques: greedy, divide-and-conquer, dynamic programming and network flow algorithms while emphasizing techniques for analyzing algorithms. Designing and analyzing algorithms for parallel machines will also be discussed. Additional topics include computational complexity focusing on NP-completeness, and some algorithmic techniques for dealing with intractable problems including approximation algorithms and local search.

Prerequisites: CSC 185 and CSC 281.

CSC 390. Independent Study. 1-3 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the academic dean. The proposal will be kept on file in the academic dean's office.

CSC 411. Introduction of Artificial Intelligence. 3 Credit Hours.

This course introduces the concepts and uses of artificial intelligence. Topics include heuristic search techniques, branch and bound, game-playing, neural nets, knowledge representation, logic and deduction, planning and an introduction to machine learning.

Prerequisites: CSC 276.

CSC 421. Numerical Methods. 3 Credit Hours.

The development of algorithms for and error analysis of: solutions of equations, interpolation and approximation, numerical differentiation and integration, numerical solutions of differential equations. Also, knowledge of a high level programming language. (Offered every other fall.)

Prerequisites: Grade of C- or better in MTH 245 and MTH 261 or permission of the department chair.

Cross-listed Courses: MTH 421

CSC 425. Introduction to Graphics. 3 Credit Hours.

This course introduces the concepts and uses of computer graphics. Topics include raster and vector graphics, graphics processing unit, graphics programming libraries, and graphic capabilities found in game engines.

Prerequisite: CSC 276.

CSC 431. Introduction to Robotics. 3 Credit Hours.

This course introduces the concepts and uses of wheeled robots. Topics include navigating a robot in a physical setting using various types of sensors (e.g., LiDAR, image, and infrared proximity) and an introduction to the different types and uses of robots.

Prerequisite: CSC 276.

CSC 441. Secure Software Development in Mobile And Cloud Environments. 3 Credit Hours.

This course introduces secured software development in two environments - mobile and cloud - with an emphasis on design, construction and testing. The course will also reinforce human-computer interaction, information models and database systems. Each student will produce design models and at least one prototype implementation.

Prerequisites: CSC 275.

CSC 445. Networks & Cloud Secure Software Development. 4 Credit Hours.

This course covers net-centric computing by focusing on client-server computing and the internet protocol stack, with emphasis on protocols in the application, transport, and network layers. Also covered are human-computer interaction, agile software development using a personal software process, principles of secure design, defensive programming, threats and attacks, and secure software engineering. Each student will produce design models, a simple client-side application, and a robust server-side component used to illustrate client-server communication. Topics related to server deployment as a cloud service, peer-to-peer computing, and distributed data will also be introduced.

Prerequisites: CSC 276.

CSC 460. Managing Systems Projects. 3 Credit Hours.

This course focuses on introductory project management processes, technology and tools, utilizing the Project Management Institute's (PMI) Project Management Body of Knowledge (PMBOK) and the Software Engineering Institute's (SEI's) Capability Maturity Model Integration (CMMI) processes and nomenclature. Students examine the processes and theory of project management as well as industry case studies, and will utilize project management software in support of their management activities. Guest speakers and field research provide students with access and information from industry and academia. Students are engaged in a semester-long project. Initially, they are required to identify the project scope and team charter for their project; subsequent assignments require them to prepare a business case, work breakdown structure, cost estimate, and final project documentation for their project.

Cross-listed Courses: MIS 460, MGT 460, RMI 462

CSC 471. Models of Computation. 3 Credit Hours.

While most computer science courses discuss problems which are able to be solved by computers, this course will look at both the capabilities and the limitations of computers. We start by analyzing simple models of computation, including finite state automata, and push down automata, and build up to Turing machines, which are powerful enough to model modern computers including multicore parallel machines. The course explores where the boundary lies between what is possible and impossible to compute on each model to draw conclusions about the nature of computation.

Prerequisites: CSC 375.

CSC 480. Database Management Systems. 3 Credit Hours.

This course provides an overview of the concepts and principles of database management systems, blending technical with managerial topics. Students will study the principles of database structures, the database development process, entity-relationship and object-oriented database models, logical and physical database designs, SQL, as well as distributed and object-oriented databases. Students will also examine data warehouses, as well as the challenges of global electronic data management, electronic commerce and ethical issues associated with the increasing integration and complexity of large-scale data sets. Students will complete a database design project during the semester.

Prerequisites: CSC 185 or permission of the instructor.

Cross-listed Courses: MIS 480

CSC 481. Database Theory. 1 Credit Hour.

This course introduces students to the theory behind database technologies. Student's knowledge of SQL will be used to discuss relational algebra, relational calculus, normalization, and functional dependencies. Indexing structures (e.g., b-tree, hashing) and their associated performance characteristics and transaction processing (i.e., commits and concurrency issues) will also be discussed. A student must concurrently take CSC 480 (MIS 480).

CSC 490. Internship in Computer Science. 1-6 Credit Hours.

Participation in a field learning experience in some area of computer science. The student intern reports as required to a supervising faculty member, who will evaluate the internship and its relationship to the student's academic program. May be taken pass/fail only.

Prerequisites: a minimum of four computer science courses; junior or senior standing; and approval of the department.

CSC 496. Senior Capstone Project. 3 Credit Hours.

This course, exclusively for senior computer science and software applications and systems development majors, involves the completion and presentation of a software engineering or research project. A small team of students works on a software engineering project while self-managing their project. The project team produces software engineering artifacts, presentation materials, and a prototype implementation. A research project is typically done by students individually and results in a paper, presentation materials, and a prototype implementation or code to support the research agenda.

CSC 497. Senior Capstone Project. 3 Credit Hours.

This course, exclusively for senior computer science and software applications and systems development majors, involves the completion and presentation of a software engineering project. A small team of students works on a software engineering project with guidance from a faculty member. The project team produces software engineering artifacts, presentation materials, and a prototype implementation.

Prerequisite: Senior status.

CSC 498. Cooperative Education Experience. 12 Credit Hours.

Computing Technologies (CTS)

CTS 101. Introduction to Digital Technologies. 3 Credit Hours.

The goal of this course is to help students gain a deeper appreciation of the capabilities and limitations of computing. Students will learn core computer science concepts and apply those using tools that they will use as future scientists, data analysts, and decision makers. By understanding software as more than a black box, students are better positioned to understand its value and its results, and make more intelligent decisions about when and how much to rely on software results. The course will use tools as Excel, Access, SQL, XML, and NetLogo to demonstrate principles.

Cross-listed Courses: CSC 101

CTS 120. Introduction to Visual Design. 3 Credit Hours.

This course introduces the elements of art and principles of design that create the language of visual communication. Through a variety of projects, in-class exercises, and homework assignments, students will engage in a rigorous creative process: brainstorming, conceptualizing, sketching, refinish, and producing. Students will be introduced to a variety of media and techniques and will become more conscious of the conceptual, expressive, and perceptual qualities of their aesthetic decisions, so they can effectively communicate visually. Through exposure to everything from Grand Masters to Madison Avenue ads, students will learn from examples of artists and designers from the past and present who have contributed to the visual landscape, to foster an awareness of visual systems of different cultures, time periods, and contemporary artists and to develop the ability to ask critical questions. Slide presentations and sketchbook assignments will introduce a variety of interpretations on how visual thinkers have perceived and used visual concepts and elements in their own artwork.

Cross-listed Courses: ART 120, CMM 120

CTS 123. Web Design & Development. 3 Credit Hours.

This course focuses on the design and development of web pages, including client-side web-based applications. Topics covered include Web concepts, interaction and user experience design, process used to develop web pages, usability and accessibility practices, techniques for testing and evaluating a web design, simple analytics of user behaviors, and an introduction to client-side scripting. Tools used include HTML, CSS, Web editors, imaging software, and JavaScript.

Cross-listed Courses: CMM 123

CTS 223. Web Scripting & Services. 3 Credit Hours.

This course further explores JavaScript, with an emphasis on the Document Object Model (DOM), managing events and objects, and obtaining data from databases or web-based information services. Students will be introduced to server-side scripting, content management systems, and other methods and tools used to create dynamic web page content. This course continues to discuss interaction and user experience design, process used to develop web pages, usability and accessibility practices, techniques for testing and evaluating a web design, and simple analytics of user behaviors.

Prerequisites: CTS 123.

CTS 229. Visual Design Capstone Project. 3 Credit Hours.

A culminating experience for students to use design and development tools to solve problems or generate insights in the domain of their choice.

Prerequisite: Any three Visual Design courses.

CTS 233. Data Technologies. 3 Credit Hours.

Students use technology tools to understand the different ways in which digital data may be stored, the impact this has on how this data can be retrieved, and the different ways data may be analyzed and visualized. Structured data is emphasized throughout this course, while unstructured data will be introduced and discussed. An introduction to a programming language (e.g., Python, R) is included in this course. And BIO 265, BIO 427, CSC 101, CTS 101, MIS 201, MTH 421, or PHY 333. Prerequisites: MTH 110, MTH 111, STA 201, or MTH 145.

CTS 340. Data Science. 3 Credit Hours.

This course will provide you the knowledge and techniques to approach phenomena analytically. Specially, you will learn the role and process of the data science lifecycle in understanding and gaining insight about phenomena, including how to ask the appropriate questions, identify the appropriate data and information needed, use the appropriate tools to analyze a large volume of data, evaluate the findings effectively with parameters, find the appropriate answers, and present the answers and compellingly. In the business context such knowledge can enable organizations to make quality decisions and develop important business strategies that can enhance organizational performance and that can contribute to significant financial gains. You will proficiently acquire such knowledge and techniques through class discussion, lectures, readings, as well as hand-on exercises. Prerequisite(s): STA 202 or MTH 112.

Cross-listed Courses: MIS 340, ANL 435

CTS 409. Capstone Project in Biology and Computer Science. 1 Credit Hour.

This course represents the capstone course for the interdisciplinary minor in Biology and Computer Science. Students will combine their computational and biological skills on a project they identify while faculty will provide mentoring support to project teams.

Prerequisites: BIO 192 and CSC 185.

CTS 411. Crowds, Social Media & Digital Collaboration. 3 Credit Hours.

Over the past years, crowds, social media, and digital collaborations have emerged as important topics in the IS field. Social media and other social information systems not only support communications and collaborations among the general crowd but also harness collective intelligence for innovation. This course covers the basic concepts and theories of social media, crowdsourcing, remixing, and sharing economy. Students will also learn analytics and applications around these trending topics.

Prerequisite: MIS 201.

Cross-listed Courses: MIS 411

CTS 415. Business Intelligence. 3 Credit Hours.

This course provides an introduction to Business Intelligence, including the processes, methodologies, infrastructure, and current practices used to transform business data into useful information and support business decision-making. Business Intelligence requires foundation knowledge in data storage and retrieval, thus this course will review logical data models for both database management systems and data warehouses. Students will learn to extract and manipulate data from these systems and assess security-related issues. Data mining, visualization, and statistical analysis along with reporting options such as management dashboards and balanced scorecards will be covered. Technologies utilized in the course included SAP Business Warehouse, SAP Business Objects, Crystal Reports, and RapidMiner.

Prerequisite: MIS 201 or permission of the instructor.

Cross-listed Courses: MIS 415, MKT 415, ANL 415

CTS 496. Data Technologies Capstone Project. 3 Credit Hours.

A culminating experience for students to use data analysis and visualization tools to solve problems or generate insights in the domain of their choice. Students will work in small teams to deliver a data technology solution to a customer.

Prerequisite: CTS 233, CTS 340, CTS 411, or CTS 415.

Certificate in Computer Programming

Le Moyne College's undergraduate Computer Programming certificate program is designed to prepare students for internship, part-time, and full-time employment opportunities as an entry-level software developer or software engineer.

Students graduating from the Le Moyne College undergraduate Computer Programming certificate program will be able to demonstrate the following skills, knowledge and values:

1. Program development and program design techniques,
2. Software testing strategies,
3. Approaches for expressing software design abstractions,
4. Knowledge of at least two programming languages (Python and Java), and
5. Communication, interpersonal and team skills.

Program Admission and Application Requirements

Applicants will document their interest in and motivation for pursuing this certificate program. No prior course work at an undergraduate institution is required.

Code	Title	Credit Hours
CSC 175	Introduction to Algorithms and Program Design	
CSC 185	Data Structures & Algorithms	
CSC 276	Object Oriented Software Design	
CSC 441	Secure Software Development in Mobile And Cloud Environments	

Course	Title	Credit Hours
Year I		
Fall		
CSC 175	Introduction to Algorithms and Program Design	4
Credit Hours		4
J-Mester		
CSC 185	Data Structures & Algorithms	4
Credit Hours		4
Spring		
CSC 276	Object Oriented Software Design	4
Credit Hours		4

Summer

CSC 441	Secure Software Development in Mobile And Cloud Environments	4
Credit Hours		4
Total Credit Hours		16

Computer Science Major (B.S.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
CSC 175	Introduction to Algorithms and Program Design	4
CSC 185	Data Structures & Algorithms	4
CSC 276	Object Oriented Software Design	4
CSC 281	Discrete Mathematics	3
CSC 289	Bits, Nibbles, and Bytes	3
CSC 346	Software Operating Environments	3
CSC 375	Design and Analysis of Algorithms	3
One capstone experience:		
CSC 490	Internship in Computer Science	
CSC 496	Senior Capstone Project	
CSC 497	Senior Capstone Project	
CSC 498	Cooperative Education Experience	
One CS project-based elective		
CSC 441	Secure Software Development in Mobile And Cloud Environments	
CSC 445	Networks & Cloud Secure Software Development	
One CS systems-based elective		
CSC 411	Introduction of Artificial Intelligence	
CSC 425	Introduction to Graphics	
CSC 480 & CSC 481	Database Management Systems and Database Theory	

One CS theory-based elective:

CSC 355	Programming Languages & Paradigms	
CSC 471	Models of Computation	
One additional CSC course number 300 and above		3-4
Major Support Requirements		
MTH 145	Calculus I	4
MTH 146	Calculus II	4
World Language (intermediate or advanced level recommended)		6
Natural science lab-based sequence		8
One ethics course from the following:		
PHL 347	Crisis Ethics: War, Pandemic and Social Collapse	
PHL 359	Ethics of Medical Technology	
REL 336	Comparative Religious Ethics & Social Concerns	
THE 237	Christian Social Ethics	
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

Computer Science with a Concentration in Pre-Engineering

The computer science B.S. may be taken with a pre-engineering concentration to serve as the foundation for the Dual Bachelor's/Master's Engineering Program with Syracuse University. Students enrolled in one of the computer science-based Bachelor's/Master's engineering programs must choose from one of the following concentrations:

- **Computer science with concentration in pre-engineering: computer science.**
 - To fulfill the requirements in this concentration, a student must complete the following courses.
 - All required courses for the B.S.
 - The following CS upper-level electives must be taken:

Code	Title	Credit Hours
CSC 355	Programming Languages & Paradigms	3
CSC 441	Secure Software Development in Mobile And Cloud Environments	3, 4
	or CSC 445 Networks & Cloud Secure Software Development	
CSC 471	Models of Computation	3

All major support required courses for the B.S. plus the following:

Code	Title	Credit Hours
MTH 245	Calculus III	4
MTH 311	Introduction to Probability Theory	3
PHY 103	General Physics Laboratory	1
PHY 105	General Physics Scientists/Engineers I	3
Natural Science lab-based sequence		8

- **Computer science with concentration in pre-engineering: computer engineering.**

To fulfill the requirements in this concentration, a student must complete the following courses:

- All required courses for the B.S. in CS
- Any four elective courses as described for the B.S. in CS.
- All major support required courses for the B.S. plus the following:

Code	Title	Credit Hours
MTH 245	Calculus III	4
MTH 261	Linear Algebra	3
MTH 311	Introduction to Probability Theory	3
MTH 421	Numerical Methods	3
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
PHY 103	General Physics Laboratory	1
PHY 104	General Physics Laboratory	1
PHY 105	General Physics Scientists/Engineers I	3
PHY 106	General Physics Scientists/Engineers II	3

- The following engineering courses must be taken at Syracuse University.
 - ELE 231/291 Electrical Engineering Fundamentals 1 (with lab)
 - ELE 232/292 Electrical Engineering Fundamentals 1 (with lab)
 - CSE 261/262 Digital Design (with lab)
 - CSE 381 Computer Architecture
 - CSE 397 Computer Lab 1
 - CSE 398 Computer Lab 2

Please note that a student enrolled in one of these two computer science pre-engineering concentrations satisfy the computer science major requirement to minor in another academic discipline.

See the Undergraduate Transfer Programs for additional information on this Dual Bachelor's/Master's Degree in Engineering Program with Syracuse University.

Typical Program for B.S. Computer Science

Course	Title	Credit Hours
Freshman Year		
First Semester		
CSC 175	Introduction to Algorithms and Program Design	4
MTH 145	Calculus I	4
EAC Encountering Another Culture/Language (p. 61)		3
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		17
Second Semester		
CSC 185	Data Structures & Algorithms	4
MTH 146	Calculus II	4
EAC Encountering Another Culture/Language (p. 61)		3
HST 111	World Civilization II	3

PHL 110	Introduction to Philosophy	3
Credit Hours		17

Sophomore Year

First Semester

CSC 276	Object Oriented Software Design	4
CSC 281	Discrete Mathematics	3
Natural Science (p. 61)		4
HST 110	World Civilization I	3
PHL 210	Moral Philosophy	3
Credit Hours		17

Second Semester

CSC 289	Bits, Nibbles, and Bytes	3
CSC Elective		3
Natural Science (p. 61)		4
ENG 210	Major Authors	3
Elective		3
Credit Hours		16

Junior Year

First Semester

CSC 375	Design and Analysis of Algorithms	3
CSC Elective		4
Social Science (p. 61)		3
Theology (p. 61)		3
Elective		3
Credit Hours		16

Second Semester

CSC 346	Software Operating Environments	3
CSC Elective		3
Ethics Course		3
ENG 310	Literature and Culture	3
Elective		3
Credit Hours		15

Senior Year

First Semester

CS Capstone Experience		3
VPA Visual & Performing Arts (p. 61)		1
IDS Interdisciplinary Studies (p. 61)		3
Elective		3
Elective		3
Credit Hours		13

Second Semester

CSC Elective		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
Elective		3
Elective		3
Credit Hours		15
Total Credit Hours		126

Typical Program for Computer Science with a Concentration in Pre-Engineering: Computer Science

Course	Title	Credit Hours
Freshman Year		
First Semester		
CSC 175	Introduction to Algorithms and Program Design	4
MTH 145	Calculus I	4
WRT 101	Critical Writing	3
EAC Encountering Another Culture/Language (p. 61)		3
COR 100	First Year Seminars: Transitions	3
Credit Hours		17
Second Semester		
CSC 185	Data Structures & Algorithms	4
MTH 146	Calculus II	4
EAC Encountering Another Culture/Language (p. 61)		3
HST 111	World Civilization II	3
PHL 110	Introduction to Philosophy	3
Credit Hours		17
Sophomore Year		
First Semester		
CSC 276	Object Oriented Software Design	4
CSC 281	Discrete Mathematics	3
MTH 245	Calculus III	4
HST 110	World Civilization I	3
PHL 210	Moral Philosophy	3
Credit Hours		17
Second Semester		
CSC 289	Bits, Nibbles, and Bytes	3
CSC Elective		3
ENG 210	Major Authors	3
Social Science (p. 61)		3
Elective		3
Credit Hours		15
Junior Year		
First Semester		
CSC 375	Design and Analysis of Algorithms	3
CSC 441 or CSC 445	Secure Software Development in Mobile or Cloud Environments or Networks & Cloud Secure Software Development	3-4
Theology (p. 61)		3
Natural Science w/Lab		4
Elective		3
Credit Hours		16-17
Second Semester		
CSC 346	Software Operating Environments	3
CSC 471	Models of Computation	3
Ethics Course		3
Natural Science (w/Lab)		4

ENG 310	Literature and Culture	3
Credit Hours		16
Senior Year		
First Semester		
CS Capstone Experience		3
MTH 311	Introduction to Probability Theory	3
CSC 355	Programming Languages & Paradigms	3
PHY 103 & PHY 105	General Physics Laboratory and General Physics Scientists/Engineers I	4
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		16
Second Semester		
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
Elective		3
Elective		3
Credit Hours		13
Fifth Year		
Syracuse University CS Masters program		
Credit Hours		0
Total Credit Hours		127-128

Typical Program for Computer Science with a Concentration in Pre-Engineering: Computer Engineering

Course	Title	Credit Hours
Freshman Year		
First Semester		
CSC 175	Introduction to Algorithms and Program Design	4
MTH 145	Calculus I	4
PHY 103	General Physics Laboratory	1
PHY 105	General Physics Scientists/Engineers I	3
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		18
Second Semester		
CSC 185	Data Structures & Algorithms	4
MTH 146	Calculus II	4
PHY 104	General Physics Laboratory	1
PHY 106	General Physics Scientists/Engineers II	3
HST 111	World Civilization II	3
PHL 110	Introduction to Philosophy	3
Credit Hours		18
Sophomore Year		
First Semester		
CSC 276	Object Oriented Software Design	4
CSC 281	Discrete Mathematics	3
MTH 245	Calculus III	4
HST 110	World Civilization I	3

ELE 231/291 ¹	4
Credit Hours	18
Second Semester	
CSC 289 Bits, Nibbles, and Bytes	3
ENG 210 Major Authors	3
PHL 210 Moral Philosophy	3
CSE 261/262 ¹	3
ELE 232 & ELE 292 ¹	4
Credit Hours	16
Junior Year	
First Semester	
CSC 375 Design and Analysis of Algorithms	3
CSC elective	4
MTH 261 Linear Algebra	3
CSE 381 ¹	3
CSE 397 ¹	3
VPA Visual & Performing Arts (p. 61)	1
Credit Hours	17
Second Semester	
CSC 346 Software Operating Environments	3
CSC elective	3
CSE 398 ¹	3
ENG 310 Literature and Culture	3
Theology (p. 61)	3
Religion (p. 61)	3
Credit Hours	18
Senior Year	
First Semester	
CS Capstone Experience	3
MTH 311 Introduction to Probability Theory	3
MTH 421 Numerical Methods	3
CHM 151 Chemical Principles I	3
CHM 151L Chemical Principles I Laboratory	1
EAC Encountering Another Culture/Language (p. 61)	3
Credit Hours	16
Second Semester	
CSC Elective	3
CSC elective	3
IDS Interdisciplinary Studies (p. 61)	3
Social Science (p. 61)	3
COR 400 Senior Studies: Transformations	3
EAC Encountering Another Culture/Language (p. 61)	3
Credit Hours	18
Fifth Year	
Syracuse University CE Masters program	
Credit Hours	0
Total Credit Hours	139

¹ Taken at Syracuse University

Computer Science Major (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
CSC 175	Introduction to Algorithms and Program Design	4
CSC 185	Data Structures & Algorithms	4
CSC 276	Object Oriented Software Design	4
CSC 281	Discrete Mathematics	3
CSC 289	Bits, Nibbles, and Bytes	3
CSC 346	Software Operating Environments	3
CSC 375	Design and Analysis of Algorithms	3
One capstone experience:		
CSC 490	Internship in Computer Science	
CSC 496	Senior Capstone Project	
CSC 497	Senior Capstone Project	
CSC 498	Cooperative Education Experience	
One CS project-based elective		
CSC 441	Secure Software Development in Mobile And Cloud Environments	
CSC 445	Networks & Cloud Secure Software Development	
One CS systems-based elective		
CSC 411	Introduction of Artificial Intelligence	
CSC 425	Introduction to Graphics	
CSC 431	Introduction to Robotics	
CSC 480	Database Management Systems	
& CSC 481	and Database Theory	
One CS theory-based elective:		
CSC 355	Programming Languages & Paradigms	
CSC 471	Models of Computation	
Major Support Requirements		
MTH 145	Calculus I	4

World Language (intermediate or advanced level recommended)	6
One ethics course from the following	3
PHL 347 Crisis Ethics: War, Pandemic and Social Collapse	
PHL 359 Ethics of Medical Technology	
REL 336 Comparative Religious Ethics & Social Concerns	
THE 237 Christian Social Ethics	
Total Credits	120

¹ Some Core requirements may be fulfilled by major requirements.

Course	Title	Credit Hours
Freshman Year		
First Semester		
CSC 175	Introduction to Algorithms and Program Design	4
MTH 145	Calculus I	4
EAC	Encountering Another Culture/Language (p. 61)	3
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		17
Second Semester		
CSC 185	Data Structures & Algorithms	4
Social Science (p. 61)		3
EAC	Encountering Another Culture/Language (p. 61)	3
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
Credit Hours		16
Sophomore Year		
First Semester		
CSC 276	Object Oriented Software Design	4
CSC 281	Discrete Mathematics	3
Natural Science (p. 61)		3
HST 110	World Civilization I	3
Elective		3
Credit Hours		16
Second Semester		
CSC 289	Bits, Nibbles, and Bytes	3
CSC Elective		3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Elective		3
Credit Hours		15
Junior Year		
First Semester		
CSC 375	Design and Analysis of Algorithms	3
CSC Elective		3
Theology (p. 61)		3
ENG 310	Literature and Culture	3

Elective		3
Credit Hours		15
Second Semester		
CSC 346	Software Operating Environments	3
CSC Elective		3
Ethics Course		3
IDS Interdisciplinary Studies (p. 61)		3
Elective		3
Credit Hours		15
Senior Year		
First Semester		
CS Capstone Experience		3
VPA Visual & Performing Arts (p. 61)		1
COR 400	Senior Studies: Transformations	3
Elective		3
Elective		3
Credit Hours		13
Second Semester		
Religion (p. 61)		3
Elective		3
Elective		3
Elective		3
Elective		3
Credit Hours		15
Total Credit Hours		122

Computer Science Minor

To graduate with a minor in CS, a student must complete a program approved by the program director consisting of at least **four** CS courses numbered 175 or higher, **excluding CSC 179**. No course may be taken pass/fail.

A student majoring in SASD may earn a minor in computer science by completing three CSC courses numbered 300 and above which are not used to satisfy a SASD major requirement.

B.S. in Computer Science with Concentration in Pre-engineering (Computer Science)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110 & HST 111	World Civilization I and World Civilization II	6
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC	Encountering Another Culture/Language (p. 61)	6
ENG 310	Literature and Culture	3

Mathematics (p. 61)	3
Social Science (p. 61)	3
Natural Science (p. 61)	3
IDS Interdisciplinary Studies (p. 61)	3
Religion (p. 61)	3
COR 400 Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)	1
DIV Diversity (p. 61)	0

Major Requirements

CSC 175	Introduction to Algorithms and Program Design	4
CSC 185	Data Structures & Algorithms	4
CSC 276	Object Oriented Software Design	4
CSC 281	Discrete Mathematics	3
CSC 289	Bits, Nibbles, and Bytes	3
CSC 346	Software Operating Environments	3
CSC 375	Design and Analysis of Algorithms	3

One capstone experience

CSC 490	Internship in Computer Science	
CSC 496	Senior Capstone Project	
CSC 497	Senior Capstone Project	
CSC 498	Cooperative Education Experience	

One CS project based elective

CSC 441	Secure Software Development in Mobile And Cloud Environments	
CSC 445	Networks & Cloud Secure Software Development	

One CS systems-based elective

CSC 411	Introduction of Artificial Intelligence	
CSC 425	Introduction to Graphics	
CSC 431	Introduction to Robotics	
CSC 480 & CSC 481	Database Management Systems and Database Theory	

Both CS theory-based electives

CSC 355	Programming Languages & Paradigms	
CSC 471	Models of Computation	

Major Support Requirements

MTH 145	Calculus I	4
MTH 146	Calculus II	4
World Language (intermediate or advanced level recommended)		6
Natural Science Lab-based sequence (not PHY)		8

One ethics course from the following:

PHL 347	Crisis Ethics: War, Pandemic and Social Collapse	
PHL 359	Ethics of Medical Technology	
REL 336	Comparative Religious Ethics & Social Concerns	
THE 237	Christian Social Ethics	

Other Requirements

MTH 245	Calculus III	4
MTH 311	Introduction to Probability Theory	3
PHY 103	General Physics Laboratory	1

PHY 105	General Physics Scientists/Engineers I	3
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² CIS courses taken at Syracuse University.

For more details on the dual bachelor's + master's degree in engineering program offered in affiliation with Syracuse University, please refer to the Undergraduate Transfer Programs portion of this catalog.

B.S. in Computer Science with Concentration in Pre-engineering (Computer Engineering)

Code	Title	Credit Hours
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Core Requirements (p. 61) ¹

COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110 & HST 111	World Civilization I and World Civilization II	6
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0

Major Requirements

CSC 175	Introduction to Algorithms and Program Design	4
CSC 185	Data Structures & Algorithms	4
CSC 276	Object Oriented Software Design	4
CSC 281	Discrete Mathematics	3
CSC 289	Bits, Nibbles, and Bytes	3
CSC 346	Software Operating Environments	3
CSC 375	Design and Analysis of Algorithms	3

One capstone experience

CSC 490	Internship in Computer Science	
CSC 496	Senior Capstone Project	
CSC 497	Senior Capstone Project	
CSC 498	Cooperative Education Experience	

One CS project-based elective

CSC 441	Secure Software Development in Mobile And Cloud Environments	
CSC 445	Networks & Cloud Secure Software Development	

One CS systems-based elective

CSC 411	Introduction of Artificial Intelligence	
CSC 425	Introduction to Graphics	
CSC 431	Introduction to Robotics	
CSC 480 & CSC 481	Database Management Systems and Database Theory	

One CS theory-based elective

CSC 355	Programming Languages & Paradigms	
CSC 471	Models of Computation	

One additional CSC course numbers 300 and above 3-4

Major Support Requirements

MTH 145	Calculus I	4
MTH 146	Calculus II	4
World Language (intermediate or advanced level recommended)		6

One ethics course from the following

PHL 359	Ethics of Medical Technology	
REL 336	Comparative Religious Ethics & Social Concerns	
THE 237	Christian Social Ethics	

Other Requirements

MTH 245	Calculus III	4
MTH 261	Linear Algebra	3
MTH 311	Introduction to Probability Theory	3
MTH 421	Numerical Methods	3
CHM 151	Chemical Principles I	3
PHY 103	General Physics Laboratory	1
PHY 104	General Physics Laboratory	1
PHY 105	General Physics Scientists/Engineers I	3
PHY 106	General Physics Scientists/Engineers II	3

The following engineering courses must be taken at Syracuse University

One of the following:

PHY 311	Electronics I	
ELE 231 and ELE 291	Electrical Engineering Fundamentals I and Electrical Lab I ²	
CSE 261	Digital Logic Design ²	3
CSE 262	Digital Logic Design Lab ²	1
CSE 381	Computer Architecture ²	3
CSE 397	Computer Laboratory I ²	3
CSE 398	Computer Laboratory II ²	3

Total Credit Hours 134

¹ Some Core requirements may be fulfilled by major requirements.

² CIS and CSE courses taken at Syracuse University.

For more details on the dual bachelor's + master's degree in engineering program offered in affiliation with Syracuse University, please refer to the Undergraduate Transfer Programs portion of this catalog.

COMMUNICATION AND FILM STUDIES

Chair: Phillip Novak

Program Director: Julie Grossman (of Film)

Professor: Julie Grossman, Michael Streissguth

Associate Professor: Dan Roche

Professor of Practice: Sean Kirst, Matthew Read

Visiting Assistant Professor: Lucy Kerr

Adjunct Faculty: Glenn Coin, Todd Hobin, Leslie Bailey Streissguth, Michael Waters

Journalist-in-Residence: Sean Kirst

The Department of Communication and Film Studies values the art of the narrative, the foundational element for all media professionals, from journalists to filmmakers, editors to public relations professionals, broadcasters to web designers. All communications majors will be taught how narratives work—especially within the mass media fields of journalism, advertising, public relations, and filmmaking – and how to make them work.

The department also values solid technical expertise and broad adaptability across media technologies. Students in communication and film studies therefore gain training in everything from the production of newspapers to the design of websites, from non-linear editing to digital video and audio recording. By the time they graduate, all Le Moyne communication and film studies students will have had the opportunity to acquire the technical skills and the writing, visual, and verbal talents needed for professional success in almost any field, including the dynamically evolving media world.

The department's curriculum is grounded in and enriched by a liberal-arts education that nurtures in students a wide-ranging critical literacy and a deep social responsibility, so that communication and film studies graduates enter media professions or graduate school ready to contribute creatively, ethically, and learnedly.

Communications Internship

The program is intended primarily for communications majors and minors. Interns receive practical, on-the-job training in such fields as radio, television, advertising, journalism, public relations, and filmmaking.

Students should prepare themselves for internships by taking the appropriate courses: a student who wants a newspaper internship should have taken a journalism course, just as a student interested in a production internship should have taken a video- or radio-production course. However, specific requirements for each internship will be determined on a case-by-case basis by the internship director.

Students may take up to 9 credit hours in variable credit internships (from 1 to 6 credits each). Each new internship should involve a new placement.

Requirements

According to New York State law, one credit equals 45 semester hours of combined direct instruction and supplementary assignments. With that

in mind, a 1-credit internship would require 45 total semester hours over the course of the semester or summer, a 2-credit internship would require 90 total semester hours, and so on, up to 6 credits, or 270 semester hours of combined direct instruction and supplementary assignments. Weekly hours during a spring or fall semester would be 3.5 hours per credit semester hour per week. The hours per week would increase relative to the credit hours being earned. During the summer, students would determine the hours to be completed by working with the Communication and Film Studies internship supervisor and the supervisor on site.

Grades are assigned by the Communications and Film Studies internship supervisor on the basis of the number of credits offered for the internship, and will be based on a combination of journals, individual conferences, student evaluation papers, and end-of-term evaluations from the cooperating agencies. Interns will be assigned high pass, pass, or fail grades for the course.

Student Learning Outcomes in Communications

Write and speak publicly

Students will communicate effectively to a variety of audiences using a variety of media

Multimedia

Students will use a range of communication technologies with highly developed skills.

Gather information

Students will gather relevant and meaningful information in accordance with professional standards in the chosen field of communication.

Decode narratives

Students will critically analyze texts in a variety of media.

History of media

Students will explain the history of media and its interactions with culture.

Ethical complexities

Students will make well-reasoned and defensible ethical decisions relevant to the field of communication.

- Communications Major (B.A.) (p. 189)
- Dual Major in English/Creative Writing and Communications (p. 191)
- Dual Major in English/Literature and Communications (p. 192)
- Dual Major in Environmental Science Systems and Communications (p. 193)
- Dual Major in Environmental Studies and Communications (p. 195)
- Dual Major in French and Communications (p. 345)
- Dual Major in Spanish and Communications (p. 346)
- Double Major in Political Science and Communications (p. 196)
- Double Major in Theatre Arts and Communications (B.A.) (p. 197)
- Communications Minor (p. 197)
- Visual Design Minor (p. 105)

Communications (CMM)

CMM 120. Introduction to Visual Design. 3 Credit Hours.

This course introduces the elements of art and principles of design that create the language of visual communication. Through a variety of projects, in-class exercises, and homework assignments, students will engage in a rigorous creative process: brainstorming, conceptualizing, sketching, refinish, and producing. Students will be introduced to a variety of media and techniques and will become more conscious of the conceptual, expressive, and perceptual qualities of their aesthetic decisions, so they can effectively communicate visually. Through exposure to everything from Grand Masters to Madison Avenue ads, students will learn from examples of artists and designers from the past and present who have contributed to the visual landscape, to foster an awareness of visual systems of different cultures, time periods, and contemporary artists and to develop the ability to ask critical questions. Slide presentations and sketchbook assignments will introduce a variety of interpretations on how visual thinkers have perceived and used visual concepts and elements in their own artwork.

Cross-listed Courses: CTS 120, ART 120

CMM 123. Web Design & Development. 3 Credit Hours.

This course focuses on the design and development of web pages, including client-side web-based applications. Topics covered include Web concepts, interaction and user experience design, process used to develop web pages, usability and accessibility practices, techniques for testing and evaluating a web design, simple analytics of user behaviors, and an introduction to client-side scripting. Tools used include HTML, CSS, Web editors, imaging software, and JavaScript.

Cross-listed Courses: CTS 123

CMM 201. Fundamentals of Speech. 3 Credit Hours.

Essentials of voice production, oral interpretation, speech organization and use of supporting materials; preparation and delivery of speech materials; group and panel discussion. Prerequisite or Corequisite: WRT 101.

Cross-listed Courses: ENG 201

CMM 202. Design Thinking and the Next Step. 1 Credit Hour.

This practicum will allow participants to apply design thinking practices to explore solutions to determined problems and then take the same approach to reflect on current vocational goals, explore possible applications of these goals, prepare a plan for accessing the discovered opportunities, and ultimately, pursue vocational goals by connecting with and implementing possibilities. Participants will utilize Design Thinking strategies to enable the reflection, exploration, preparation, and pursuit of determined vocational goals. Pass/Fall only. Open to all majors.

Cross-listed Courses: PSF 202

CMM 203. Communicating Connections. 1 Credit Hour.

This practicum will allow participants to learn and apply professional communication practices in order to explore and develop connections to professional industry experts. Students will prepare a plan for accessing discovered industry-related contacts, develop and practice interview techniques, create questions for informational interviews, reach out to potential contacts, and ultimately, pursue vocational goals by connecting with industry experts. Participants will practice for and execute phone, email, and written communication to establish professional, industry-related connections in order to complete informational interviews. From the resulting interviews, students will reflect, explore, prepare and pursue determined vocational goals. Throughout the six classes, industry experts will be invited as guests to offer professional acumen and insights for students pursuing opportunities to further connect to potential careers. Pass/fail only. Open to all majors.

Cross-listed Courses: PSF 203

CMM 205. Intro to Video Production. 3 Credit Hours.

This course is a general introduction to video technology and the methods of studio operations, field production and video editing. The student will gain an understanding of how video and audio systems work and will develop basic mastery of the tools of production. The course will consist of lectures, hands-on experience and production exercises. **There is a lab fee associated with this course.** Fulfills Core requirement(s): VPA.

CMM 208. Frame to Frame: Concepts in Motion. 3 Credit Hours.

FRAME TO FRAME: CONCEPTS IN MOTION is an introductory media course designed for students interested in visual media and storytelling as it applies to their own academic and professional pursuits. Whether storyboarding a film scene, realizing a marketing scheme, or designing a website, FRAME TO FRAME: CONCEPTS IN MOTION introduces the student to the history, theory, and aesthetics underlying sequential art and time-based media while challenging them to employ those concepts in a project-based environment. This course asks the students to grapple with the power and influence of images, narrative, and media making in the digital age as they conceive, create, and present their own media projects.

CMM 221. The Photo Essay. 3 Credit Hours.

This is a course about the theories and methods of creating a photo essay. Students will learn about the history of the photo essay by studying the work of some of the masters of the genre, and they will shoot and edit several photo essays of their own. **There is a lab fee associated with this course.**

CMM 224. Environmental Journalism. 3 Credit Hours.

This course looks at how print and broadcast journalists have attempted to investigate and report upon all aspects of contemporary environmental use and/or abuse: from climate change to air pollution, from genetically modified crops to urban sprawl. Besides studying the work of professional environmental journalists, students will have an opportunity to produce at least one piece of environmental journalism themselves.

Prerequisite: WRT 101.

CMM 226. Introduction to Film Studies. 3 Credit Hours.

The function of this course is to provide students with the tools to be in a position to respond fully to the movies they see. Responding fully to movies requires knowledge of how they are made, so the course will cover all the basic elements involved in the filmmaking process. We will talk some about the film industry, comparing various models of film production. We will talk at length about film technique and film structure; and students will acquire, over the course of the semester, a fairly extensive vocabulary for describing the ways filmed narratives unfold and the ways filmed images are constructed, arranged, and deployed. In the course of working their way through the reading (that is, the interpretation) of a dozen or so movies—both classical and contemporary, from both Hollywood and abroad—students will gain an understanding of such central film features as cinematography, editing, production design, sound design, and performance style. They will learn what critics and scholars mean when they talk about *mise-en-scene* and montage and the tension between the two. They will learn to identify different modes of screen reality. Most importantly, they will learn that responding fully to movies requires active critical engagement with films as purposive texts. Fulfills Core requirement(s): VPA.

Corequisite: WRT 101.

CMM 250. Mass Media and Society. 3 Credit Hours.

This course explores some of the ways in which the media form and reflect our society and culture. It examines the ways in which audiences use media and how, in turn, they are used by the media. It also considers how new technologies change both the form and the content of the media as well as how the government and other institutions affect media output.

Prerequisite: WRT 101.

CMM 274. Reporting and Writing. 3 Credit Hours.

This course is designed to hone the student journalist's abilities to observe closely, to research deeply, and to report accurately. Students practice developing fresh story ideas, use multiple modes of research (face-to-face interviews, Internet resources and databases, digital media, etc.), and write articles in narrative, explanatory, and investigative styles, for both print and online outlets. There is practice on fact-checking and an introduction to multi-media news reporting. In all assignments, the focus is on how to present complex information with precision and clarity and to do so on deadline. Also, an introduction to the history of American journalism and wide reading in contemporary news reporting allows students to complement their growing technical skills with considerations of the profession's ethical and philosophical aspects.

Prerequisite or

Corequisite: WRT 101.

CMM 303. Italian Culture and Cinema. 3 Credit Hours.

An encounter with Italian culture from World War II to the present, this course will trace the evolution of modern Italy through a representative selection of Italian literature and films by both male and female authors. The readings will be in English translation, while the films will be in Italian with English subtitles. (Texts will be available in Italian for language minors.)

Prerequisites: WRT 101, and ENG 210, ENG 218 or HON 111.

Cross-listed Courses: ITL 403

CMM 307. Communications Photography. 3 Credit Hours.

An introductory level course in photography as a communications medium. The course includes lectures, demonstrations, visual presentations, group critiques and supervised lab work. Material covered includes; the digital camera and its components, camera exposure techniques, digital editing and printing, commercial studio lighting, and electronic flash. The work of photojournalists and commercial photographers are shown and discussed in class. Assignments are geared toward the development of students' awareness of photography as a medium of mass communication. A compact digital camera or digital SLR camera is required. **There is a lab fee associated with this course.** Fulfills core Visual and Performing Arts requirement. (VPA).

CMM 308. Media Layout and Design. 3 Credit Hours.

Students will develop the skills to design and construct effective visual messages appropriate to specific media formats for specific target audiences. Students will produce camera-ready art for advertisements, newsletters, brochures, and web pages. The rhetorical elements that inform design choices will be discussed. Fulfills Core requirement(s):VPA.

CMM 309. American Culture and Art of Johnny Cash. 3 Credit Hours.

Students will be asked to engage in an interdisciplinary investigation of the varied contexts—media, religious, political, historical, economic and geographic—that helped define the creative world of Johnny Cash, a major songwriter and musician. Fulfills core Visual and Performing Arts requirement.(VPA)

Prerequisites: WRT 101, and ENG 200, ENG 210, ENG 218, or HON 111.

Cross-listed Courses: ENG 309

CMM 314. Journalism and American Literature. 3 Credit Hours.

This course will survey the rich history of American journalists who have either produced creative works or who have relied upon literary techniques in their journalistic endeavors. Beginning with Thomas Paine and Benjamin Franklin, the course will move through the revolutionary period of essayists and pamphleteers, proceed to the nineteenth century and the romantic writings of political activists like Margaret Fuller and Henry David Thoreau, and the realist and naturalist fictions of writers like Mark Twain, Stephen Crane, and Charlotte Perkins Gilman. The course will end by surveying the works of black and white writers of the early twentieth century—W.E.B. Dubois, Zora Neale Hurston, Ernest Hemmingway, and H.L. Mencken, who negotiate their critiques of modern American culture and political life both as journalists and creative writers. Throughout the course, we will be exploring the relationship between the world of the American journalist and his or her subsequent influences upon American literature.

Cross-listed Courses: ENG 322

CMM 316. Studies in Small Screen Narrative. 3 Credit Hours.

This course features analysis of television and web narrative. Shows under consideration will rotate from semester to semester, but could include epic cable-television series such as *The Sopranos*, *Mad Men*, *Fargo*, *Breaking Bad*, and/or *Game of Thrones*; web-based shows, such as *Americana* and *The Lizzie Bennett Diaries*; and online series such as *Transparent*, *House of Cards*, and *Orange is the New Black*. Reading these series from the perspective of cultural and textual studies, the course aims to give students the tools to analyze the narrative structure, thematic concerns, cultural significance, and visual techniques of these series. The course will help students better understand popular media representations of social roles and the place of seriality in contemporary culture. Prerequisite(s): WRT 101.

CMM 318. Intro to Audio Production. 3 Credit Hours.

This course introduces students to the basics of recording, mixing and editing audio for various media, such as radio, TV, film, and the internet. The class provides a "hands on" approach to learning the skills, terminology, and equipment used to record music, make radio spots, and produce audio for broadcast, the web, and the theater.

Prerequisite: WRT 101.

CMM 320. Documentary Film. 3 Credit Hours.

Emphasis on the study of important documentary filmmakers, influential documentaries, and major schools of documentary film, as well as issues such as the role of the documentary filmmaker, the notion of objectivity in documentary, ethics in filmmaking, and the influence of the camera.

Prerequisites: WRT 101, ENG 210, ENG 218 or HON 111.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

CMM 330. Studio and Remote Production. 3 Credit Hours.

This course will explore the methods involved in live multi-camera broadcasts-both in the Studio and from remote locations. The students will plan and produce news and talk programs in the studio, and cover live campus events-athletic, cultural, religious, etc.-which may be streamed over the Internet. The skills that will be developed in this course include producing, directing, lighting, camera work, switching, audio control, and live on-camera commentary and reporting. Fulfills core Visual and Performing Arts requirement. (VPA) ***There is a lab fee associated with this course.***

Prerequisite: CMM 205.

CMM 331. News and Documentary Production. 3 Credit Hours.

This is an advanced production course and is intended to develop the student's ability to explore and report on the world around him or her using mobile production technology and investigate journalistic techniques. Students will create traditional news packages, longer feature stories, and a documentary. While the main focus of the course will be on effective storytelling, students technical skills-particularly editing-will be enhanced. **There is a lab fee associated with this course.** Fulfills Core requirement(s): VPA.

Prerequisite: CMM 205.

CMM 332. Dramatic Video Production. 3 Credit Hours.

This is an advanced production course that is intended to develop the student's ability to work with actors and scripted material. Students will learn how to break down dramatic and comic scenes in preparation for shooting. They may have the opportunity to work with actors enrolled in THR 306: Topics: Acting for the Camera, when it is offered at the same time as CMM 332. Fulfills core Visual and Performing Arts requirement. (VPA) ***There is a lab fee associated with this course.***

Prerequisite: CMM 205.

CMM 337. Cut To: Advanced Non-Linear Editing. 3 Credit Hours.

Cut To: Advanced Non-Linear editing introduces students to the more sophisticated and complicated editorial challenges typically found throughout the film, television, and advertising industry including advanced media management, large project organization, dialogue and picture editing, montage fundamentals, sound design and music editing. Whether working on documentaries, features, commercials, or new content, the course emphasizes post-production workflow fundamentals, in-depth exploration of non-linear editing, and the theory and practice of visual storytelling. Prerequisite(s): CMM 205.

CMM 338. Writing in the Real World. 3 Credit Hours.

This course calls on the practices of professional and business communication to offer students practice with writing in "real world" contexts. In this class, students will develop strategies for responding to professional and community-based writing scenarios, reaching internal and external audiences, designing both print and digital/online texts, and composing application materials. Students will engage writing and revision processes, provide feedback to peers, compose collaboratively as part of a team, and learn the standards and conventions of non-academic communication. The genres students encounter may include memo, letter, e-mail, resume, cover letter, flier, pamphlet, and website. The course will also address digital-visual communication tools including Twitter, PowerPoint, and other emerging platforms.

Prerequisites: WRT 101, and ENG 200, ENG 210, ENG 218 or HON 111.

Cross-listed Courses: ENG 338

CMM 339. Down These Mean Streets: Men, Women, and Film Noir. 3 Credit Hours.

This course examines the group of films that have come to be called "film noir," the dark cinema chronicling postwar American anxieties concerning place, politics, and gender that emerged most prominently in the 1940s and 50s. In these films, the "mean streets" of the city are an extension of the distressed men and women who inhabit them. The women of film noir struggle with shifting gender expectations, and the men returning from the war confront overpopulated urban areas (e.g. *The Blue Dahlia*, 1946). The city and noir's characters morph through the decades, but men and women continue to be traumatized by changing social roles and political challenges (e.g., the "red scare" [the threat of Communism in the 1950s]; the rise of modern capitalism; and, later, the Civil Rights movement, feminisms, and the Vietnam War in the 1960s and 70s (*Cape Fear*, *Chinatown*, *Taxi Driver*)). Prerequisite(s): WRT 101.

CMM 350. Communication Ethics. 3 Credit Hours.

Prepares students to face the ethical dilemmas they will inevitably confront in their professional careers. This is a case study-based course which teaches the ability to recognize and analyze ethical problems, move beyond "gut reactions" by gathering relevant facts and considering the loyalties involved and reason one's way to a defensible course of action.

Prerequisite: WRT 101.

CMM 353. Government and the Mass Media. 3 Credit Hours.

The interaction between the United States government and the "Fourth Estate" will be studied through an examination of theoretical works, descriptive narratives, empirical studies and current events. Issues studied will include how the government attempts to control and regulate the media.

Cross-listed Courses: PSC 353

CMM 358. Representations of the Media in Film. 3 Credit Hours.

This course is designed to explore ways in which films present myriad images of the mass media when they take as their subject matter the news, documentaries, radio, television, and the film industry itself. The course will develop students' understanding of the nature and function of mass media in American culture and the relationship between power structures and representations of gender in media industries.

Prerequisites: WRT 101, ENG 210, ENG 218 or HON-111.

Cross-listed Courses: GWS 358

CMM 370. American Film Abroad: Il Cinema Ritrovato (Bologna Film Festival). 3 Credit Hours.

This course focuses on a 9-10 day trip to Bologna, Italy in June/July of each year to attend the Cinema Ritrovato, an international film festival focused on American silent and sound film and music. The Festival specializes in screening classic films that have restored in Bologna at the Cineteca di Bologna, a major site for the film restoration in the world. Students will attend many screenings each day and evening of the Festival, as well as participate in group meetings with the instructor to analyze film and discuss and write about the events, such as the silent film/live music events taking place throughout the week at night in the central square of Piazza Maggiore. The students will have the unique opportunity to watch celluloid films as part of events introduced by film scholars, filmmakers, and/or restoration technicians. In the spring semester at Le Moyne, students will attend meetings with the instructor every two weeks and attend and write about two required film events. Enrollment by permission of the instructor. Course may be repeated once. Prerequisite: Sophomore standing.

CMM 371. Practicum in Radio. 1 Credit Hour.

This course is designed to offer students the opportunity for hands-on radio experiences by becoming a staff member of Le Moyne's student radio station, WLMU, for one semester. Fulfills Core requirement(s): VPA. Pass/Fail only.

CMM 372. Practicum in Video. 1 Credit Hour.

This course is available to students who have taken or are currently enrolled in a video production class. It is designed to offer students practical experience by working on Le Moyne College Television (LCTV) productions. Pass/Fail only. Fulfills Core requirement(s): VPA.

CMM 373. Practicum in Journalism. 1 Credit Hour.

This course will provide hands-on newspaper experience in the area of the student's choice: editing, production, photography or writing/reporting. Students will make a semester-long commitment to work for The Dolphin, the weekly campus newspaper, under the supervision of the faculty advisor. The course will be graded pass/fail only and may be taken up to three times for credit.

CMM 374. Beyond Breaking News: Telling the Big Stories. 3 Credit Hours.

In this class, students will learn how to tell journalistic stories on subjects of deep and lasting significance, such as racism, climate change, health, and economic inequality. The goal will always be to go beyond what is newsworthy in the moment, and to explore and illuminate issues of long-lasting social significance. Students will have opportunities to tell stories through a variety of media-written, audio, and/or visual-though they can choose to work in a single medium. It is preferred but not required that students have already taken CMM 274. This class, however, will provide a review (or introduction, or those new to journalism) of basic journalistic methods, such as interviewing and note-taking. Students will generally be assigned to complete several short pieces of reporting and at least one longer piece, each built upon relevant interviews and other research. Given the richness and complexity of the subjects about which students will tell stories, they should expect to bring to their work in this class interdisciplinary knowledge from their other classes, especially those in the College Core. Texts will include a wide sampling of professional journalism chosen to serve as models for the students' own work. Prerequisites: WRT 101, ENG 210 or ENG 218.

CMM 375. Sports Journalism. 3 Credit Hours.

This course teaches students how to report on all aspects of sports- from game stories to features to opinion columns. To familiarize students with the scope and history of sports journalism and to provide models for reporting, texts will be drawn from a wide range of sports journalism in various media: newspapers, magazines, websites, blogs, and podcasts. The class will consider the ways in which sports journalism has evolved in response to digital technologies. It will also cover the ethical dilemmas common to sports journalism. Students will produce numerous pieces of original sports journalism of various lengths and in different media, as well as analyses of published sports reporting. Prerequisite(s): WRT 101.

CMM 376. Introduction to Advertising. 3 Credit Hours.

The course explores the elements of effective advertising messages, as well as advertising's historic roots. It considers the legal and ethical environment within which advertisers operate and advertising's place in the marketing communication mix. It examines the importance of research informing effective messages for specific target audiences and the ways advertisers shape promotional appeals and strategies. It introduces students to the changing face of advertising and the impact of the internet and social media on advertising today. Prerequisite: WRT 101.

CMM 377. Introduction to Public Relations. 3 Credit Hours.

The theory and practice of public relations in the United States today. The class will define public relations and examine case studies. The class will also look at public relations and research, planning and creativity and the application of public relations to business, financial, government and non-profit sectors. Prerequisite: WRT 101.

CMM 378. Creative Advertising. 3 Credit Hours.

A requirement for all advertising concentrators, this production course engages students in the process of developing and producing advertising for print, video, audio, web and other applications. Fulfills core Visual and Performing Arts requirement. (VPA) Prerequisite: WRT 101.

CMM 379. Music Journalism. 3 Credit Hours.

This writing course teaches students how to report on all aspects of music—from concert reviews to performer profiles, from musician retrospectives to articles about non-performance aspects of music (e.g., the recording industry, instrument makers). To familiarize students with the history of music journalism and provide models for writing, readings will be drawn from prominent music magazines such as Rolling Stone, Creem, Crawdaddy!, Blender, and others—as well as from places where music journalism frequently appears today, especially blogs and podcasts. The class will consider the ways in which music journalism has changed in response to the technologies through which music is made available to listeners. Students will write several pieces of original music journalism of various lengths. Fulfills core Visual and Performing Arts requirement. (VPA) Prerequisites: WRT 101.

Cross-listed Courses: MUS 379

CMM 380. Critical Approaches to Film. 3 Credit Hours.

An introduction to film genre, genre theory and film criticism, the course will examine the generic conventions that govern production and reception of film texts. Film genres may include the screwball comedy, the melodrama, the western, the musical, the gangster picture, film noir and others.

Prerequisites: WRT 101, and ENG 200, ENG 210, ENG 218 or HON 111.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: THR 371, GWS 351, ENG 371

CMM 381. History of Film: Beginnings to 1940. 3 Credit Hours.

This course will survey major developments in cinema from the advent of the medium near the end of the nineteenth century, through the emergence of a syntax for narrative film during the silent era, to the arrival and entrenchment of the sound film in the late 1920s and early 1930s. The nature of the course is such that our concerns will be manifold, but they will surely include attention to the following: the work of several pioneers of the medium-the Lumiere brothers, Thomas Edison (and his major collaborator William Kennedy Laurie Dickinson), George Melies, and Edwin S. Porter; D. W. Griffith's central role in the creation of a "language" for moving images and his equally significant role in turning film into a popular medium; some of the formal experiments that took place in Germany in the 20s-German expressionism, in particular, as well as the Kammerspielfilm; Soviet montage; French impressionism and surrealism; the great Hollywood comedies of the 20s; the development of sound technology and its impact on film form; the importance of genre in the development of the film industry; and French poetic realism. Without scanting attention to such historical matters, we will also, however, want to engage particular film texts: thus much of our time in class will be spent discussing individual films.

Prerequisites: WRT 101, ENG 200, ENG 210, ENG 218 or HON 111.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: THR 372, ENG 372

CMM 382. History of Film: 1940 to Present. 3 Credit Hours.

A study of the development of film since 1940. The course will examine social, technical, and artistic aspects of important films by influential directors, addressing in particular the well-made Hollywood film, Italian neo-realism, French new wave, and the rise of auteurism.

Prerequisites: WRT 101 and ENG 200, ENG 210, ENG 218 or HON 111.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: ENG 373, THR 373

CMM 383. The Films of Alfred Hitchcock. 3 Credit Hours.

In this course, we will examine whether Hitchcock's films can be said to constitute a coherent 'body' of work - identifying in the process potential stylistic idiosyncracies and thematic preoccupations. And we will try to come to some understanding of what is gained and what lost by thinking in these terms. We will use Hitchcock's desire to develop a rigorously cinematic mode of presentation as a means of opening a discussion about the ways films "speak". And we will wonder, along with a handful of contemporary critics, what kind of viewer the films seek to construct. We will take the films' explicit interest in watching as a point of departure for an analysis of voyeurism and its centrality in contemporary western culture. Finally, and not incidentally, we will use the occasion the course provides to spend time watching a number of engaging films.

Prerequisites: WRT 101, ENG 210, ENG 218 or HON 111.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: GWS 359, ENG 378

CMM 384. The Film Sound Track. 3 Credit Hours.

Throughout recorded history, music has been an important part of human dramatic expression in ways that transcend mere spoken words and visual imagery. For more than a century of the motion picture art, music has played an integral, yet often unnoticed, role in defining the filmgoing experience. The main objective of this course is for students to develop skills in analyzing the sound track of a film, music's role in the sound track, and the relation of non-diegetic sound to image (especially relating to music) on small-scale and large-scale (narrative) levels. The course develops critical listening and viewing skills, but it also offers a particular extension of film history scholarship, one that focuses on the three nodal points in the history of film sound: the introduction of sound, the introduction of stereo, and the introduction of digital sound. We will explore the ways in which each of these technological advances affects the structural relationships that occur among three relatively autonomous components of the soundtrack—dialogue, music and sound-effects—with particular focus on non-diegetic music.

Prerequisite: WRT 101.

Cross-listed Courses: MUS 384

CMM 387. Scriptwriting. 3 Credit Hours.

This course provides study and practice in the special requirements of writing fictional works for television and film. This course will focus on: basic dramatic structures and story telling, the premise, the pitch, character development, writing the treatment, story outlines, writing the master scene and completing the script. At semester end, students are expected to produce full-length tele-plays, radio dramas or film scripts.

Fulfills Core requirement(s): VPA.

Prerequisite: WRT 101.

Cross-listed Courses: CRW 387, ENG 387

CMM 390. Independent Study. 3 Credit Hours.

A student who wishes to pursue an independent project for academic credit must submit, prior to registration, a proposed plan that includes a description of the project and its goals, the methods to be followed, a schedule of work and supervision, the end product, an evaluation procedure and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the academic dean. It will be kept on file in the academic dean's office.

CMM 397. Writing Nonfiction. 3 Credit Hours.

In this class, we'll learn the art of brevity. How to craft great sentences. How to write a powerful tweet and a stunning short essay. How to use sentence fragments effectively. Our writing will be nonfiction true stuff, some of it narrative, some expository, some experimental. Topics will range widely. Our goal will be to get good at writing that is zippy yet fulfilling. This class is appropriate for all students who want to use the English language more dynamically.

Prerequisite: WRT 101.

Cross-listed Courses: ENG 397

CMM 401. Multimedia Storytelling. 3 Credit Hours.

This course explores—through critical analysis and production—the ways in which text, image, and sound can be combined to tell stories in ways not possible through a single medium. The focus of the course will vary from one semester to the next; some possibilities include journalistic investigation, advertising campaigns, documentary, and fictional narrative. An emphasis will be on collaborative production work, to simulate the production processes common in the professional media industry. This course is designed for junior and senior Communications majors or minors who have completed course work in one or more areas of media production, such as video, photography, and/or digital illustration. Others who wish to register for the course may do so with permission of the instructor.

Prerequisite: CMM 205, CMM 307, CMM 318 or ART 223.

CMM 435. Advanced Production Seminar. 3 Credit Hours.

This is a specialized advanced production seminar for students who are ready to produce self-directed work. The course is intended to provide the most experienced and motivated students with the opportunity to produce a professional quality video on their own. Students must submit a written proposal before they may enroll in the course. Students may repeat this course for credit. **There is a lab fee associated with this course.**

Prerequisites: CMM 205 and CMM 330 or CMM 331 or CMM 332, Senior standing and Permission of the instructor.

CMM 474. Reporting Syracuse. 3 Credit Hours.

In this class, students venture beyond the Le Moyne campus and write both hard news and feature pieces about the Syracuse community, the mix of the two determined partly by assignment and partly by the students' own interests and projects. The goal is for each student to produce a portfolio that has range and cohesiveness, and for the class as a whole to produce multi-faceted document that sheds new light on the everyday lives of central New Yorkers and on local angles to topics such as immigration, ethnicity, work, energy use, income, culture, and education.

Prerequisite: CMM 274 and CMM 330, CMM 331 or CMM 332 and ENG 210, ENG 218 or HON 111.

CMM 476. Advanced Advertising. 3 Credit Hours.

Students will study ads in various media, applying current advertising theories. They will work in creative teams, conducting appropriate research prior to creating and presenting an advertising campaign. Students will learn to constructively criticize both current campaigns and other students' work.

Prerequisites: WRT 101, CMM 376.

CMM 477. Advanced Public Relations. 3 Credit Hours.

Students will implement principles and practices of public relations introduced in CMM 377. Specifically, student will work with a client - a non-profit organization in the Syracuse, New York area - to develop a public relations plan that supports the client's general mission. The plan will represent the core of the class work, around which discussion of PR issues will take place.

Prerequisites: WRT 101, CMM 377.

CMM 490. Communications Internship. 1-6 Credit Hours.

Participation in a field learning experience related to the area of communications. the student intern reports as required to the faculty member assigned to supervise this field experience and will be expected to evaluate the experience and relate it to his or her academic program. Enrollment by permission of the internship director. Credits earned range from one (1) to six (6) credit/s per internship with a total number of credit hours a student can earn being capped at nine (9).

CMM 491. Communications Internship. 1-6 Credit Hours.

Participation in a field learning experience related to the area of communications. the student intern reports as required to the faculty member assigned to supervise this field experience and will be expected to evaluate the experience and relate it to his or her academic program. Enrollment by permission of the internship director. Credits earned range from one (1) to six (6) credit/s per internship with a total number of credit hours a student can earn being capped at nine (9).

CMM 492. Communications Internship. 1-6 Credit Hours.

Participation in a field learning experience related to the area of communications. the student intern reports as required to the faculty member assigned to supervise this field experience and will be expected to evaluate the experience and relate it to his or her academic program. Enrollment by permission of the internship director. Credits earned range from one (1) to six (6) credit/s per internship with a total number of credit hours a student can earn being capped at nine (9).

Communication Major (B.A.)

The communication major prepares students for careers in the mass communication industries or graduate school and supports Le Moyne College's mission of educating the whole person by encouraging an appreciation for the social, cultural, and ethical issues related to mass communication.

All communication majors take a nucleus of courses designed to provide a broad understanding of contemporary mass media, and to give them fundamental skills in creating and interpreting written, visual, audio, and multimedia texts. They also take a variety of electives within the department and use these to broaden or sharpen their focus of study within the field of communication.

Each communication and film studies student also chooses a minor in order to develop another mastery of specific and substantive subject matter. The student will use free electives to fulfill that minor.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3

ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
CMM 201	Fundamentals of Speech	3
CMM 205	Intro to Video Production	3
CMM 226	Introduction to Film Studies	3
CMM 250	Mass Media and Society	3
CMM 274	Reporting and Writing	3
CMM 350	Communication Ethics	3
CMM 376	Introduction to Advertising	3
	or CMM 377 Introduction to Public Relations	
CMM Electives		18
ENG 218	Critical Perspectives on Literature	3
Select one of the following English literature surveys:		3
ENG 305	Eng Lit Survey I: thru Milton	
ENG 306	Eng Lit Survey II: Rest-Present	
ENG 311	English Literature: An Overview	
ENG 350	Amer Lit Survey I: to Civil War	
ENG 351	Am Lit Survey II: CivWar-Present	
Major Support Requirements		
World Language ²		6
Electives		
Free Electives		24
Total Credits		120

¹ Some Core requirements may be fulfilled by major requirements.

² The six credit hours must be in the same language. These credits fulfill the college core's EAC requirement.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
EAC Encountering Another Culture/Language (p. 61)		3
CMM 201	Fundamentals of Speech	3
Credit Hours		15
Second Semester		
CMM 250	Mass Media and Society	3
ENG 218	Critical Perspectives on Literature	3

HST 111	World Civilization II	3
PHL 110	Introduction to Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Sophomore Year		
First Semester		
Natural Science (p. 61)		3
ENG 210	Major Authors	3
Theology (p. 61)		3
CMM 274	Reporting and Writing	3
Mathematics (p. 61)		3
Credit Hours		15
Second Semester		
Social Science (p. 61)		3
PHL 210	Moral Philosophy	3
CMM 205	Intro to Video Production	3
CMM 226	Introduction to Film Studies	3
ENG Literature Survey		3
Credit Hours		15
Junior Year		
First Semester		
CMM 376	Introduction to Advertising	3
	or or Introduction to Public Relations	
CMM 377		
CMM 350	Communication Ethics	3
ENG 310	Literature and Culture	3
CMM Elective		3
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		15
Second Semester		
CMM Elective		3
CMM Elective		3
CMM Elective		3
Free Elective		3
Free Elective		3
Credit Hours		15
Senior Year		
First Semester		
Religion (p. 61)		3
CMM Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Credit Hours		15
Second Semester		
COR 400	Senior Studies: Transformations	3
CMM Elective		3
Free Elective		3
Free Elective		3

Free Elective	3
Credit Hours	15
Total Credit Hours	120

This sequence is presented as a model. A student's actual course of progress might vary considerably. It might be the case, for instance, that a given student would take more free electives early on, particularly if that student knows at the outset which discipline he or she will have as a minor course of study.

Dual Major in English/Creative Writing and Communications

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	6
& HST 111	and World Civilization II	
ENG 210	Major Authors ²	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61) ³		1
DIV Diversity (p. 61) ⁴		0
English CRW Major Requirements		
ENG 218	Critical Perspectives on Literature	3
ENG 318	Shakespeare	3
ENG 305	Eng Lit Survey I:thru Milton	3
or ENG 306	Eng Lit Survey II:Rest-Present	
ENG 350	Amer Lit Survey I:to Civil War	3
or ENG 351	Am Lit SurveyII:CivWar-Present	
English Major Electives		
CRW workshop		3
CRW workshop		3
CRW workshop		3
CRW workshop		3
Period (Post 1789)		3
ENG/CRW		3
Communications Major Requirements		
CMM 201	Fundamentals of Speech	3
CMM 205	Intro to Video Production	3
CMM 226	Introduction to Film Studies	3
CMM 250	Mass Media and Society	3

CMM 274	Reporting and Writing	3
CMM 350	Communication Ethics	3
CMM 376	Introduction to Advertising	3
or CMM 377	Introduction to Public Relations	
CMM Elective		3
CMM Elective		3
CMM Elective		3
Free Electives		

The remaining 3 courses are electives of the student's choice. A student may concentrate electives in one program in order to fulfill a minor, or a variety of courses may be taken from departments throughout the college.

Free Elective	3
Free Elective	3
Free Elective	3
Total Credits	123

¹ Some Core requirements may be fulfilled by major requirements.

² ENG students must NOT take ENG 210: Major Authors Shakespeare. Their Shakespeare requirement is fulfilled by ENG 318. They must choose a different Major Author for ENG 210.

³ VPA is a 1 credit requirement in the Core that can be fulfilled by completing a 1-credit Music course or earning a VPA credit by other approved means such as participation in a performance. Students completing this dual major will fulfill the VPA requirement with a CRW course.

⁴ Students satisfy this requirement by taking any DIV-designated course. This course may otherwise fulfill a requirement in any part of one's undergraduate program: the Core, the English major, a second major or a minor, or a free elective.

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
EAC Encountering Another Culture/Language (p. 61)		3
CMM 201	Fundamentals of Speech	3
Credit Hours		15
Second Semester		
ENG 210	Major Authors	3
ENG 218	Critical Perspectives on Literature	3
HST 111	World Civilization II	3
EAC Encountering Another Culture/Language (p. 61)		3
CMM 250	Mass Media and Society	3
Credit Hours		15
Sophomore Year		
First Semester		
PHL 110	Introduction to Philosophy	3
Math/Natural Science (p. 61)		3
ENG 305	Eng Lit Survey I:thru Milton	3
CRW Workshop		3

CMM 274	Reporting and Writing	3
Credit Hours		15
Second Semester		
Theology (p. 61)		3
Math/Natural Science (p. 61)		3
Social Science (p. 61)		3
ENG 351	Am Lit SurveyII:CivWar-Present	3
CMM 205	Intro to Video Production	3
Credit Hours		15
Junior Year		
First Semester		
ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
PHL 210	Moral Philosophy	3
CRW Workshop		3
CMM 376	Introduction to Advertising	3
or	or Introduction to Public Relations	
CMM 377		
Credit Hours		15
Second Semester		
ENG 318	Shakespeare	3
ENG Period (Post 1789)		3
CRW Workshop		3
CMM 226	Introduction to Film Studies	3
CMM Elective		3
Credit Hours		15
Senior Year		
First Semester		
Religion (p. 61)		3
CRW Workshop		3
CMM 350	Communication Ethics	3
CMM Elective		3
Elective		3
Credit Hours		15
Second Semester		
COR 400	Senior Studies: Transformations	3
ENG/CRW Elective		3
CMM Elective		3
Elective		3
Elective		3
Credit Hours		15
Total Credit Hours		120

Dual Major in English/Literature and Communications

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3

HST 110	World Civilization I	6
& HST 111	and World Civilization II	
ENG 210	Major Authors ²	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61) ³		1
DIV Diversity (p. 61) ⁴		0

English Literature Major Requirements

ENG 218	Critical Perspectives on Literature	3
ENG 318	Shakespeare	3
ENG 305	Eng Lit Survey I:thru Milton	3
or ENG 306	Eng Lit Survey II:Rest-Present	
ENG 350	Amer Lit Survey I:to Civil War	3
or ENG 351	Am Lit SurveyII:CivWar-Present	

English Major Electives

English Majors are required to take two Period courses (one of which must focus on a period before 1789), two Topic courses, and two Genre courses.

Genre	3
Genre	3
Topic	3
Topic	3
Period (Pre-1789)	3
Period	3

Communications Major Requirements

CMM 201	Fundamentals of Speech	3
CMM 205	Intro to Video Production	3
CMM 226	Introduction to Film Studies	3
CMM 250	Mass Media and Society	3
CMM 274	Reporting and Writing	3
CMM 350	Communication Ethics	3
CMM 376	Introduction to Advertising	3
or CMM 377	Introduction to Public Relations	

CMM Elective	3
CMM Elective	3
CMM Elective	3

Free Electives

The remaining 3 courses are electives of the student's choice. A student may concentrate electives in one program in order to fulfill a minor, or a variety of courses may be taken from departments throughout the college. Students who have not fulfilled the VPA requirement through their major coursework or by other means will need to complete a VPA-designated course as a free elective.

Free Elective	3
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Free Elective	3
Free Elective	3
Total Credits	120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² ENG students must NOT take ENG 210: Major Authors Shakespeare. Their Shakespeare requirement is fulfilled by ENG 318. They must choose a different Major Author for ENG 210.
- ³ VPA is a 1 credit requirement in the Core that can be fulfilled by completing a 1-credit Music course or earning a VPA credit by other approved means such as participation in a performance. Students completing this dual major will fulfill the VPA requirement with a CRW course.
- ⁴ Students satisfy this requirement by taking any DIV-designated course. This course may otherwise fulfill a requirement in any part of one's undergraduate program: the Core, the English major, a second major or a minor, or a free elective.

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
EAC Encountering Another Culture/Language (p. 61)		3
CMM 201	Fundamentals of Speech	3
Credit Hours		15
Second Semester		
ENG 210	Major Authors	3
ENG 218	Critical Perspectives on Literature	3
HST 111	World Civilization II	3
EAC Encountering Another Culture/Language (p. 61)		3
CMM 250	Mass Media and Society	3
Credit Hours		15
Sophomore Year		
First Semester		
PHL 110	Introduction to Philosophy	3
Math/Natural Science (p. 61)		3
Theology (p. 61)		3
ENG 305	Eng Lit Survey I:thru Milton	3
CMM 274	Reporting and Writing	3
Credit Hours		15
Second Semester		
PHL 210	Moral Philosophy	3
Math/Natural Science (p. 61)		3
Social Science (p. 61)		3
ENG 351	Am Lit SurveyII:CivWar-Present	3
CMM 205	Intro to Video Production	3
Credit Hours		15
Junior Year		
First Semester		
ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3

ENG P/T/G Elective ¹		3
CMM 376	Introduction to Advertising	3
or	or Introduction to Public Relations	
CMM 377		
CMM Elective		3
Credit Hours		15
Second Semester		
ENG 318	Shakespeare	3
ENG P/T/G Elective ¹		3
ENG P/T/G Elective ¹		3
CMM 226	Introduction to Film Studies	3
Elective		3
Credit Hours		15
Senior Year		
First Semester		
Religion (p. 61)		3
ENG P/T/G Elective ¹		3
ENG P/T/G Elective ¹		3
CMM 350	Communication Ethics	3
CMM Elective		3
Credit Hours		15
Second Semester		
COR 400	Senior Studies: Transformations	3
ENG P/T/G Elective ¹		3
CMM Elective		3
Elective		3
Elective		3
Credit Hours		15
Total Credit Hours		120

¹ Period/Topic/Genre

Dual Major in Environmental Science Systems and Communications and Film Studies

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3

IDS Interdisciplinary Studies (p. 61)	3
Religion (p. 61)	3
COR 400 Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)	1
DIV Diversity (p. 61)	0
Communications Major	
CMM 201 Fundamentals of Speech	3
CMM 205 Intro to Video Production	3
CMM 226 Introduction to Film Studies	3
CMM 250 Mass Media and Society	3
CMM 224 Environmental Journalism	3
CMM 350 Communication Ethics	3
ENG 388 Writing Green: Poetry, Fiction, and Our Place in the World	3
ENG 218 Critical Perspectives on Literature	3
ENG Literature Survey	3
CMM Electives	9
Environmental Science Systems Major	
BIO 191 General Biology I	4
BIO 192 General Biology II	4
ESS 121 Global Resources	3
ESS 205 Physical Geology	4
BIO 230 General Ecology	4
ESS 335 Biodiversity	4
ESS 320 Earth's Surface	4
or ESS 458 Global Climate Systems	
ESS/BSC/BIO Elective	3-4
Upper Level (200+) BIO/ESS Elective	4
Major Support	
CHM 151 Chemical Principles I	3
CHM 151L Chemical Principles I Laboratory	1
CHM 152 Chemical Principles II	3
CHM 152L Chemical Principles II Lab	1
PHY 101 Non-Calculus General Physics I	3
or PHY 105 General Physics Scientists/Engineers I	
PHY 102 Non-Calculus General Physics II	3
or PHY 106 General Physics Scientists/Engineers II	
MTH 110 Introduction to Statistics I (no Computer Lab)	3-4
or MTH 111 Introduction to Statistics I (with Computer Lab)	
or MTH 145 Calculus I	
Total Credit Hours	122

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
EAC Encountering Another Culture/Language (p. 61)		3
ESS 121	Global Resources	3
Credit Hours		15

Second Semester		
CMM 201	Fundamentals of Speech	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 111	World Civilization II	3
ESS 205	Physical Geology	4
MTH 110	Introduction to Statistics I (no Computer Lab)	3-4
or MTH 111	or Introduction to Statistics I (with Computer Lab)	
or MTH 122	or Brief Calculus	
or MTH 145	or Calculus I	
Credit Hours		16-17

Sophomore Year**First Semester**

PHL 110	Introduction to Philosophy	3
BIO 191	General Biology I	4
CHM 151	Chemical Principles I	3
or PHY 101	or Non-Calculus General Physics I	
CMM 205	Intro to Video Production	3
ENG 218	Critical Perspectives on Literature	3
Credit Hours		16

Second Semester

ENG 210	Major Authors	3
BIO 192	General Biology II	4
CHM 152	Chemical Principles II	3
or PHY 102	or Non-Calculus General Physics II	
CMM 226	Introduction to Film Studies	3
ENG 210	Major Authors	3
Credit Hours		16

Junior Year**First Semester**

ENG Lit Survey		3
Theology (p. 61)		3
CMM 250	Mass Media and Society	3
ESS/BSC/BIO Elective		3-4
BIO/ESS 200+ level Elective		3-4
Credit Hours		15-17

Second Semester

IDS Interdisciplinary Studies (p. 61)		0-3
VPA Visual & Performing Arts (p. 61)		1-3
CMM 224	Environmental Journalism	3
CMM 350	Communication Ethics	3
ENG 310	Literature and Culture	3
ESS 320	Earth's Surface	4
Credit Hours		14-19

Senior Year**First Semester**

Religion (p. 61)		3
ENG 388	Writing Green: Poetry, Fiction, and Our Place in the World	3
CMM Elective		3
ESS 335	Biodiversity	4

Social Science (p. 61)	3
Credit Hours	16
Second Semester	
COR 400 Senior Studies: Transformations	3
CMM Elective	3
CMM Elective	3
ESS 320 Earth's Surface or ESS 458 or Global Climate Systems	4
Credit Hours	13
Total Credit Hours	121-129

Dual Major in Environmental Studies and Communications and Film Studies

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Communications Major		
CMM 201	Fundamentals of Speech	3
CMM 205	Intro to Video Production	3
CMM 226	Introduction to Film Studies	3
CMM 250	Mass Media and Society	3
CMM 224	Environmental Journalism	3
CMM 350	Communication Ethics	3
ENG 388	Writing Green: Poetry, Fiction, and Our Place in the World	3
ENG 218	Critical Perspectives on Literature	3
ENG Literature Survey		3
CMM Electives		9
Environmental Studies Major		
ANT 231	Environment, Culture and Power	3
BIO 191	General Biology I	4
BIO 192	General Biology II	4

ESS 470	Seminar: Environmental Topics	3
ESS 121	Global Resources	3
PSC 101	American National Politics	3
BIO 225	The Poisoning of a Planet or BIO 329 Field Botany	3
ECO 113	Principles of Microeconomics or ECO 114 Principles of Macroeconomics	3
PSC 221	State Government and Politics or PSC 332 Public Policy or ECO 205 Economics of Public Policy Analysis	3
ECO 305	Environmental Economics or PSC 333 Environmental Politics or PSC 340 Science, Technology, & the Good Society	3
MTH 110	Introduction to Statistics I (no Computer Lab) or MTH 111 Introduction to Statistics I (with Computer Lab)	3-4
Free Electives		9
Total Credit Hours		120

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
EAC Encountering Another Culture/Language (p. 61)		3
ESS 121	Global Resources	3
Credit Hours		15
Second Semester		
CMM 201	Fundamentals of Speech	3
CMM 205	Intro to Video Production	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 111	World Civilization II	3
PSC 101	American National Politics	3
Credit Hours		15
Sophomore Year		
First Semester		
PHL 110	Introduction to Philosophy	3
BIO 191	General Biology I	4
CMM 226	Introduction to Film Studies	3
ENG 218	Critical Perspectives on Literature	3
ECO 113	Principles of Microeconomics or ECO 114 or Principles of Macroeconomics	3
Credit Hours		16
Second Semester		
ANT 231	Environment, Culture and Power	3
PHL 210	Moral Philosophy	3
BIO 192	General Biology II	4
CMM 250	Mass Media and Society	3

MTH 110 or MTH 111 or STA 201	Introduction to Statistics I (no Computer Lab) or Introduction to Statistics I (with Computer Lab) or Statistics I	3-4
Credit Hours		16-17
Junior Year		
First Semester		
English Literature Survey		3
BIO 329 or BSC 129 or BIO 225 or BIO 230	Field Botany or Global Ecosystems: North America or The Poisoning of a Planet or General Ecology	4
ENG 210	Major Authors	3
CMM 224	Environmental Journalism	3
PSC 221 or PSC 332 or ECO 205	State Government and Politics or Public Policy or Economics of Public Policy Analysis	3
Credit Hours		16
Second Semester		
DIV Diversity (p. 61)		3
CMM 350	Communication Ethics	3
ENG 310	Literature and Culture	3
CMM Elective		3
Theology (p. 61)		3
Credit Hours		15
Senior Year		
First Semester		
Religion (p. 61)		3
ENG 388	Writing Green: Poetry, Fiction, and Our Place in the World	3
CMM Elective		3
PSC 333 or PSC 340	Environmental Politics or Science, Technology, & the Good Society	3
Credit Hours		12
Second Semester		
COR 400	Senior Studies: Transformations	3
CMM Elective		3
ESS 470	Seminar: Environmental Topics	3
Free Elective		3
Free Elective		3-4
Credit Hours		15-16
Total Credit Hours		120-122

Double Major in Political Science and Communications

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3

HST 110 & HST 111	World Civilization I and World Civilization II	6
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61) ²		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61) ³		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Political Science Major Requirements		
PSC 101	American National Politics	3
PSC 105	Comparative Politics	3
PSC 201	Introduction to Political Science	3
PSC 202	Methods of Political Science	3
PSC 207	Power and Justice	3
PSC 203	Public Opinion, Political Behavior, and Policy	3
PSC 353	Government and the Mass Media	3
PSC 480	Service Learning	1
Communications Major Requirements		
CMM 201	Fundamentals of Speech	3
CMM 205	Intro to Video Production	3
CMM 226	Introduction to Film Studies	3
CMM 250	Mass Media and Society	3
CMM 274	Reporting and Writing	3
CMM 350	Communication Ethics	3
CMM 376	Introduction to Advertising	3
or CMM 377 Introduction to Public Relations		
ENG 218	Critical Perspectives on Literature	3
PSC 428	Politics and Literature	3
Political Science Electives		
PSC Elective		3
PSC Elective		3
PSC Elective		3
Communications Electives		
CMM Elective		3
CMM Elective		3
CMM Elective		3
Free Elective		
Free Elective		3
Total Credits		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by PSC major requirements.

³ May be fulfilled by PSC major requirements.

Double Major in Theatre Arts and Communications (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110 & HST 111	World Civilization I and World Civilization II	6
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0

Theatre Major Requirements

The following 7 courses are required of all Theatre Arts majors

THR 105	Introduction to Theatre	3
THR 110	Stagecraft	3
THR 205	Acting I	3
THR 210	Fundamentals of Design for Theatre	3
THR 302	The Western Drama Tradition	3
THR/ENG Drama Lit		3
THR 440	Theatre Context	4

Theatre Arts Electives

These must include one design class and one performance class.

THR Electives	9
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Playmaking

THR 335	Devised Theatre	3
or THR 340 Directing		

Theatre Practicum

Production experience credit, value to be assigned by department: 1/2 to 2 credits. Within 4 years, this must total 3 credits.

THR 260	Theatre Practicum	1-3
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CMM and THR Requirements

ENG 218	Critical Perspectives on Literature	3
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Communications Requirements

The following 7 courses are required of all Communications majors

CMM 201	Fundamentals of Speech	3
CMM 205	Intro to Video Production	3

CMM 226	Introduction to Film Studies	3
CMM 250	Mass Media and Society	3
CMM 274	Reporting and Writing	3
CMM 350	Communication Ethics	3
CMM 376	Introduction to Advertising	3
or CMM 377 Introduction to Public Relations		

Communications Electives

Communications Electives	15
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World Language Requirement

World Language (These must be in the same language. Fulfills EAC requirement.)	6
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Total Credit Hours	120
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¹ Some Core requirements may be fulfilled by major requirements.

Communication Minor

Non-communication majors desiring a minor in communication should consult with the director of the communication and film studies department. The requirements for a minor are 15 hours in communication and film studies courses. CMM 250 Mass Media and Society is recommended.

CYBERSECURITY

Program Director: David Voorhees

The mission of the cybersecurity program is to provide a strong foundation in societal, technical and policy topics that influence cybersecurity issues, with the goal of enabling students to pursue a wide range of educational and employment opportunities.

Three concentrations are included in this program:

- Crime, Society & Culture
- Information & System Security
- Policy & Law

This program's strength is in the liberal arts tradition - students receive broad exposure to cybersecurity topics that span the social sciences and security technology. Students will probe the meanings and motivations behind cyber security threats, protective needs, and the role and limitations of technology. The program courses are meant to bring together critical thinking, effective communications, and the ability to meaningfully connect concepts, policies, technologies, and their critiques.

All students majoring in cybersecurity shall complete seven common course requirements – two covering crime, society & culture, three covering information & system security, and two covering policy & law. This is followed by a student completing six courses in their selected concentration and two courses in a cross-over concentration. The two cross-over courses allow a student to increase their breadth of exposure to topics covered in another concentration. See the requirements page for a complete description of the cybersecurity major.

This program's interdisciplinary approach is unique in that it presents broad coverage of policy, societal and technical topics, while allowing a student to specialize by selecting a concentration. This program is a strong example of liberal arts education that is clearly distinguishable from programs at peer institutions, which tend to emphasize only the technical aspect of cybersecurity. A 2014 paper published by the National Council in the Social Studies¹ includes the following quote.

... the disciplines of the social sciences promote ways of knowing and deliberating about data and information that are critical to policy development and the implementation of cybersecurity initiatives. Building the capacity of the next generation of social scientists to tackle these emerging issues is imperative.

In addition, a summary report from a workshop on social science, computer science, and cybersecurity held in 2013² included white papers written by the attendees. The following is a quote from one of the computer scientists in attendance at this workshop.

The fact that humans from several different walks of life are interacting with these systems on a daily basis has prompted a paradigm shift: rather than designing secure systems with arbitrarily defined use models, we must design secure systems with use models informed by how people interact with each other, computers, and information. This security paradigm necessitates a close collaboration between technical and social scientists so that the design of secure systems incorporates an understanding of the needs and capabilities of the billions of people that will rely on them.

Upon completion of this cybersecurity program, a student shall be able to:

1. Articulate critiques of current cybersecurity policies and laws, especially from the perspective of the disempowered.
2. Explain current policies and laws and their impact on cybersecurity.
3. Articulate how criminological, sociological and anthropological theories help us to understand the motivations, global patterns, and potential targets for cybercrime and cybercrime communities.
4. Explain how criminological, sociological and anthropological data collection strategies help understand the vulnerabilities and potential targets related to cybercrime so as to help create policies and programs that help protect society.
5. Demonstrate ability to assess security risks associated with technical and human factors for individuals, communities and organizations.
6. Formulate policies, operational procedures, and technology solutions that proactively address vulnerabilities, threats, and risks.

1. Berson, M. J., & Berson, I. R. (2014). Bringing the Cybersecurity Challenge to the Social Studies Classroom. *Social Education (National Council for the Social Studies)*, 78(2), 96-100.

2. Hofman, L. J. (2013). Social Science, Computer Science, and Cybersecurity, Workshop Summary Report. Cyber Security Policy and Research Institute, The George Washington University, Report GW-CSPRI-2013-02 retrieved on October 21, 2016 from <https://www.seas.gwu.edu/~cspri/s/Final-08-22-13-1301-Report-Social-Science-66cn.pdf>.

- B.A. in Cybersecurity with a Concentration in Crime, Society & Culture (p. 199)
- B.A. in Cybersecurity with a Concentration in Information & System Security (p. 199)
- B.A. in Cybersecurity with a Concentration in Policy & Law (p. 199)
- Cybersecurity Fundamentals (Certificate) (p. 203)
- Cybersecurity Minor (p. 204)

CYS 167. Introduction to Cybersecurity. 3 Credit Hours.

This course introduces cybersecurity and the NIST Framework from three different perspectives: technology, societal dynamics in cybercrime, and policy and law. Cybersecurity principles including confidentiality, integrity and availability as well as assurance, authenticity and anonymity are demonstrated via examples from each perspective. Students gain awareness of the broad scope of cybersecurity through readings, discussions, and hands-on exercises.

CYS 263. Introduction to Cybersecurity Risk and Protection Strategies. 3 Credit Hours.

This course focuses on cyber risks faced by individuals and organizations, and protection mechanisms to mitigate these risks. Examples are used to demonstrate risks posed by data at rest, data in use, and data in transit. This course will cover statistical models of risk, different risk assessment strategies (including the NIST 800 series) and methods of protecting information systems and data from unauthorized access and use. The strengths and limitation of protection mechanisms will be discussed, and will include access control, encryption, credentialing, operational policies and procedures, and risk mitigation policies (e.g., password update policy, least privilege). Students will get hands on experience on risk assessment and protection mechanisms.

CYS 269. Introduction to Detection, Response, & Recovery Strategies. 3 Credit Hours.

This course covers detection mechanisms that focus on identifying abnormal versus normal behaviors, and response and recovery actions based on a detected cybersecurity incident. The strengths and limitations of detection mechanisms will be discussed, and will include detecting abnormal behavior, performing continuous monitoring, and analyzing data from multiple sources. response and recovery planning and implementation of these plans will be discussed. Students will get hands-on experience on protection mechanisms, and response and recovery planning.

CYS 331. Network Security. 3 Credit Hours.

This course will provide students an in-depth look into principles of network security and protection strategies. Students will learn how different threats and attacks work, and how to defend against these through both case studies and hands-on labs. Students will also learn how different technologies work that are related to network security such as: firewalls, VPN, IDS/IPS, and more. Students will come away from this class with a technical and theoretical understanding of how to best secure a network.

Prerequisite: CYS 263 or CYS 269.

CYS 337. Scripting for Cybersecurity. 3 Credit Hours.

Students will learn to implement scripts to automate cybersecurity functions of protection and detection using python and linux shell. Detection related applications include system administration tasks, firewall maintenance, scanning log files, malware development and detection. Protection related applications include encryption, signatures, hash functions, access control mechanisms, authentication, and database account management statements (e.g., grant, revoke).

Prerequisites: CYS 167, CYS 263 or CYS 269, and CYS 175.

CYS 347. System and Software Security. 3 Credit Hours.

This course gives an introduction to secure administration of operating systems and software. Common vulnerabilities, their associated attacks and current defenses in systems and software are discussed. Students are introduced to penetration testing and other means of detecting vulnerabilities. Students also learn system administration skills for managing configurations (hardware and software), accounts, access control, firewalls, ports, patches and virtual machines and to create simple scripts. Both Linux/Unix and Windows operating systems are discussed.

Prerequisites: CYS 263 or CYS 269.

CYS 390. Cybersecurity Independent Study. 1-9 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the academic dean. It will be kept on file in the academic dean's office.

CYS 421. Ethical Hacking and Digital Forensics. 3 Credit Hours.

This course focuses on ethical hacking and digital forensics. It will provide a deeper understanding of how malicious actors think by studying real world case studies and performing hands-on activities. Tools commonly used by hackers will be discussed, with students learning methods on how to defend against these types of attacks. In addition, digital forensic analysis is also discussed. This will provide students an in-depth look at the process of digital forensics and give them hands-on opportunities to perform forensics.

Prerequisites: CYS 331 or CYS 347.

CYS 431. Security Architecture. 3 Credit Hours.

This course will give students the ability to apply the concepts and technologies learned in the cybersecurity program. Students are able to apply best practices to build and maintain a defensible security architecture. Students will setup and apply security best practices on a network of their own design. The class will also provide hands-on opportunities for students to test their designs by providing a capture-the-flag like exercise.

Prerequisite: CYS 331 and CYS 347.

CYS 490. Cybersecurity Internship. 1-12 Credit Hours.

A service learning course where students complete CISRM identified projects or an internship.

Prerequisite: Junior or Senior level standing.

Cybersecurity (B.A.)

The following courses are required regardless of concentration.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	6
& HST 111	and World Civilization II	
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Common Requirements		
CYS 167	Introduction to Cybersecurity	3
CYS 263	Introduction to Cybersecurity Risk and Protection Strategies	3
CYS 269	Introduction to Detection, Response, & Recovery Strategies	3
PSC 261	International Politics	3

PSC 377	Security Studies	3
Select one of the following:		3
ANT 101	Introduction to Anthropology	
CJS 101	Introduction to Criminology	
SOC 101	Introductory Sociology	
Select one of the following:		3
CJS 201	Research Methods	
MIS 471	Information Systems Research Methods	
PSC 202	Methods of Political Science	
SOC 201	Research Methods	
Concentration Requirements (See below)		53
Total Credits		120

¹ Some Core requirements may be fulfilled by major requirements.

Concentrations

- Crime, Society & Culture Concentration (p. 200)
- Information & System Security Concentration (p. 200)
- Policy & Law Concentration (p. 200)

Crime, Society & Culture Concentration

Code	Title	Credit Hours
Concentration Course Requirements		
SOC 402	Program Evaluation Research Methods And Policy	3
Select any five of the following:		15
CJS 223	Global Crime	
CJS 305	Criminological Theory	
CJS 321	Law,Society & Social Science	
CJS 322	Economics of Crime and Punishment	
CJS 381	Understanding Modern Terrorism	
SOC 303	Social Theory in Anthro/Sociol	
SOC 341	Hum Svc Caseload Mgt-Theory & Svc Learn	
Major Support Requirements		
CSC 175	Introduction to Algorithms and Program Design	4
CYS 331	Network Security ¹	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
One additional course from the Information & System Security concentration from the following: ¹		3
CYS 337	Scripting for Cybersecurity	
CYS 347	System and Software Security	
CYS 421	Ethical Hacking and Digital Forensics	
CYS 431	Security Architecture	
CYS 490	Cybersecurity Internship	
One Philosophy course on logic from the following:		3
PHL 310	Critical Reasoning	
PHL 311	Introduction to Formal Logic	
One ethics course from the following:		3
PHL 347	Crisis Ethics: War, Pandemic and Social Collapse	

PHL 359	Ethics of Medical Technology	
REL 336	Comparative Religious Ethics & Social Concerns	
THE 237	Christian Social Ethics	
Electives		15

¹ These requirements are denoted as Concentration Cross-over 1 and Concentration Cross-over 2. These appear in Year 4 of the typical 4-year schedules.

Information & System Security Concentration

Code	Title	Credit Hours
Concentration Course Requirements		
CYS 331	Network Security	3
CYS 337	Scripting for Cybersecurity	3
CYS 347	System and Software Security	3
CYS 421	Ethical Hacking and Digital Forensics	3
CYS 431	Security Architecture	3
CYS 490	Cybersecurity Internship	3
Major Support Requirements		
CSC 175	Introduction to Algorithms and Program Design	4
MTH 111	Introduction to Statistics I (with Computer Lab)	4
Any two courses from Crime, Society & Culture Concentration or from Policy & Law Concentration ¹		6
One philosophy course on logic from the following:		3
PHL 310	Critical Reasoning	
PHL 311	Introduction to Formal Logic	
One ethics course from the following:		3
PHL 347	Crisis Ethics: War, Pandemic and Social Collapse	
PHL 359	Ethics of Medical Technology	
REL 336	Comparative Religious Ethics & Social Concerns	
THE 237	Christian Social Ethics	
Electives		15

¹ These requirements are denoted as Concentration Cross-over 1 and Concentration Cross-over 2. These appear in Year 4 of the typical 4-year schedules.

Policy & Law Concentration

Code	Title	Credit Hours
Concentration Course Requirements		
PSC 253	Cybersecurity Law	3
Any five of the following:		15
PSC 105	Comparative Politics	
PSC 344	Immigration	
PSC 363	U.S. Foreign Policy	

PSC 366	Globalization: the Politics of International Economic Relations	
PSC 367	War, Peace and Violence	
PSC 205	Introduction to Legal Studies	
PSC 340	Science, Technology, & the Good Society	
PSC 451	American Constitutional Law I	
PSC 452	American Constitutional Law II	
Major Support Requirements		
CSC 175	Introduction to Algorithms and Program Design	4
CYS 331	Network Security ¹	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
One additional course from the Information & System Security concentration from the following: ¹		3
CYS 337	Scripting for Cybersecurity	
CYS 347	System and Software Security	
CYS 421	Ethical Hacking and Digital Forensics	
CYS 431	Security Architecture	
CYS 490	Cybersecurity Internship	
One Philosophy course on logic from the following:		3
PHL 310	Critical Reasoning	
PHL 311	Introduction to Formal Logic	
One ethics course from the following:		3
PHL 347	Crisis Ethics: War, Pandemic and Social Collapse	
PHL 359	Ethics of Medical Technology	
REL 336	Comparative Religious Ethics & Social Concerns	
THE 237	Christian Social Ethics	
Electives		15

¹ These requirements are denoted as Concentration Cross-over 1 and Concentration Cross-over 2. These appear in Year 4 of the typical 4-year schedules.

- Crime, Society & Culture Concentration (p. 201)
- Information & System Security Concentration (p. 202)
- Policy & Law Concentration (p. 202)

B.A. in Cybersecurity with a Concentration in Crime, Society & Culture

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
CYS 167	Introduction to Cybersecurity	3
Select one of the following:		3
ANT 101	Introduction to Anthropology	
CJS 101	Introduction to Criminology	

SOC 101	Introductory Sociology	
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
CYS 263	Introduction to Cybersecurity Risk and Protection Strategies	3
PSC 261	International Politics	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
Credit Hours		16

Sophomore Year

First Semester		
ENG 210	Major Authors	3
CSC 175	Introduction to Algorithms and Program Design	4
SOC 201	Research Methods	3
CYS 269	Introduction to Detection, Response, & Recovery Strategies	3
PSC 377	Security Studies	3
Credit Hours		16

Second Semester

PHL 210	Moral Philosophy	3
Natural Science		3
Concentration Course 1		3
Concentration Course 2		3
PHL 310 or PHL 311	Critical Reasoning or Introduction to Formal Logic	3
Credit Hours		15

Junior Year

First Semester		
Theology		3
ENG 310	Literature and Culture	3
World Language		3
Concentration Course 3		3
Liberal Arts Elective		3
Credit Hours		15

Second Semester

IDS Interdisciplinary Studies		3
World Language		3
Concentration Course 4		3
Concentration Course 5		3
Select Ethics course from following:		3
REL 336	Comparative Religious Ethics & Social Concerns	
PHL 359	Ethics of Medical Technology	
THE 237	Christian Social Ethics	
Credit Hours		15

Senior Year

First Semester		
Concentration Course 6		3
Concentration Cross-Over 1		3
Liberal Arts Elective		3

Liberal Arts Elective	3
Liberal Arts Elective	3
Credit Hours	15
Second Semester	
COR 400 Senior Studies: Transformations	3
VPA Visual and Performing Arts	1
Concentration Cross-Over 2	3
Liberal Arts Elective	3
Liberal Arts Elective	3
Liberal Arts Elective	3
Credit Hours	16
Total Credit Hours	123

B.A. in Cybersecurity with a Concentration in Information & System Security

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
CYS 167	Introduction to Cybersecurity	3
Select one of the following:		3
ANT 101	Introduction to Anthropology	
CJS 101	Introduction to Criminology	
SOC 101	Introductory Sociology	
Credit Hours		15
Second Semester		
HST 111	World Civilization II	3
PHL 110	Introduction to Philosophy	3
CYS 263	Introduction to Cybersecurity Risk and Protection Strategies	3
PSC 261	International Politics	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
Credit Hours		16
Sophomore Year		
First Semester		
ENG 210	Major Authors	3
CYS 269	Introduction to Detection, Response, & Recovery Strategies	3
PSC 377	Security Studies	3
SOC 201	Research Methods	3
CSC 175	Introduction to Algorithms and Program Design	4
Credit Hours		16
Second Semester		
PHL 210	Moral Philosophy	3
Natural Science		3
CYS 331	Network Security	3
CYS 337	Scripting for Cybersecurity	3

PHL 310 or PHL 311	Critical Reasoning or Introduction to Formal Logic	3
Credit Hours		15
Junior Year		
First Semester		
Theology		3
ENG 310	Literature and Culture	3
World Language		3
CYS 347	System and Software Security	3
Liberal Arts Elective		3
Credit Hours		15
Second Semester		
IDS Interdisciplinary Studies		3
World Language		3
CYS 421	Ethical Hacking and Digital Forensics	3
CYS 490	Cybersecurity Internship	3
Select Ethics course from following:		3
PHL 359	Ethics of Medical Technology	
REL 336	Comparative Religious Ethics & Social Concerns	
THE 237	Christian Social Ethics	
Credit Hours		15
Senior Year		
First Semester		
CYS 431	Security Architecture	3
Concentration Cross-Over 1		3
Liberal Arts Elective		3
Liberal Arts Elective		3
Liberal Arts Elective		3
Credit Hours		15
Second Semester		
COR 400	Senior Studies: Transformations	3
VPA Visual and Performing Arts		1
Concentration Cross-Over 2		3
Liberal Arts Elective		3
Liberal Arts Elective		3
Liberal Arts Elective		3
Credit Hours		16
Total Credit Hours		123

B.A. in Cybersecurity with a Concentration in Policy & Law

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
CYS 167	Introduction to Cybersecurity	3
Select one of the following:		3
ANT 101	Introduction to Anthropology	

CJS 101	Introduction to Criminology	
SOC 101	Introductory Sociology	
Credit Hours		15

Second Semester

PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
CYS 263	Introduction to Cybersecurity Risk and Protection Strategies	3
PSC 261	International Politics	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
Credit Hours		16

Sophomore Year**First Semester**

ENG 210	Major Authors	3
SOC 201	Research Methods	3
CYS 269	Introduction to Detection, Response, & Recovery Strategies	3
PSC 377	Security Studies	3
CSC 175	Introduction to Algorithms and Program Design	4
Credit Hours		16

Second Semester

PHL 210	Moral Philosophy	3
Natural Science		3
Concentration Course 1		3
Concentration Course 2		3
PHL 310	Critical Reasoning	3
or PHL 311	or Introduction to Formal Logic	
Credit Hours		15

Junior Year**First Semester**

Theology		3
ENG 310	Literature and Culture	3
World Language		3
Concentration Course 3		3
Liberal Arts Elective		3
Credit Hours		15

Second Semester

IDS Interdisciplinary Studies		3
World Language		3
Concentration Course 4		3
Concentration Course 5		3
Select Ethics course from following:		3
PHL 359	Ethics of Medical Technology	
REL 336	Comparative Religious Ethics & Social Concerns	
THE 237	Christian Social Ethics	
Credit Hours		15

Senior Year**First Semester**

Concentration Course 6		3
Concentration Cross-Over 1		3

Liberal Arts Elective		3
Liberal Arts Elective		3
Liberal Arts Elective		3

Credit Hours		15
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Second Semester

COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts		1
Concentration Cross-Over 2		3
Liberal Arts Elective		3
Liberal Arts Elective		3
Liberal Arts Elective		3
Credit Hours		16

Total Credit Hours		123
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Certificate in Cybersecurity Fundamentals

Le Moyne College's undergraduate Cybersecurity Fundamentals certificate program is designed to prepare students for internship, part-time, and full-time employment opportunities as an entry-level systems/network security administrator or security risk assessor/manager.

Students graduating from the Le Moyne College undergraduate Cybersecurity Fundamentals certificate program will be able to demonstrate the following skills, knowledge and values:

1. Security administration of networks and systems,
2. Risk assessment and risk mitigation strategies,
3. Response and recovery planning,
4. Communication, interpersonal and team skills.

Program Admission and Application Requirements

Applicants will document their interest in and motivation for pursuing this certificate program. No prior course work at an undergraduate institution is required.

Code	Title	Credit Hours
CYS 167	Introduction to Cybersecurity	
CYS 263	Introduction to Cybersecurity Risk and Protection Strategies	
CYS 269	Introduction to Detection, Response, & Recovery Strategies	
CYS 331	Network Security	
CYS 421	Ethical Hacking and Digital Forensics	

Course	Title	Credit Hours
Year I		
Fall		
CYS 167	Introduction to Cybersecurity	3
Credit Hours		3

J-Mester		
CYS 263	Introduction to Cybersecurity Risk and Protection Strategies	3
Credit Hours		3
Spring		
CYS 269	Introduction to Detection, Response, & Recovery Strategies	3
Credit Hours		3
Summer		
CYS 331	Network Security	3
CYS 421	Ethical Hacking and Digital Forensics	3
Credit Hours		6
Total Credit Hours		15

Cybersecurity Minor

A student wishing to earn a minor in **cybersecurity** must complete five courses, as specified below.

For a student majoring in a program provided by the **Anthropology, Criminology and Sociology** department, take the following five courses:

Code	Title	Credit Hours
CYS 167	Introduction to Cybersecurity	3
CYS 263	Introduction to Cybersecurity Risk and Protection Strategies	3
CYS 269	Introduction to Detection, Response, & Recovery Strategies	3
PSC 261	International Politics	3
PSC 377	Security Studies	3

For a student majoring in **Political Science**, take the following five courses:

Code	Title	Credit Hours
CYS 167	Introduction to Cybersecurity	3
CYS 263	Introduction to Cybersecurity Risk and Protection Strategies	3
CYS 269	Introduction to Detection, Response, & Recovery Strategies	3
Select one of the following:		3
ANT 101	Introduction to Anthropology	
CJS 101	Introduction to Criminology	
SOC 101	Introductory Sociology	
Select one of the following:		3
CJS 201	Research Methods	
PSC 202	Methods of Political Science	
SOC 201	Research Methods	

For a student majoring in **Computer Science or in Software Applications and Systems Development**, take the following five courses:

Code	Title	Credit Hours
CYS 263	Introduction to Cybersecurity Risk and Protection Strategies	3
CYS 269	Introduction to Detection, Response, & Recovery Strategies	3
Select 1 of the following:		3
PSC 261	International Politics	
PSC 377	Security Studies	
Select 1 of the following:		3
ANT 101	Introduction to Anthropology	
CJS 101	Introduction to Criminology	
SOC 101	Introductory Sociology	
Select 1 of the following:		3
CYS 331	Network Security	
CYS 337	Scripting for Cybersecurity	
CYS 347	System and Software Security	
CYS 421	Ethical Hacking and Digital Forensics	
CYS 431	Security Architecture	
CYS 490	Cybersecurity Internship	

For **all other students**, take the following five courses:

Code	Title	Credit Hours
CYS 167	Introduction to Cybersecurity	3
CYS 263	Introduction to Cybersecurity Risk and Protection Strategies	3
CYS 269	Introduction to Detection, Response, & Recovery Strategies	3
Select 1 of the following:		3
PSC 261	International Politics	
PSC 377	Security Studies	
Select 1 of the following:		3
ANT 101	Introduction to Anthropology	
CJS 101	Introduction to Criminology	
SOC 101	Introductory Sociology	
CJS 201	Research Methods	
MIS 471	Information Systems Research Methods	
PSC 202	Methods of Political Science	
SOC 201	Research Methods	

ECONOMICS

Chair: Wayne Grove

Professor: Dixie M. Blackley, Paul R. Blackley, Wayne Grove, Edward M. Shepard

Adjunct Faculty: Mariela Cavo, Hasan Murshed

Economics is the study of individual and collective decisions that relate to the production, consumption and exchange of goods and services. The economics curriculum contributes to a well-balanced liberal arts and business management education by providing students with the fundamental economic concepts necessary to better understand the world around them. The economics major prepares students for careers in a variety of fields including economics, business, law, education and government and to pursue advanced degrees in economics, business, public administration, law or related fields.

The Department of Economics offers both a Bachelor of Arts degree and a Bachelor of Science degree. Both programs develop the conceptual frameworks and analytical skills necessary to critically evaluate economic outcomes, issues, and policies. Requirements for the Bachelor of Arts degree reflect the liberal arts tradition of economics. Requirements for the Bachelor of Science degree emphasize the development of quantitative skills and applications widely used in the business disciplines.

Student Learning Outcomes in Economics

Students who graduate from this program will be able to:

SLO 1: Apply concepts

Explain and apply economic concepts and theories in various contexts.

SLO 2: Analyze issues and policies

Analyze contemporary and historical issues and policies

SLO 3: Identify information

Identify relevant economic information. (Information literacy)

SLO 4: Interpret information

Interpret economic information and data.

SLO 5: Quantitative methods

Analyze economic data using appropriate quantitative methods.

SLO 6: Communication

Communicate effectively through writing and speaking.

- Economics Major (B.A.) (p. 207)
- Economics Major (B.S.) (p. 209)
- Economics Minor (p. 210)

Economics (ECO)

ECO 113. Principles of Microeconomics. 3 Credit Hours.

This course introduces economic analysis of household, business, and government choices in societies limited by scarce resources. Rational choice provides the foundation for understanding economic incentives facing consumers and producers. Supply and demand models illustrate the role of prices in determining resource allocation. Topics include economic efficiency, productivity, opportunity cost, marginal analysis, profit maximization, and international trade. In addition, the course introduces theories of economic performance under alternative market structures (e.g. competition vs. monopoly), market failure, and the role of the government in the economy. No prerequisites.

ECO 114. Principles of Macroeconomics. 3 Credit Hours.

This course introduces the basic concepts of macroeconomics through which students develop a working knowledge of the U.S. economy. Students learn the relationship between fiscal and monetary policies and short-run business cycle fluctuations, and what factors produce long-run economic growth. This knowledge helps students to identify and explain current macroeconomic issues and outcomes such as the unemployment rate, inflation rate, interest rates, budget and trade deficits, national debt, and exchange rates. Students learn the roles that money, banking, and the financial sector play, and how government spending and taxes affect the economy. No prerequisites.

ECO 205. Economics of Public Policy Analysis. 3 Credit Hours.

This course introduces basic concepts for public policy economics. These include opportunity cost, demand and supply analysis, market failure and formulations of equity. The three course components include cost-benefit analysis using examples from government programs and environmental regulations; macroeconomics topics such as fiscal and monetary policies to lower unemployment and inflation, international trade policy and policies to promote growth and financial stability; and microeconomic topics such as market issues such as the minimum wage and returns to education and training expenditures. No prerequisites.

ECO 228. Financial Mkts & Institutions. 3 Credit Hours.

This course is designed to give a conceptual understanding of different types and functions of financial institutions and financial markets. The purpose of this course is to provide students with an introduction to the financial system and economic analysis, including major financial markets, financial institutions, and financial instruments. Its topics include foreign exchange rates, interest rates, monetary policy, money markets, and capital markets, securities offerings, valuation and risk in the various markets, operations and management of central bank and commercial banks.

Prerequisites: ECO 113 and ECO 114.

Cross-listed Courses: FIN 228

ECO 250. Intermed Microeconomic Theory. 3 Credit Hours.

Microeconomics studies the behavior of individual participants within the economic system. Models are developed and evaluated which explain the choices of consumers, producers and government agents related to consumption, production, and distribution of goods and services within the economy. Significant attention is paid to market theory, pricing policies, and incentive facing firms in different market environments ranging from the very competitive to the monopoly. Concepts covered include profit maximization and methods of optimization, indifference curves, economic efficiency, market failure, resource markets, monopolistic competition, oligopoly, externalities and public goods.

Prerequisites: ECO 113 and ECO 114.

Cross-listed Courses: RMI 250

ECO 252. Intermediate Macro Theory. 3 Credit Hours.

This course examines the aggregate economy of the United States for the purpose of helping the student develop an ability to use several leading models to explain the workings of the macroeconomy. There is an emphasis on using these explanations to formulate predictions of economic performance in the context of current data and events. Students learn to measure and use key variables such as GDP, unemployment, inflation, and interest rates. There is also an assessment of the usefulness of monetary and fiscal policies to improve the workings of the economy. The course is structured to follow the historical development of macroeconomic theory from the original classical and Keynesian models to the modern aggregate demand-aggregate supply model and the rational expectations alternative, and ending with an introduction to the New Keynesian and real business cycle models of today.

Prerequisites: ECO 113 and ECO 114.

ECO 305. Environmental Economics. 3 Credit Hours.

Application of economic theory and models to critically analyze the state of the environments as well as to identify how we might bring improvements in environmental quality. Coverage of relationships and interactions of the public and private sectors in the creation and control of the different environmental issues. Junior standing required. Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: ESS 305

ECO 313. Labor Economics. 3 Credit Hours.

This is a course in specialized economic analysis. It treats theories of wage determination; the supply of, and demand for, labor; measurement of the labor force; the relationship between wage rates, costs and prices; the effects of trade union policies on employment and profits; labor and technological change; determination of labor's share in national income.

Prerequisites: ECO 113 and ECO 114.

ECO 315. American Eco Hist Since 1860. 3 Credit Hours.

This course focuses on the growth and development of the U.S. economy following the Civil War, emphasizing key economic events, factors, and explanations. Basic economic theory provides the framework for examining the causes and consequences of the rise of big business and big government, fiscal and monetary policies, technological change, education and immigration policies, changes in income inequality, and changes in labor and capital markets. Students learn how the study of economic history applies to the analysis of present-day events. No prerequisites.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

ECO 322. Economics of Crime and Punishment. 3 Credit Hours.

This course examines contemporary issues of crime, punishment, and criminal justice from an economic perspective. Basic economic concepts such as rational choice, opportunity costs, cost-benefit analysis, and supply and demand provide insights into criminal justice concerns. Public policies for crime control are assessed with consideration of underlying economic realities and economic effects. Contemporary topics may include effectiveness of alternative crime control measures and 'tough on crime' public policies, costs, and benefits of incarceration, the war on drugs, gun control, and capital punishment. Readings are drawn from the Social Sciences; with the focus on applying economic methods to evaluate criminal justice issues. No prerequisites.

Cross-listed Courses: CJS 322, SOC 322

ECO 325. Econometrics. 3 Credit Hours.

This course addresses the quantitative analysis of relationship implied by economic theory. Using appropriate data and estimation methods, students learn how to estimate the magnitudes of economic relationships and statistically verify or refute hypotheses related to them. In the context of single-equation models, students learn to manipulate economic data; identify and apply appropriate estimation techniques; and present, interpret, and evaluate empirical results. Also, students develop basic proficiency in using statistical software. Some background in algebra and basic calculus is helpful, but not required. Prerequisites: STA 201 and STA 202, MTH 110 and MTH 112, MTH 111 & MTH 112, or equivalent; and ECO 113 and ECO 114 or equivalent.

ECO 335. Economics of Poverty. 3 Credit Hours.

This course examines poverty in the United States from an economic perspective. Using the basic concepts of economic analysis, it considers several dimensions of poverty, including the U.S. income distribution, the measurement and incidence of poverty, the characteristics of the poor, and the causes and consequences of poverty. It also provides an overview of the structure, history, and effectiveness of public policy aimed at alleviating poverty.

Cross-listed Courses: SOC 335

ECO 345. Strategic Competition in Market Economies. 3 Credit Hours.

Economics 345 is a course that assesses strategic competition in market economies. At the outset, we will develop the basic concepts of value maximization and market concentration along with the dynamics of market entry and exit as they influence, and are influenced by, market structure. This will be followed by an assessment of the various strategic behaviors engaged in by actual and potential competitors in modern market economies. These will be used as a basis for studying business practices such as product differentiation, the pursuit of technological change, and price discrimination. Throughout the course, we will review the antitrust and regulatory activities of the U.S. government, with a close look at current practices in each area. We will also use case studies of individual industries to illustrate the usefulness of economic analysis for learning about contemporary business practices and policy issues.

Prerequisites: ECO 113 and ECO 114.

ECO 350. The Economic of Sports. 3 Credit Hours.

This course applies the principles of economics to evaluate professional and amateur sports, including topics like the demand for sports, valuing and identifying athletic talent, the economic impact of sports franchises and mega-events like the Super Bowl or Olympics, labor markets, college sports and much more. Economic factors affect the behavior of participants in sports markets—owners, managers, players, and the media—just as they affect the behavior of individuals and firms in other markets. Students apply the tools of economic analysis, mostly from microeconomics, to help make sense of many issues in the world of sports. An essential contribution of sports is the wealth of data that allows economists to test important economic theories. No prerequisites.

ECO 390. Independent Study. 1-3 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the dean of management. It will be kept on file in the academic dean's office.

ECO 402. Program Evaluation Research Methods And Policy. 3 Credit Hours.

The goal of this course is to develop a comprehensive understanding of the use of behavioral science research methods and theories for program and intervention evaluations. Topics given special emphasis include: measurement strategies and problems, needs assessment, experimental and quasi-experimental field designs, qualitative methods, benefit-cost analysis, statistical approaches to modeling bias and the use of evaluation results in the policy process.

Cross-listed Courses: SOC 402, PSC 402

ECO 405. Global Economic Issues. 3 Credit Hours.

Is globalization inevitable and irreversible? Who are the winners and losers? Globalization is the process of integration of markets, politics, and legal systems. Supporters of globalization believe it increases a nation's economic growth and expands opportunities for countries to trade and realize comparative advantages in their areas of strength. Opponents believe it increases inequality within and between nations, threatens employment and living standards, thwarts labor and environmental standards, and retards social progress. This course includes a description of the principles and practices of foreign trade and financial institutions; international cartels; and defines globalization; examines its impact on trade; movement of capital and labor; diffusion of knowledge and technology, and distribution of income in the world. Fulfills Core requirement(s): DIV.

Prerequisite: Either ECO 113 or ECO 114.

Cross-listed Courses: PGS 402

ECO 436. Economics Seminar. 3 Credit Hours.

In this capstone, course Economics majors reflect upon and demonstrate the knowledge and skills learned in the Economics program. Classes are organized around a contemporary theme(s) of significant importance to society. Possible topics include economic inequality, international trade, environmental protection, technological change, and government regulation. Classes are a mix of lectures, presentations, discussions, media documentaries, and student debates. Students are expected to conduct research on a selected topic culminating in a term paper and presentation of their findings and conclusions to the class. Prerequisite: Upper class (Junior or Senior) Economics major or permission of instructor.

ECO 490. Internship in Economics. 1-3 Credit Hours.

Participation in a field learning experience closely related to one area of economics. The student interns report as required to the faculty member assigned to supervise this field experience and will be expected to evaluate the experience and relate it to his or her academic program. Three hours of field work per week will be required to generate one credit. Prerequisite: permission of the department chair.

ECO 498. Honors Research. 3 Credit Hours.

This fulfills the requirement that honors students complete a research project. Subject matter to be arranged.

ECO 501. Economics for Managers. 3 Credit Hours.

This course provides an introduction of economics for managers. It applies macroeconomic methods to business decision making and current global policy issues as well as microeconomic models to consumer, producer and market behavior. Topics include interest rates, inflation, monetary and fiscal policy, and labor markets, as well as demand and cost analysis, industry performance, and market structure.

Economics Major (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3

ECO 250	Intermed Microeconomic Theory	3
ECO 252	Intermediate Macro Theory	3
ECO 325	Econometrics	3
ECO 436	Economics Seminar	3
Economic Electives		18
Major Support Requirements		
Mathematics ²		6
Statistics ³		6
ACT 203	Principles of Accounting I for Non Accounting Majors	3
World Language ⁴		6
Electives		
Electives		18
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Two classes at the 120- or higher level must be taken. It is recommended, not required, that the courses be part of a sequence. The recommended sequences include MTH 120 Mathematics for Business Majors-MTH 122 Brief Calculus, MTH 122 Brief Calculus-MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I-MTH 146 Calculus II. Students with strong backgrounds in math, or who plan to apply to graduate school, are encouraged to take MTH 145 Calculus I-MTH 146 Calculus II.

³ Any two statistics courses in a sequence may be taken. These include MTH 110 Introduction to Statistics I or MTH 111 Introduction to Statistics I (with Computer Lab)-MTH 112 Introduction to Statistics II, STA 201 Statistics I-STA 202 Statistics II, MTH 311 Introduction to Probability Theory-MTH 312 Mathematical Statistics. MTH 311 Introduction to Probability Theory-MTH 312 Mathematical Statistics is highly recommended for students interested in combining economics and mathematics.

⁴ Must be taken in same language.

Students are encouraged to take courses in political science, psychology and sociology.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
ECO 113	Principles of Microeconomics	3
EAC (Encountering another culture/language)		3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
MTH 111	or Introduction to Statistics I (with Computer Lab)	
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
ECO 114	Principles of Macroeconomics	3
MTH 112	Introduction to Statistics II	3
MTH 120	Mathematics for Business Majors	3
or	or Calculus I	
MTH 145		

EAC (Encountering another culture/language)	3
Credit Hours	15

Sophomore Year

First Semester

ENG 210	Major Authors	3
ECO 250	Intermed Microeconomic Theory	3
HST 110	World Civilization I	3
Natural Science		3
MTH Elective		3

Credit Hours		15
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Second Semester

PHL 210	Moral Philosophy	3
ECO 252	Intermediate Macro Theory	3
HST 111	World Civilization II	3
ECO Elective		3
Free Elective		3

Credit Hours		15
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Junior Year

First Semester

ENG 310	Literature and Culture	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
Theology		3
ECO Elective		3
Free Elective		3

Credit Hours		15
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Second Semester

IDS Interdisciplinary Studies (p. 61)		3
Religious Studies		3
Diversity Elective		3
ECO Elective		3
Free Elective		3

Credit Hours		15
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Senior Year

First Semester

COR 400	Senior Studies: Transformations	3
ECO 325	Econometrics	3
ECO Elective		3
ECO Elective		3
Free Elective		3

Credit Hours		15
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Second Semester

ECO 436	Economics Seminar	3
ECO Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Credit Hours		15
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Total Credit Hours		120
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Economics Major (B.S.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Studies (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
ECO 250	Intermed Microeconomic Theory	3
ECO 252	Intermediate Macro Theory	3
ECO 325	Econometrics	3
ECO 436	Economics Seminar	3
Economic Electives		12
Major Support Requirements		
Mathematics ²		6
ACT 203	Principles of Accounting I for Non Accounting Majors	3
Statistics ³		6
Quantitative Electives ⁴		6
Free Electives		18
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Any two statistics courses in a sequence may be taken. These include MTH 110 Introduction to Statistics I or MTH 111 Introduction to Statistics I (with Computer Lab)-MTH 112 Introduction to Statistics II, STA 201 Statistics I-STA 202 Statistics II or MTH 311 Introduction to Probability Theory-MTH 312 Mathematical Statistics. MTH 311 Introduction to Probability Theory-MTH 312 Mathematical Statistics is highly recommended for students interested in combining economics and mathematics.

³ Two classes at the 120- or higher level must be taken. It is recommended, not required, that the courses be part of a sequence. The recommended sequences include MTH 120 Mathematics for Business Majors-MTH 122 Brief Calculus, MTH 122 Brief Calculus-MTH 123 Mathematics for Act Majors or MTH 145 Calculus I-MTH 146 Calculus II. Students with strong backgrounds in math, or who plan to apply to graduate school, are encouraged to take MTH 145 Calculus I-MTH 146 Calculus II.

⁴ Two additional quantitative courses selected from a list of approved courses must be taken to complete the requirements. Examples include courses in mathematics, accounting, finance, management information systems and applied management analysis at the 200- or higher level. Other classes will require approval from the department chair.

Course	Title	Credit Hours
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Freshman Year

First Semester

WRT 101	Critical Writing	3
ECO 113	Principles of Microeconomics	3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
or		
MTH 111	or Introduction to Statistics I (with Computer Lab)	
COR 100	First Year Seminars: Transitions	3
EAC (Encountering another culture/language)		3

Credit Hours 15

Second Semester

PHL 110	Introduction to Philosophy	3
ECO 114	Principles of Macroeconomics	3
MTH 112	Introduction to Statistics II	3
EAC (Encountering another culture/language)		3
MTH 120	Mathematics for Business Majors	3
or	or Calculus I	
MTH 145		

Credit Hours 15

Sophomore Year

First Semester

ECO 250	Intermed Microeconomic Theory	3
ENG 210	Major Authors	3
Math Elective		3
HST 110	World Civilization I	3
Natural Science		3

Credit Hours 15

Second Semester

ECO 252	Intermediate Macro Theory	3
PHL 210	Moral Philosophy	3
HST 111	World Civilization II	3
ECO Elective		3
Free Elective		3

Credit Hours 15

Junior Year

First Semester

ENG 310	Literature and Culture	3
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ACT 203	Principles of Accounting I for Non Accounting Majors	3
Eco Elective		3
Quantitative Elective		3
Free Elective		3
Credit Hours		15
Second Semester		
IDS Interdisciplinary Studies (p. 61)		3
Religious Studies		3
ECO Elective		3
Free Elective		3
Free Elective		3
Credit Hours		15
Senior Year		
First Semester		
Theology		3
ECO 325	Econometrics	3
ECO Elective		3
Quantitative Elective		3
Free Elective		3
Credit Hours		15
Second Semester		
ECO 436	Economics Seminar	3
COR 400	Senior Studies: Transformations	3
Free Elective		3
Free Elective		3
Free Elective		3
Credit Hours		15
Total Credit Hours		120

Economics Minor

Code	Title	Credit Hours
Minor Requirements		
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
ECO 250	Intermed Microeconomic Theory	3
	or ECO 345 Strategic Competition in Market Economies	
ECO 252	Intermediate Macro Theory	3
	or ECO 228 Financial Mkts & Institutions	
Economics Electives		6
Total Credit Hours		18

One course from outside the department, judged to have significant economics content may be substituted for an economics elective to complete the minor in economics. Examples include:

1. a 300-level or higher finance elective; or
2. a course in a related discipline from the social science or management division with a significant economics context.

ENGINEERING

Program Director: Stamatios Kyrkos

Students wishing to pursue careers in engineering participate in the bachelor's + master's dual degree partnership offered in conjunction with the College of Engineering and Computer Science at Syracuse University. Pre-engineering concentrations in chemical, computer, civil, environmental, electrical, mechanical, aerospace and biological engineering are available.

Students with pre-engineering major concentrations complete their four-year bachelor's degree – in physics, computer science, chemistry or biology, as appropriate – at Le Moyne, while taking engineering courses at Syracuse University at no additional cost. Students who complete these engineering concentrations in good standing (including maintaining a 3.0 G.P.A., both overall and in their science and engineering courses) are pre-admitted to the appropriate engineering master's degree program at Syracuse University and receive a 50 percent tuition waiver, typically completing their master's degree in an additional three semesters. Students who successfully complete the partnership program earn both a bachelor's degree from Le Moyne and a master's degree in engineering from Syracuse University. See the Le Moyne College Engineering site at [lemoyne.edu/engineering](http://www.lmoyne.edu/engineering) (<http://www.lmoyne.edu/Learn/Colleges-Schools-Centers/College-of-Arts-Sciences/Majors-Minors/Engineering/>) for more details.

Affiliated Institution: Syracuse University

Eligible Students: Those meeting requirements

Degrees Awarded: Bachelor's degree (B.S. or B.A.) with a concentration in pre-engineering from Le Moyne College and master's of engineering (M.S.) from Syracuse University (Ten individual major concentrations. Please see the appropriate section of the catalog for details concerning the individual major concentrations.)

Length: Four years at Le Moyne College and three semesters at Syracuse University

Contact: Director of Engineering Programs, Chair of the Department of Physics, Biology, Chemistry, or Mathematics & Computer Science, depending on the concentration.

Students participating in the Syracuse University Bachelor's/Master's Degree in Engineering Partnership must choose the appropriate pre-engineering concentration within the appropriate major. Please see the Physics, Biology, Chemistry, or Mathematics & Computer Science sections of this catalog for typical programs.

Students who successfully complete their Le Moyne bachelor's degree program with a concentration in pre-engineering with both an overall 3.0 G.P.A. and a 3.0 G.P.A. in their science, mathematics and engineering courses, are eligible for pre-admission into the appropriate master's degree program at Syracuse University and a 50 percent waiver on their master's degree tuition, subject to the terms of the agreement with Syracuse University. The master's degree will typically be completed in an additional three semesters after graduation from Le Moyne.

Permission to register for courses at Syracuse University required by the individual pre-engineering degree concentrations is at the discretion of the director of pre-engineering programs, and will be contingent upon satisfactory academic performance. Students must have both a 3.0 G.P.A. in all mathematics, science and engineering courses, and a 3.0

G.P.A. overall, through the end of the semester prior to the semester in which registration takes place, in order to be permitted to register for engineering courses at Syracuse University for a given term. In addition, students must successfully maintain both 3.0 averages through the end of the term prior to the term in which the course(s) at Syracuse University are to be taken in order to be permitted to maintain that registration and take the course(s). Exceptions may be granted at the discretion of the program director.

- Biological Sciences (B.A.) and BioEngineering (M.S.) (p. 148)
- Environmental Science Systems (B.S.) and Environmental Engineering Science (M.S.) (p. 156)
- Computer Science (B.S.) with a Concentration in Pre-Engineering: Computer Science/Computer Engineering (p. 176)
- Chemistry (B.S.) with a Concentration in Pre-Engineering: Chemical Engineering (p. 167)
- Physics (B.S.) with a Concentration in Pre-Engineering: Civil with Geotechnical Focus (p. 273)
- Physics (B.S.) with a Concentration in Pre-Engineering: Civil with Structural Focus (p. 274)
- Physics (B.S.) with a Concentration in Pre-Engineering: Electrical Focus (p. 274)
- Physics (B.S.) with a Concentration in Pre-Engineering: Environmental Focus (p. 275)
- Physics (B.S.) with a Concentration in Pre-Engineering: Mechanical and Aerospace Focus (p. 276)

ENGLISH

Chair: Miles Taylor

Associate Chair: Maura Brady

Program Director: Kathleen P. Costello-Sullivan (of Irish Studies), Julie Grossman (of Film), David T. Lloyd (of Creative Writing), Nicole Weaver (of Writing)

Professor: Kathleen P. Costello-Sullivan, Michael Davis, Alan B. Fischler, Julie Grossman, David T. Lloyd, Roger D. Lund, Julie Olin-Ammentorp, Ann M. Ryan, J. Christopher Warner

Associate Professor: Maura Brady, James Hannan, Erin E. Mullally, Anca V. Munteanu, Phillip Novak, Miles Taylor

Professor of Practice: Jamey Graham, Nicole Weaver, Eugene B. Young

Adjunct Faculty: Timothy D. Burns, Patrick Lawler, Linda Pennisi

Professor Emerita: Elizabeth Hayes

Professor Emeritus: Patrick J. Keane, Cornelius Novelli

Writer-in-Residence: Patrick Lawler, Linda Pennisi

The Department of English offers two concentrations of study: literature and creative writing. Both of these courses of study are committed to the discovery of meaning and value in language—a commitment that is grounded in contemporary academic and professional concerns within English as well as in humankind's enduring traditions of self-expression, speculative inquiry, and social communication through literature and the rhetorical arts. In particular, the department's two concentrations are designed to involve students in challenging and rewarding encounters with literary works representing a variety of types and time periods; to expand students' awareness of the range, the subtlety, and the power of language; to help students develop their own expressive powers in language; to assist them toward increasingly mature syntheses of literature with other disciplines and life experiences; and to prepare students for careers, professions, and graduate study in which a command of the English language and literature are necessary.

Departmental Honors

In accord with guidelines approved by the academic dean, department chairs, and program directors (Fall 1988), the English Department offers degrees in honors for literary studies and for creative writing. These programs have been designed for:

- the student who excels primarily in the major and who deserves further challenge and recognition,
- the student who does not surface as honors material in time to join the Integral Honors Program and especially competent transfer students.

The chair will invite eligible students to apply for departmental honors by the junior year. Requirements for the degree include a 3.0 overall G.P.A. and a 3.5 G.P.A. in English Department courses.

Literary Studies

Students who choose to pursue the English honors degree in literary studies will complete and defend an honors project according to the following schedule:

Junior year: The candidate will define a topic, write a proposal, and choose a mentor who will guide him or her through the development of an honors project. While most students will choose to accomplish a lengthy research paper, some may decide to do a creative, artistic project.

The proposal should include: a topic or title, a thesis, a plan for accomplishment, and a working bibliography. This proposal needs to be approved by the mentor before the spring dates for fall registration; the student will then register for ENG 480 Honors Tutorial.

Senior year: The student works on the project with the guidance of the mentor. It is the student's responsibility to set up and keep a weekly appointment with the mentor and to work consistently toward the completion of the project. The mentor will send a brief progress report to the chair of the department at the end of the fall semester. The student may then gain permission to register for another three credits (ENG 480 Honors Tutorial) for the spring semester if doing so is useful and necessary.

By April 1, the student will give a copy of the completed project to each of the following: the mentor, the department chair, and the members of an oral examination committee (set up by the mentor, with the approval of the department chair).

With the help of the mentor, the student will arrange a place and time for the defense. The mentor will communicate that information to all members of the department and the director of the Integral Honors Program. This date should allow time for any revisions necessary after the defense. The mentor, in consultation with the chair and the project committee, will decide whether the candidate meets both departmental and school wide standards.

Honors Degree in Creative Writing

The English department also offers an Honors Degree in Creative Writing designed for:

- the student who excels in one or more creative writing genres;
- the student who deserves further challenge and recognition and especially competent transfer students.

The program director will invite eligible students to apply for honors in creative writing by the junior year. Requirements include a 3.0 overall G.P.A. and a 3.5 G.P.A. in creative writing program courses. Those accepted will enroll in CRW 480 Honors Tutorial in Creative Writing and work towards completion of a high quality manuscript of poetry, fiction, creative nonfiction, a play at least 50 pages, or mixed genres - the length to be determined by the honors mentor.

See also the general description of departmental honors programs above.

Dual Major in English and Communications

Dual majors in literature and communications and in creative writing and communications are available. Click the programs tab to view program details.

Student Learning Outcomes in Literature

Students who graduate from this program will be able to:

Literary Knowledge

Analyze literary texts using appropriate knowledge of genres, formal properties, and literary history

Contextual Insight

Articulate how literary works shape understanding of our own and other people's cultures, perspectives, and experiences

Effective Writing

Write Effectively using appropriate academic conventions and rhetorical skill

Critical Reading

Construct meaning by reading literary texts with appropriate critical skills, including careful observation, close reading, and sustained analysis

Critical Thinking

Evaluate texts and ideas in order to reach defensible conclusions

Problem Solving

Formulate and resolve meaningful problems appropriate to the study of language and literature

Student Learning Outcomes in Creative Writing

Students who graduate from this program will be able to:

Create and revise

Revise their creative writing using appropriate techniques and strategies.

Peer review

Evaluate the creative writing of peers to formulate suggestions for problem-solving and revision.

Complete a manuscript

Create a polished manuscript of creative writing that could be submitted to a journal or press for publication.

- English Major (p. 223)
- Dual Major in English Creative Writing and Communications (p. 225)
- Dual Major in English Literature and Communications (p. 227)
- English (B.A.) and Initial Teacher Certification Tracks (p. 228)
- Five-Year B.A./M.S.T. Programs (p. 230)
- Literature Minor (p. 230)
- Irish Literature Minor (p. 230)
- Creative Writing Minor (p. 230)
- Film Minor (p. 230)
- Medieval Studies Minor (p. 231)
- Advanced Writing Minor (p. 231)

Creative Writing (CRW)

CRW 384. Introduction to Writing Poetry. 3 Credit Hours.

This introductory creative writing workshop is devoted to the writing and revising of poems. We will explore writing techniques as well as writing samples by established authors, but most of our time will be devoted to critiquing student poems with an eye toward revision and improvement. Students will complete a final portfolio of poetry to be submitted at the end of term.

Cross-listed Courses: ENG 384

CRW 385. Creative Writing Workshop. 3 Credit Hours.

Intensive practice in the writing and criticism of poetry and fiction. Associated readings geared to the needs of the individual participant. Course can be repeated for credit. Fulfills Core requirement(s): VPA. Prerequisite: WRT 101.

Cross-listed Courses: ENG 385

CRW 386. Introduction to Playwriting. 3 Credit Hours.

A workshop that introduces students to the techniques of dramatic writing. In our explorations of structure, dialogue and methods of characterization, students begin by writing one- to two- page exercises, advance to outlines for plot and character and finally write a ten-minute play which is performed in class. Fulfills Core requirement(s): VPA. Prerequisite: WRT 101.

Cross-listed Courses: THR 386, ENG 386

CRW 387. Scriptwriting. 3 Credit Hours.

This course provides study and practice in the special requirements of writing fictional works for television and film. This course will focus on: basic dramatic structures and story telling, the premise, the pitch, character development, writing the treatment, story outlines, writing the master scene and completing the script. At semester end, students are expected to produce full-length tele-plays, radio dramas or film scripts. Fulfills Core requirement(s): VPA. Prerequisite: WRT 101.

Cross-listed Courses: CMM 387, ENG 387

CRW 388. Writing Green: Poetry, Fiction, and Our Place in the World. 3 Credit Hours.

This introductory creative writing workshop encourages students majoring in any discipline to explore the physical world in which we live and the current environmental crisis through their own poetry and fiction, as well as through study of works by diverse modern and contemporary environmental writers. The course subtitle includes the phrase "our place in the world," referring to the study of "place" or the physical environments where humans live, as well as our "place" in the sense of the role humans play, or might play, in shaping the world in which we live. No previous creative writing experience necessary. This course can substitute for CRW 385 or CRW 386 as a prerequisite for upper level creative writing courses. Because of the emphasis on creative responses to physical environments, the course can include field trips and could be taught in a study abroad setting. Prerequisite(s): WRT 101 or equivalent. Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: ENG 388

CRW 390. Independent Study. 1-3 Credit Hours.

A student who wishes to pursue an independent project for academic credit must submit, prior to registration, a proposed plan that includes a description of the project and its goals, the methods to be followed, a schedule of work and supervision, an evaluation procedure and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the dean of arts and sciences. It will be kept on file in the dean of arts and sciences' office. An independent study concentrating on writing may be used to fulfill part or all of the creative writing curriculum requirement for 9 hours of writing workshops. Fulfills Core requirement(s): VPA.

CRW 391. Advanced Poetry Workshop. 3 Credit Hours.

A poetry writing workshop for students who have completed the introductory creative writing workshop or who can demonstrate advanced creative writing abilities. The course requires a close study of poems by major modern and contemporary authors and may include exercises in traditional forms. Fulfills Core requirement(s): VPA.
Prerequisites: WRT 101 and CRW/ENG 385.

Cross-listed Courses: ENG 391

CRW 392. Advanced Fiction Workshop. 3 Credit Hours.

A fiction writing workshop for students who have completed the introductory creative writing workshop or who can demonstrate advanced fiction writing ability. The course requires the reading of major modern and contemporary authors, weekly short writing assignments and the writing of an extended work of prose fiction or a linked series of short stories. Fulfills Core requirement(s): VPA.
Prerequisites: WRT 101 and CRW/ENG 385.

Cross-listed Courses: ENG 392

CRW 395. Nonfiction Writing Workshop. 3 Credit Hours.

A workshop that will introduce students, through reading of contemporary writers and weekly short writing assignments, to the many varieties of creative nonfiction, including the personal essay, memoir, travel writing, the lyric essay, the portrait, and the political essay. We'll engage the eternal concerns and debates of nonfiction writing, including: what it means to tell the "truth," representing the "I" or first-person narrator as a character, telling other people's secrets, the (un)reliability of memory, etc. We'll learn how to use traditional fiction techniques (scene, character, setting, dialogue) in nonfiction, as well as practice techniques more typically seen in creative nonfiction, such as enacting on the page the writer's "story of thought." On occasion this writing workshop will be offered with a particular focus, such as writing about science, family, or sports. The focus will be announced in advance of registration.
Prerequisite: WRT 101.

Cross-listed Courses: ENG 395

CRW 480. Honors Tutorial in Creative Writing. 3 Credit Hours.

CRW 480 Honors Tutorial in Creative Writing is the course students must register for to complete an Honors Degree in Creative Writing. The course is designed for the student who excels in one or more creative writing genres, and who deserves further challenge and recognition. By the end of their junior year at the latest, qualified CRW program concentrators and minors will be invited to pursue a CRW honors degree. Applicants will be required to have a 3.0 overall GPA and a 3.5 GPA within Creative Writing Program courses. Those accepted will work towards completion of a high quality manuscript of poetry (at least 30 pages), fiction, creative nonfiction, or a play (at least 50 pages), along with an Introduction of between 5-10 pages. Multiple genre manuscripts are acceptable, with the length to be determined by the instructor. Students may complete this honors manuscript either while taking their 4th CRW advanced or genre specific workshop during their senior year (in which case they would participate in regular workshop activities but meet additionally with the instructor regarding the honors project) or while working individually with an instructor. Students must undertake a "defense" of their creative project before a designated CRW honors program committee (the defense may include a public reading or, in the case of a play, a public performance). The student may gain permission to register for another three credits of ENG 480 if doing so is useful and necessary. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

English (ENG)

ENG 010L. Fundamentals of English Lab. 0 Credit Hour.**ENG 105. Introduction to Theatre. 3 Credit Hours.**

A survey of theatre art, past and present, with a behind-the-scenes examination of the concepts and personnel involved in its creation. Class projects are intended to give students introductory experience with playwriting, acting, directing, design and theatre criticism. Fulfills Core requirement(s): VPA.
Cross-listed Courses: THR 105

ENG 201. Fundamentals of Speech. 3 Credit Hours.

Essentials of voice production, oral interpretation, speech organization and use of supporting materials; preparation and delivery of speech materials; group and panel discussion. Prerequisite or Corequisite: WRT 101.

Cross-listed Courses: CMM 201

ENG 203. Classical Mythology. 3 Credit Hours.

No knowledge of Latin or Greek is required. The common repertory of myths from Greek and Roman sources is studied. Attention is also given to the influence of these myths in both ancient and later times, especially on literature and art.
Prerequisites: WRT 101, and ENG 200, ENG 210 or ENG 218.

Fulfills: Period (Pre 1789) requirement.

Cross-listed Courses: CLS 203

ENG 204. Classical Lit in Translation. 3 Credit Hours.

Selected readings and discussions of important works from ancient literatures.
Prerequisite: WRT 101, and ENG 200, ENG 210 or ENG 218.

Fulfills: Period (Pre 1789) requirement.

Cross-listed Courses: CLS 204

ENG 205. COR: Conversations. 1 Credit Hour.

This 1-credit course invites students to reflect upon the art and power of conversation. We will explore the ingredients that distinguish a successful conversation, and we will reflect upon the consequences—personal, political, and cultural—of conversations gone awry, never had, or destructive in nature. Finally students will attend events sponsored by Student Development, as well as those hosted by the Visual and Performing Arts department, the Film Program, and the Creative Writing Program at Le Moyne. We will use these events as opportunities to engage students in conversations about issues of diversity both on the campus and in the world beyond Le Moyne. This course will offer students a vehicle for talking about art, diversity, and community, as they hone their skills as practitioners in the art of conversation. Fulfills Core Requirements: Visual and Performing Arts (VPA) and Diversity (DIV).

ENG 205A. Conversations: Art & Disability. 1 Credit Hour.

In this course, we will study and discuss art made by—and about—people with disabilities, from photography and painting to literature and films. Our discussions will consider the emotional and psychological responses these works elicit (wonder, fear, curiosity, laughter, etc.); the kinds of stories they tell; how they avoid, play into, or work around stereotypes; and the power dynamics they generate between artist, subject, and audience. In the process, we will practice and develop the skills necessary for thoughtful, productive conversations. Course will meet from August 30th–November 1st. Course fulfills Core Requirement(s): Visual and Performing Arts(VPA) and Diversity (DIV).

ENG 205B. Conversations: The Photographic Portrait. 1 Credit Hour.

There are probably more pictures of human faces in the world than there are actual human faces. Because of their omnipresence, photographic portraits and self-portraits can seem simple and direct. Point and shoot, right? We often evaluate such pictures with one question: Do I look good? But pictures of faces are more complex than we usually imagine. In this course, in which the main goal is to practice the art of conversation, we'll talk about those complexities, as we discover them in portraits and self-portraits of all kinds: yearbook portraits, family portraits, glamorous portraits, death portraits, erotic portraits, and even mugshots. We'll dig into such questions as these: what can or does a portrait reveal about its subject? what does it hide? what are the artistic, cultural, political, and economic reasons for portrait-taking? what do we intend when we take pictures of ourselves? and what are the power relationships that might exist between photographer, subject, and viewer? Course will meet from August 29th–November 7th.

Fulfills Core Requirement(s): Visual and Performing Arts(VPA) and Diversity (DIV).

ENG 205C. Conversations: Race & Music in America. 1 Credit Hour.

This course will explore the complicated role that race plays in the history of American music. Beginning with music from the Civil War period (work songs, sorrow songs, soldier's songs etc.) we'll talk about how our history has been represented—and sometimes misrepresented—in a variety of musical forms and genres. We'll also discuss how racial identity has been expressed, exploited, and sometimes created using music. Finally, we'll explore how music forms community along racial lines, and how it occasionally does so over and beyond them. Although we will spend time learning some of the history of race and music in America, we'll also be developing our ability to speak about race honestly, constructively, civilly, and intellectually. In other words, we'll be as focused on smart speech as we are on free speech. Students will be asked to bring examples of music to the class, and they will be required to attend performances on and off campus. Course will meet January 22–April 12.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA), and Diversity (DIV).

ENG 205D. Conversations: Images of Indians, Moving Beyond the Stereotypes. 1 Credit Hour.

When thinking of Indians, most people believe they have a clear sense of what an Indian looks like, and it usually includes feather headdresses, face paint, buckskin, and a horse. This class will allow us to explore how non-Indian peoples came to this (mis)understanding by studying and conversing about representations of Indians in paintings, photography, film and other forms of visual media, most of which were created by non-Indian peoples. We will look at works by native artists that challenge the commonly accepted view of what a "real" Indian looks like and how a "real" Indian acts. The course will run Jan. 23–April 2.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA), and Diversity (DIV).

ENG 205E. Conversations: Eating American: Food and Culture in Dialogue. 1 Credit Hour.

Food has been the source of conversation and cultural exchange across centuries and continents. Knowing about food and knowing how to talk about food helps us to challenge and transform cultural boundaries. Such active engagement with food cultures not only allows us to foster unity in diversity but also matures our mind and palate. We learn what we eat and why and how we eat. This course is primarily designed to help us learn how to engage in constructive conversation about food, eating, and cooking in America. Since the USA is often described as a melting pot or a salad bowl, such an engagement must involve learning (to talk) about the tremendous diversity of cuisines, ingredients, food cultures, and culinary histories that surround us. We will talk about ways in which we can present food with meticulous attention to beauty and detail. Keeping in mind that cooking is also performance art, the course incorporates preparing and presenting dishes designed by students. The grand finale will be a multi course meal served to selected members of the Le Moyne Community. Course will meet full semester.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA) and Diversity (DIV).

ENG 210. Major Authors. 3 Credit Hours.

These courses provide students with an intensive study of the work of a major author such as Borges, Dante, Dickens, Homer, Morrison, Ovid, Rushdie, Shakespeare, Twain or Woolf, as well as the cultural and historical context from which the work emerges. Students will be expected to develop a critical vocabulary for analyzing these texts and to demonstrate their understanding of the material through class discussions, presentations and critical writing. Writing instructional. Prerequisite: WRT 101.

Cross-listed Courses: HON 111

ENG 218. Critical Perspectives on Literature. 3 Credit Hours.

A critical introduction to the study and enjoyment of literature. Students will read, discuss and write about a variety of genres including works of fiction, poetry and drama from a range of cultures and historical eras, many of them by women and minority authors. In addition to instruction in the critical terms and conventions of literary study at the college level, the course emphasizes intensive critical writing based on the close readings of texts and an understanding of the variety of interpretive questions and critical perspectives that these texts invite.

Prerequisite: WRT 101.

ENG 301. Advanced Grammar and Usage. 3 Credit Hours.

A study of the nature and structure of language through a review of the traditional, structural, and transformational grammars and their specific applications to modern English, to language skills, and to teaching.

Prerequisite: WRT 101.

Fulfills: Topic requirement.

ENG 302. The Western Drama Tradition. 3 Credit Hours.

A study of major periods of theatrical development from the Greeks and Romans through the eighteenth century, with emphasis on dramatic literature in relation to performance conditions and cultural backgrounds.

Prerequisite: WRT 101 and ENG 210, ENG 218 or HON 111.

Fulfills: Genre requirement.

Cross-listed Courses: THR 302

ENG 304. The History of Criticism. 3 Credit Hours.

An introduction to modern literary theory and the major movements in literary criticism. Readings include selections from Aristotle, Horace, Sidney, Coleridge, Arnold, Eliot, DeMan, Barthes, Fish and Eagleton.

Prerequisites: WRT 101, ENG 218.

Fulfills: Topic requirement.

ENG 305. Eng Lit Survey I: thru Milton. 3 Credit Hours.

A survey of English literature of the Old English period, the Middle Ages, and the Renaissance, including the major work of Milton. Required for English majors.

Prerequisites: WRT 101, ENG 218.

ENG 306. Eng Lit Survey II: Rest-Present. 3 Credit Hours.

A survey of English literature from the Restoration, through the 18th and 19th centuries, to the present. Required for English majors.

Prerequisites: WRT 101, ENG 218.

ENG 307. The Epic. 3 Credit Hours.

A study of selected epics and works in the epic tradition, e.g., "Iliad," "Odyssey," "Aeneid," "Divine Comedy," mock epics, with attention not only to literary forms but also to theories of epic and to cultural contexts.

Prerequisites: WRT 101, ENG 218.

Fulfills: Genre requirement.

ENG 309. American Culture & Art of Johnny Cash. 3 Credit Hours.

Students will be asked to engage in an interdisciplinary investigation of the varied contexts—media, religious, political, historical, economic and geographic—that helped define the creative world of Johnny Cash, a major songwriter and musician. Fulfills Core: Visual and Performing Arts (VPA) requirement.

Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills: Topic requirement.

Cross-listed Courses: CMM 309

ENG 310. Literature and Culture. 3 Credit Hours.

This interdisciplinary course explores a period or movement in intellectual and/or cultural history. It may also focus upon transformative texts, events, or characters as they engage these movements and moments. This course will invite students to engage in a dialogue between disciplines and ideas using literary texts both as the primary source for inquiry and the medium through which ideas are imagined, articulated, and contested. Students will explore the ideas, events, and literary genres that frame the particular intellectual issue or historical moment, while also engaging the varied contexts that inform a work of literature.

Prerequisites: WRT 101, ENG 210.

Cross-listed Courses: HON 225

ENG 311. English Literature: An Overview. 3 Credit Hours.

This course provides an overview of the history of English literature. The course will address most literary periods, covering a variety of genres (drama, poetry, fiction and non-fiction prose). The main text for the course will be The Norton Anthology of English Literature: The Major Authors.

Required for Theatre Arts majors.

Prerequisites: WRT 101, ENG 218.

ENG 312. Chaucer. 3 Credit Hours.

The study of the major works of Chaucer. No prior knowledge of Middle English needed.

Prerequisites: WRT 101, ENG 218.

Fulfills: Period (Pre 1789) requirement.

ENG 313. Medieval Quests and Romances. 3 Credit Hours.

A selection of outstanding literature of medieval times, including works by Dante, Marie de France and Chaucer along with many writers who remain unknown; emphasis on the way that medieval themes and materials crossed geographical and linguistic borders.

Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills: Genre requirement.

ENG 314. Advanced Grammar II. 3 Credit Hours.

This course is a continuation of Advanced Grammar to be offered as an elective during the summer sessions. Picking up where Advanced Grammar concludes, Advanced Grammar Part Two will assess syntactic structures beyond the level of the single clause, continue reviewing the parts of speech, and focus more intensively on the uses of punctuation. We will diagram increasingly complex sentences and use this skill to identify and correct errors in sentences from student writing and published work.

Prerequisite: ENG 301.

Fulfills: Topic requirement.

ENG 316. Medieval Literature. 3 Credit Hours.

A study of selected major prose, poetry and/or drama of the English medieval period, with attention to classical, continental and religious influences, as well as relevant historical contexts. This course will variously focus on Old English literature, including Beowulf, Old English shorter poems and saint's lives, the works of Bede, Aelfric, Wulfstan and/or Asser, as well as Middle English literature, including the works of Chaucer, Gower, the Gawain-poet, Langland, Julian of Norwich, Margary Kempe, Layamon, anonymous romances, lyrics, sermons and plays. Any one of the following themes might be focused on, in any given semester: dreamers and dream visions, love and war, faith and pilgrimage, gender and chivalry monsters and heroes.

Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills: Period (Pre 1789) requirement.

ENG 317. Renaissance Literature. 3 Credit Hours.

A study of selected major prose and poetry of the English Renaissance, with attention to continental influences and relevant contexts. This course will variously focus on the works of Sidney, Spenser, Shakespeare (the sonnets), More, Erasmus, Marlowe, Jonson, Donne, Herbert and/or Marvell.

Prerequisites: WRT 101, ENG 218.

Fulfills: Period (Pre 1789) requirement.

ENG 318. Shakespeare. 3 Credit Hours.

A study of selected works by Shakespeare toward developing a critical appreciation of his plays in particular. The course emphasizes close readings of Shakespeare's texts and analyses of the relationship between playscript and performance, in addition to providing instruction in conducting library research on literary topics.

Prerequisites: WRT 101, ENG 218.

ENG 319. Elizabethan and Jacobean Drama. 3 Credit Hours.

The course will focus on popular non-Shakespearean plays written and performed in England during the late 16th and early 17th centuries. Special attention will be given to comedic and tragic traditions and to issues of class, politics and gender.

Prerequisites: WRT 101 and ENG 200 ENG 210 or ENG 218.

Fulfills: Period (Pre 1789) requirement.

Cross-listed Courses: THR 319

ENG 320. Documentary Film. 3 Credit Hours.

Emphasis on the study of important documentary filmmakers, influential documentaries, and major schools of documentary film, as well as issues such as the role of the documentary filmmaker, the notion of objectivity in documentary, ethics in filmmaking, and the influence of the camera.

Fulfills: Genre requirement.

Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills Core Requirement(s): VPA.

ENG 322. Journalism and American Literature. 3 Credit Hours.

This course will survey the rich history of American journalists who have either produced creative works or who have relied upon literary techniques in their journalistic endeavors. Beginning with Thomas Paine and Benjamin Franklin, the course will move through the revolutionary period of essayists and pamphleteers, proceed to the nineteenth century and the romantic writings of political activists like Margaret Fuller and Henry David Thoreau, and the realist and naturalist fictions of writers like Mark Twain, Stephen Crane, and Charlotte Perkins Gilman. The course will end by surveying the works of black and white writers of the early twentieth century—W.E.B. Dubois, Zora Neale Hurston, Ernest Hemmingway, and H.L. Mencken—who negotiate their critiques of modern American culture and political life both as journalists and creative writers. Throughout the course, we will be exploring the relationship between the world of the American journalist and his or her subsequent influences upon American literature.

Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills: Topic requirement.

Cross-listed Courses: CMM 314

ENG 324. Milton in Context. 3 Credit Hours.

Celebrated today for his epic poem Paradise Lost and for an astonishing body of lyric and dramatic poetry, John Milton was known during his own time as a writer of controversial prose. As a cabinet member in the Commonwealth government (1649-1660), he wrote about such topics as tyranny, censorship, and religious freedom before composing most of the poems that made him famous. This course will consider Milton's poetry and prose, and the contexts that influenced its production, reception, and interpretation. Its focus will shift from one semester to another, as different works and contexts are emphasized. This fulfills the pre-1789 period elective category.

Prerequisites: WRT 101 and ENG 210.

ENG 325. Post-Colonial Literature & Theory. 3 Credit Hours.

This course will introduce students to theories of colonialism through the study of world literatures. What is the impact of colonization on a culture? How do questions of language, race, class, and gender impact the experience of colonialism? Students will read novels and short works from a variety of formerly subject nations, including India, Nigera, Egypt, and Ireland. Short segments of theory will guide and accompany these readings. Fulfills: Topic requirement.

Prerequisites: WRT 101 and ENG 210, or ENG 218.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PGS 314, GWS 314

ENG 326. 19th C English and Irish Women Writers. 3 Credit Hours.

This course will examine literature produced by English and Irish women, respectively, during the 19th C. In particular, we will attend to the ways in which issues of particular concern to women from these respective yet interconnected nations are engaged in similar but also divergent ways. The course will not seek to apply some universal standard applicable to women from both nations, nor is its intent to substantiate any false binaries. Rather, the interest is to consider how aesthetic and narrative differences reflect differing social contexts; how the close interactions between these nations inflect the respective literary canons; how women from these nations represent one another; and how gendered issues may or may not affect, and be affected by, wider national views. Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills: Period (Post 1789) requirements.

Cross-listed Courses: GWS 326

ENG 327. Harlem Renaissance. 3 Credit Hours.

This course will explore the fiction, music, art, and the political and philosophical writing that emerged during the period known as The Harlem Renaissance. We will begin by tracing the historical developments that made possible the formation of Harlem as both a place and an idea. Beginning with the writing of Frederick Douglass and Sojourner Truth, we will listen to nineteenth century Black voices as they set the stage for even more complex expressions of Black identity, citizenship, and culture. We will debate W.E.B. Dubois' claim that race is a product of "blood and culture" and we will explore the ways in which various Black artists interpret that complicated idea. We will also trace the ways in which Black culture- both the high art of salons and galleries and the popular culture of speakeasys and clubs-participated in trying to solve the 'problem' of being-as Louis Armstrong sang it- both "Black and Blue." Finally, we will listen carefully to the powerful voices of artists such as Zora Neale Hurston who celebrate their racial identity and who invite us- Black, White, Brown, and Yellow- to join in that celebration. Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills: Topic requirements.

ENG 329. Literary Paris. 3 Credit Hours.

Students will read a range of texts (both fiction and non-fiction) set in Paris, focusing on the experience of Americans in Paris. Texts include memoirs by Ernest Hemingway, Adam Gopnick, and a range of African-American writers, and fiction by Edith Wharton, Tracy Chevalier, and others. The course will also include an introduction to the culture, history, art, and landmarks of the city. The course concludes with an eleven-to-twelve day visit to Paris. Additional fees will be required. Fulfills: Period Post 1789 requirement. Prerequisite: WRT 101.

Fulfills Core Requirement: Visual and Performing Arts (VPA)).

ENG 331. Literary New England. 3 Credit Hours.

Explore literary New England by reading and traveling! In this course we'll read works by several New England authors primarily from the 19th century, chose from among the following: Ralph Waldo Emerson, Henry David Thoreau, Nathaniel Hawthorne, Louisa May Alcott, Emily Dickinson, Harriet Beecher Stowe, Sarah Orne Jewett, Linda Brent, Edith Wharton, and Mark Twain. In addition, we'll travel to the homes of most of these authors during a weekend trip to Concord, Massachusetts and possibly other sites. Many of the texts we'll be reading focus on the idea of home and the domestic sphere, reinforcing the connection between our readings and our travels. (EXTRA COURSE FEE FOR WEEKEND TRIP WILL APPLY; APPROX. \$400.) Prerequisites: ENG 210/ENG 218.

Fulfills: Topic requirement.

ENG 333. Restoration & 18th Century Lit. 3 Credit Hours.

Selected works of Restoration and eighteenth century literature, including works by Congreve, Dryden, Pope, Swift, Johnson, Gray, Collins, Burke and Burns. Prerequisites: WRT 101, ENG 218.

Fulfills: Period (Pre 1789) requirement.

ENG 336. The 18th Century Novel. 3 Credit Hours.

An examination of themes and styles in significant novels by major authors (e.g. Defoe, Richardson, Fielding, Sterne and Austen) with selected critical readings. Prerequisites: WRT 101, ENG 218.

Fulfills: Genre requirement.

ENG 338. Writing in the Real World. 3 Credit Hours.

This course calls on the practices of professional and business communication to offer students practice with writing in "real world" contexts. In this class, students will develop strategies for responding to professional and community-based writing scenarios, reaching internal and external audiences, designing both print and digital/online texts, and composing application materials. Students will engage writing and revision processes, provide feedback to peers, compose collaboratively as part of a team, and learn the standards and conventions of non-academic communication. The genres students encounter may include memo, letter, e-mail, resume, cover letter, flier, pamphlet, and website. The course will also address digital-visual communication tools including Twitter, PowerPoint, and other emerging platforms. Prerequisites: WRT 101, and ENG 200, ENG 210 or ENG 218.

Cross-listed Courses: CMM 338

ENG 344. Comedy. 3 Credit Hours.

This course will explore theories of comedy and humor and examine some representative comedic works in drama, film, and fiction. We will begin with early theories of humor and laughter in essays by Henri Bergson, George Meredith, and Sigmund Freud and contrast their ideas with those of later writers, with special attention to Mikhail Bakhtin's analysis of the carnivalesque. We also will read into formalist theories of comedy as dramatic genre, focusing primarily on Northrop Frye. Concurrently, in our literary readings, we will trace the development of comedy from its Greek and Roman stage origins, through the early modern era, and into the modern age, where we will expand our view from theatre to include cinema and the comic novel. Along the way, I expect that beyond understanding comedy as what makes us laugh and developing a sense of comedy as a distinctly recursive genre, we will also explore the comedic worldview as a *modus vivendi*—a way of being in the world. Our objectives, then, are to know the comic as a spirit and comedy as a genre, and to investigate what makes us laugh.

Fulfills: Genre requirement.

ENG 346. Victorian Poetry and Prose. 3 Credit Hours.

This course examines the poetry and non-fiction prose of the Victorian period, which begins with the passage of the First Reform Bill in 1832 and runs concurrently with the reign of Queen Victoria from 1837 to 1901, a period that saw a general shift away from the Romantic emphasis on individualism and subjectivism to a new emphasis on social life and social concerns, including the role of women in both private and public life; that witnessed a comparable shift away from the sanctity of nature to a new emphasis on the discoveries of natural science, including those of Charles Lyell and Charles Darwin; and that marked the unprecedented expansion of British industry and the utmost extension of the British Empire. The course will explore these developments as well as other developments in religion, art, culture and the Victorian imagination in the poetry of Tennyson, Arnold, the Brownings, the Rossettis, Swinburne, Meredith, and Hardy, as well as the non-fiction prose of Carlyle, Hazlitt, Darwin, Marx, Mill, Arnold, Ruskin, Pater, and Wilde, and/or others representative of the period.

Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills: Period (Post 1789) requirement.

Cross-listed Courses: GWS 346

ENG 347. The Victorian Novel. 3 Credit Hours.

An examination of the Victorian novel, addressing the following issues: the ways in which Victorian novels recall and revise romanticism and look forward to modernity; the influences of science, evolution, and industry on the content and form of the novel; representations of domesticity and the attempts of women novelists to rewrite or redefine heroism and tragedy; and Victorian preoccupation with the past, as it affects narrative notions of character and conceptions of literary history. Authors treated include Charlotte Bronte, Emily Bronte, Charles Dickens, Thomas Hardy and George Eliot.

Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills: Genre requirement.

Cross-listed Courses: GWS 347

ENG 350. Amer Lit Survey I: to Civil War. 3 Credit Hours.

Significant works of the major figures in American literature from the Colonial period to the Civil War. Authors treated include Franklin, Irving, Emerson, Hawthorne, Poe, Thoreau, Melville and Whitman.

Prerequisites: WRT 101, ENG 218.

ENG 351. Am Lit Survey II: CivWar-Present. 3 Credit Hours.

Significant works of major American writers from 1860 to the present. Authors treated include Dickinson, James, Wharton, Faulkner, Hughes, Rich, Morrison and many others.

Prerequisites: WRT 101, ENG 218.

ENG 352. Introduction to Children's Literature. 3 Credit Hours.

An introduction to literary works written for children, with special emphasis on developing skills for the critical analysis of children's literature and for incorporating it effectively into the school curriculum at different grade levels.

Prerequisites: WRT 101, ENG 218.

Fulfills: Topic requirement.

ENG 355. Transcendental Literature. 3 Credit Hours.

A study of the key writers and texts of the 19th-century American transcendental movement. Authors treated include Margaret Fuller, W. H. Charming, Emerson, Thoreau, Hawthorne, Melville, Whitman and Dickinson. Transcendentalism is seen as a partial reaction against 18th-century rationalism, the skeptical philosophy of Locke and the confining religious orthodoxy of New England Calvinism.

Prerequisites: WRT 101, ENG 218.

Fulfills: Period (Post 1789) requirement.

ENG 356. Nature: An Introduction to Wonder. 3 Credit Hours.

In a world obsessed with "connectivity," many people are, paradoxically, becoming less connected with nature, that is, with the entire natural world in which they live. This course endeavors to raise students' awareness and appreciation of the natural world of which we are all a part, using experiential, scientific, and humanistic approaches. Students will be challenged to assess and improve their own familiarity with nature and to discover or re-discover wonder, both in their own experiences of nature and in the writings and scientific studies of others. While lecture will be used to present some of the material, discussion based on material read or observations of nature will be a major component of the course, as will field experiences in nature. Junior standing required.

Prerequisite: COR 100.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: BSC 356

ENG 358. Representations of the Media in Film. 3 Credit Hours.

This course is designed to explore ways in which films present myriad images of the mass media when they take as their subject matter the news, documentaries, radio, television, and the film industry itself. The course will develop students' understanding of the nature and function of mass media in American culture and the relationship between power structures and representations of gender in media industries.

Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills: Topic requirement.

ENG 361. Modern British Fiction. 3 Credit Hours.

A study of the fiction of Conrad, Lawrence, Woolf, Forster, Joyce and other major British authors from about 1900-1940.

Prerequisites: WRT 101, ENG 218.

Fulfills: Period (Post 1789) requirement.

ENG 364. Modern American Fiction. 3 Credit Hours.

A study of American fiction of the modernist period (roughly 1915-1950), including representative works by many of the major fiction writers, e.g. Wharton, Faulkner, Glasgow, Hemingway, Hurston, Fitzgerald, Wright. Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills: Period (Post 1789) requirement.

Cross-listed Courses: GWS 354

ENG 365. Modern British and American Poetry. 3 Credit Hours.

A study of modern poetry from its earliest practitioners (Whitman, Dickinson, Hardy and Hopkins) through to contemporary poets. Emphasis is on the continuities and discontinuities between traditionalist and modernist values and techniques in the major British and American poetry of the 20th century. Prerequisites: WRT 101, ENG 218.

Fulfills: Genre requirement.

ENG 367. Yeats. 3 Credit Hours.

This study of the work of William Butler Yeats places paramount emphasis on the poetry. Some knowledge of the historical and literary context will be required. Prerequisites: WRT 101, ENG 218.

Fulfills: Topic requirement.

ENG 368. Modern American Drama. 3 Credit Hours.

A survey of the major playwrights beginning with O'Neill and normally including Maxwell Anderson, Rice, Odets, Miller, Albee, Wilder, Saroyan and Williams. Prerequisites: WRT 101 and ENG 210 or ENG 218.

Fulfills: Genre requirement.

Cross-listed Courses: THR 368

ENG 369. Modern European Drama. 3 Credit Hours.

A study of representative plays of European dramatists from the mid-19th century to the mid-20th centuries. Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills: Genre requirement.

Cross-listed Courses: GWS 357, THR 369

ENG 370. American Film Abroad: Il Cinema Ritrovato (Bologna Film Festival). 3 Credit Hours.

This course focuses on a 9-10 day trip to Bologna, Italy in June/July of each year to attend the Cinema Ritrovato, an international film festival focused on American silent and sound film and music. The Festival specializes in screening classic films that have restored in Bologna at the Cineteca di Bologna, a major site for the film restoration in the world. Students will attend many screenings each day and evening of the Festival, as well as participate in group meetings with the instructor to analyze film and discuss and write about the events, such as the silent film/live music events taking place throughout the week at night in the central square of Piazza Maggiore. The students will have the unique opportunity to watch celluloid films as part of events introduced by film scholars, filmmakers, and/or restoration technicians. In the spring semester at Le Moyne, students will attend meetings with the instructor every two weeks and attend and write about two required film events. Enrollment by permission of the instructor. Course may be repeated once. Prerequisite: Sophomore standing.

ENG 371. Critical Approaches to Film. 3 Credit Hours.

An introduction to film genre, genre theory and film criticism, the course will examine the generic conventions that govern production and reception of film texts. Film genres may include the screwball comedy, the melodrama, the western, the musical, the gangster picture, film noir and others. Fulfills: Genre requirement. Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills Core Requirement(s): VPA.

Cross-listed Courses: CMM 380, THR 371, GWS 351

ENG 372. History of Film: Beginnings to 1940. 3 Credit Hours.

This course will survey major developments in cinema from the advent of the medium near the end of the nineteenth century, through the emergence of a syntax for narrative film during the silent era, to the arrival and entrenchment of the sound film in the late 1920s and early 1930s. The nature of the course is such that our concerns will be manifold, but they will surely include attention to the following: the work of several pioneers of the medium-the Lumiere brothers, Thomas Edison (and his major collaborator William Kennedy Laurie Dickinson), George Melies, and Edwin S. Porter; D. W. Griffith's central role in the creation of a "language" for moving images and his equally significant role in turning film into a popular medium; some of the formal experiments that took place in Germany in the 20s-German expressionism, in particular, as well as the Kammerspielfilm; Soviet montage; French impressionism and surrealism; the great Hollywood comics of the 20s; the development of sound technology and its impact on film form; the importance of genre in the development of the film industry; and French poetic realism. Without scanting attention to such historical matters, we will also, however, want to engage particular film texts: thus much of our time in class will be spent discussing individual films. Fulfills Core requirement(s): Visual and Performing Arts (VPA). Prerequisites: WRT 101 and ENG 200, ENG 210, ENG 218 or HON 111.

Cross-listed Courses: CMM 381, THR 372

ENG 373. History of Film: 1940 to Present. 3 Credit Hours.

A study of the development of film since 1940. The course will examine social, technical, and artistic aspects of important films by influential directors, addressing in particular the well-made Hollywood film, Italian neo-realism, French new wave, and the rise of auteurism. Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Fulfills Core Requirement(s): VPA.

Cross-listed Courses: CMM 382, THR 373

ENG 378. The Films of Alfred Hitchcock. 3 Credit Hours.

In this course, we will examine whether Hitchcock's films can be said to constitute a coherent "body" of work - identifying in the process potential stylistic idiosyncracies and thematic preoccupations. And we will try to come to some understanding of what is gained and what lost by thinking in these terms. We will use Hitchcock's desire to develop a rigorously cinematic mode of presentation as a means of opening a discussion about the ways films "speak". And we will wonder, along with a handful of contemporary critics, what kind of viewer the films seek to construct. We will take the films' explicit interest in watching as a point of departure for an analysis of voyeurism and its centrality in contemporary western culture. Finally, and not incidentally, we will use the occasion the course provides to spend time watching a number of engaging films. Fulfills core Visual and Performing Arts requirement. (VPA)
Prerequisites: WRT 101 and ENG 200 or ENG 218.

Fulfills: Topic requirement.

Cross-listed Courses: CMM 383, GWS 359

ENG 379. Practicum in English. 3 Credit Hours.

This course will provide the student who intends to pursue graduate study in English with an intensive review of some of the basic content areas in English literature while also advancing the student's research skills. The student will work closely with an instructor analyzing the pedagogical issues surrounding particular texts, discussing techniques for eliciting the most effective papers, and determining ways to make literary works both affecting and relevant. Not only will the student provide tutorial assistance to other students, he or she will also pursue a research project related to the content area of the class under the guidance of the instructor. This course is available only to English literature concentrators. Students will be assigned to professors teaching in the departments
Prerequisite: WRT 101 and ENG 218.

ENG 380. Literature by Women: 17th-19th Century. 3 Credit Hours.

The works of English and American women writers from the 17th through the 19th century. Covers a wide survey of authors, including complete novels by Fanny Burney, Jane Austen, Charlotte Bronte and George Eliot.
Prerequisites: WRT 101 and ENG 200 or ENG 218.

Fulfills: Topic requirement.

Cross-listed Courses: GWS 380

ENG 381. Women As Art/Women As Artists. 3 Credit Hours.

Working with the subject/object distinction made in the visual arts by thinkers like John Berger and Laura Mulvey, this class begins by examining texts in which women are portrayed as beautiful objects, then moves to texts in which women create their own artworks. In all of these works, questions of power, agency, and creativity are central. We will read novels such as Edith Wharton's *The House of Mirth*, Tracy Chevalier's *Girl with a Pearl Earring*, and Mary Gordon's *Spending*, along with A.S. Byatt's *The Matisse Stories* and a number of other short works. The course also includes art history relevant to the works being studied, and when possible, visits by artists and a trip to museums in New York City. English majors: this counts as a Topics course.
Prerequisites: WRT 101 and either ENG 200, ENG 210 or ENG 218.

Fulfills: Topic requirement.

Cross-listed Courses: GWS 381

ENG 382. African-American Literature. 3 Credit Hours.

An introduction to the wide range of African-American literature from slave narratives to present-day authors. Issues include the relation of African-American culture to dominant Anglo culture; the influence of slavery on the lives of African-Americans; African-American self-perception; the roles of gender and economic status. Authors may include Douglass, Jacobs, Chesnutt, Hurston, Hughes, Brooks, Wright, Morrison, Naylor and others. English majors earning certification in Adolescent and Dual Adolescent/Special Education will also study and practice curriculum design and instructional strategies that connect the course's content to today's multi-cultural classrooms. Only English may satisfy the EDU 303 teacher certification requirement by completing this course. Prerequisites: WRT 101 and ENG 200 or ENG 218.
Fulfills: Topic requirement.

Cross-listed Courses: GWS 382

ENG 383. American Ethnic Literature. 3 Credit Hours.

Introduces students to native and immigrant voices in American literature, including Native American writers such as James Welch and Louise Erdrich; Asian-American writers such as Maxine Hong Kingston and Amy Tan; and writers from Latino/a, Arab-American, Jewish and other backgrounds. English majors earning state teacher certification in Adolescent and Dual Adolescent/Special Education will also study and practice curriculum design and instructional strategies that connect the course's content to today's multi-cultural classrooms. Only English majors may satisfy the EDU 303 teacher certification requirement by completing this course.
Prerequisites: WRT 101 and ENG 200 or ENG 218.

Fulfills: Topic requirement.

Cross-listed Courses: GWS 383

ENG 384. Introduction to Writing Poetry. 3 Credit Hours.

This introductory creative writing workshop is devoted to the writing and revising of poems. We will explore writing techniques as well as writing samples by established authors, but most of our time will be devoted to critiquing student poems with an eye toward revision and improvement. Students will complete a final portfolio of poetry to be submitted at the end of term.
Cross-listed Courses: CRW 384

ENG 385. Creative Writing Workshop. 3 Credit Hours.

Intensive practice in the writing and criticism of poetry and fiction. Associated readings geared to the needs of the individual participant. Fulfills Core requirement(s): VPA.
Prerequisite: WRT 101 and ENG 210.

Cross-listed Courses: CRW 385

ENG 386. Introduction to Playwriting. 3 Credit Hours.

A workshop that introduces students to the techniques of dramatic writing. In our explorations of structure, dialogue and methods of characterization, students begin by writing one- to two- page exercises, advance to outlines for plot and character and finally write a ten-minute play which is performed in class. Fulfills Core requirement(s): VPA.
Prerequisite: WRT 101.

Cross-listed Courses: THR 386, CRW 386

ENG 387. Scriptwriting. 3 Credit Hours.

This course provides study and practice in the special requirements of writing fictional works for television and film. This course will focus on: basic dramatic structures and story telling, the premise, the pitch, character development, writing the treatment, story outlines, writing the master scene and completing the script. At semester end, students are expected to produce full-length tele-plays, radio dramas or film scripts. Fulfills Core requirement(s): VPA.
Prerequisite: WRT 101.

Cross-listed Courses: CMM 387, CRW 387

ENG 388. Writing Green: Poetry, Fiction, and Our Place in the World. 3 Credit Hours.

This introductory creative writing workshop encourages students majoring in any discipline to explore the physical world in which we live and the current environmental crisis through their own poetry and fiction, as well as through study of works by diverse modern and contemporary environmental writers. The course subtitle includes the phrase "our place in the world," referring to the study of "place" or the physical environments where humans live, as well as our "place" in the sense of the role humans play, or might play, in shaping the world in which we live. No previous creative writing experience necessary. This course can substitute for CRW 385 or CRW 386 as a prerequisite for upper level creative writing courses. Because of the emphasis on creative responses to physical environments, the course can include field trips and could be taught in a study abroad setting. Prerequisite(s): WRT 101 or equivalent.
Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: CRW 388

ENG 389. Writing the One Act Play. 3 Credit Hours.

The goal of this writing workshop is to write a one-act play. The course is designed for students who have some experience with writing plays or a strong creative writing background. Students will first explore the techniques of dramatic writing through examples, exercises, and class discussion, advance to plot outlines and character sketches, and finally write a one-act play, which will be performed in class. Fulfills Core requirement(s): VPA.
Prerequisite: WRT 101.

Cross-listed Courses: THR 389

ENG 390. Independent Study. 1-3 Credit Hours.

A student who wishes to pursue an independent project for academic credit must submit, prior to registration, a proposed plan that includes a description of the project and its goals, the methods to be followed, a schedule of work and supervision, an evaluation procedure and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the academic dean. It will be kept on file in the academic dean's office.

ENG 391. Advanced Poetry Workshop. 3 Credit Hours.

A poetry writing workshop for students who have completed the introductory creative writing workshop or who can demonstrate advanced creative writing abilities. The course requires a close study of poems by major modern and contemporary authors and may include exercises in traditional forms. Fulfills Core requirement(s): VPA.
Prerequisites: WRT 101 and CRW/ENG 385.

Cross-listed Courses: CRW 391

ENG 392. Advanced Fiction Workshop. 3 Credit Hours.

A fiction writing workshop for students who have completed the introductory creative writing workshop or who can demonstrate advanced fiction writing ability. The course requires the reading of major modern and contemporary authors, weekly short writing assignments and the writing of an extended work of prose fiction or a linked series of short stories. Fulfills core Visual and Performing Arts requirement. (VPA)
Prerequisites: WRT 101 and CRW/ENG 385.

Cross-listed Courses: CRW 392

ENG 393. Teaching and Tutoring Writing. 3 Credit Hours.

This course explores writing tutoring practice, theory, and research. Drawing upon the history of composition instruction and the scholarship surrounding writing center pedagogy, students will learn, apply, and investigate valued practices of writing tutoring. After developing a foundational understanding of writing center teaching in the first half of the semester, students will apply this knowledge by working as paid writing center tutors and by undertaking original research projects that examine compelling aspects of writing center tutoring or composition instruction. Students who complete this course are eligible to continue as paid writing center tutors in future semesters.
Prerequisite: WRT 101.

Fulfills Core Requirement: Diversity (DIV).

ENG 395. Nonfiction Writing Workshop. 3 Credit Hours.

A workshop that will introduce students, through writing assignments, to the many varieties of creative nonfiction, including the personal essay, memoir, travel writing, the lyric essay, the portrait, and the political essay. We'll engage the eternal concerns and debates of nonfiction writing, including: what it means to tell the "truth", representing the "I" or first-person narrator as a character, telling other people's secrets, the (un)reliability of memory, etc. We'll learn how to use traditional fiction techniques (scene, character, setting, dialogue) in nonfiction, as well as practice techniques more typically seen in creative nonfiction, such as enacting on the page the writer's "story of thought." On occasion this writing workshop will be offered with a particular focus, such as writing about science, family, or sports. The focus will be announced in advance of registration.
Prerequisite: WRT 101.

Cross-listed Courses: CRW 395

ENG 397. Writing Nonfiction: the Art of Writing Short. 3 Credit Hours.

In this class, we'll learn the art of brevity. How to craft great sentences. How to write a powerful tweet and a stunning short essay. How to use sentence fragments effectively. Our writing will be nonfiction true stuff, some of it narrative, some expository, some experimental. Topics will range widely. Our goal will be to get good at writing that is zippy yet fulfilling. This class is appropriate for all students who want to use the English language more dynamically.
Prerequisite: WRT 101.

Cross-listed Courses: CMM 397

ENG 403. Writing and Speaking in the Professions. 3 Credit Hours.

A course designed to train students to write efficient business documents and to present effective oral briefings in an organizational setting. Students will consider ethical issues faced in careers, methods of persuasion, audience analysis and writing issues of clarity, conciseness and courtesy, among others. Literature about business will be a basis for presentations. Prerequisites or corequisites: WRT 101, ENG 210 or ENG 218 and ENG 310.

ENG 455. Medicine in Literature and Film. 3 Credit Hours.

The relationship between literature and medicine will be explored through the study of novels, short stories, essays and films about medical situations, characters and themes. Thematic areas to be examined include medical ethics in literature; the hospital as environment; relationships between health care workers and patients; illness as metaphor and as reality. Discussion on what writers are communicating and how they do so will emphasize characterization, setting, tone and point of view.

Cross-listed Courses: CCM 422, CCM 522

ENG 480. Honors Tutorial. 3 Credit Hours.**ENG 490. Internship. 1-3 Credit Hours.**

In this course, a student will participate in an internship closely related to one of the areas of the Department of English (such as publishing, library sciences, law, advertising, etc.). The student intern will meet regularly with his or her supervisor in the agency and will report as required to the faculty member assigned to supervise the internship. Students are expected to apply what they have learned in the academic program to the internship. An evaluation of the field internship will also be required. The internship and placement must be approved by the faculty supervisor. Three hours of field work per week are required to generate one credit hour. Therefore, a three-credit internship will require at least nine hours per week on site. The number of credit hours to be awarded must be determined and contracted prior to registration.

Prerequisite: ENG 218.

Writing (WRT)

WRT 100. Introduction to Critical Writing. 3 Credit Hours.

This 3-credit course will for some students be a prerequisite for WRT 101. Admission to WRT 101 will be based on a prior selection process.

This course develops basic writing skills such as paper organization, paragraphing, thesis-building, and argumentation. It also focuses on fundamental issues of syntax and grammar. Students will be expected to revise several papers and to participate in writing workshops. One of the primary functions of this class will be to prepare students for successful completion of WRT 101.

WRT 101. Critical Writing. 3 Credit Hours.

Practice in the skills of critical thinking, critical reading, and especially critical writing. Students will analyze selected essays and articles in conjunction with frequent writing assignments. Students will be expected to gain and demonstrate college-level proficiency in critical reading, critical writing, and standard English grammar and usage.

English Major (B.A.)

English Major (B.A.)

English majors may follow the curriculum for the literature concentration, the creative writing concentration, or one of five literature and education tracks designed for students earning an English major with teaching certification. Students in the education tracks also have the option of adding the creative writing concentration to their degree. The literature and creative writing concentrations must be declared by the end of the junior year. Students must declare one of the literature and education tracks and apply formally to the education program no later than the end of their sophomore year; however, they are strongly encouraged to do so earlier since fulfilling the requirements will demand careful planning in scheduling courses.

Double major programs in theatre and literature and in theatre and creative writing are also available. Please see visual and performing arts for more information.

Literature Concentration

Note: English majors cannot fulfill ENG 210 Major Authors with Shakespeare. They may take any other major authors.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
ENG 218	Critical Perspectives on Literature	3
ENG 318	Shakespeare ²	3
ENG 305	Eng Lit Survey I: thru Milton	3
ENG 306	Eng Lit Survey II: Rest-Present	3
ENG 350	Amer Lit Survey I: to Civil War	3
	or ENG 351 Am Lit Survey II: Civ War-Present	
English Department Electives	Students must take two period courses (one must focus upon a period before 1789), two topic courses and two genre courses. The remaining elective may be an ENG/CRW/CMM elective.	21
Major Support Requirements		
World Language ³		9
Free Electives		30
Total Credits		120

¹ Some Core requirements may be fulfilled by major requirements.

² Only ENG 218 Critical Perspectives on Literature is a prerequisite for subsequent literature courses, but it is strongly recommended that students complete ENG 318 Shakespeare as early as possible in the major program.

³ Students take 6 credits of a World Language to fulfill their Core FLL/EAC requirement and another 3 credits in that world language to fulfill an English major support requirement. If, after a minimum of 6 credits of language at the college level, the student has completed or advanced beyond the intermediate level (i.e. 103) in one language, then an elective in ENG, CRW, or CMM may be substituted for the final 3 credits. Additionally, students who complete LAT 101 Elementary Latin I & LAT 102 Elementary Latin II may choose to complete their world language requirement with a classical literature course.

Creative Writing Concentration

In the creative writing program students have the opportunity to develop their talents along with others who share their love of writing. Emphasizing both experimentation and craft, classes are designed as writing workshops—providing a balance of individual attention and group critiques to help students explore their powers and potentials as writers. Major requirements for the creative writing concentration differ from the literature concentration in two respects:

- one period elective is required instead of two, and it must be in post 1789 literature;
- four elective courses are required in Creative Writing (CRW), as described below (the remaining three courses may be in ENG, CRW and/or CMM).

The four required CRW electives are writing workshops. Current options include Creative Writing Workshop, Script Writing, Advanced Fiction Workshop, Advanced Poetry Workshop, Introduction to Playwriting, Writing the One Act Play, Nonfiction Writing Workshop, various Special Topics courses, and the Independent Study. Any workshop may be repeated once for credit. The major is listed on the student’s transcript as “English (Creative Writing concentration).” Course selection must be made in consultation with the student’s advisor. If the advisor is not part of the creative writing teaching faculty, the student should additionally consult with the director of the creative writing program.

Typical Program for Literature Concentration

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
Math/Nat. Science (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Second Semester		
ENG 218	Critical Perspectives on Literature	3
ENG 210	Major Authors	3
HST 111	World Civilization II	3
Math/Nat. Science (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15

Sophomore Year		
First Semester		
PHL 110	Introduction to Philosophy	3
Social Science (p. 61)		3
FLL		3
Theology (p. 61)		3
Elective		3
Credit Hours		15
Second Semester		
ENG P/T/G Elective ¹		3
ENG 318	Shakespeare	3
PHL 210	Moral Philosophy	3
Elective		3
Elective		3
Credit Hours		15
Junior Year		
First Semester		
ENG 305	Eng Lit Survey I:thru Milton	3
Select one of the following: ²		3
ENG 350	Amer Lit Survey I:to Civil War	
P/T/G Elective		
Select one of the following:		3
ENG 310	Literature and Culture	
Elective		
IDS Interdisciplinary Studies (p. 61)		3
ENG P/T/G Elective ¹		3
Credit Hours		15
Second Semester		
ENG 306	Eng Lit Survey II:Rest-Present	3
Select one of the following: ²		3
ENG 351	Am Lit SurveyII:CivWar-Present	
P/T/G Elective		
Select one of the following:		3
ENG 310	Literature and Culture	
Elective		
Elective		3
Elective		3
Credit Hours		15
Senior Year		
First Semester		
Select one of the following:		3
Religion (p. 61)		
COR 400	Senior Studies: Transformations	
ENG P/T/G Elective ¹		3
ENG P/T/G Elective ¹		3
Elective		3
Elective		3
Credit Hours		15
Second Semester		
Select one of the following:		3
Religion (p. 61)		
COR 400	Senior Studies: Transformations	

ENG P/T/G Elective ¹	3
ENG/CMM/CRW	3
Elective	3
Elective	3
Credit Hours	15
Total Credit Hours	120

¹ Period/Topic/Genre

² English Majors are required to take either ENG 350 Amer Lit Survey I:to Civil War or ENG 351 Am Lit SurveyII:CivWar-Present, not both. Literature concentrators who take ENG 350 Amer Lit Survey I:to Civil War in the fall may take an ENG/CRW/CMM elective in the spring; those who take ENG 351 Am Lit SurveyII:CivWar-Present in the spring, you may take an ENG/CRW/CMM elective in the fall.

Typical Program for Creative Writing Concentration

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
Math/Nat. Science (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Second Semester		
ENG 218	Critical Perspectives on Literature	3
ENG 210	Major Authors	3
HST 111	World Civilization II	3
Math/Nat. Science (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Sophomore Year		
First Semester		
PHL 110	Introduction to Philosophy	3
Social Science (p. 61)		3
FLL		3
CRW		3
Theology (p. 61)		3
Credit Hours		15
Second Semester		
Elective		3
ENG 318	Shakespeare	3
PHL 210	Moral Philosophy	3
Elective		3
Elective		3
Credit Hours		15
Junior Year		
First Semester		
ENG 305	Eng Lit Survey I:thru Milton	3
Select one of the following: ¹		3

ENG 350	Amer Lit Survey I:to Civil War	
Elective		
ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
CRW		3
Credit Hours		15
Second Semester		
ENG 306	Eng Lit Survey II:Rest-Present	3
Select one of the following: ¹		3
ENG 351	Am Lit SurveyII:CivWar-Present	
Elective		
Elective		3
ENG Period (Post 1789)		3
CRW		3
Credit Hours		15
Senior Year		
First Semester		
Select one of the following:		3
Religion (p. 61)		
COR 400	Senior Studies: Transformations	
Elective		3
ENG/CMM/CRW		3
Elective		3
Elective		3
Credit Hours		15
Second Semester		
Select one of the following:		3
Religion (p. 61)		
COR 400	Senior Studies: Transformations	
CRW		3
ENG/CMM/CRW		3
Elective		3
Elective		3
Credit Hours		15
Total Credit Hours		120

¹ English Majors are required to take either ENG 350 Amer Lit Survey I:to Civil War or ENG 351 Am Lit SurveyII:CivWar-Present, not both. Literature concentrators who take ENG 350 Amer Lit Survey I:to Civil War in the fall may take an ENG/CRW/CMM elective in the spring; those who take ENG 351 Am Lit SurveyII:CivWar-Present in the spring, you may take an ENG/CRW/CMM elective in the fall.

Dual Major in English Creative Writing and Communications

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3

HST 110	World Civilization I	6
& HST 111	and World Civilization II	
ENG 210	Major Authors ²	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61) ³		1
DIV Diversity (p. 61) ⁴		0
English CRW Major Requirements		
ENG 218	Critical Perspectives on Literature	3
ENG 318	Shakespeare	3
ENG 305	Eng Lit Survey I:thru Milton	3
or ENG 306	Eng Lit Survey II:Rest-Present	
ENG 350	Amer Lit Survey I:to Civil War	3
or ENG 351	Am Lit SurveyII:CivWar-Present	
English Major Electives		
CRW workshop		3
CRW workshop		3
CRW workshop		3
CRW workshop		3
Period (Post 1789)		3
ENG/CRW		3
Communications Major Requirements		
CMM 201	Fundamentals of Speech	3
CMM 205	Intro to Video Production	3
CMM 226	Introduction to Film Studies	3
CMM 250	Mass Media and Society	3
CMM 274	Reporting and Writing	3
CMM 350	Communication Ethics	3
CMM 376	Introduction to Advertising	3
or CMM 377	Introduction to Public Relations	
CMM Elective		3
CMM Elective		3
CMM Elective		3
Free Electives		
The remaining 3 courses are electives of the student's choice. A student may concentrate electives in one program in order to fulfill a minor, or a variety of courses may be taken from departments throughout the college.		
Free Elective		3
Free Elective		3
Free Elective		3
Total Credits		123

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² ENG students must NOT take ENG 210: Major Authors Shakespeare. Their Shakespeare requirement is fulfilled by ENG 318. They must choose a different Major Author for ENG 210.
- ³ VPA is a 1 credit requirement in the Core that can be fulfilled by completing a 1-credit Music course or earning a VPA credit by other approved means such as participation in a performance. Students completing this dual major will fulfill the VPA requirement with a CRW course.
- ⁴ Students satisfy this requirement by taking any DIV-designated course. This course may otherwise fulfill a requirement in any part of one's undergraduate program: the Core, the English major, a second major or a minor, or a free elective.

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
EAC Encountering Another Culture/Language (p. 61)		3
CMM 201	Fundamentals of Speech	3
Credit Hours		15
Second Semester		
ENG 210	Major Authors	3
ENG 218	Critical Perspectives on Literature	3
HST 111	World Civilization II	3
EAC Encountering Another Culture/Language (p. 61)		3
CMM 250	Mass Media and Society	3
Credit Hours		15
Sophomore Year		
First Semester		
PHL 110	Introduction to Philosophy	3
Math/Natural Science (p. 61)		3
ENG 305	Eng Lit Survey I:thru Milton	3
CRW Workshop		3
CMM 274	Reporting and Writing	3
Credit Hours		15
Second Semester		
Theology (p. 61)		3
Math/Natural Science (p. 61)		3
Social Science (p. 61)		3
ENG 351	Am Lit SurveyII:CivWar-Present	3
CMM 205	Intro to Video Production	3
Credit Hours		15
Junior Year		
First Semester		
ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
PHL 210	Moral Philosophy	3
CRW Workshop		3

CMM 376	Introduction to Advertising	3
or	or Introduction to Public Relations	
CMM 377		
Credit Hours		15
Second Semester		
ENG 318	Shakespeare	3
ENG Period (Post 1789)		3
CRW Workshop		3
CMM 226	Introduction to Film Studies	3
CMM Elective		3
Credit Hours		15
Senior Year		
First Semester		
Religion (p. 61)		3
CRW Workshop		3
CMM 350	Communication Ethics	3
CMM Elective		3
Elective		3
Credit Hours		15
Second Semester		
COR 400	Senior Studies: Transformations	3
ENG/CRW Elective		3
CMM Elective		3
Elective		3
Elective		3
Credit Hours		15
Total Credit Hours		120

Dual Major in English Literature and Communications

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	6
& HST 111	and World Civilization II	
ENG 210	Major Authors ²	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61) ³		1
DIV Diversity (p. 61) ⁴		0

English Literature Major Requirements

ENG 218	Critical Perspectives on Literature	3
ENG 318	Shakespeare	3
ENG 305	Eng Lit Survey I: thru Milton	3
or ENG 306	Eng Lit Survey II: Rest-Present	
ENG 350	Amer Lit Survey I: to Civil War	3
or ENG 351	Am Lit Survey II: CivWar-Present	
English Major Electives		
English Majors are required to take two Period courses (one of which must focus on a period before 1789), two Topic courses, and two Genre courses.		
Genre		3
Genre		3
Topic		3
Topic		3
Period (Pre-1789)		3
Period		3
Communications Major Requirements		
CMM 201	Fundamentals of Speech	3
CMM 205	Intro to Video Production	3
CMM 226	Introduction to Film Studies	3
CMM 250	Mass Media and Society	3
CMM 274	Reporting and Writing	3
CMM 350	Communication Ethics	3
CMM 376	Introduction to Advertising	3
or CMM 377	Introduction to Public Relations	
CMM Elective		3
CMM Elective		3
CMM Elective		3

Free Electives

The remaining 3 courses are electives of the student's choice. A student may concentrate electives in one program in order to fulfill a minor, or a variety of courses may be taken from departments throughout the college. Students who have not fulfilled the VPA requirement through their major coursework or by other means will need to complete a VPA-designated course as a free elective.

Free Elective	3
Free Elective	3
Free Elective	3
Total Credits	120

¹ Some Core requirements may be fulfilled by major requirements.

² ENG students must NOT take ENG 210: Major Authors Shakespeare. Their Shakespeare requirement is fulfilled by ENG 318. They must choose a different Major Author for ENG 210.

³ VPA is a 1 credit requirement in the Core that can be fulfilled by completing a 1-credit Music course or earning a VPA credit by other approved means such as participation in a performance. Students completing this dual major will fulfill the VPA requirement with a CRW course.

⁴ Students satisfy this requirement by taking any DIV-designated course. This course may otherwise fulfill a requirement in any part of one's undergraduate program: the Core, the English major, a second major or a minor, or a free elective.

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
EAC Encountering Another Culture/Language (p. 61)		3
CMM 201	Fundamentals of Speech	3
Credit Hours		15
Second Semester		
ENG 210	Major Authors	3
ENG 218	Critical Perspectives on Literature	3
HST 111	World Civilization II	3
EAC Encountering Another Culture/Language (p. 61)		3
CMM 250	Mass Media and Society	3
Credit Hours		15
Sophomore Year		
First Semester		
PHL 110	Introduction to Philosophy	3
Math/Natural Science (p. 61)		3
Theology (p. 61)		3
ENG 305	Eng Lit Survey I:thru Milton	3
CMM 274	Reporting and Writing	3
Credit Hours		15
Second Semester		
PHL 210	Moral Philosophy	3
Math/Natural Science (p. 61)		3
Social Science (p. 61)		3
ENG 351	Am Lit SurveyII:CivWar-Present	3
CMM 205	Intro to Video Production	3
Credit Hours		15
Junior Year		
First Semester		
ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
ENG P/T/G Elective ¹		3
CMM 376	Introduction to Advertising	3
or	or Introduction to Public Relations	
CMM 377		
CMM Elective		3
Credit Hours		15
Second Semester		
ENG 318	Shakespeare	3
ENG P/T/G Elective ¹		3
ENG P/T/G Elective ¹		3
CMM 226	Introduction to Film Studies	3
Elective		3
Credit Hours		15
Senior Year		
First Semester		
Religion (p. 61)		3

ENG P/T/G Elective ¹	3
ENG P/T/G Elective ¹	3
CMM 350 Communication Ethics	3
CMM Elective	3
Credit Hours	15
Second Semester	
COR 400 Senior Studies: Transformations	3
ENG P/T/G Elective ¹	3
CMM Elective	3
Elective	3
Elective	3
Credit Hours	15
Total Credit Hours	120

¹ Period/Topic/Genre

English (B.A.) and Initial Teacher Certification Tracks

Students earning teacher certification fulfill the core requirements as described above but follow one of the programs of study detailed below. Note that all five tracks require one advanced writing course and one media literacy elective. Any upper-division course in writing satisfies the requirement for the advanced writing course, but students are encouraged to make their selection according to their teaching interests —e.g., CRW 385 Creative Writing Workshop for those who wish to prepare themselves to teach creative writing; CMM 274 Reporting and Writing for those who anticipate teaching journalism classes or advising their school newspaper. The media literacy elective is fulfilled by CMM 250 Mass Media and Society or one of the film studies courses offered by the English Department.

Literature Concentration and Childhood and Special Education (Grades 1-6)

Code	Title	Credit Hours
Core Requirements (p. 61) ^{1, 2, 3, 4}		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3

VPA Visual & Performing Arts (p. 61)	1
DIV Diversity (p. 61)	0
Major Requirements	
Advanced Writing Course	3
Department Electives	12
Complete ENG 352 as a Topic course; one Period course; one Genre course; and either a second Topic course or a second Genre course.	
ENG 218	Critical Perspectives on Literature 3
ENG 301	Advanced Grammar and Usage 3
ENG 311	English Literature: An Overview 3
ENG 318	Shakespeare 3
ENG 350	Amer Lit Survey I:to Civil War 3
or ENG 351 Am Lit SurveyII:CivWar-Present	
Media Literacy Elective	3
Major Support Requirements	
World Language ⁵	9
Education and Education Support Courses ⁶	39
Total Credits	129

¹ Some Core requirements may be fulfilled by major requirements.

² Includes EDU 200 Teaching in a Diverse Society which fulfills social science (see below under Education).

³ Includes EDU 315 Plan, Assessing, Managing Inclusive Clsm5, which fulfills IDS requirement.

⁴ ENG 310 is fulfilled by *either* ENG 305, 306, 350, or 351.

⁵ Students take 6 credits of a World Language to fulfill their Core EAC requirement and another 3 credits in that world language to fulfill an English major support requirement. If, after a minimum of 6 credits of world language at the college level, the student has completed or advanced beyond the intermediate level (i.e. 103) in one language, then an elective in ENG, CRW, or CMM may be substituted for the final 3 credits. Additionally, students who complete LAT 101 Elementary Latin I & LAT 102 Elementary Latin II may choose to complete their world language requirement with a classical literature course.

⁶ See details under Education program requirements; this total includes a course in mathematics required for teacher certification, but it does not include EDU 200 Teaching in a Diverse Society, which satisfies the College core social science requirement.

Literature Concentration and Adolescence Education (Grades 7-12)

Students must also complete Core requirements (p. 228).

Code	Title	Credit Hours
Core Requirements (p. 61) ^{1, 2, 3, 4}		
See first track above for details.		51
Major Requirements		
Advanced Writing Course		3
Department Electives	Complete one Genre elective, one World/Multicultural Literature Topic elective, a second Genre or second Topic elective, and one pre-1789 Period elective.	12
ENG 218	Critical Perspectives on Literature	3
ENG 301	Advanced Grammar and Usage	3

ENG 305	Eng Lit Survey I:thru Milton	3
ENG 306	Eng Lit Survey II:Rest-Present	3
ENG 318	Shakespeare	3
ENG 350	Amer Lit Survey I:to Civil War	3
or ENG 351 Am Lit SurveyII:CivWar-Present		
Media Literacy Elective		3
Major Support Requirements		
World Language ⁵		9
Education and Education Support Courses ⁶		37
Total Credits		130

Literature Concentration and Inclusive Adolescence Ed (Grades 7-12)

The core and major requirements for this concentration are identical to those for English and adolescent education (see above). An additional six credit hours of coursework are required in education (see details under education program requirements).

Literature Concentration in English and TESOL Education

Students must also complete Core requirements (p. 228).

Code	Title	Credit Hours
Core Requirements (p. 61) ^{1, 2, 3, 4}		
See first track above for details.		51
Major Requirements		
Advanced Writing Course		3
Department Electives	Complete one Genre elective, one World/Multicultural Literature Topic elective, a second Genre or second Topic elective, and one pre-1789 Period elective.	12
ENG 218	Critical Perspectives on Literature	3
ENG 301	Advanced Grammar and Usage	3
ENG 311	English Literature: An Overview	3
ENG 318	Shakespeare	3
ENG 350	Amer Lit Survey I:to Civil War	3
or ENG 351 Am Lit SurveyII:CivWar-Present		
Media Literacy Elective		3
Major Support Requirements		
World Language ⁷		12
Education and Education Support Courses ⁶		40
Total Credit Hours		130

⁷ Students take 6 credits of a World Language to fulfill their Core EAC requirement and another 3 credits in that world language to fulfill an English major support requirement. The remaining 3 credits may be in the same or a second world language.

Adding a Creative Writing Concentration to the Literature and Education Tracks

Students in any of the education tracks may add the creative writing concentration as an addition to the literature concentration by taking the following:

Code	Title	Credit Hours
Three CRW genre-specific workshop courses (one of which fulfills the advance writing course requirements)		9
One of the following advanced workshop courses (each of which includes extensive study of contemporary texts) to fulfill the 20th/21st century historical period requirement ¹		3
ENG/CRW 387	Scriptwriting	
ENG 389	Writing the One Act Play	
ENG/CRW 391	Advanced Poetry Workshop	
ENG/CRW 392	Advanced Fiction Workshop	
ENG/CRW 395	Nonfiction Writing Workshop	
Total Credit Hours		12

¹ A student is allowed to take a 20th/21st century historical period elective other than ENG 395 Nonfiction Writing Workshop/CRW 395 Nonfiction Writing Workshop, but in this case a fourth CRW workshop is required.

Five-Year B.A./M.S.T. Programs

In conjunction with the Department of Education, a five-year Bachelor of Arts in English / Master of Science for Teachers in Dual Adolescent/ Special Education is available. Please consult with the department chair of English and the Department Chair of Education for more information.

Literature Minor

Students who want to minor in literature must consult with the chair of the English Department. The usual requirements for a literature minor are nine hours of core English courses plus nine hours of literature courses taken at the upper-division level. However, requirements for the minor will be determined on an individual basis.

Irish Literature Minor

This minor offers students the opportunity to concentrate on the literature of Ireland while gaining an understanding of its historical, cultural, and literary contexts. Students completing the Irish literature minor must take:

Code	Title	Credit Hours
Three literature courses specifically related to Ireland (four recommended)		9
One course in literature not related to Ireland		3

One approved course from either History or Peace and Global Studies	3
Total Credit Hours	15

The non-Irish literature course will ground students' understanding of the wider British canon, while the History or Peace and Global Studies course provides knowledge of the wider European and global contexts that Irish writers navigate. Study abroad and summer language programs are options for the fulfillment of this minor. Students interested in these options should speak to the director of the minor.

Creative Writing Minor

Non-English majors who want to minor in creative writing should consult with the director of the Creative Writing Program. The usual requirements for a minor are 15 hours in creative writing. Qualifications for the minor are determined on an individual basis. (Students who are English majors must follow the literature or the creative writing curriculum as part of their degree program.)

Film Minor

Housed within the Department of English, the Film Minor is an interdisciplinary course of study involving collaboration among a number of departments and programs. With courses that treat films as texts and examine the cultural and historical contexts in which films are produced, the Film Minor is open to all students at Le Moyne regardless of their major.

At Le Moyne, film minors consider the aesthetic and entertaining dimensions of films, as well as the ability of film to engage with philosophy, psychology, and society. By paying attention to the relation of film to the humanities, arts, and social sciences, film minors will pursue interdisciplinary inquiry that contributes to an understanding of the technological, narrative, documentary, and experimental nature of film.

Film minors will be invited to participate in the annual Syracuse International Film and Video Festival, an exciting community event held in the fall at venues throughout Syracuse, including Le Moyne. Opportunities are available to intern at the festival and to work on and attend pre-festival events throughout the year.

Questions should be directed to the Director of the Film Program, Julie Grossman.

Code	Title	Credit Hours
Minor Requirements		
ENG 372	History of Film: Beginnings to 1940	3
Select two of the following:		6
COR 100 Awakenings; COR 100 Monsters and the Monstrous; ENG 310 Literature and Culture: American Idols; ENG 310 Literature and Culture: Crimes and Misdemeanors; ENG 310 Literature and Culture: Representing History: Encountering the Holocaust through Literature, Film, and Art; ENG 310 Literature and Culture: The Private Detective in Fiction and Film		
ENG 320	Documentary Film	
ENG 358	Representations of the Media in Film	
ENG 371	Critical Approaches to Film	
ENG 373	History of Film: 1940 to Present	
ENG 378	The Films of Alfred Hitchcock	

CMM 226	Introduction to Film Studies	
CMM 303	Italian Culture and Cinema	
REL 349	Religion in Contemporary Film	
REL 350	World Religions and Film	
CMM 316	Studies in Small Screen Narrative	
CMM 339	Down These Mean Streets: Men, Women, and Film Noir	
Choose two or more courses from any of those listed above, or from those below:		6
CRW 387	Scriptwriting	
CMM 208	Frame to Frame: Concepts in Motion	
CMM 205	Intro to Video Production	
THR 205	Acting I	
Total Credit Hours		15

CRW 387	Scriptwriting	
CRW 391	Advanced Poetry Workshop	
CRW 392	Advanced Fiction Workshop	
CRW 395	Nonfiction Writing Workshop	
CMM 224	Environmental Journalism	
CMM 274	Reporting and Writing	
CMM 314	Journalism and American Literature	
CMM 373	Practicum in Journalism	
CMM 374	Beyond Breaking News: Telling the Big Stories	
CMM 379	Music Journalism	
CMM 474	Reporting Syracuse	
Total Credit Hours		15

Medieval Studies Minor

For the description of a minor in medieval studies, go to the Interdisciplinary Programs (p. 92) section of this catalog.

Advanced Writing Minor

The Advanced Writing minor is open to both English and non-English majors who wish to sharpen their critical writing skills and to expand their appreciation for the history, the grammar, and the rhetorical applications of the English language. The Advanced Writing minor is particularly aimed at students intent on developing writing skills that they can then apply to the demands of the professional world or to further graduate study. Students interested in the Advanced Writing minor will concentrate on developing skills that are necessary to producing elegant, persuasive, critical, and expository writing. This minor is particularly appropriate not only for students who intend to teach the practice of writing, but also for those who will be entering fields where expertise in writing is valued and demanded.

Students who want to minor in Advanced Writing must consult with the chair of the English Department.

The Advanced Writing minor consists of five courses:

Code	Title	Credit Hours
Minor Requirements		
ENG 218	Critical Perspectives on Literature	3
English Elective		3
Select one of the following ENG courses:		3
ENG 301	Advanced Grammar and Usage	
ENG 314	Advanced Grammar II	
ENG 393	Teaching and Tutoring Writing	
Select two courses from the following list, only one of which may be a creative writing course:		6
ENG 338	Writing in the Real World	
ENG 395	Nonfiction Writing Workshop	
ENG 397	Writing Nonfiction: the Art of Writing Short	
ENG 403	Writing and Speaking in the Professions	
CRW 385	Creative Writing Workshop	
CRW 386	Introduction to Playwriting	

HISTORY

Chair: Yamin Xu

Professor: Douglas R. Egerton, Robert E. Scully, S.J., Robert W. Zens

Associate Professor: Bruce A. Erickson, Leigh Fought, Godriver Odhiambo, Holly A. Rine, Yamin Xu

Assistant Professor: Michael A. Guzik, S.J.

Adjunct Faculty: Karl R. Alexander, Robert Beach, Andrea Catroppa, William S. Dolan, S.J., Barrett Esworthy, Gerald Goodwin, Joseph Guiffida, Jeffrey Hoerl, Thomas Magnarelli, Melinda Reeder, John Sheehan, Todd Sundell

Professor Emerita: Carolyn T. Bashaw, Barbara J. Blaszak

Professor Emeritus: William Bosch, S.J., Edward H. Judge, John W. Langdon, William J. Telesca

Those who wish to evaluate the complex and challenging issues of the present must seek the perspective conferred by a sound and critical knowledge of the past. History imparts this knowledge, thereby helping the student to understand contemporary affairs and to analyze and evaluate evidence. History also forms part of the foundation of a liberal education by providing essential background for the humanities, social sciences, natural sciences, and pre-professional disciplines.

For its majors, the history department offers a broad program of courses designed to discipline and develop the mind. When combined with appropriate courses in other fields, this program prepares history majors for careers in law, government service, management and administration, library science, education, and journalism. A departmental honors program offers special opportunities for independent work to advanced students.

For history majors who wish to become certified teachers, the department also offers special programs which incorporate courses in education.

Departmental Student Learning Outcomes

Students who graduate from the history program will achieve the following outcomes:

Historical processes/World History: Students will be able to analyze global/historical processes as related to one another and to historical change.

Understanding historical human activities and accomplishments: Students will be able to examine and understand history as human activities and accomplishments in the past for which there is evidence and history as what historians have written about those activities and accomplishments using the evidence

Critical reading: Students will be able to evaluate scholarly sources analytically to ascertain their main themes and arguments.

Methodology: Students will be able to conduct historical research by evaluating primary and secondary published and archival sources appropriate to the subject.

Perspective: Students will be able to apply a historical perspective to issues concerning the diversity of human experience.

Communication: Students will be able to present the results of their research and study in clear and properly documented papers and oral presentations and discussions.

Internship Program (HST 490 Internship) 1-6 Credit Hours.

Participation in a field learning experience closely related to one of the areas of history. The student intern will report as required to the internship coordinator and will be expected to evaluate the experience and relate it to his or her academic program. Three hours per week will be required to generate one credit. Pass/fail only. Prerequisites: 2.50 G.P.A. or better; 60 credits earned; permission of internship coordinator.

- History Major (B.A.) (p. 233)
- Double Major in History & Political Science (p. 235)
- History Minor (p. 235)
- Five-Year B.A./M.S.T. Program (p. 235)

HST 110. World Civilization I. 3 Credit Hours.

This course surveys the most important developments, issues, accomplishments and problems of World civilizations, provides an introduction to the study of African, Asian, European, Islamic, Native American, and Latin American civilizations, and discusses the relationships among these civilizations to the eighteenth century.

HST 110L. Learning Strategies Lab. 1 Credit Hour.

The learning strategies course is designed to develop active learning skills and to provide supplemental instruction for the HST 110 (<http://collegecatalog.lemoyne.edu/search/?P=HST%20110>) course. The overall goals of the course are to teach students how to organize their approach to acquiring knowledge and to approach studying as an active thinking process. Students will learn how to apply the learning strategies within the context of the history course content. Emphasis will be placed on applying learning theory to the mastery of course content and on helping students to identify their own personal learning style. Preference given to students participating in the curricular learning community. Open to the HEOP/AHANA learning community.

Corequisite: HST 110 (<http://collegecatalog.lemoyne.edu/search/?P=HST%20110>).

HST 111. World Civilization II. 3 Credit Hours.

This course surveys the most important developments, issues, accomplishments and problems of World civilizations since the eighteenth century and examines the development of African, Asian, European, Islamic, Native American and Latin American civilizations since the eighteenth century. A research paper is required of all students.

Cross-listed Courses: HON 115 (<http://collegecatalog.lemoyne.edu/search/?P=HON%20115>)

HST 111L. Learning Strategies Lab. 1 Credit Hour.

The learning strategies course is designed to develop active learning skills and to provide supplemental instruction for the HST 111 (<http://collegecatalog.lemoyne.edu/search/?P=HST%20111>) course. The overall goals of the course are to teach students how to organize their approach to acquiring knowledge and to approach studying as an active thinking process. Students will learn how to apply the learning strategies within the context of the history course content. Emphasis will be placed on applying learning theory to the mastery of course content and on helping students to identify their own personal learning style. Preference given to students participating in the curricular learning community. Open to the HEOP/AHANA learning community.

Corequisite: HST 111 (<http://collegecatalog.lemoyne.edu/search/?P=HST%20111>).

HST 211. American History Survey I. 3 Credit Hours.

This course is abroad survey of key patterns, events, and the history of peoples in America from the eve of European settlement to 1865. It covers Native American life and the effects of English settlement, the rise of African slavery, the colonial and Revolutionary periods, the age of antebellum reform, antislavery and women's rights, the crisis of union, and the Civil War. Readings, research and discussion.

HST 212. American History Survey II. 3 Credit Hours.

A survey of United States history from the era of Reconstruction to the present. Topics include Reconstruction and the struggles for American democracy, immigration, the rise of the industrial order and the response to it by farmers and workers, Populism and Progressivism, women's suffrage and the modern women's movement, the New Deal both World Wars, the Cold War and Vietnam, the Civil Rights movement, and the post-Cold War era. Readings, research and discussion.

HST 301. Methods of Historical Research. 3 Credit Hours.

A detailed analysis of historical methodology and techniques of research, required of all history majors. The course will provide training in analytical reading, evaluation of evidence, interpretation of quantitative data, methods of avoiding historical fallacies, and the selection of a topic for

History Major (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science 1 (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61) ²		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61) ³		0-3
Major Requirements		39
History Electives ⁴		18
History of Religion ⁵		3
HST 211	American History Survey I (two-year college transfer students must pass a placement exam to receive the HST 211 credits)	3
HST 212	American History Survey II (two-year college transfer students must pass a placement exam to receive the HST 212 credits)	3
HST 301	Methods of Historical Research (students who take this course must simultaneously take a HST elective to prepare for HST 302 that they will take later)	3
HST 302	Historical Research and Writing (students should build this course upon the HST elective they took earlier with HST 301)	3
Major Support Requirements		15
World Language ⁶		12
Social Science 2 (No EDU) ⁷		3
Free Electives		27
Free Electives		27
Total Credits		121

¹ Some Core requirements may be fulfilled with major and major support requirements.

² Any HST elective with IDS designation can fulfill both requirements, but the IDS's credit hours need to be fulfilled by a free elective.

³ Any HST elective with DIV designation will fulfill both requirements.

- 4

A history elective may be any 300/400-level HST course that is not also used by the student to fulfill another requirement. History majors are strongly advised to take at least two electives that deal primarily with non-Western (Asian, African, Islamic, Latin American, and/or American Indian) history.
- 5

For a list of HST and REL courses that qualify, please see the department chair.
- 6

History majors who plan to become certified teachers must take six credits of the same world language. All other history majors (including EDU-TESOL Concentration, PSC-HST Double-Major, and HST-THR Double-Major programs) must complete the intermediate level of a world language. Students who complete the intermediate level in under 12 credit hours may substitute history electives for the remaining hours of their world language requirement. Students intending to pursue a Ph.D. in history should take 18 hours of a world language.
- 7

For the purposes of the history major, courses in anthropology, economics, political science, psychology and sociology (but not education) may count as social science 2.

For Those Seeking NYS Teacher Certification

Code	Title	Credit Hours
World Language (fulfilled with HST major support requirements)		6
Free Electives (fulfilled with education requirements) ¹		
PSC 101	American National Politics	3
MTH Electives in total		6
English Electives in total		6
Natural Science Electives in total		6
ECO 113	Principles of Microeconomics or ECO 114 Principles of Macroeconomics	3
¹ Please refer to the education section for details.		
Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
EAC Encountering Another Culture/Language (p. 61)		3
HST 110	World Civilization I	3
Mathematics (p. 61)		3
Credit Hours		15
Second Semester		
Natural Science (p. 61)		3
PHL 110	Introduction to Philosophy	3
Social Science 1 (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
HST 111	World Civilization II	3
Credit Hours		15

Sophomore Year		
First Semester		
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
HST Elective		3
HST 211	American History Survey I	3
Credit Hours		15
Second Semester		
HST 301 Methods of Historical Research		3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
HST Elective		3
HST 212	American History Survey II	3
Credit Hours		15
Junior Year		
First Semester		
HST 302	Historical Research and Writing	3
ENG 310	Literature and Culture	3
HST Elective		3
IDS Interdisciplinary Studies (p. 61)		3
Free Elective		3
Credit Hours		15
Second Semester		
Religion (p. 61)		3
Social Science 2 (No EDU) (p. 61) ¹		3
HST Elective/DIV		3
HST/ or Free Elective/VPA		1
Free Elective		3
Free Elective		3
Credit Hours		16
Senior Year		
First Semester		
HST Elective		3
COR 400	Senior Studies: Transformations	3
Free Elective		3
Free Elective		3
Free Elective		3
Credit Hours		15
Second Semester		
History of Religion		3
HST Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Credit Hours		15
Total Credit Hours		121

¹ Social Science 2 excludes EDU courses.

Double Major in History & Political Science

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		40
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61) ¹		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ¹		3
Social Science (p. 61) ¹		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61) ²		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61) ³		0
Major Requirements		65
HST 211	American History Survey I	3
HST 212	American History Survey II	3
HST 301	Methods of Historical Research	3
HST 302	Historical Research and Writing	3
HST Electives ⁴		21
PSC 101	American National Politics	3
PSC 201	Introduction to Political Science	3
PSC 202	Methods of Political Science	3
Internship, Service Learning OR Study Abroad		2
PSC Electives ⁵		21
Major Support Requirements		22
World Language ⁶		12
Social Science Courses (other than PSC and EDU)		6
MTH 111	Introduction to Statistics I (with Computer Lab)	4
Free Electives		0-3
Free Electives ⁷		0-3
Total Credit Hours		121-127

¹ Some Core requirements are fulfilled with major and major support requirements.

² HST/IDS (a HST elective with the IDS designation) or PSC/IDS can fulfill both HST and IDS or PSC and IDS requirements, but the IDS credits need to be fulfilled with a free elective, if the total credits are below 120.

³ HST/DIV (a HST elective with the DIV designation) or PSC/DIV can fulfill both HST and DIV or PSC and DIV requirements.

⁴ One history elective must be a History of Religion course.

⁵ PSC 490 is not allowed; up to two PSC/HST cross-listed courses may be double-counted for both the HST and PSC major requirement credits, lowering the total major credit count from 65 to 59.

⁶ Must complete the requirement with the same language.

⁷ If HST/IDS (a HST elective with the IDS designation) or PSC/IDS is taken and the total credits are below 120, a free elective may be needed.

History Minor

To obtain a minor in history a student must complete at least 18 hours of history, exclusive of advanced placement credits. Of this total, a minimum of six hours must be taken in each of two of the following areas: American, European or non-Western. The pass/fail option may not be used to fulfill requirements for a minor.

Five-Year B.A./M.S.T. Program

Bachelor of Arts in History and Master of Science for Teachers in Adolescent Education

In conjunction with the Department of Education, a five-year Bachelor of Arts in History / Master of Science for Teachers in Adolescent Education is available. Please consult with EDU Dept Chair for more information.

Note:

Different HST BA + EDU Master of Science for Teachers (M.S.T.) programs are available—including Inclusive Childhood/ Students with Disabilities (Grades 1-6), Inclusive Adolescent Education/Students with Disabilities (Grades 7-12), and Teaching English to Speakers of Other Languages (Grades Pre K-12). Please consult with EDU Dept Chair for these programs.

MATHEMATICS

Chair: Caitlin Cunningham

Professor: Sul-Young Choi, Lifang Hsu, Michael J. Miller, Michael J. Schramm

Associate Professor: Shaun Ceci, Caitlin Cunningham, David A. Nash, Jonathan Needleman, Trijya Singh

Assistant Professor: Rachid Belhachemi

Professor of Practice: James Enwright, Keith Wolfe

Visiting Assistant Professor: Kathy Dilmore

Adjunct Faculty: William J. Collins

Professor Emeritus: Edwin F. Baumgartner, William V. Miller

Mathematics

The mathematics program has three primary audiences:

- 1) mathematics majors,
- 2) social science, natural science and business majors, and
- 3) students of the liberal arts.

1) We offer mathematics majors a well-rounded foundation, preparing them for either a mathematically oriented career or graduate study in a mathematical field. By the end of their sophomore year, these students will choose one of the following areas of in-depth study or one of the certification tracks in Education.

- Pure mathematics: the study of patterns and structures.
- Applied mathematics: the study of mathematical techniques used to solve problems in other fields, such as physics, biology, business, or even national security.
- Statistics: the study of how to draw meaningful conclusions from data.
- Actuarial science: the study of financial risk, including insurance and pensions. Completion of this area of study will prepare students to pass the first actuarial exam.
- Education: the study of the mathematical foundations of topics taught at the primary and secondary level. Completion of one of the Education tracks will prepare students for certification to teach in New York State.

2) We offer social science, natural science and business majors careful instruction in using the mathematical tools required by their disciplines, including the following.

- Statistics: the study of the collection, analysis and interpretation of real-world data.
- Calculus and Differential Equations: the study of how things change.
- Business Mathematics: the study of how businesses can make sound decisions.

3) We offer students of the liberal arts an introduction to the mathematical and statistical tools necessary to navigate a world increasingly reliant on data. These courses focus on how mathematics impacts aspects of our everyday lives, often in ways that we are unaware.

Departmental Honors

To earn a Departmental Honors degree in mathematics, a student must demonstrate both a breadth of mathematical knowledge (as measured by their math GPA), and the ability to apply that knowledge to solve a substantial problem independently (as measured by their grade in MTH 495: Senior Research Project.) To qualify for this degree, a student's Math GPA and MTH 495 grade (both measured on a 4-point scale) must sum to at least 7.000.

Student Learning Outcomes in Mathematics

Students who graduate from this program will be able to:

Mathematical maturity

Approach new problems with "mathematical maturity" – determine what information is needed, what tools/concepts can be applied, and make attempts even when uncertain.

Inherent beauty

Demonstrate their recognition of the beauty inherent in mathematics by finding elegant solutions/proofs/methods, etc.

Communication

Demonstrate verbal and written fluency in the language of mathematics.

Adapt known techniques

Adapt known techniques to new or more complicated situations – including real-world problems.

Valid and invalid

Distinguish between valid and invalid mathematical and statistical arguments, models, methods, etc. and construct valid ones of their own.

Fundamental concepts

Demonstrate their understanding of the fundamental concepts of algebra, analysis, logic, statistics and topology.

- Mathematics Major (B.A.) (p. 239)
- Mathematics Minor (p. 245)
- Applied Statistics Minor (p. 245)

Math (MTH)

MTH 007. Intermediate Algebra. 0 Credit Hour.

A non-credit, pre-college course in intermediate algebra stressing graphing and equation solving, algebraic manipulation, laws of exponents functions, and logarithms.

MTH 090. Precalculus. 0 Credit Hour.

A non-credit, pre-college course in algebra and trigonometry, covering functions (including exponential, logarithmic and trigonometric functions), analytic trigonometry, linear algebra (including system of equations, matrices, and determinants) and analytic geometry. This course does not satisfy the core mathematics requirement. Prerequisite: Three years of high school mathematics.

MTH 102. Mathematics for Educators. 3 Credit Hours.

A problem-solving oriented course for prospective elementary school teachers. Topics will include some of the following: properties of number systems, place value and scales of notation, elementary number theory, geometry and measurement, statistics probability. Open only to students in the Elementary Education program. Offered each Fall.

Prerequisite: Three units of high-school mathematics or MTH 007.

MTH 103. Elections, Voting and Mathematics. 3 Credit Hours.

This course focuses on three main topics relating math and politics. Polling is a tool ubiquitous in politics. We will determine what makes a good poll, and how much information one can actually infer from a poll. From there we will study the many, and sometimes apparently contradictory, statistical claims made by candidates, ads, and pundits in order to advance their positions. By using mathematical reasoning we will determine what truth lies behind these claims. Finally, we will look at voting to see how much your vote actually counts. We will also compare our (US) voting systems to others around the world, and try to understand what makes a voting system "fair".

MTH 104. Mathematics for Decision Making. 3 Credit Hours.

We all need to make decisions. As citizens, we need to sift through the mountain of (often misleading) data that is constantly being thrown our way by advertisers, the media, politicians, etc. As professionals, we may need to make decisions using data from such diverse areas as economics, social policy, health care, the military, or the environment. In any role, we need to know how data can be turned into useful information. This course covers mathematics used to analyze data in order to make good, informed decisions. Major topics include informal logic, data interpretations, basic probability, introductory statistics, and economics.

MTH 110. Introduction to Statistics I (no Computer Lab). 3 Credit Hours.

A data-oriented, applied introduction to statistics. Topics include descriptive statistics, data distributions, random sampling, relationships, confidence intervals and hypothesis testing. Statistical software will be used throughout this course. Students may not take both MTH 110 and MTH 111.

Prerequisite: Three years of regents- level mathematics.

MTH 111. Introduction to Statistics I (with Computer Lab). 4 Credit Hours.

A data oriented, applied introduction to statistics; includes a two hour per week computer lab. Topics include descriptive statistics, data distributions, random sampling, relationships, confidence intervals and hypothesis testing. Statistical software will be used throughout this course. Prerequisite: Three years of Regents-level mathematics. Students may not take both MTH 110 and MTH 111.

MTH 112. Introduction to Statistics II. 3 Credit Hours.

This course is a continuation of MTH 110 and MTH 111. Further methods of statistics and their use in life will be covered. It includes: inference for one and two population means, inference for two proportions and two variances, inference for simple and multiple regression, categorical data analysis, analysis of variance, nonparametric tests and logistic regression. A statistical program will be used throughout this course. Prerequisites: MTH 110, MTH 111 or equivalent.

MTH 120. Mathematics for Business Majors. 3 Credit Hours.

This course includes the following topics: exponential functions and models, mathematics of finance, linear systems and matrices, linear programming, derivatives. There is particular emphasis on applied problems. Students may not take both MTH 120 and MTH 123.

Prerequisite: three units of high-school mathematics or MTH 007.

MTH 122. Brief Calculus. 3 Credit Hours.

Elementary functions, exponential and logarithmic functions, continuity, derivatives, max-min methods and applications. Primarily for students in economics and accounting.

Prerequisite: three units of high-school mathematics including intermediate algebra.

MTH 123. Mathematics for Act Majors. 3 Credit Hours.

An introduction to various contemporary applications of mathematics drawn from the following topics: linear algebra, combinatorics, graph theory, probability, modern algebra. The emphasis is on the interplay between theory and application in mathematics. Students may not take both MTH 120 and MTH 123.

Prerequisite: Four years of high school mathematics.

MTH 145. Calculus I. 4 Credit Hours.

A study of differential and integral calculus of one variable and applications.

Prerequisite: four units of high-school mathematics or permission of the department chair.

MTH 146. Calculus II. 4 Credit Hours.

A study of differential and integral calculus of one and several variables and applications. Differential equations and their solutions.

Prerequisite: Grade of C- or better in MTH 145 or permission of the department chair.

MTH 211. Advanced Statistical Methods. 3 Credit Hours.

This course covers certain advanced topics used for planning, executing, and evaluating statistical studies based on experiments, surveys, and observational datasets. The goals of this course are to further statistical literacy, to deepen understanding of certain advanced statistical principles that are not covered in the current curriculum, to learn to use technology to analyze data and aid in conceptual understanding, and to learn to use statistics to help understand and solve real-world problems.

Prerequisite(s): MTH 110 or MTH 111 and MTH 112 or STA 201 and STA 202.

MTH 212. Statistical Consulting. 3 Credit Hours.

This course will introduce students to the challenges of working with real data. Students will collaborate with faculty or other students on real research projects, and act as the main data analyst for a real scientific project. The course will cover how to meet with clients, how to write reports, how to clean and manage data, and how to present results. Most particularly, the course will cover how best to analyze a data set based on the research questions of interest, and will teach the students the skills they need to run these analyses.

Prerequisite: MTH 211.

MTH 215. Financial Mathematics for Actuarial Science. 3 Credit Hours.

This course provides an understanding of the fundamental concepts of financial mathematics from an actuarial perspective, and how those concepts are applied in calculating present and accumulated values for various streams of cash flows as a basis for future use in: reserving, valuation, pricing, asset/liability management, investment income, capital budgeting, and valuing contingent cash flows. The course will cover topics of CAS Exam 2/SOA Exam FM. Note: Mandatory for students whose concentration is actuarial science to take this course and pass with at least a grade of B-.

Prerequisites: Grade of C or better in MTH 145.

MTH 245. Calculus III. 4 Credit Hours.

Multi-variate calculus with vectors. Line integrals and Green's theorem.
Prerequisite: A grade of C- or better in MTH 146 or permission of the department chair.

MTH 260. Discrete Mathematics. 3 Credit Hours.

This course covers the fundamental mathematical principles relevant to computer science, applied mathematics, and engineering. Topics included are propositional logic, predicate logic, proof techniques, (with an emphasis on mathematical induction), basics of counting and discrete probability.

Prerequisite: Grade of C- or better in MTH 145, or permission of the department chair.

Cross-listed Courses: CSC 281

MTH 261. Linear Algebra. 3 Credit Hours.

Systems of linear equations, matrix algebra, vectors and vector spaces, linear transformations, inner product spaces, determinants, characteristic values and vectors. (Offered each Fall) Students will not be able to get credit for both MTH 261 and MTH 304.

Prerequisites: MTH 145, MTH 146 (grade of C- or better), or permission of the department chair.

MTH 303. Differential Equations and Mathematical Modeling. 3 Credit Hours.

Differential equations play a vital role in modeling nearly every physical, chemical, and biological process. Understanding how to create and interpret mathematical models, as well as how to solve and characterize solutions of differential equations, is of fundamental importance to applied mathematics, contemporary science, and engineering. This course provides a first introduction to this ubiquitous field of analysis with a heavy emphasis on the development, refinement, and interpretation of mathematical models using differential equations. The first portion of the course examines the various analytical, qualitative and numerical techniques available for analyzing the solutions of linear and nonlinear first-order differential equations (topics include separable equations, linear equations, transformation of variables, series methods, integral transforms, slope fields, equilibria, Euler's Method, and bifurcations). The second portion of the course focuses on techniques for studying systems of first-order differential equations (topics include direction fields, phase planes, Euler's Method for systems, homogeneous and nonhomogeneous linear systems, and the linearization of nonlinear systems). Students will not be able to get credit for both MTH 303 and MTH 304.

Prerequisite: MTH 146 (grade of C- or better) or permission of the department chair.

MTH 304. Differential Equations for Scientists And Engineers. 4 Credit Hours.

Primarily intended for physics and pre-engineering majors, this course integrates the study of linear algebra and differential equations with substantial emphasis placed on understanding the deep connections between these foundational fields of study. Linear algebra topics covered in this course include Gauss-Jordan elimination, matrix algebra, inverse matrices, determinants, eigenvalues/eigenvectors, linear transformations, vector spaces, linear independence, span, basis and dimension. Differential equations topics covered in this course include separable equations, linear equations, transformation of variables, series methods, integral transforms, slope fields, Euler's Method, homogeneous and nonhomogeneous linear systems, and basic solution techniques for solving partial differential equations. Students will not be able to get credit for both MTH 261 and MTH 304, or for both MTH 303 and MTH 304.
Prerequisites: Grade of C- or better in MTH 245.

MTH 306. Topics in Number Theory. 3 Credit Hours.

Elementary properties of integers, divisibility and related concepts, methods of representing integers, functions of number theory, simple diophantine equations, special sequences and series. Offered every other fall.

Prerequisite: Grade of C- or better in MTH 260 or MTH 261 or permission of the department chair.

MTH 307. Combinatorial Mathematics and Graph Theory. 3 Credit Hours.

Some classical puzzles of recreational mathematics; enumeration techniques; combinatorial designs; graph theory and network flows.
Prerequisite: Grade of C- or better in either MTH 260 or MTH 261, or permission of the department chair.

MTH 311. Introduction to Probability Theory. 3 Credit Hours.

Basic probability theory, combinatorial analysis, independence and dependence. Discrete and continuous distributions, random variables, random vectors, multivariate distributions. Expectations and moment generating functions. Binomial, normal, Poisson and related distributions. Sums and sequences of random variables. Central limit theorem. (Offered each fall.).

Prerequisites: Grade of C- or better in MTH 245 or permission of the department chair.

MTH 312. Mathematical Statistics. 3 Credit Hours.

Distributions related to the normal. Estimation: consistency, unbiasedness, mean square error, sufficiency, method of moments, maximum likelihood estimates, confidence limits and intervals. Bayesian intervals. Tests of hypotheses: tests of simple hypotheses, Neyman-Pearson lemma, Bayes procedures, composite hypotheses, generalized likelihood ratio tests. Non-parametric procedures. Simple linear regression. (Offered every other spring.).

Prerequisite: MTH 311.

MTH 313. Applied Statistics. 3 Credit Hours.

Review of statistical methods. Simple and multiple linear regression. Regression diagnostics. Time series models. Moving average, autoregressive and ARIMA models. Forecasting with regression and time series models. (Offered every other spring.).

Prerequisites: MTH 311.

MTH 314. Actuarial Probability. 1 Credit Hour.

This is a course designed to prepare students to pass the actuary exam P. This course covers actuarial applications of set theory, combinatorial probability, Bayes theorem, probability density functions, joint probability functions, and marginal and conditional probability. It also introduces several advanced topics, including transformations, order statistics, and a number of named distributions not covered in MTH 311.

Prerequisites: C- or better in MTH 311.

MTH 315. Actuarial Financial Economics I. 3 Credit Hours.

The purpose of this 3-semester credit hour course is to develop the student's knowledge of the theoretical basis of certain actuarial models and the application of those models to insurance and other financial risks. The topics discussed include mean-variance portfolio theory, asset pricing models, market efficiency and behavioral finance, investment risk and project analysis, capital structure, forwards and futures, and theory of options.

Prerequisites: MTH 215, MTH 311 and FIN 301.

MTH 316. Actuarial Financial Economics II. 3 Credit Hours.

The purpose of this 3 semester credit hour course which builds on topics from MTH 315 and further develops the student's knowledge of the theory of options. The topics discussed include general properties of options, binomial pricing models, Black-Scholes option pricing model, option Greeks and risk management. This course covers parts of CAS exam 3F and SOA exam IFM.

Prerequisite: MTH 315.

MTH 332. Real Analysis. 4 Credit Hours.

An introduction to techniques of mathematical proof, with emphasis on the recognition and evaluation of problem structures common to all areas of mathematics. Application of these techniques to a detailed description of the Real Number system. Examination of the algebraic, set-theoretic and topological structures of the Real Number system (completeness, compactness, connectedness) and real sequences. (Offered each spring.).

Prerequisites: Grades of C- or better in MTH 245, or permission of the department chair.

MTH 335. Intro to Complex Variables. 3 Credit Hours.

The complex number system. Differentiability and the Cauchy-Riemann conditions. The exponential, trigonometric and logarithm functions. Complex integration; the Cauchy integral theorem and its implications. Consequences of the Cauchy integral formula. Taylor and Laurent series, singularities.

Prerequisite: Grade of C- or better in MTH 245, or permission of the department chair.

MTH 341. Abstract Algebra. 3 Credit Hours.

Introduction to group theory. Cyclic, Abelian, symmetric and product groups. Subgroups, equivalence relations, homomorphisms. (Offered each fall.).

Prerequisite: Grade of C- or better in MTH 261 or permission of the department chair.

MTH 361. Modern Geometry. 3 Credit Hours.

Topics from the foundations of geometry, non-Euclidean geometry, transformation theory, dissection theory, convexity. (Offered every spring.).

Prerequisite: Grade of C- or better in MTH 261 or permission of the department chair.

MTH 370. Intermediate Problem Solving. 3 Credit Hours.

A working introduction to general heuristic reasoning (including specialization, generalization, analogy and induction) useful in solving mathematical problems. (Offered every spring.).

Prerequisite: Grade of C- or better in MTH 245 or permission of the department chair.

MTH 390. Independent Study. 1-3 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the dean of arts and sciences.

MTH 421. Numerical Methods. 3 Credit Hours.

The development of algorithms for and error analysis of: solutions of equations, interpolation and approximation, numerical differentiation and integration, numerical solutions of differential equations. Also, knowledge of a high level programming language. (Offered every other fall.).

Prerequisites: Grade of C- or better in MTH 245 and MTH 261 or permission of the department chair.

Cross-listed Courses: CSC 421

MTH 481. Topology. 3 Credit Hours.

Topological spaces; separation and countability properties. Mappings and continuity. Compactness and connectedness of various types. Product and quotient spaces.

Prerequisite: MTH 332 or permission of the department chair.

MTH 490. Internship. 1-6 Credit Hours.

A limited number of internships are available to students to provide them with practical experience in the applications of mathematics in business. Prerequisites: Senior standing in mathematics and prior consultation with department chair.

MTH 494. Preparation for Mathematical Research. 1 Credit Hour.

This course is designed solely for Mathematics majors with an aim of making students understand, annotate and communicate (both verbally and in written form) the contents of a mathematical/statistical article. Also discussed will be the basics of the scientific document preparation system LaTeX.

MTH 495. Senior Research Project. 3 Credit Hours.

This course, exclusively for senior mathematics majors, involves the completion and presentation of a research project in the student's area of concentration. Prior to registration for the course, a student must submit a proposal and have it approved by the department chair. Students may work in teams of two or three on projects; however, team projects will require commensurably greater scope than individual projects.

Mathematics Major (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3

HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
Area of In-Depth Study ²		12-36
Select one of the following: ³		5-8
CSC 175	Introduction to Algorithms and Program Design	
& CSC 185	and Data Structures & Algorithms	
CSC 179	Transition to Python and Data Structures & Algorithms	
MTH 145	Calculus I	4
MTH 146	Calculus II	4
MTH 245	Calculus III	4
MTH 261	Linear Algebra	3
MTH 311	Introduction to Probability Theory	3
MTH 332	Real Analysis	4
MTH 341	Abstract Algebra	3
MTH 494	Preparation for Mathematical Research	1
MTH 495	Senior Research Project	3
Major Support Requirements		
Select one of the PHY, CHM, or BIO science course sequences:		8
PHY 105	General Physics Scientists/Engineers I	
& PHY 103	and General Physics Laboratory	
PHY 106	General Physics Scientists/Engineers II	
& PHY 104	and General Physics Laboratory	
CHM 151	Chemical Principles I	
& 151L	and Chemical Principles I Laboratory	
CHM 152	Chemical Principles II	
& 152L	and Chemical Principles II Lab	
BIO 191	General Biology I	
BIO 192	General Biology II	
Free Electives (area of in-depth study)		0-30
Total Credits		120

¹ Some Core requirements may be fulfilled by major requirements.

² By the end of the second semester of the sophomore year, the student is expected to select an area of in-depth study in the field of mathematics. These areas of study, and their requirements, are listed separately.

³ The CSC 179 Transition to Python & CSC 185 Data Structures & Algorithms sequence should only be taken when a student has transferred in an introductory programming course in a language that is not Python. All other students should complete CSC 175 Introduction to Algorithms and Program Design & CSC 185 Data Structures & Algorithms.

Pure Mathematics

Students must also complete Core requirements (p. 239).

Code	Title	Credit Hours
Area of Study Courses		
MTH 260	Discrete Mathematics	3
Select four additional MTH courses, either from the following list or approved by the department chair:		12
MTH 303	Differential Equations and Mathematical Modeling	
MTH 306	Topics in Number Theory	
MTH 307	Combinatorial Mathematics and Graph Theory	
MTH 361	Modern Geometry	
MTH 370	Intermediate Problem Solving	
MTH 335	Intro to Complex Variables	
MTH 481	Topology	
Total Credit Hours		15

Applied Mathematics

Students must also complete Core requirements (p. 239).

Code	Title	Credit Hours
Area of Study Courses		
MTH 260	Discrete Mathematics	3
MTH 303	Differential Equations and Mathematical Modeling	3
MTH 421	Numerical Methods	3
MTH 312	Mathematical Statistics	3
One additional MTH course, either from the following list or approved by the department chair:		3
MTH 307	Combinatorial Mathematics and Graph Theory	
MTH 313	Applied Statistics	
MTH 335	Intro to Complex Variables	
Completion of a minor, either from the following list or approved by the department chair:		
Computer Science (partially fulfilled by major and area of in-depth study requirements) ¹		15
Biology (may be partially fulfilled by major support) ²		15
Chemistry (may be partially fulfilled by major support) ²		15
Physics (may be partially fulfilled by major support) ²		23
Total Credit Hours		30-38

¹ Since MTH 260 and MTH 421 are cross listed as CSC 281 and CSC 421 respectively, only 3 additional credit hours are needed to complete this area of study.

² If this is the same field of study as the science sequence, only 7 additional credit hours are needed to complete this minor.

Statistics

Students must also complete Core requirements (p. 239).

Code	Title	Credit Hours
Area of Study Courses		
MTH 260	Discrete Mathematics	3
MTH 312	Mathematical Statistics	3
MTH 313	Applied Statistics	3
Select two additional MTH courses, either from the following list or approved by the department chair:		6
MTH 303	Differential Equations and Mathematical Modeling	
MTH 307	Combinatorial Mathematics and Graph Theory	
MTH 421	Numerical Methods	
MTH 335	Intro to Complex Variables	
Total Credit Hours		15

Actuarial Science

Students must also complete Core requirements (p. 239).

Code	Title	Credit Hours
Area of Study Courses		
MTH 215	Financial Mathematics for Actuarial Science	3
MTH 312	Mathematical Statistics	3
MTH 315	Actuarial Financial Economics I	3
MTH 316	Actuarial Financial Economics II	3
Select one additional MTH course, either from the following list or approved by the department chair:		9
MTH 313	Applied Statistics	
MTH 303	Differential Equations and Mathematical Modeling	
MTH 370	Intermediate Problem Solving	
MTH 421	Numerical Methods	
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
FIN 301	Principles of Finance	3
FIN 401	Investments	3
Total Credit Hours		36

The following courses are approved for Validation of Educational Experience credits by Society of Actuaries, Canadian Institute of Actuaries and Casualty Actuarial Society:

Code	Title	Credit Hours
MTH 312	Mathematical Statistics	3
FIN 301	Principles of Finance	3

FIN 401	Investments	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3

Adolescence Education Certification Track (Grades 7-12)

Students must also complete Core requirements (p. 239).

Code	Title	Credit Hours
Certification Track Courses		
MTH 361	Modern Geometry	3
MTH 370	Intermediate Problem Solving	3
Select two additional MTH courses, either from the following list or approved by the department chair:		6
MTH 303	Differential Equations and Mathematical Modeling	
MTH 306	Topics in Number Theory	
MTH 307	Combinatorial Mathematics and Graph Theory	
MTH 312	Mathematical Statistics	
Total Credit Hours		12

For courses required for teacher certification, refer to the Department of Education.

Childhood and Special Education Certification Track (Grades 1-6)

Students must also complete Core requirements (p. 239).

Code	Title	Credit Hours
Teacher Certification Track Courses		
MTH 361	Modern Geometry	3
MTH 370	Intermediate Problem Solving	3
Select two additional MTH courses, either from the following list or approved by the department chair:		6
MTH 303	Differential Equations and Mathematical Modeling	
MTH 306	Topics in Number Theory	
MTH 307	Combinatorial Mathematics and Graph Theory	
MTH 312	Mathematical Statistics	
Total Credit Hours		12

For courses required for teacher certification, contact the Department of Education.

NOTE: This typical program is for all areas of study except actuarial science, applied math, and education.

Course	Title	Credit Hours
Freshman Year		
First Semester		
MTH 145	Calculus I	4

CSC 175	Introduction to Algorithms and Program Design	4
World Language		3
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3

Credit Hours	17
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Second Semester

MTH 146	Calculus II	4
PHL 110	Introduction to Philosophy	3
World Language (EAC)		3
HST 111	World Civilization II ¹	3
CSC 185	Data Structures & Algorithms	4

Credit Hours	17
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Sophomore Year**First Semester**

MTH 245	Calculus III	4
MTH 260	Discrete Mathematics	3
MTH 261	Linear Algebra	3
HST 110	World Civilization I ¹	3
Science Elective		4

Credit Hours	17
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Second Semester

MTH 311	Introduction to Probability Theory	3
MTH 332	Real Analysis	4
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Science Elective		4

Credit Hours	17
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Junior Year**First Semester**

MTH 341	Abstract Algebra	3
MTH Area of Study Course		3
ENG 310	Literature and Culture	3
Theology (p. 61)		3
Elective		3

Credit Hours	15
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Second Semester

MTH Area of Study Course ²		3
MTH Area of Study Course		3
MTH 494	Preparation for Mathematical Research	1
Social Science (p. 61)		3
Religion (p. 61)		3
Elective		3

Credit Hours	16
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Senior Year**First Semester**

MTH Area of Study Course		3
COR 400	Senior Studies: Transformations	3
Elective (DIV)		3
Elective (VPA)		3
Elective		3

Credit Hours	15
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Second Semester

MTH Area of Study Course ²		3
MTH 495	Senior Research Project	3
IDS Interdisciplinary Studies (p. 61)		3
Elective		3
Elective		3

Credit Hours	15
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Total Credit Hours	129
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¹ HST 110 World Civilization I and HST 111 World Civilization II can be taken in either order.

² Statistics students should take MTH 312 Mathematical Statistics or MTH 313 Applied Statistics, whichever is available.

Typical Program for Actuarial Science Area of Study

Course	Title	Credit Hours
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Freshman Year**First Semester**

MTH 145	Calculus I	4
CSC 175	Introduction to Algorithms and Program Design	4
World Language (EAC)		3
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3

Credit Hours	17
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Second Semester

MTH 146	Calculus II	4
PHL 110	Introduction to Philosophy	3
World Language (EAC)		3
HST 111	World Civilization II ¹	3
CSC 185	Data Structures & Algorithms	4

Credit Hours	17
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Sophomore Year**First Semester**

MTH 245	Calculus III	4
MTH 261	Linear Algebra	3
HST 110	World Civilization I ¹	3
ECO 113	Principles of Microeconomics	3
Theology (p. 61)		

Credit Hours	13
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Second Semester

MTH 311	Introduction to Probability Theory	3
MTH 332	Real Analysis	4
ENG 210	Major Authors	3
ECO 114	Principles of Macroeconomics	3
MTH 215	Financial Mathematics for Actuarial Science	3

Credit Hours	16
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Junior Year**First Semester**

MTH 341	Abstract Algebra	3
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MTH 314	Actuarial Probability	1
Science Elective		4
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ENG 310	Literature and Culture	3
Elective (VPA)		3

Credit Hours 17

Second Semester

MTH 312 or MTH 313	Mathematical Statistics or Applied Statistics	3
MTH Area of Study Course		3
MTH 494	Preparation for Mathematical Research	1
FIN 301	Principles of Finance	3
PHL 210	Moral Philosophy	3
Religion (p. 61)		3

Credit Hours 16

Senior Year

First Semester

FIN 401	Investments	3
MTH 315	Actuarial Financial Economics I	3
COR 400	Senior Studies: Transformations	3
Elective		3
Elective		3

Credit Hours 15

Second Semester

MTH 312 or MTH 313	Mathematical Statistics or Applied Statistics	3
MTH 495	Senior Research Project	3
IDS Interdisciplinary Studies (p. 61)		3
Elective		3
MTH 316	Actuarial Financial Economics II	3

Credit Hours 15

Total Credit Hours 126

¹ HST 110 World Civilization I and HST 111 World Civilization II can be taken in either order.

Typical Program for Applied Mathematics Area of Study

Course	Title	Credit Hours
Freshman Year		
First Semester		
MTH 145	Calculus I	4
CSC 175	Introduction to Algorithms and Program Design	4
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
World Language		3
Credit Hours		17

Second Semester

MTH 146	Calculus II	4
PHL 110	Introduction to Philosophy	3
World Language (EAC)		3
HST 111	World Civilization II ¹	3
CSC 185	Data Structures & Algorithms	4

Credit Hours 17

Sophomore Year

First Semester

MTH 245	Calculus III	4
MTH 260	Discrete Mathematics	3
MTH 261	Linear Algebra	3
HST 110	World Civilization I ¹	3
Science Elective		4

Credit Hours 17

Second Semester

MTH 311	Introduction to Probability Theory	3
MTH 332	Real Analysis	4
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Science Elective		4

Credit Hours 17

Junior Year

First Semester

MTH 341	Abstract Algebra	3
MTH 303 or MTH 421	Differential Equations and Mathematical Modeling or Numerical Methods	3
ENG 310	Literature and Culture	3
Minor Course		3-4
Theology (p. 61)		3

Credit Hours 15-16

Second Semester

Choose one of the following: 3

MTH 312	Mathematical Statistics	
MTH Area of Study Course		
MTH 494	Preparation for Mathematical Research	1
Minor Course		3-4
Religion (p. 61)		3
Elective		3

Credit Hours 13-14

Senior Year

First Semester

MTH 303 or MTH 421	Differential Equations and Mathematical Modeling or Numerical Methods	3
COR 400	Senior Studies: Transformations	3
Social Science (p. 61)		3
Elective (DIV)		3
Elective (VPA)		

Credit Hours 12

Second Semester

Choose one of the following: 3

MTH 312	Mathematical Statistics	
MTH Area of Study Course		
MTH 495	Senior Research Project	3
IDS Interdisciplinary Studies (p. 61)		3
Elective		3
Elective		3
Credit Hours		15
Total Credit Hours		123-125

¹ HST 110 World Civilization I and HST 111 World Civilization II can be taken in either order.

Typical Program for Adolescent Education Certification Track (Grades 7-12)

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
MTH 145	Calculus I	4
World Language		3
COR 100	First Year Seminars: Transitions	3
CSC 175	Introduction to Algorithms and Program Design	4
Credit Hours		17
Second Semester		
MTH 146	Calculus II	4
CSC 185	Data Structures & Algorithms	4
PHL 110	Introduction to Philosophy	3
World Language (EAC)		3
HST 111	World Civilization II	3
Credit Hours		17
Sophomore Year		
First Semester		
MTH 245	Calculus III	4
MTH 261	Linear Algebra	3
Science Elective		4
HST 110	World Civilization I	3
EDU 200	Teaching in a Diverse Society	3
Credit Hours		17
Second Semester		
MTH 311	Introduction to Probability Theory	3
MTH 332	Real Analysis	4
ENG 210	Major Authors	3
EDU 215	Learning in a Sociocultural Context	3
EDU 315	Plan, Assessing, Managing Inclusive Clsm	3
Religion (p. 61)		3
Credit Hours		19
Junior Year		
First Semester		
MTH Area of Study Course		3
MTH 341	Abstract Algebra	3

MTH 361 or MTH 370	Modern Geometry or Intermediate Problem Solving	3
PHL 210	Moral Philosophy	3
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
Credit Hours		18
Second Semester		
MTH Area of Study Course		3
MTH 494	Preparation for Mathematical Research	1
EDU 325	Teach/Adapt Curric Content Specialists	3
Theology (p. 61)		3
EDU 303	Multicultural Literacy Methods	3
ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		19
Senior Year		
First Semester		
MTH 361 or MTH 370	Modern Geometry or Intermediate Problem Solving	3
MTH 495	Senior Research Project	3
COR 400	Senior Studies: Transformations	3
EDU 401	Adolescent Education Strategies & Technology	4
EDU 345	Collabor&Transition Plan Stu Spec Needs	3
EDU 335	Literacy Development in the Content Area	3
Credit Hours		19
Second Semester		
EDU 405	Preservice Clinical Teaching Seminar	3
EDU 460	Supervised Preservice Teaching (10-12)	6
EDU 450	Supervised Preservice Teaching (7-9)	6
Credit Hours		15
Total Credit Hours		141

NOTE: Students in the Adolescent/Special Education Certification Track should consult with their advisor about taking EDU 302 Special Education Processes and Assessment for Equity & Inclusion and EDU 345 Collabor&Transition Plan Stu Spec Needs

Typical Program for Dual Childhood/Special Education Certification Track (Grades 1-6)

Course	Title	Credit Hours
Freshman Year		
First Semester		
MTH 145	Calculus I	4
CSC 175	Introduction to Algorithms and Program Design	4
World Language		3

COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
Credit Hours		17

Second Semester

MTH 146	Calculus II	4
CSC 185	Data Structures & Algorithms	4
PHL 110	Introduction to Philosophy	3
World Language (EAC)		3
HST 111	World Civilization II	3
Credit Hours		17

Sophomore Year**First Semester**

MTH 245	Calculus III	4
MTH 261	Linear Algebra	3
Science Elective		4
HST 110	World Civilization I	3
EDU 200	Teaching in a Diverse Society	3
Credit Hours		17

Second Semester

MTH 311	Introduction to Probability Theory	3
MTH 332	Real Analysis	4
ENG 210	Major Authors	3
EDU 205	Childhood Learning and Special Needs	3
EDU 315	Plan, Assessing, Managing Inclusive Clsm	3
Credit Hours		16

Junior Year**First Semester**

MTH 341	Abstract Algebra	3
MTH Area of Study Course		3
MTH 361	Modern Geometry	3
Religion (p. 61)		3
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
Credit Hours		18

Second Semester

MTH Area of Study Course		3
MTH 494	Preparation for Mathematical Research	1
Theology (p. 61)		3
PHL 210	Moral Philosophy	3
ENG 310	Literature and Culture	3
EDU 305	Prin & Methods of Multicultural Literacy	3
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		19

Senior Year**First Semester**

MTH 361 or MTH 370	Modern Geometry or Intermediate Problem Solving	3
MTH 495	Senior Research Project	3
COR 400	Senior Studies: Transformations	3

EDU 365	Adapting Literacy Lrn Stu W/Spec Needs	3
EDU 375	Strategies for Teaching Content in Inclusive Classrooms (1-6)	3
EDU 376	Managing Environ for Stu W/ Disabilities	3
Credit Hours		18

Second Semester

EDU 405	Preservice Clinical Teaching Seminar	3
EDU 430	Supervised Preservice Teaching (grades 1-6)	6
EDU 431	Supervised Preservice Teaching (spe 1-6)	6
Credit Hours		15
Total Credit Hours		137

Mathematics Minor

To graduate with a minor in mathematics, a student must complete a program approved by the department chair consisting of at least five mathematics courses numbered 145 or higher including at least one mathematics course numbered 300 or higher. According to college policy, at least half the courses used for a minor must be taken at Le Moyne, and no course may be taken pass/fail.

Applied Statistics Minor

Data-driven research is growing at an explosive rate. Modern scientists are expected to have familiarity with much more complex methods of statistical analysis than was the case not too long ago. This Minor in Applied Statistics is designed to give students the skills they need to compete in this data-driven world and to gain experience and competency with the analysis of data in their major field of study. Students in this program will learn modern statistical methods beyond those covered in the curriculum for their majors. They will gain familiarity with statistical software and experience in analyzing real world data sets related to their major field of study. Students who complete the minor will, through their numeracy and comfort with data, have an advantage over other applicants when applying to graduate programs or industry jobs.

Code	Title	Credit Hours
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Minor Requirements

Choose one of the following Introduction to Statistics:	3
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MTH 110	Introduction to Statistics I (no Computer Lab)	
MTH 111	Introduction to Statistics I (with Computer Lab)	
STA 201	Statistics I	

Choose one of the following Introduction to Statistics 2:	3
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MTH 112	Introduction to Statistics II	
STA 202	Statistics II	

Choose one of the following courses (which may be double counted towards a student's major): ¹	3-4
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PSY 201	Intro to Research Methods	
ECO 325	Econometrics	
SOC 201	Research Methods	
ANL 301	Business Analytics	
BIO 230	General Ecology	
BIO 427	Bioinformatics	

MTH 313	Applied Statistics	
MIS 340	Data Science	
NSG 350	Research in Nursing	
CHM 311	Analytical Chemistry	
1 Note: Students may substitute the sequence PHY231+PHY331+PHY431 for the above requirement.		
Complete both of the following statistics electives:		
MTH 211	Advanced Statistical Methods	3
MTH 212	Statistical Consulting	3
Total Credit Hours		15-16

PEACE AND GLOBAL STUDIES

Chair: Matthew Loveland

Professor: Delia Popescu

Associate Professor: Matthew Loveland, Jonathan Parent

Professor of Practice: Anirban Acharya, James T. Snyder

Visiting Assistant Professor: Yunus Sozen

Professor Emeritus: J. Barron Boyd

Program Director: Delia Popescu

Peace and global studies is an interdisciplinary major designed to provide students with a way to understand the origins, challenges and ethical problems of the contemporary world. Students who take this major explore how the concepts of justice and peace are linked to issues of economics, labor relations, the environment, religion, gender and family, law and human rights, communications and culture.

As an interdisciplinary major, not all courses are offered by one department. Rather, courses are drawn from various fields in the humanities, (history, philosophy, religious studies) the social sciences (political science, anthropology, sociology) and world languages.

An important component of peace and global studies is the study of world languages. Majors are required to take six credits beyond intermediate in one language and pass a proficiency examination.

Peace and global studies majors are also required to take PGS 201 Introduction to Peace & Global Studies, and a capstone course. Peace and global studies majors are required to spend at least one semester abroad. They are also encouraged to participate in internship programs and service learning.

In addition to these requirements, peace and global studies majors are required to identify a thematic and regional specialization for their course of study. The letters T or R, listed at the end of course descriptions, indicate to which specialization the course is associated.

Thematic Specializations

Human Rights & Democratization

Violence

Peace and Reconciliation

International Relations

Cross-Cultural Encounters

Regional Specializations

Sub-Saharan Africa

Latin and South America

Europe

Asia

The Middle East & North Africa

Peace and global studies majors are well positioned to find careers in government service, non-governmental organizations or to pursue graduate studies and professional training in law, management and public policy.

Student Learning Outcomes in Peace & Global Studies

Global issues

PGS students are able to describe and analyze global political, social, economic, and cultural issues. This means they know details about the issue, particularly those with global significance, and are able to explain how international political relationships affect the issue in multiple international contexts. Assignments from several PGS courses are appropriate for assessment.

Specific region

PGS graduates will be knowledgeable of the social, cultural, and political aspects of a globalized world. In particular, they will be well versed about a country or region outside the United States. They will demonstrate this knowledge via papers written for a range of assignments.

World language

PGS graduates will be proficient in a world language. They will demonstrate this via a standardized language proficiency exam administered by the department of world languages.

- Peace and Global Studies Major (B.A.) (p. 102)
- Double Major (B.A.) in Peace and Global Studies and Political Science (p. 101)
- Peace and Global Studies Minor (p. 103)

Peace and Global Studies (PGS)

PGS 101. Introduction to Anthropology. 3 Credit Hours.

This course introduces students to the basic concepts, theories and methodologies in anthropology by focusing on the classic four fields of the discipline: physical anthropology, archaeology, linguistics and cultural anthropology. This course focuses on the evolution of the human species and theories of early culture, the reconstruction of the past through archaeological analysis, the structure and usage of language as part of culture, and the description and analysis of societies and cultures utilizing comparative theories and methodologies in cultural anthropology. No prerequisite. Fulfills Core requirement(s): DIV.

Cross-listed Courses: ANT 101

PGS 102. World Cultures. 3 Credit Hours.

What is it like to grow up in New Guinea? How do the Maya fit into the world system? Where do the Massai go when looking for a mate? This is a survey course to make you aware of various social structures and cultural practices around the world. By systematically analyzing many socio-cultural factors, such as subsistence, family, kinship, gender, political system, and religion the cause will illuminate basic similarities and differences among all peoples and cultures. Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: ANT 102

PGS 105. Comparative Politics. 3 Credit Hours.

This course will introduce you to the comparative analysis of governments, political movements, institutions, cultures, and ideologies around the world. The course will comparatively address a variety of cases including the UK, France, Brazil, Iran, China, Russia, India, Nigeria, and the U.S.

Fulfills Core Requirement(s): DIV.

Cross-listed Courses: PSC 105

PGS 200. Cultural Myths and Cultural Realities. 3 Credit Hours.

This course focuses on how we study other, especially non-western, cultures. In it, we look at recent critical debates on the nature of anthropological inquiry and the representations of other cultures that anthropologists have constructed. Is anthropology a science or humanity? How accurate are the anthropologists' representations of other cultures? Why do anthropologists studying the same culture come up with very different pictures of that culture? How much of the anthropologist's own personal and cultural biases are revealed in the way other cultures are described? How does the anthropologist's own theoretical perspective affect the way the data are interpreted? Is the nature of anthropological inquiry such that we can never escape biases? What kinds of methodologies do anthropologists use and what are their limitations? How can restudies enable us to refine our methods and generate more sophisticated comparative categories to use in the understanding of cultures? Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: GWS 200, ANT 200

PGS 201. Introduction to Peace & Global Studies. 3 Credit Hours.

This course will provide an introduction to Peace and Global Studies. The first segment of the course will examine different ways of thinking about peace and different methodologies to achieve a peaceful world. It will be interdisciplinary, examining the problem of peace from spiritual, psychological, anthropological, literary, historical, and political perspectives. The second segment of the course covers a variety of global topics and issues that are either threats to peace, pose the potential to create serious and enduring threats to the well-being of people of the world, or offer possible solutions. Taken together, the two segments of the course introduce students to some of the different approaches to peace that they will encounter and will help them to evaluate critically those approaches and perspectives. They will also have some insight into the range and complexity of the issues that are global in scope.

PGS 202. Gender and Crime. 3 Credit Hours.

This interdisciplinary course examines crime and criminal justice as gendered phenomena. It explores how notions of masculinity and femininity shape and are shaped by criminalized practices, the operation of the criminal justice system, and our understandings of both. Focusing on gender does not mean focusing exclusively on women. Gender is a relational concept; both men and women are gendered. In this course we will consider the implications of feminist theorizing for a range of criminological concepts, approaches, and themes. Case studies from various social contexts (e.g. the U.S., Canada, Mexico, Brazil, etc.) will help students develop cultural sensitivity and a more complete understanding of our social world. Additionally, the course will develop students' ability to think critically about gender and crime from an intersectional standpoint. Historical and contemporary works by criminologists, anthropologists, sociologists, feminist theorists, and others will be reviewed. An auxiliary aim of this course is to develop students' capacity to read and write academic texts efficiently and effectively.

Fulfills Core Requirement(s): Diversity (DIV) and Interdisciplinary Studies (IDS).

Cross-listed Courses: CJS 202, ANT 202, SOC 202, GWS 202

PGS 203. Anthropology of War. 3 Credit Hours.

Why do wars happen? What causes violence to erupt between different groups of people? Are we, as humans, biologically predisposed for violence, or are we pushed towards violence based on the social structures around us? How are societal inequalities exacerbated by war? How do different groups negotiate conflicts to leverage more power or violence, or reduce levels of violence? How do we commemorate and remember war and the casualties of conflict? What do our memories about the past tell us about how power is societally distributed in the present? This course explores the role of warfare in cultural construction and expression using a four-field anthropological approach, evaluating archaeological, skeletal, ethnographic and linguistic evidence of war throughout human existence.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: ANT 203

PGS 213. People & Cultures Southeast Asia. 3 Credit Hours.

An anthropological and topical introduction to the region of Southeast Asia and the various societies and cultures found there. Topics to be discussed are: regional definition and intra-regional variation, ecology and economic systems, history and prehistory, social organization including politico-territorial systems and concepts of hierarchy and power, kinship and alliance systems, patron-client systems, ethnic groups and ethnicity, religions, gender systems, personality and communicative systems such as language and other conceptual and symbolic systems. The focus of the course will be on analyses that contrast with western views and that have provided a source of debate on western theories of society and culture. Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: GWS 213, ANT 213

PGS 223. Global Crime. 3 Credit Hours.

This course explores illegal activity and criminalization in the context of the destabilizing effects of globalization. The course considers the transnational dimension of crime in both the developed and postcolonial parts of the world, and its connections to our own everyday lives. The course will cover the growth and character of the extra-legal networks of power and finance that shape our contemporary world, and will examine their relations with state power, corporate business, and law enforcement activities. Finally, it introduces some of the challenges of both supra-state and popular responses to illegitimate activities that are shaped by global political economy.

Prerequisite: CJS 101 or ANT 101.

Fulfills Core Requirement: Diversity (DIV).

Cross-listed Courses: CJS 223, ANT 223

PGS 225. Gangs and Criminal Community. 3 Credit Hours.

This course introduces students to gang-life as an urban phenomenon that starts in the 19th century and that in the 2000s is diffused across the margins and illicit flows of the global economy. Students will read memoirs of members of gang communities, with attention to notions of agency and iconoclasm, situating gang life in a continuum of political resistance. We will also look at the history of modern transnational gangs as a view into the history of displacement, modern war, and the pre-history to the discourses surrounding "global terrorism", giving students the tools for a critical reading of current debates around state security, "organized crime", and sovereignty.

Cross-listed Courses: CJS 225, SOC 225

PGS 261. International Politics. 3 Credit Hours.

A survey of some major problems associated with international politics. Special attention also is given to the study of nationalism, the nation-state, international organization (especially the United Nations), comparative foreign policies of selected nations. An integrated one-credit service learning experience may be offered in conjunction with this course.

PGS 300. Anthropological Linguistics. 3 Credit Hours.

An introduction to the science of linguistics, focusing on the social and cultural aspects of language. Topics to be considered are: 1) language and human nature; 2) linguistic and non-linguistic forms of communication; literate and oral cultures; 4) the basic components of language; 5) meaning in language and speech; 6) language differentiation along sociological lines (race, class, gender, etc.); and 7) the relationship between language and cultural knowledge systems, especially those of non-western cultures. Fulfills Core Requirements: Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: WLC 301, ANT 300

PGS 303. Democracy and Its Critics. 3 Credit Hours.

The term "democracy" has become synonymous with legitimate rule. But what kind of democracy is the true fountain of legitimacy? What type of institutions are best fitted for instituting democracy? What are the conditions without which democracy cannot survive? Who is included in the phrase "we, the people"? Are democratic regimes more viable in homogenous or heterogeneous societies? Can democracy be tyrannical? This course investigates historical and contemporary controversies that reflect various challenges to democracy, the forms of actual democratic politics, and the meaning of "democracy" as a concept.

Fulfills Core Requirement(s): IDS.

Cross-listed Courses: PSC 303

PGS 304. Anthropology of Refugees. 3 Credit Hours.

This course offers a critical introduction to the heterogeneous global histories and contemporary world politics that shape the experience of refugees globally and in the United States. By reading a range of anthropological as well as other related theoretical texts, we will explore issues central to the field of refugee/forced migration studies. What experiences define a refugee? Who is included in the category "refugee," and who or what decides? What constitutes a refugee camp, and where do refugees go from a camp? How have refugees resettled in American cities fared in recent times? In approaching these questions, the course will focus on the topics of displacement, dispossession, statelessness, border crossings, emplacement, refugee rights, subjectivity, and aspirations. We will examine ethnographies of Palestinian refugees in refugee camps in Lebanon to foreground lived experiences of encampment; Cambodian refugees resettled in the Bronx, New York to understand the relationship between the United States and the refugees it willingly accepts; and the everyday experience of Somali refugees living in Lewiston, Maine to underscore how recently arrived refugees navigate everyday marginalization. We will also consider our local context of Syracuse, New York as a major site for refugee resettlement since the 1980s.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: ANT 304

PGS 313. Mexico in Its Arts & Literature. 3 Credit Hours.

Despite Mexico's geographical proximity, political relevance and economic importance to the United States, few countries are as poorly understood as is Mexico among Americans. As a result, few Americans appreciate their neighbor's historical odyssey, in search of political stability, national unity, democracy and economic prosperity. This course offers an introduction to 20th and 21st century literature and cultural production about modern Mexico. Emphasis will be placed on the way intellectuals, writers and artists whose novels, short stories, films, paintings deal with Mexico City's changing social and political landscape, and how these representations question themes and trends in national identity, state control, globalization and immigration. The course will provide a historical outline of the interaction between artists, the state, and national identity in Mexico. It will also challenge dominant narratives within Mexican history, through an examination of the experience of subaltern groups, including women and indigenous peoples. This course includes a travel component. Students must request permission of instructor via an application in order to register.

Prerequisite: SPN 202.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: SPN 413

PGS 314. Post-Colonial Literature and Theory. 3 Credit Hours.

This course will introduce students to theories of colonialism through the study of world literatures. What is the impact colonization on a culture? How do questions of language, race, class, and gender impact the experience of colonialism? Students will read novels and short works from a variety of formerly subject nations, including India, Nigeria, Egypt, and Ireland. Short segments of theory will guide and accompany these readings.

Prerequisites: WRT 101, and ENG 200, ENG 210 or ENG 218.

Fulfills Core Requirement(s): DIV.

Cross-listed Courses: ENG 325, GWS 314

PGS 323. Contemporary World Literature in English. 3 Credit Hours.

Students will read major literary works in English by writers from Africa, Asia, and the Caribbean. The principal texts have been published since the 1980s, and address issues such as colonialism and postcolonialism, national identity, globalization, migration, economic exploitation, and gender and sexuality.

Prerequisites: WRT 101 and ENG 200 or 218.

PGS 325. Religious and Cultural Ecologies. 3 Credit Hours.

This course explores the rich diversity of religious and cultural ecologies found throughout much of the world. Religious and cultural ecologies refer to the scientific and scholarly studies of the vast, complex, diverse, and dynamic arena at the interfaces of religions and cultures on the one hand, and environments, ecologies and environmentalism on the other. The course asks the question of what roles, if any, the religious traditions of different cultures the world over might play in addressing the contemporary ecological crisis. This question is addressed from a combined religious studies and anthropological approach focusing on the intersections of religion, culture, and ecology from a textual, contextual, and cross-cultural or comparative framework.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: ANT 325

PGS 328. Latin America, Since 1825. 3 Credit Hours.

A study of the nations of Latin America from the independence period to the present. Chief emphasis on Argentina, Brazil, Chile and Mexico: their struggle for political and economic stability, their progressive urbanization and modernization and their relations with each other and with the United States. The Cuban and Nicaraguan revolutions and the policy of the United States toward Central America are also covered.

Cross-listed Courses: HST 428, PGS 428

PGS 329. History of Latin American Social Movements. 3 Credit Hours.

Will examine peaceful Latin American social change movements in historical and global context. The civil components of violent revolutions will be examined along with peaceful social movements that confronted ruthless dictatorships across Latin America, energizing democracy and expanding ethnic rights. The course will look at how these movements re-defined gender roles and placed the economic and environmental concerns of the poor in the international spotlight. Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: HST 329, GWS 329, PSC 329

PGS 330. Cross-Cultural Psychology. 3 Credit Hours.

Cross-cultural psychology is an approach emphasizing evaluation of psychological knowledge in the context of culture. Do the discoveries psychologists have made apply to all people from all cultures or only to some people, depending on culture? This course explores the impact of society and culture on human behavior, identity and personality development, social interaction norms, and even perceptual tendencies. We will examine what it means to say that humans are socio-cultural in nature. We will also examine those areas where humans differ, due to varied cultural experiences. Areas of interest will include education and development, views on intelligence, perceptual and cognitive processes, motivation, sex and gender and aggression. The examination of these issues will aid students in developing the ability to understand and interact with individuals and groups in other countries and in our own heterogeneous nation. Fulfills Core requirement(s): Diversity (DIV); and Interdisciplinary studies (IDS) *OR* Cultural Elective (CE). Course cannot fulfill all 3 requirements.

Cross-listed Courses: PSY 330

PGS 331. Readings in Globalization. 3 Credit Hours.

Through literature, film, and theory, this course explores the cultural and social significance of globalization and such related issues as migration, nationality, and identity. A central factor in globalization is the movement of people among different cultural locations and economic conditions, and this course will help students understand the importance of displacement in the creation of the contemporary era. Texts in this course consider what it means to identify with a plurality of linguistic, racial or cultural positions, and address the diverse yet deeply connected experiences that define contemporary global culture. Readings by authors such as Nuruddin Farah (Somalia), M.G. Vassanji (Kenya/Tanzania/Canada), and Zadie Smith (England), and films by directors such as Atom Egoyan (Canada), Hanif Kureishi (England), and Faith Akin (Germany/Turkey).

PGS 334. Social Activism. 3 Credit Hours.

An experiential and academic examination of social activism in the United States. The course first explores the meaning of citizenship and the role of activism in a democratic republic. It then focuses on how activism is done by analyzing various social movements and the impact they have had on citizenship, public policy and social change.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: GWS 334, PSC 334

PGS 335. Asian Philosophy. 3 Credit Hours.

An examination of the main philosophical traditions of India and the Far East: Hinduism, Buddhism, Taoism and Confucianism. This course will focus upon mysticism as a primary determinant of Eastern thought and will seek to place these philosophies in their historical and cultural setting. (C,D).

Cross-listed Courses: PHL 325

PGS 336. Comparative Religious Ethics & Social Concerns. 3 Credit Hours.

The course is a study in comparative religious ethics. The course will guide students through the ethical perspectives that eastern, western, and indigenous religious traditions have developed on four social issues facing our world: the construction of sexuality and gender, social justice, violence and the environment.

Prerequisite: REL 200.

Cross-listed Courses: REL 336

PGS 343. U.S. Latina Thought. 3 Credit Hours.

U.S. Third World women in general and Latinas in particular have raised important philosophical questions that have enriched philosophical and feminist considerations about the nature of the self, reality, knowledge and politics. This course will involve a close reading of a number of philosophical and literary texts by U.S. Latinas from a number of different social locations.

Cross-listed Courses: GWS 343

PGS 344. Immigration. 3 Credit Hours.

This course examines the topic of immigration from multiple perspectives: historical comparison between current and previous waves of immigrants, political debates over what we should do locally and nationally, the complex economic and social impacts of immigrants (both legal and unauthorized), the changing legal environment, comparative immigration policies, and the post-9/11 national security implications of immigration. This course aims to have you explore and challenge your own views, try to make sense of completing arguments and evidence, and gain a respect for perspectives not your own. A visit to the National Immigration Museum at Ellis Island may be planned.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PSC 344, SOC 343, CJS 343

PGS 350. State and Faith in the Middle East. 3 Credit Hours.

This course will examine how states used religion as a means of legitimacy and law as well as staged a desperate battle against religious forces from the Ottoman period until the present day. Islam will be the focus of the course, as a variety of fundamentalist/revivalist movements, the politicization of religion, and secularization efforts are examined throughout the Middle East. In addition, the role of Judaism and Christianity will be discussed in regards to the establishment and present situation of Israel and Lebanon.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: HST 350

PGS 357. Politics of the Middle East. 3 Credit Hours.

The goal of this course is to provide a nuanced understanding of Middle Eastern politics while fostering analytical skills. We will analyze contemporary political processes, starting from the establishment of nation-states and consolidation of authoritarianisms in the region, and working our way toward the Arab Spring and the authoritarian backlash that followed. Throughout the course, we will think about the key factors that shape politics in the region, specifically trying to critically think about 'Middle East exceptionalism' - the idea that authoritarianism is widespread and persistent in the region, more so than anywhere else in the world. This is a comparative politics course that integrates history with international relations through a comparative lens, and as a result, its focus is on the development of state-society relations. The topics covered here are pertinent to current international debates related to populism, nationalism, the rise of authoritarianism, and challenges to democracy and democratic institutions. Junior standing required. Fulfills Core Requirements: Interdisciplinary Studies (IDS) and Diversity (DIV).

Cross-listed Courses: PSC 357

PGS 358. The Cold War & Global Confront 1945-1964. 3 Credit Hours.

An intensive study of superpower confrontations and conflicts from 1945 through 1964. Soviet and American attitudes and ideologies, the roots and origins of the Cold War, the nuclear arms race, crises and clashes in Europe and the Third World, social and cultural impacts.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: HST 358

PGS 360. Model United Nations. 1 Credit Hour.

This course is designed to provide an orientation to the activities of the United Nations, as well as providing an understanding of the modalities of international diplomacy. This course will include current events, pressing international issues, the basics of international law and some of the protocol and procedures of diplomacy. All of this will assist students in preparing for their role as a distinguished diplomat at the National Model United Nations conference (conference attendance is not mandatory).

Cross-listed Courses: PSC 360

PGS 363. U.S. Foreign Policy. 3 Credit Hours.

This course will examine how the foreign policy of the United States is made. It will look at the sources of foreign policy, the factors which influence its formation, and the substance of past and present U.S. policies. A one-credit integrated service learning experience may be offered with this course.

Cross-listed Courses: PSC 363

PGS 364. International Law. 3 Credit Hours.

The course will examine the theory and practice of International Law (IL) with reference to various events, which shaped the development of international law in all its forms (norms, rules, principles, precedent, custom, treaties etc). The course will emphasize current international legal norms and possibilities for future development.

Cross-listed Courses: PSC 362, LGS 362

PGS 365. Religions of Asia. 3 Credit Hours.

The practices, beliefs and history of Hinduism, Buddhism (including Japanese developments) and Taoism will be examined in this course. Particular attention will be given to the relationship of each tradition to its cultural context in the course of history and to problems confronting each tradition in the modern world.

Prerequisite: REL 200.

Cross-listed Courses: REL 363

PGS 366. Globalization: the Politics of International Economic Relations. 3 Credit Hours.

This course focuses on the power relationships behind contemporary international economic events. Among the issues that will be addressed: trade and protectionism, multinational corporations, international debt, the opening of investment markets in Eastern Europe and Western Third World economic relations. The basic principles of macroeconomics and international finance will be covered.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PSC 366

PGS 367. War, Peace and Violence. 3 Credit Hours.

This course will examine the theory and practice of the Just War doctrine. At the most general level, we will be concerned with the debate between realists, just war theorists and pacifists over the moral character of war. More specific topics include the justification of defensive, pre-emptive and preventive wars; humanitarian intervention; the combatant/noncombatant distinction; the distinction between direct and "collateral" harm to civilians; sieges, blockades and economic sanctions; guerrilla warfare; terrorism and reprisals; nuclear deterrence; and various religious conceptions of war and peace, especially those found in various Christian pacifist and Islamic traditions.

Fulfills Core Requirement(s): IDS.

Cross-listed Courses: PSC 367

PGS 367S. War, Peace & Violence Service Learning. 1 Credit Hour.
Service learning experience.

PGS 369. Cold War & Global Upheaval, 1964-Present. 3 Credit Hours.
An intensive study of the later years of the Cold War and the post-Cold War period. Continued Soviet and American rivalry combined with efforts to control the nuclear arms race, Third World "proxy wars" such as Vietnam and Afghanistan, the collapse of the Iron Curtain and end of the Soviet Union, global adjustments to the development of a unipolar world, the rise of terrorism and jihadist tendencies, social and cultural impacts. Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: HST 359, PSC 359

PGS 370. International Courts & Global Justice. 3 Credit Hours.
This course combines almost three weeks of study abroad at The Hague University in the summer with Le Moyne-based sessions in the Fall. The course provides historical, analytical, as well as experiential education in the fields of genocide studies, justice, and conflict resolution through intensive workshops, lectures, simulations, and a case-study. We will focus on the meaning of justice and its various dimensions (do we seek retribution, restoration, or some transitional middle ground?), and on how the international pursuit of that justice is complicated by issues such as sovereignty, denial of genocide, on-going violence, and the rejection of international jurisdiction. The course consists of in-class "traditional" lectures at (built around the case study and all of the related facets of international justice), interactive sessions with international court personnel, jurists, and scholars, as well as visits to historical sites. Cross-listed Courses: PSC 370

PGS 375. The New Europe: Central & Eastern Europe. 3 Credit Hours.
This course provides a comparative analysis of the political systems in Eastern Europe from 1945 to the present. The goal of this course is to provide students with a broad perspective on the changes that took place in Eastern Europe over the last century with an emphasis on the period around and after the 1989 revolutions. Fulfills Core Requirement(s): IDS and DIV.

Cross-listed Courses: PSC 375

PGS 377. Security Studies. 3 Credit Hours.
The purpose of this course is to introduce a selection of the most important ideas that form the basis of security studies including the international political system, the state, the military, and war, and other prevailing concepts, organizing principles, military deployment patterns, legal regulations, and political relationships that determine the state of international security at the moment. The course will also explore the organization and functions of the U.S. Intelligence community, its interaction with national security policymakers, key issues about its workings, and the challenges it faces in defining its future role. Cross-listed Courses: PSC 377

PGS 379. Modern Middle East Hist 1792 - Present. 3 Credit Hours.
The last two hundred years have been a period of profound and often troubling change for the people of the Middle East. In this period, modern technology, rapid forms of travel and communication and new ideas and concepts challenged for many the certainties of religion, family, gender, and class. A fundamental feature of these two centuries has been the growing role of Europe and Europeans in the lives of the inhabitants of the Middle East. Imperialism, colonialism and nationalism set in motion a series of events that transformed the region from a place where two great empires, the Ottoman and Qajar held sway, into a dozen independent states like Turkey, Egypt, Israel, Syria, Iraq, Jordan and Iran. This course uses the words, art, literature and thought of local people to understand the way these changes interacted with the intellectual, social and cultural dimensions of Middle Eastern life. Fulfills Core Requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: HST 379

PGS 381. Christianity in Dialogue. 3 Credit Hours.
This course will explore contemporary dialogue between Christianity and other world religions, with the aim of helping students address basic questions that arise in the course of such inter-religious relationships. Students will explore some of the basic attitudes that Christian thinkers have taken toward respectful engagement of other faiths, as well as addressing the obstacles that hinder dialogue. Furthermore, Christian approaches to interfaith dialogue will be explored intensively with respect to one particular world religion or family of traditions, which may vary as the course is offered from year to year. We will enter into the contemporary dialogue between Christianity and Hinduism. Our study will focus on Hindu-Christian dialogue as it has been enacted in both personal and communal contexts. A further focus will address the performance of dialogue through the cross-cultural interpretation of canonical texts. Prerequisite/ Corequisite: REL 200.

PGS 388. Coca, Culture & Politics in Latin Amer. 3 Credit Hours.
Coca has been closely connected to religion and culture in Andean South America for millennia. The plant was both cultivated and controlled by the Inca and Spanish empires. Today, peasant coca growers are part of new Latin American political movements. Global demand for the drug cocaine, made from coca, finances insurgencies, civil wars, and criminal violence in Latin America. The United States and international bodies prosecute a "War on Drugs" that targets peasant growers and traditional use as much as it does criminal organizations. This course explores the local culture and international relations of coca and cocaine. It focuses on the Latin Americans who produce and consume coca and are victimized by the violence of both the drug trade and suppression efforts. Fulfills Core Requirement(s): Diversity (DIV); Interdisciplinary Studies (IDS) *OR* Cultural Elective (CE). Business Majors cannot use this course to fulfill both both IDS and CE. Cross-listed Courses: HST 388

PGS 389. Opium, Empire, and State in Asia. 3 Credit Hours.

Opium is an ancient medicine that became a mainstay for European traders in Asia and the keystone of their imperial economies. After opium opened Asian states to European influence it was established as an economic necessity for multi-national empires, emerging states, and insurgencies alike. This course looks at the political, economic, and social relations of opium in Asia and the world. It examines the connections between local production and global trade in the politics of native cultures, national governments, and international relations. At the end of the semester students will be able to look at today's headlines and understand their historical roots as well their future implications. Fulfills Core requirement(s): Diversity (DIV); and Interdisciplinary studies (IDS) *OR* Cultural Elective (CE). Course cannot fulfill all 3 requirements. Cross-listed Courses: HST 389, PSC 389

PGS 390. Independent Study. 3 Credit Hours.**PGS 399. Diversity in the City. 3 Credit Hours.**

Special Topic: The course focuses on the cultural, ethnic, religious and class diversity of Paris' changing landscape. Students will use Bourdieu, Goffman, Marx, and Simmel and other theorists to understand diversity, culture and identity by studying the diversity of "the city." Through readings, documentaries and a weeklong trip to Paris students will use sociological theories on society and culture to study diversity in the city. In particular the minority populations of the immigrant French communities, the recent North African immigrant communities, and the Muslim communities will be examined. This class will also explore how religious (Catholic and Muslim) as well as ethnic diversity shapes current debates on French and European citizenship. This class concludes with a 11-12 day trip to Paris that will include visits to the Eiffel Tower, Notre Dame, the Arab Institute, Luxembourg Gardens, La Mosque (Paris' mosque) and Jardin des Plantes. Cross-listed Courses: SOC 399

PGS 400. International Business. 3 Credit Hours.

The purpose of this course is to provide students with a foundation of the basic concepts and tools for the conduct of international business. Consideration is given to the managerial and operational opportunities and problems of the company operating internationally. Emphasis is on behavioral aspects and environmental factors influencing and affecting the use of international business strategies, the development of an international orientation. The role of international business as a contributor to the company's overall business objective achievement is stressed.

Prerequisite: senior standing in business or permission of the instructor.

Cross-listed Courses: BUS 400

PGS 401. Seminar: Mexico. 3 Credit Hours.

This course provides a detailed study of Mexico from pre-Columbian times to the present day. Themes include Maya and Aztec civilizations, the Spanish conquest, Mexico under Spanish colonial rule, the independence movements of 1810-1823, the era of the Great Reforms, the Mexican Revolution of 1910, and political, social and economic developments in contemporary Mexico. Fulfills ENG/HST senior core requirement. Junior standing required. Fulfills Core requirement(s): Diversity (DIV); and Interdisciplinary studies (IDS) *OR* Cultural Elective (CE). Course cannot fulfill all 3 requirements. Cross-listed Courses: HST 403

PGS 402. Global Economic Issues. 3 Credit Hours.

Is globalization inevitable and irreversible? Who are the winners and losers? Globalization is the process of integration of markets, politics, and legal systems. Supporters of globalization believe it increases a nation's economic growth and expands opportunities for countries to trade and realize comparative advantages in their areas of strength. Opponents believe it increases inequality within and between nations, threatens employment and living standards, thwarts labor and environmental standards, and retards social progress. This course includes a description of the principles and practices of foreign trade; mechanisms of international payments; international trade policies, international trade and financial institutions; international cartels; and defines globalization; examines its impact on trade; movement of capital and labor; diffusion of knowledge and technology, and distribution of income in the world.

Prerequisite: Either ECO 113 or ECO 114.

Cross-listed Courses: ECO 405

PGS 404. Jerusalem-The Politics of Sacred Space. 3 Credit Hours.

These courses are designed to investigate the presuppositions, structures and images that underlie the human attempt to understand basic religious issues. Through various unifying foci (such as the question of God, theory and praxis, faith and justice, etc.), students will be enabled to come to a reflective understanding of their own religious assumptions and values in the context of their previous years of study. The courses will have a seminar format, with an emphasis on student discussion and active integration of material through class presentations and written work.

Cross-listed Courses: REL 402

PGS 405. International Human Rights. 3 Credit Hours.

This course will examine the development of human right in the international system. It will explore the content of the current international human right regime -the "blue" social and political rights and the "red" economic rights, as well as "green" rights to development, a clean environment, and peace. It will explore how rights develop and are propagated and will examine the role of governments, international organizations, and non-governmental organizations in the development of rights thinking. By way of illustration, it will examine the anti-apartheid struggle in South Africa and the expansion of women's rights over the last twenty years. A one-credit integrated service learning experience may be offered with this course.

Cross-listed Courses: GWS 405, PSC 405

PGS 406. Modern East Asia. 3 Credit Hours.

This course studies the history of China, Japan, Korea and Vietnam during the nineteenth and twentieth centuries, with emphasis on their customs and cultures and the impact on them of modernization, imperialism, revolution and war. A seminar project and oral report are required of all students. Fulfills ENG/HST senior core requirement. Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: HST 406

PGS 408. Religion,Conflict,Peace/African Context. 3 Credit Hours.

This course is designed to introduce the class to basic questions, patterns, and contemporary issues on religion, justice, and peace in an African context. As such, the course will not be centered on the presentation of a particular narrative, thematic or structural account of the history of the multiple conflict situations in Africa. On the contrary, it is the aim of this course to take a case-study approach to the problems affecting Africa. In the light of the perspectives on Peace and Global Studies Program at Le Moyne College, we shall focus on ethnicity, religion and justice in conflict situation in African problems, it will also seek to acquaint students with how some of the socio-economic, political and religious problems affecting the continent go back to the colonial period. Cross-listed Courses: REL 400

PGS 409. Self Knowledge,Cosmopolis&Transcendence. 3 Credit Hours.

This course pays close attention to our own historicity. Each participant will make a conscious attempt to be authentic in responding to the question, who am I, and to engage the question of the meaning of their own identity and existence in relation to the cosmos, transcendence, and society. The selected readings and pedagogy employed will serve as a maieutic- midwife- in the Socratic sense; inspiring the student to articulate who he or she is, and how she ought to live with others, care for the earth, and collaborate in originating creative healing social and environmental structures. In this connection we will engage the significance and implications of the following phenomenon: "to equip an animal with intelligence constitutes not only the possibility of culture and of science but also the possibility of every abomination that has occurred in the course of human history".

PGS 413. History & Memory in Palestine-Israeli Conflict. 3 Credit Hours.

This seminar explores the Palestinian-Israeli conflict through the lens of the linked concepts of history and memory. It uses as well, the rich literature generated by the conflict to explore the connections between historiography, commemoration, museology, archaeology and power; it takes a multidisciplinary approach to an understanding of how the history of the region has been written and how the past is made to live in the lives of contemporary Palestinians and Israelis. Likewise, it interrogates how history and memory are inscribed on national and diasporan identity and problematizes phenomena like "collective memory" "transgenerational trauma" and "national history." Fulfills ENG/ HST senior core requirement. Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE). Cross-listed Courses: HST 409

PGS 417. Seminar: African History. 3 Credit Hours.

This course introduces students to the development of African historiography. Students will interpret, analyze and critique different methodologies and have the opportunity to pursue their own specific research interests. In addition, this course will also examine the importance of the African oral tradition, European and Arabic travel literature, archeology and anthropology in the intellectual construction of Africa. This course is designed for upper-level history majors and other interested students and will fulfill the requirements of the senior core. Fulfills Core Requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: HST 417, PSC 417

PGS 428. Latin America, Since 1825. 3 Credit Hours.

A study of the nations of Latin America from the independence period to the present. Chief emphasis on Argentina, Brazil, Chile and Mexico: their struggle for political and economic stability, their progressive urbanization and modernization and their relations with each other and with the United States. The Cuban and Nicaraguan revolutions and the policy of the United States toward Central America are also covered. Fulfills Core Requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: HST 428, PGS 328

PGS 450. Spanish Women Writers. 3 Credit Hours.

In this course students will explore different aspects related to the literary expression and construction of identity through the study of works by women writers both from Spain and Latin America who practice a variety of genres; autobiography, novel, short story and poetry. Through the analysis of these texts we will derive interdisciplinary discussions related to the construction of gender, sexuality and feminine creativity. We will examine not only the form and the content of the texts, but we will also contextualize the works in their historical, cultural and literary background. Through the use of secondary texts such as paintings, documentaries, musical compositions and film, the students will explore the different forms of art and disciplines that intersect with the texts and project the worldview of each period.

Cross-listed Courses: GWS 360, SPN 451

Double Major (B.A.) in Peace and Global Studies and Political Science

Code	Title	Credit Hours
Core Requirements (p. 61)		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
Capstone Course		3
Capstone Experience ¹		3
Electives - Regional ²		9
Electives - Thematic ²		9
World Language		18
Free Electives ³		17

PGS 101	Introduction to Anthropology	3
PGS 201	Introduction to Peace & Global Studies	3
PSC 201	Introduction to Political Science	3
PSC 202	Methods of Political Science	3
PSC Electives (300 or higher)		6
Social Science (fulfilled by major requirements)		
Statistics		4
Total Credit Hours		133

¹ Normally fulfilled by study abroad experience.

² Twelve of the 18 credit hours should be courses with PGS/PSC cross listing.

³ Students are urged to fulfill the extra two credit hours through participation in service learning courses.

Peace and Global Studies Major (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
Capstone Course ²		3
Capstone Experience ³		3
World Language ⁴		18
PGS 201	Introduction to Peace & Global Studies	3
Electives		
Regional Specialization ⁵		12
Thematic Specialization		12
Free Electives		27
Total Credits		120

¹ Some Core requirements may be fulfilled by major requirements.

² Course designated by Peace and Global Studies Program

³ Majors are required to spend at least one semester abroad in an officially recognized academic program. The director of peace and global studies may waive this requirement in special circumstances.

⁴ World Language: Students are required to take six credit hours beyond intermediate in one living world language and demonstrate at least an intermediate level of proficiency according to ACTFL oral proficiency guidelines.

⁵ Supported regional specializations include Africa, Latin and South America, Europe, Asia and the Middle East.

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
EAC Encountering Another Culture/Language (p. 61)		3
Regional Specialization		3
Natural Science (p. 61)		3
Credit Hours		15
Second Semester		
ENG/PHL		3
HST 110	World Civilization I	3
EAC Encountering Another Culture/Language (p. 61)		3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
Free Elective		3
Credit Hours		15
Sophomore Year		
First Semester		
ENG/PHL		3
EAC Encountering Another Culture/Language (p. 61)		3
PGS 201	Introduction to Peace & Global Studies	3
Thematic Specialization		3
Free Elective/REL		3
Credit Hours		15
Second Semester		
ENG/PHL		3
EAC Encountering Another Culture/Language (p. 61)		3
Regional Specialization		3
Free Elective		3
Free Elective/REL		3
Credit Hours		15
Junior Year		
First Semester		
ENG/PHL		3
EAC Encountering Another Culture/Language (p. 61)		3
Regional Specialization		3
Free Elective		3
Capstone Experience		3
Credit Hours		15
Second Semester		
HST 111	World Civilization II	3

EAC Encountering Another Culture/Language (p. 61)	3
Thematic Specialization	3
Free Elective	3
Free Elective	3
Credit Hours	15
Senior Year	
First Semester	
IDS Interdisciplinary Studies (p. 61)	3
Capstone Seminar	3
Thematic Specialization	3
Free Elective	3
Free Elective	3
Credit Hours	15
Second Semester	
Regional Specialization	3
Free Elective	3
Free Elective	3
Free Elective	3
COR 400 Senior Studies: Transformations	3
Credit Hours	15
Total Credit Hours	120

All peace and global studies majors are encouraged to study abroad during their junior year.

Peace and Global Studies Minor

The minor in peace and global studies is open to all majors and those students interested in gaining a global perspective on issues of history, culture, politics and conflict resolution. Minors are required to attain an intermediate proficiency in one living world language and take both PGS 201 Introduction to Peace & Global Studies and a PGS capstone seminar. Minors must take four additional courses approved by the director of peace and global studies.

Code	Title	Credit Hours
PGS 201	Introduction to Peace & Global Studies	3
PGS capstone seminar		3
Four additional courses approved by the director of peace and global studies		12
Total Credit Hours		18

Supported thematic specializations include, but are not limited to, Human Rights and Democratization, Violence, International Relations, Cross-cultural Encounters and Peace and Reconciliation.

Peace and global studies majors will design an appropriate course of study with the director of peace and global studies.

PHILOSOPHY

Chair: Ludger Viefhues-Bailey

Professor: Thomas Brockelman, William Day, Karmen MacKendrick, Mario Saenz, Ludger Viefhues-Bailey

Associate Professor: Steven Affeldt, C. Tabor Fisher, Michael Kagan, Irene Liu

Assistant Professor: John Monteleone, Joseph Spino

Professor of Practice: Eugene B. Young

Adjunct Faculty: Meg Giordano, Alex Krantz, James Lee, Max Malikow, Charles F. Maxfield, Daniel Murphy, Jeremy Pierce, Pamela A. Ryan

Professor Emeritus: Jonathan Schonsheck

The aim of the study of philosophy at Le Moyne is to orient students in the development of critical and speculative thought, under conditions of intellectual and affective freedom, and with a sense of openness towards alternative visions of life-experience. The study of philosophy at Le Moyne is pluralistic in approach. As such, it allows majors and non-majors alike to focus on those philosophical themes that best respond to their individual concerns and vocational aspirations. These include graduate study in philosophy or related disciplines (e.g., religious studies; women's studies; critical, literary and film theory; etc.), professional studies (in law, medicine or the ministry), and other careers (in finance, communications, social entrepreneurship, civil rights, ecology, etc.).

Core Program

The core program of study in philosophy serves majors and non-majors alike, since questions proper to philosophy are common to everyone and should be thematically studied by every liberally educated person. The core program is intended to clarify philosophic questions about human life and reality generally and to help students develop a philosophic understanding of their world and a method for enlarging that understanding in the future. See core curriculum at the beginning of the Undergraduate Programs section for regulations concerning the sequence of core courses.

Student Learning Outcomes in Philosophy

Eyes of others

Students will be able to articulate a philosophical understanding of the world through the eyes of others.

Philosophically Significant Life-Experiences

Students will be able to articulate philosophically significant issues in their own life-experiences.

Historical concepts and themes

Students will be able to explain important philosophical concepts and themes in relation to significant historical periods of philosophy.

Flow of logic

Students will be able to summarize a philosophical argument with appropriate detail.

Evaluate arguments

Students will be able to evaluate arguments.

Construct arguments

Students will be able to express their original philosophical views persuasively in writing.

- Philosophy Major (B.A.) (p. 262)
- Philosophy Minor (p. 263)
- Ethics, Values, and Professional Life Minor (p. 263)
- Interdisciplinary Minor in Philosophy & Computer Science (p. 104)

Philosophy (PHL)

PHL 110. Introduction to Philosophy. 3 Credit Hours.

As a writing instructional course, this course introduces students to the practice of philosophy and to some of the central questions, modes of inquiry, and forms of analysis and argumentation that distinguish philosophy from other ways of understanding ourselves and our world. Organized around the themes of "the human condition" and "the examined life", the course engages students in reflective dialogue about central concepts that define the human condition (e.g., knowledge and understanding, beauty and value, justice and community, transcendence and the divine, etc.). By linking rigorous analysis with engaged reflection on the concrete task of living an examined life, PHL 110 exemplifies the core value of Le Moyne's Jesuit educational mission of educating both the hearts and minds of our students.

Prerequisite: WRT 101 or permission of the department chair.

PHL 210. Moral Philosophy. 3 Credit Hours.

This course investigates the philosophical foundations of normative ethics in an effort to clarify the status of moral values in human life. Drawing upon classical as well as contemporary texts in moral theory, the course will consider issues such as: What does it mean to be a moral being or a moral agent? Are moral values grounded in human nature, the natural order, the divine? What are the methods and possible limits of reasoning about moral values? Is moral philosophy (merely) descriptive of the practices and values of various groups or can it be prescriptive; can it, that is, tell us what we ought to do? How might we understand the historical development of moral theory and the diversity of systems of value? How might conflicts between these systems of thought be understood, assessed, and/or resolved? Sections capped at 30.

Prerequisite: PHL 110 or HON 110 or permission of the department chair.

PHL 310. Critical Reasoning. 3 Credit Hours.

This class will help students become better critical thinkers through a non-technical study of arguments. Students will learn what an argument is, how to distinguish arguments from explanations and other non-argumentative uses of language, and how to both recognize and understand the structure of arguments. Students will also practice identifying weaknesses in arguments offered by others, and will consider argument forms that occur frequently in the media, politics, the academy, and everyday life. Finally students will hone their skills at crafting strong arguments, which contain relevant and persuasive evidence, clear definitions, and effective methods of reasoning. Prerequisite(s): PHL 110, PHL 210, HON 110 or HON 215.

Fulfills: Logic/Writing requirement.

PHL 311. Introduction to Formal Logic. 3 Credit Hours.

Students will have the opportunity of discovering and exploring the structure and interrelations of the various kinds of propositions that occur in deductive reasoning. Logic will be presented as applying to the actual world incidentally, but to possible types of order explicitly. Propositional logic, predicated logic, classes and relations will be part of its content. Quantified expressions will be studied. Some attention will also be given to the non-deductive processes of the scientific method and the analysis of probabilities. Throughout the course there will be a wide selection of problem-solving challenges.

Prerequisite: PHL 110, HON 110, PHL 210 OR HON 215.

Fulfills: Logic/Writing requirement.

PHL 320. Ancient and Medieval Philosophy. 3 Credit Hours.

This course is an introduction to ancient and medieval philosophy. The course covers a variety of topics, e.g. happiness, nature, knowledge, and God, through engagement with Plato, Aristotle, and other major philosophers of these periods. In addition to addressing philosophical topics of perennial interest, this course seeks to cultivate an appreciation of philosophical inquiry in its intellectual and historical context by considering developments such as the emergence of philosophy from traditional Greek wisdom, the challenge of the Sophists, the encounter between Greek philosophy and Christianity, etc.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: History requirement.

PHL 321. Philosophy & Making of the Mod. World. 3 Credit Hours.

This course examines, in historical context, the philosophical ideas ingredient to the emergence of the modern world. Attention will be paid to theories that undergird major developments of the early modern period, e.g. in science, politics religion, or art. Themes covered may include, for example, the increasing emphasis on epistemology (rationalism & empiricism) at the expense of metaphysics, the subjectivist birth of the modern idea of the self, and the modern transformation of approaches to moral and ethical questions. Texts will be drawn from (among others) works of Descartes, Locke, Hume, Rousseau and Kant.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: History requirement.

PHL 322. Kant Through Contemporary Thought. 3 Credit Hours.

This course is a survey of Western philosophy from the nineteenth century until today. It begins with the rise of German idealism (Kant, Fichte, Schelling, Hegel) and its nineteenth century critics, for example, the "dialectics of suspicion" concerning the transcendental subject as elaborated by Marx, Kierkegaard, and Nietzsche, or the utilitarian tradition. Depending on student or faculty interest, the course may continue with a study of existentialism and phenomenology (for example, the analysis of lived experience and intersubjectivity), logical positivism and analytic philosophy (for example, the linguistic turn, or philosophical reflections on science and scientific method), and/or critical theory, poststructuralism and postmodernism (e.g., critiques of positivism and metanarratives, as well as the introduction of the relational subject).

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

PHL 324. Philosophies of Judaism. 3 Credit Hours.

An examination of a variety of Jewish philosophical tendencies as responses to fundamental crises and challenges. The course will focus on several paradigmatic philosophies of Judaism in terms of the following: (a) the human person (philosophical anthropology); (b) revelation and obligation; (c) theology; and (d) Jewish identity and existence. The influence and importance of gender and culture in the development of these philosophies will also be stressed.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Cross-listed Courses: REL 383

PHL 325. Asian Philosophy. 3 Credit Hours.

An examination of the main philosophical traditions of India and the Far East: Hinduism, Buddhism, Taoism and Confucianism. This course will focus upon mysticism as a primary determinant of Eastern thought and will seek to place these philosophies in their historical and cultural setting.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Cross-listed Courses: PGS 335

PHL 327. Phil in the United States. 3 Credit Hours.

This course examines the development of philosophical thought in the United States from the colonial period to the middle of the twentieth century. The main emphasis falls upon the rise of pragmatic philosophy, as exemplified in the writings of Charles Sanders Pierce, William James and John Dewey. Other traditions such as Puritanism and Transcendentalism are considered, along with readings dealing with race and gender issues.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

PHL 329. Freud and Philosophy. 3 Credit Hours.

An investigation of Freud's contributions to philosophy. The course will be divided between an intensive examination of texts from the founder of psychoanalysis (The Interpretation of Dreams, Beyond the Pleasure Principle, Moses and Monotheism, etc.) and readings of philosophical interpretations and evaluations of Freud. Topics covered may include the therapeutic claims of psychoanalysis, Freud and politics, psychoanalysis and the arts (literature, etc.) and psychoanalysis and feminist theory.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: Ways of Knowing/Metaphysics.

PHL 340. Philosophy of Art. 3 Credit Hours.

Why do we call some things beautiful and others not? And why do we often disagree? Is "This is beautiful" never more than an opinion, or can it be true? If it can't be true, then are works of art meaningless? If they aren't meaningless, how do we know what they mean? This course will examine these and related questions through careful reading and discussion of classic and contemporary writings in the philosophy of art. Visual artists, musicians, dancers, actors, and creative writers should find it especially valuable, as will anyone who likes to think about art. Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: Value Theory.

PHL 341. Philosophy and Literature. 3 Credit Hours.

This course will explore the various literary and philosophical dimensions of the imagination in order to appreciate how poets, novelists and philosophers have interpreted the world we live in through the ages. Representative works from the English Renaissance to the present will be analyzed and discussed.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: Value Theory.

PHL 344. Environmental Ethics. 3 Credit Hours.

This course will explore philosophical issues regarding humanity's impact on the natural world. It begins by asking: to whom do we owe ethical consideration and respect? While some approaches to this question emphasize human beings, other approaches broaden ethics to encompass animals, plants, ecosystems, and species. This disagreement accordingly challenges our understanding of many central ethical concepts, such as well-being, rights, justice, respect, interests, and obligation. In light of this challenge, the course will reconsider several more familiar debates about the environment. Should our diets and lifestyles radically change? Is it acceptable to take away liberty or intentionally cause harm in order to forestall environmental disaster? When do economic considerations outweigh the importance of clean air and water? How should population growth be handled? Do we have a duty to be sustainable? Students will be encouraged to adopt a reflective, critical attitude to the trade-offs these debates force us to make.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

PHL 345. Issues in Medical Ethics. 3 Credit Hours.

Using a practical, context-specific approach that is sensitive to the philosophical, scientific, social, legal and economic dimensions that shape and define the field of bioethics, this course is devoted to a detailed study of ethical issues debated in the health professions. Specific topics will vary, but may include some of the following: death and dying, the medicines, choices in reproduction, presymptomatic testing for genetic disease, AIDS and social justice, allocation of medical resources and access to health care. Open only to students in the Physician Assistant Program.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

PHL 346. Ethics and the Nurse. 3 Credit Hours.

Using a practical, context-specific approach that is sensitive to the philosophical, scientific, social, legal and economic dimensions that shape and define the field of bioethics, this course is devoted to a detailed study of ethical issues in nursing. Specific topics will vary. Open only to students in the Bachelor's of Science in Nursing program.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

PHL 347. Crisis Ethics: War, Pandemic and Social Collapse. 3 Credit Hours.

Questions of ethics are difficult enough in periods of relative calm. In times of crisis, where literally thousands of lives (or more) are at stake and time to deliberate is short, contemplating the finer points of morality can seem a luxury one can ill afford. And yet, times of crisis are when we would like to see our best ethics put into practice. This course will consider the ethics of extreme and dire circumstances such as war, pandemics, and social collapse. We will consider skeptical challenges which claim questions of ethics during a crisis are either irrelevant or are reducible to single metrics (e.g., lives saved/lost). Conversely, we will also engage with views which promote the strictest ethical standards and accountability for those times when our decision making matters the most. Additional topics include group deliberation, collective responsibility, and restorative justice.

Prerequisite: PHL 210.

PHL 348. Social & Political Philosophy. 3 Credit Hours.

This course investigates central issues in social and political philosophy historically and/or analytically. Specific issues may vary but will include some of the following: Attempts to provide a moral justification for the actions of the state, or the transformations and reforms in the state apparatus; the relation between moral and political/legal practices; foundations and critical analysis of state legitimation of rights (including property, individual, and social rights); and, moral obligation to obey or disobey state laws. Current issues will be examined in light of the theories discussed, e.g., dissent and consensus, the scope of citizenship and the rights of immigrants, class structures, racism, and women's rights, colonial and neo-colonial situations, etc. Prerequisites PHL 110 or HON 110 and PHL 210 or HON 215.

PHL 349. Ethics and Public Policy. 3 Credit Hours.

This course is an advanced applied ethics course taught with a focus on specific case studies created by the Association for Practical and Professional Ethics for a regional debate competition each year. Students will have the opportunity to engage with ethical problems on wide-ranging topics, such as social and political ethics (e.g. gun control; national health care), global issues (e.g., economic globalization; climate change), civic responsibility (e.g., local activism; voter rights), and academic concerns (e.g., plagiarism; academic freedom), to name only a few possibilities. Work on the case studies will allow students to improve not only their research and writing ability but their oral communication skills as well. Much of the course will involve structured, in-class debate.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

PHL 350. Philosophy of Law. 3 Credit Hours.

This is not a course in the study of law. It is a course designed to afford students who have an interest in the law (not necessarily professional) an opportunity to reflect on the philosophical presuppositions of the law and the philosophical problems that arise within the general domain of jurisprudence. Based on readings (historical and contemporary) written by both philosophers and jurists, the course typically addresses general theories of law, law and morality, judicial reasoning and crime and punishment. Students should expect to do a great deal of linguistic analysis as well as some case study.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: Value Theory.

Cross-listed Courses: LGS 350

PHL 352. Critical Theory & Technological Society. 3 Credit Hours.

An examination of modernity, rationality and technological society through the lens of the twentieth century critical theory movement (also known as the Frankfurt School). Emphasis will be upon (a) critical theory's relation to Hegelian and Marxist theories, (b) its reflections on the rise of positivism and "scientism" in epistemology, and (c) the distinction between instrumental reason and communicative rationality. Figures studied may include Adorno, Horkheimer, Benjamin, Marcuse and Habermas.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: Ways of Knowing/Metaphysics.

PHL 355. Philosophy and Erotic Love. 3 Credit Hours.

Drawing on both classical and modern sources (including Plato, Emerson, Freud, and Mann), this course examines important views of the nature of erotic love and the complex relationships between erotic love and individual ethical development, the pursuit of wisdom, and the human relation to the divine.

Prerequisites: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: Value Theory.

PHL 356. Happiness and Meaning in Life. 3 Credit Hours.

Drawing on both historical and contemporary sources, this course critically examines important philosophical accounts of two central ideals that guide many human lives—happiness and meaning. The course aims to reach a better understanding of each of these ideals, to explore connections and relationships among them, and to consider how they might be related to the aim of living an ethical or moral life.

Prerequisites: PHL 110 or HON 110 and PHL 210 or HON 215.

PHL 357. The Social Production of Space. 3 Credit Hours.

This course is an introduction to the work done in philosophy, geography and cultural studies that addresses the social production of space. In contrast to modern conceptions of space as a pre-given, homogenous and infinite grid of possible locations, the idea of a social production of space leads to a conceptualization of space as deeply textured, often conflicted, and historically produced and reproduced. Key concepts to be covered are: abstract space, time-space compression, the decorporealization of space, the impact of everyday practices on spatial production, multiple spaces, raced spaces and spaces of resistance.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: Value Theory.

Cross-listed Courses: GWS 323

PHL 358. Philosophy of Race. 3 Credit Hours.

This course is designed to familiarize the student with the historical discourse and contemporary debates concerning race, racial identity, and racism in philosophy. The discipline of philosophy has traditionally viewed the philosophical enterprise as an investigation into a universal human condition. To this extent, the philosophical salience of race and thinkers whose main concern was to understand race and racism has been obscured within the tradition. This course will examine the history of the concept of the race, discussions of race and race consciousness, as well as the formation and viability, or lack thereof, of racial identities. These discussions bring to the forefront the need for a critical perspective on how we understand race and racialized identities today.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: Ways of Knowing/Metaphysics.

PHL 359. Ethics of Medical Technology. 3 Credit Hours.

This class will introduce students to ethical debates regarding modern medical technologies, such as gene therapy, in-vitro fertilization, and cloning. These debates expose deep problems in our assumptions about individual choice, personal liberty, and fairness and equality in a whole society. Despite not fitting neatly into traditional categories of applied ethics or political philosophy, debates about medical technologies raise urgent questions, such as the limits of our obligations to one another in a technologically sophisticated marketplace and the extent to which an individual's body counts as the sort of thing with respect to which he has an unassailable right. In this way, the class will be relevant to law, business, technology, medicine, and many other fields. Students will learn how to adopt positions for more standard debates in applied ethics and political philosophy. Furthermore, students will learn how to defend their positions with rational argument and how to address criticism effectively.

Prerequisite: PHL 210 or HON 215.

Fulfills: Value Theory.

PHL 362. Theory of Knowledge. 3 Credit Hours.

The adequate appreciation and mastery of any intellectual discipline demands that the individual have a firm grasp of scope, operation, structure and limitations of human knowledge. This course intends to provide the student with a grasp of what knowledge is, how it is acquired, how it is evaluated, what distinguishes valid from invalid knowledge, evidence, theory construction, etc. Special attention is given to the theory of cognitive paradigms, i.e., the position that different theoretical models generate different sets of facts and different descriptions of reality. The course is recommended for philosophy and psychology majors and should be of particular interest to students majoring in the natural or social sciences.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: Ways of Knowing/Metaphysics.

PHL 363. Analytic Philosophy. 3 Credit Hours.

A presentation and examination of selected texts in the analytic tradition from J. S. Mill and Frege to Kripke. Focus is on topics such as reference, naming, predication, necessity and truth with an emphasis on their import for questions concerning the meaning of existence. (C,E)Fulfills: Ways of Knowing/Metaphysics.

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

PHL 364. Philosophy of Science. 3 Credit Hours.

This is a meta-mathematical/meta-scientific course in philosophical analysis. The concepts to be investigated are drawn from the fields of mathematics, physics and cosmology (e.g., number, shape, gravity, force, energy, matter, space, time, infinity, singularity). Focused attention will be given to the traditional "paradoxes" associated with the attempt to understand these concepts as well as to the more contemporary "anomalies" brought to light in the investigations of physics and astrophysics. (E)

Prerequisite: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: Ways of Knowing/Metaphysics.

Cross-listed Courses: GWS 355

PHL 365. Philosophy of Mind. 3 Credit Hours.

This course will teach students to become more rigorous, careful thinkers by exploring questions about the nature of mind, questions which are especially significant in light of advancements in psychology, psychiatry, neurology, cognitive science, and artificial intelligence. The main focus of the course will be the "mind-body problem": can the existence of minds and mental states be reconciled with a thoroughly materialistic or physical view of the world? A second, closely connected focus will be: can mental states be implemented on a computer? With these foundational questions as background, students will further hone their argumentative skills on a variety of contemporary philosophical debates, including the nature and function of consciousness, whether animals have minds or consciousness, how can one know the contents of another person's mind or of one's own mind, and the nature of desire, emotion, and perception.

Prerequisite: PHL 110.

PHL 369. The Experience of Time. 3 Credit Hours.

Is time something "out there" - a part of nature and the universe - or is it something felt, so that we cannot imagine time passing without someone or something (a god) to experience it? The ancient physicists pictured time as a measure of motion or change. That picture raised for early Christian theologians the question whether time was created with the universe, and if so, whether God could do anything before there was time in which to do it. In our era, some philosophers have argued that time, properly understood, is unreal. But we might wonder whether such arguments can touch our experience of time. We speak of time as tyrannical, always moving forward, and finite for each of us. But it also moves fast or slowly, is full or empty. We travel through time thanks to the gift or curse of memory. And music can shape time beyond what physics can account for. This seminar will explore, through discussion of classical and contemporary readings in philosophy and literature, music and film, a range of attempts to understand our concept and experience of time.

Prerequisites: PHL 110, HON 110, PHL 210, or HON 215.

Fulfills: Ways of Knowing/Metaphysics.

PHL 370. Philosophy of Religion. 3 Credit Hours.

This course is a systematic introduction to the philosophy of religion. Topics covered may include the following: arguments for (and against) the existence of God, the rationality of religious belief and the nature of belief in general, the divine attributes, the status of religious claims, and the opportunities and challenges of religious pluralism. This course may also examine the claims of particular theistic traditions using the methodology of philosophical theology. This course will draw upon both classical and contemporary texts from a variety of philosophical perspectives. Prerequisite(s): PHL-110 or HON- 110 and PHL-210 or HON-215. Junior standing required.

Fulfills: Ways of Knowing/Metaphysics for Philosophy majors.

Cross-listed Courses: REL 370

PHL 389. Special Topic: Self-Care and Philosophy. 3 Credit Hours.

Self-care is a popular topic. The world is stressful, and caring for oneself seems to be important, but it is hard to figure out just what "self-care" means and how to go about it. It is also hard to figure out the balance between what is necessary or valuable and what is self-indulgent. The idea of caring for the self turns out to have a very long history; it is almost as old as Western philosophy. This class will bring together explorations of self-care in ancient history, recent history (from the 1970s onward), and contemporary use. It will also bring together theory and practice. The ideal result will be both a clearer and more deeply grounded understanding of self-care, which might even make a wider range of skills available to students working to care for themselves. These outcomes are in keeping with the philosophy department's aim to orient students in the development of critical and speculative thought, under conditions of intellectual and affective freedom, and with a sense of openness towards alternative visions of life-experience. In the readings from ancient philosophy, we find that self-care is always a part of ethical practice. In the recent historical contexts, and at the values that are foundational in practices. Self-care is necessarily care of the whole person, and we will also find that a person is not whole in isolation. Because we will be reading philosophical texts, with their particular challenges, you must have passed at least one philosophy course prior to taking this one.

PHL 390. Independent Study. 3-6 Credit Hours.

Independent Study is intended for any student wanting a program of study in philosophy for which there is no existing course in the department. A student who wishes to pursue an independent study project for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the academic vice president and dean. It will be kept on file in the dean of arts and science's office.

PHL 420. Advanced Argumentative Writing. 3 Credit Hours.

The purpose of this seminar is to guide students through the difficult process of bringing a philosophical argument to life. Over the course of the semester, students will work on refining and presenting a piece of philosophical writing [approximately 15-20 pages]. Students will review the rudiments of philosophical prose, and they will be guided through the proces of revising, getting feedback, and revising yet again. They will practice presenting their work to others, as well as giving feedback on the work of others. Thus, students will learn what it means to work independently in a community of other philosophers. At the discretion of the Philosophy CHair, a student may substitute this course for the first semester of the two-semester philosophy honors project (PHL 490). The student must secure permission for this substitution at the time of registration. DOES NOT FULFILL OLD CORE REL/PHL SEMINAR REQUIREMENT.

Prerequisites: PHL 110 and PHL 210.

Fulfills: Logic/Writing.

PHL 490. Research in Philosophy. 3-6 Credit Hours.

An upper-class philosophy major who wishes to write a substantial philosophical essay on a topic already studied in a philosophy elective should submit a proposal to this effect prior to registration. The proposal, indicating the topic to be researched, the number of credits sought and the schedule of supervision, must be approved by the research director, the department chair and the academic dean. The proposal will be kept on file in the academic dean's office. (F).

Philosophy Major (B.A.)

The philosophy curriculum for majors emphasizes the relevance of philosophy both to contemporary life and to personal development. Enriched by an understanding of the history of philosophy and in community with other majors, each student is encouraged to develop a course of study that speaks to his or her own concerns. A student who majors in philosophy must take:

- The requirements of the core;
- A course in logic (PHL 310 Critical Reasoning or PHL 311 Introduction to Formal Logic);
- Two courses in the history of philosophy (PHL 320 Ancient and Medieval Philosophy and PHL 321 Philosophy & Making of the Mod. World);
- One philosophy elective from the category of "Value Theory";
- One philosophy elective from the category of "Ways of Knowing/ Metaphysics";
- Six additional philosophy electives.

Philosophy Major

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3

Theology (p. 61)	3
EAC Encountering Another Culture/Language (p. 61)	6
ENG 310 Literature and Culture	3
Mathematics (p. 61)	3
Social Science (p. 61)	3
Natural Science (p. 61)	3
IDS Interdisciplinary Studies (p. 61)	3
Religion (p. 61)	3
COR 400 Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)	1
DIV Diversity (p. 61)	0
Major Requirements	
History of Philosophy courses:	
PHL 320 Ancient and Medieval Philosophy	3
PHL 321 Philosophy & Making of the Mod. World	3
Select one of the following Logic courses:	3
PHL 310 Critical Reasoning	
PHL 311 Introduction to Formal Logic	
One philosophy elective from the category of "Value Theory"	3
PHL 340 Philosophy of Art	
PHL 341 Philosophy and Literature	
PHL 344 Environmental Ethics	
PHL 347 Crisis Ethics: War, Pandemic and Social Collapse	
PHL 348 Social & Polticial Philosophy	
PHL 349 Ethics and Public Policy	
PHL 350 Philosophy of Law	
PHL 355 Philosophy and Erotic Love	
PHL 356 Happiness and Meaning in Life	
PHL 357 The Social Production of Space	
PHL 359 Ethics of Medical Technology	
PHL 389 Special Topic: Self-Care and Philosophy	
One philosophy elective from the category of "Ways of Knowing/Metaphysics"	3
PHL 329 Freud and Philosophy	
PHL 352 Critical Theory & Technological Society	
PHL 358 Philosophy of Race	
PHL 362 Theory of Knowledge	
PHL 363 Analytic Philosophy	
PHL 364 Philosophy of Science	
PHL 365 Philosophy of Mind	
PHL 369 The Experience of Time	
PHL 370 Philosophy of Religion	
Six additional philosophy electives:	18
Major Support Requirements	
World Language (p. 61) ²	6
Electives	
Non-major electives	12
Free electives	24
Total Credits	120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Students take 6 credits of a World Language to fulfill their Core FLL/EAC requirement. These courses also count as their major support requirements. Intermediate level in a world language is required for a major in philosophy. For those students who require the introductory courses, 12 hours will be necessary to achieve this level.

Course	Title	Credit Hours
Freshman Year		
First Semester		
EAC Encountering Another Culture/Language (p. 61)		3
Free Elective		3
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
Credit Hours		15
Second Semester		
EAC Encountering Another Culture/Language (p. 61)		3
Free Elective		3
PHL 110	Introduction to Philosophy	3
Mathematics (p. 61)		3
HST 111	World Civilization II	3
Credit Hours		15
Sophomore Year		
First Semester		
Natural Science (p. 61)		3
PHL 210	Moral Philosophy	3
Free Elective		3
ENG 210	Major Authors	3
Theology (p. 61)		3
Credit Hours		15
Second Semester		
PHL Elective (Value Theory)		3
PHL 320	Ancient and Medieval Philosophy	3
Non-Major Elective		3
Social Science (p. 61)		3
PHL Elective (Ways of Knowing/Metaphysics)		3
Credit Hours		15
Junior Year		
First Semester		
PHL 310	Critical Reasoning	3
PHL 321	Philosophy & Making of the Mod. World	3
Free Elective		3
Non-Major Elective		3
ENG 310	Literature and Culture	3
Credit Hours		15
Second Semester		
Free Elective		3
Two PHL Electives		6
Non-Major Elective		3
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		15

Senior Year**First Semester**

PHL Elective	3
PHL Elective	3
Free Elective	3
Non-Major Elective	3
Religion (p. 61)	3
Credit Hours	15

Second Semester

PHL Elective		3
PHL Elective		3
Free Elective		3
COR 400	Senior Studies: Transformations	3
Free Elective		3
Credit Hours		15
Total Credit Hours		120

Philosophy Minor

A student wishing to minor in philosophy must complete five courses in philosophy, at least two of which must be 300 or 400 level philosophy electives. In addition to PHL 110 Introduction to Philosophy and PHL 210 Moral Philosophy, a student may count one approved non-PHL course toward the minor. See the Chair to determine if a COR or PHO course is approved. Most electives in philosophy may be taken as soon as PHL 110 Introduction to Philosophy, PHL 210 Moral Philosophy or an equivalent course has been completed.

Ethics, Values, and Professional Life Minor

"Ethics, Values and Professional Life" is an ethics minor in the broadest construal of the word. Its goal is, quite simply, to help students live better lives by engaging with questions of personal values, ultimate meaning, and professional ethics. Students will be encouraged to set their personal and professional goals into the broader context of what it means to live meaningful lives as responsible members of their communities and citizens of the world. Accordingly, the courses in this minor will address topics in applied ethics, moral psychology, and social justice as they appear in real life situations. To illuminate the practical reality and relevance of these topics, the integration of non-humanities perspectives, as represented by pre-professional, social scientific, and STEM disciplines, will be key.

Code	Title	Credit Hours
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Minor Requirements

Students wishing to complete this minor must complete five courses.

Required:

PHL 110	Introduction to Philosophy	3
PHL 210	Moral Philosophy	3
Choose two courses from the following:		6
PHL 344	Environmental Ethics	
PHL 347	Crisis Ethics: War, Pandemic and Social Collapse	

PHL 348	Social & Political Philosophy	
PHL 349	Ethics and Public Policy	
PHL 350	Philosophy of Law	
PHL 356	Happiness and Meaning in Life	
PHL 357	The Social Production of Space	
PHL 359	Ethics of Medical Technology	
PHL 389	Special Topic: Self-Care and Philosophy	
Choose one course from the following:		3
PSC 367	War, Peace and Violence	
REL 336	Comparative Religious Ethics & Social Concerns	
REL 401	Corporate Responsibility	
REL 425	The Faith That Does Justice	
THE 231	Christian Ethics	
THE 237	Christian Social Ethics	
COR 400AB	Digital Stories: Ongoing Transformation Of Knowledge, the World, and Personhood in the Digital Era	
COR 400X	Bioethics: Justice for All?	
CMM 350	Communication Ethics	
Total Credit Hours		15

PHYSICS

Chair: Stamatios Kyrkos

Associate Professor: Christopher Bass, Stamatios Kyrkos

Visiting Assistant Professor: Subas Dhakal, Dennis W. Sullivan

Physics is the foundation of all natural science. Its development over the centuries has yielded a precise quantitative discipline that has served not only as a model for the younger sciences, but is also basic to a fuller understanding of chemical and biological phenomena and contemporary technological advances.

For students who wish to major in physics, two degrees are available: the Bachelor of Arts and the Bachelor of Science. The courses required for the Bachelor of Arts introduce students to a broad range of subjects in physics and serve as a foundation for future careers in fields such as science writing, patent law, medicine, teaching, philosophy of science, technical marketing, technology management and computational science. Several specific variations of the Physics B.A. are available. Please see the department chair.

The courses required for the Bachelor of Science are for students seeking a professional background in physics or engineering. These courses provide advanced undergraduate physics and laboratory experience, including the option of independent research with a member of the physics faculty.

The physics B.A. or B.S. with one of the pre-engineering concentrations described below serve as the foundation for one of the physics-based bachelor's degrees earned as part of the bachelor's + master's engineering degree partnership with Syracuse University. See the section of this catalog devoted to Engineering (p. 211).

The Physics Bachelor of Arts/Master of Science in Teaching (Physics B.A./M.S.T.) course of study makes it possible to earn a physics B.A. and a master's degree in secondary education, including preliminary certification, in five years. Further information about this course of study can be obtained from the department chair.

Further information on these courses of study can be found on the physics and engineering Web pages, www.lemoyne.edu/physics (<http://www.lemoyne.edu/physics/>) and www.lemoyne.edu/engineering (<http://www.lemoyne.edu/engineering/>).

Student Learning Outcomes in Physics

Conversance with fundamental bodies of physical knowledge

Demonstrate an understanding of basic concepts appropriate to physics at the undergraduate level:

- a Classical Mechanics
- b Electricity & Magnetism
- c Relativity
- d Quantum Mechanics
- e Thermodynamics and Statistical Physics

Understand methods of physical inquiry including articulating questions, framing hypotheses, creating mathematical models, exploring the predictions of physical theories, and confronting theoretical predictions with experiments.

Demonstrate understanding of the fundamental foundations of physics and its place as an intellectual methodology for understanding the physical universe.

Development of analytical and mathematical skills

- Demonstrate a practical understanding of units of measurement and orders of magnitudes for physical quantities.
- Solve physical problems that require the use of introductory algebra and trigonometry, vectors, calculus, and approximations.
- Solve physical problems that require the use of advanced algebra and calculus, including differential equations, matrices, and eigenvalue problems.
- Employ software in modeling, visualization, and analysis of physical problems.
- Develop deeper, more complex problem solving techniques such as mastery of multiple representations of physical information including graphical representations, and approximation and estimation skills.

Development of fundamental laboratory skills

- Safely use experimental apparatus, make physical measurements, understand the limitations of measuring devices, and understand measurement uncertainties.
- Conduct error analysis and propagation of uncertainties into derived results.
- Analyze and interpret collected data and prepare clear written reports.
- Design and build equipment to make experimental measurements.
- Employ software and hardware in data acquisition, processing, and analysis.

Cultivation of scientific communication skills and ethical scientific conduct

- Analyze technical and scientific documentation and/or spoken instructions to determine what is being specified or requested.
- Present physical concepts, mathematical reasoning, and results of experiments through clear and effective scientific and/or technical written reports.
- Present scientific concepts and results through clear and effective oral and poster presentations.
- Write research proposals, including abstracts and project budgets.
- Demonstrate understanding of academic and scientific ethics and integrity and a respect for diversity in course and laboratory work, conduct of research, presentation of scientific results, and interactions with peers, students, mentors and mentees.

Development of research skills

- Be able to read, present, and discuss information found in scientific research literature.
- Synthesize and apply knowledge and skills from different areas of physics.
- Develop project management skills.
- Conduct independent or mentor-supervised research projects.
- Develop ability to work collaboratively on short and long term projects.

Programs

- Physics Major (B.A.) (p. 268)
- Physics Major (B.S.) (p. 270)
- Physics (B.A.): Pre-Medical (p. 272)
- Minor (p. 272)
- Physics-based Engineering Concentrations

Students participating in the bachelor's + master's engineering partnership with Syracuse University must choose the appropriate concentration.

- B.S. in Physics with Concentration in Pre-Engineering (Civil with Structural focus) (p. 274)
- B.S. in Physics with Concentration in Pre-Engineering (Civil with Geotechnical focus) (p. 273)
- B.S. in Physics with Concentration in Pre-Engineering (Electrical) (p. 274)
- B.S. in Physics with Concentration in Pre-Engineering (Environmental) (p. 275)
- B.S. in Physics with Concentration in Pre-Engineering (Mechanical and Aerospace) (p. 276)

Physical Science (PHS)

PHS 120. Astronomy. 3 Credit Hours.

A survey of modern astronomy. Planets, stars, galaxies and the present scientific view of the universe and its origin are discussed. No prerequisites. Three lecture hours weekly.

PHS 128. Cosmology:Sci of Phys Universe. 3 Credit Hours.

Participants in this course will engage in a tour of the universe as we presently understand it and gain a much broader understanding of where we live. They will consider the scientific evidence available regarding the origin and future of the universe. They will consider the implications of this knowledge, and they will consider the questions that this knowledge raises. They will also see the process by which scientific knowledge is established, and they will encounter the limitations of the present state of our knowledge.

PHS 275. Photography and Photometry. 3 Credit Hours.

This course explores those aspects of physics which relate to photography. It covers the basic properties of light, ray optics, infra red film and the visible spectrum, light polarization, lens optics, and the relationship of color film to light source. It also covers the digital camera and its components, and digital black and white printing. It provides students with an understanding of the relationship between physics and photography. No prerequisites. A compact digital camera or digital SLR camera is required. This course counts for core science credit.

Physics (PHY)

PHY 101. Non-Calculus General Physics I. 3 Credit Hours.

An elementary course in physics with topics selected from mechanics of solids and fluids, kinetic theory, and heat. A thorough knowledge of high school algebra and trigonometry is a prerequisite. Because of the integration between PHY 101 and PHY 103, PHY 103 must be taken concurrently.

PHY 102. Non-Calculus General Physics II. 3 Credit Hours.

A continuation of PHY 101 with topics selected from waves, electromagnetic theory, and optics. General Physics I (either PHY 101 or PHY 105) and PHY 103 are prerequisites. Because of the integration between PHY 102 and PHY 104, PHY 104 must be taken concurrently.

PHY 103. General Physics Laboratory. 1 Credit Hour.

The activities of these laboratory courses are designed to give students taking PHY 101-102 and PHY 105-106 direct experience with the fundamental concepts that are the subjects of those courses, making these laboratory courses an integral part of PHY 101-102 and PHY 105-106. A thorough knowledge of high school algebra and trigonometry is a prerequisite. PHY 103 is a prerequisite for PHY 104. One two-hour laboratory period each full week of classes each semester.

PHY 104. General Physics Laboratory. 1 Credit Hour.

The activities of these laboratory courses are designed to give students taking PHY 101-102 and PHY 105-106 direct experience with the fundamental concepts that are the subjects of those courses, making these laboratory courses an integral part of PHY 101-102 and PHY 105-106. A thorough knowledge of high school algebra and trigonometry is a prerequisite. PHY 103 is a prerequisite for PHY 104. One two-hour laboratory period each full week of classes each semester.

PHY 105. General Physics Scientists/Engineers I. 3 Credit Hours.

An introduction to physics and the use of calculus in physical problems. Topics are selected from mechanics of solids and fluids, kinetic theory and heat. Previous experience with calculus, either in high school or college, or concurrent enrollment in college-level Calculus I is required. Because of the integration between PHY 105 and PHY 103, PHY 103 must be taken concurrently.

PHY 106. General Physics Scientists/Engineers II. 3 Credit Hours.

A continuation of PHY 105 with topics selected from waves, electromagnetic theory and optics. PHY 105 and PHY 103 are prerequisites. Because of the integration between PHY 106 and PHY 104, PHY 104 must be taken concurrently. Concurrent enrollment in college-level Calculus II is desirable but not required.

PHY 201. Fields and Waves. 3 Credit Hours.

An introduction to the physics of fields and waves, focusing primarily on electric and magnetic fields and electromagnetic waves. May include physical optics.

Prerequisites: Calculus 11 (MTH 146) and General Physics II (either PHY 102 or PHY 106).

PHY 203. Foundations of Modern Physics. 3 Credit Hours.

Introduction to the pillars of modern physics: special relativity and quantum mechanics. Includes an historical account of the theoretical and experimental development of quantum theory and an introduction to its concepts and methods. Additional topics may include, but are not limited to, the quantum physics of atoms, molecules, and solids, and contemporary applications. Prerequisites: Calculus II (MTH 146) and General Physics II (either PHY 102 or phy 106). Prior completion of PHY 201 is desirable but not required.

PHY 215. Statics. 3 Credit Hours.

A course in that branch of mechanics which deals with particles or bodies in equilibrium under the action of forces or torques. It embraces the composition and resolution of forces, the equilibrium of bodies under balanced forces and such properties of bodies as center of gravity and moment of inertia.

Prerequisites: General Physics II (either PHY 102 or PHY 106) and Calculus II (either MTH 146 or MTH 152).

PHY 231. Experimental Foundations Modern Physics. 1 Credit Hour.

Introduction to experimental methods in physics through experiments measuring fundamental properties of light and matter. Topics may include, but are not limited to, analysis of experimental data and propagation of uncertainties computer-aided data acquisition, and an introduction to instrumentation. Experimental topics may include, but are not limited to, the mass and charge of the electron, the speed of light, Planck's constant, properties of lasers and laser light, concepts of photon interference and quantum measurement, resonance and chaos in dynamical systems. One three-hour laboratory period per week. Prior completion of PHY 201 is strongly desirable but not required. Prerequisites: Calculus II (MTH 146), General Physics II (PHY 102 or PHY 106).

Corequisite: PHY 203.

PHY 251. Spc Topic: Fundamentals of Engineering. 3 Credit Hours.

Special Topics: A J-mester course introducing fundamental technical tools for engineers, including especially, but not necessarily limited to, introductory training in engineering CAD [Computer Aided Design] and numerical analysis of engineering problems [Matlab, Maple, Octave, or similar packages]. Course may include an engineering design competition that requires hands-on work outside of class time. Some class and / or computer lab time may be required at Syracuse University or other remote location.

PHY 280. Info in Chem & Physical Sciences. 1 Credit Hour.

This course will introduce the changing information landscape in chemistry and the physical sciences to help students become effective database and "free web" searchers. Students will also become familiar with the social and ethical issues relation to the production and use of scientific information in an increasingly digital society.

Cross-listed Courses: LIB 280, CHM 280

PHY 303. Classical Electromagnetic Theory I. 3 Credit Hours.

An advanced undergraduate course in classical electromagnetic theory. PHY 303 covers vector calculus, electrostatics and magnetostatics. PHY 304 is primarily devoted to electromagnetic dynamics and, time allowing, applications.

Prerequisites: A course in differential equations (MTH 303 or MTH 304), PHY 201, and PHY 203.

PHY 304. Classical Electromagnetic Theory II. 3 Credit Hours.

An advanced undergraduate course in classical electromagnetic theory. PHY 303 covers vector calculus, electrostatics and magnetostatics. PHY 304 is primarily devoted to electromagnetic dynamics and, time allowing, applications.

Prerequisites: A course in differential equations (MTH 303 or MTH 304), PHY 201, and PHY 203.

PHY 307. Quantum Mechanics I. 3 Credit Hours.

Topics are selected from, but not limited to, the quantum nature of reality, the Schrodinger equation, square-well potentials, the simple harmonic oscillator, tunneling, angular momentum, the hydrogen atom and the periodic table.

Prerequisites: A course in differential equations (MTH 303 or MTH 304), PHY 201, and PHY 203.

PHY 308. Quantum Mechanics II. 3 Credit Hours.

Continuation of PHY 307, focusing on applications. Topics covered include, but are not necessarily restricted to, time-independent perturbation theory, variational principles, approximation, time-dependent perturbation theory, and scattering.

PHY 311. Electronics I. 4 Credit Hours.

A course in scientific (as opposed to consumer) analog electronics. Topics include use of electronic test equipment, circuit theory, analog applications of discrete passive and active devices and analog integrated circuits. Op-amp applications (amplifiers, adders, integrators, differentiators, active inductors, oscillators, active filters, etc.) are the primary interest. Other integrated circuits such as voltage regulators, function generators, multipliers and phase locked loops may be introduced as time allows. Three lecture hours and one three-hour laboratory period per week.

Prerequisites: Calculus II (MTH 146 or MTH 152) and General Physics (PHY 102 or PHY 106).

PHY 312. Electronics II. 4 Credit Hours.

A course in scientific (as opposed to consumer) digital electronics. Topics include use of electronic test equipment, digital applications of discrete passive and active devices, digital integrated circuits (gates, decoders, flip-flops, counters, shift-registers, digital memory, clocks), and analog/ digital hybrids such as comparators, analog switches and gates with Schmitt trigger inputs. Applications include bus interfacing, multiplexing, wave shaping, digital-to-analog conversion and analog-to-digital conversion. Three lecture hours and one three-hour laboratory per week.

Prerequisites: Calculus II (MTH 146 or MTH 152) and General Physics (PHY 102 or PHY 106).

PHY 321. Analytical Mechanics I. 3 Credit Hours.

An advanced undergraduate course treating mechanics in the Newtonian, Lagrangian and Hamiltonian formulations with applications. Prerequisite or corequisite: MTH 303 or MTH 304 and PHY 203.

Prerequisite: PHY 201.

PHY 322. Analytical Mechanics II. 3 Credit Hours.

An advanced undergraduate course treating mechanics in the Newtonian, Lagrangian and Hamiltonian formulations with applications.

Prerequisites: A course in differential equations (MTH 303 or MTH 304), PHY 201, and PHY 203.

PHY 331. Atomic & Nuclear Physics Laboratory. 1 Credit Hour.

Experimental topics are drawn from, but not limited to, microwave optics and the physics of the nucleus. One three-hour laboratory period each week for one semester.

Prerequisite: PHY 203.

PHY 333. Computational Physics. 3 Credit Hours.

An introduction to computer techniques and simulations emphasizing problem solving in physics and the use of statistical, differential, integral, graphical, and numerical methods. Examples will be drawn from classical, statistical, and quantum mechanics and will include numerical integration, differentiation, and the solution of ordinary and partial differential equations, using programs such as Excel, Maple, Matlab, Mathematica etc.

Prerequisites: MTH 145 and MTH 146.

Corequisite: MTH 245.

Cross-listed Courses: CSC 333

PHY 341. Physics of NMR. 1 Credit Hour.

Nuclear magnetic resonance (NMR) spectroscopy is an analytical chemistry technique commonly used in research for determining the content and purity of a sample as well as its molecular structure. NMR is also the basis of magnetic resonance imaging (MRI), which is a non-invasive medical imaging technique that is used to create detailed anatomical images. This course explores the underlying physics of NMR at the nuclear level, how NMR spectrometers work, and how these instruments can measure material-dependent quantities such as T1 and T2 times. One lecture hour and two laboratory hours each week for six weeks. Credit cannot be taken for both PHY 431 and this course. Prerequisites: MTH 145 and either PHY 102 or PHY 106.

Cross-listed Courses: PHY 431

PHY 390. Independent Study in Physics. 1-3 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the academic dean. It will be kept on file in the dean of arts and science's office.

PHY 399. Independent Study. 3 Credit Hours.**PHY 401. Mathematical Physics. 3 Credit Hours.**

Topics are selected from, but not limited to, matrix algebra, complex analysis, Fourier series and Fourier analysis, classical functions of mathematical physics (orthogonal polynomials, Bessel functions, gamma function,...) and applications.

Prerequisites: General Physics 11 (PHY 102 or PHY 106) and a course in differential equations (MTH 303 or MTH 304).

PHY 403. Physical Optics. 3 Credit Hours.

An intermediate course in physical optics, designed for senior physics majors, treating interference, diffraction, absorption, polarization and other aspects of electromagnetic wave phenomena.

Prerequisite: PHY 303.

PHY 405. Statistical Physics. 3 Credit Hours.

This course deals with statistical methods applied to systems of particles, statistical thermodynamics and the statistical treatment of quantized systems. Applications to diverse topics such as ideal and non-ideal gases, black body radiation, metallic conduction and magnetic effects are developed. Prerequisite or corequisite: PHY 321.

Prerequisite: PHY 203.

PHY 407. Condensed Matter Physics. 3 Credit Hours.

Structure and binding of solids, electrical, magnetic and optical properties. Prerequisite or co-requisite: PHY 307.

PHY 408. Nuclear Physics. 3 Credit Hours.

Problems of nuclear forces, structure and stability, nuclear reactions.

Prerequisite: PHY 307.

PHY 431. Advanced Physics Laboratory. 1 Credit Hour.

Experimental topics are selected from, but not limited to, x-ray physics and applications such as atomic shell structure and crystal structure.

One three-hour laboratory period each week for one semester.

Prerequisite: PHY 203.

Cross-listed Courses: PHY 341

PHY 441. Research Projects in Physics. 1-3 Credit Hours.

A laboratory course designed to apply the principles and techniques of experimental and/or theoretical physics to a senior project. The student engages in one or more research projects under the direction of one of the staff. One equivalent laboratory period per credit weekly for one year. Prerequisite/corequisite: PHY 280.

PHY 476. Physics Capstone. 3 Credit Hours.

Capstone to the physics major. Independent research in collaboration with a faculty supervisor. (The nature of the project will vary with student interests and goals and faculty resources, but may include library research, creative work, theoretical or computational research, or laboratory work.) Students will give formal oral presentations on their research and write a comprehensive thesis on the work. Open to senior majors in physics and others with the consent of the program director. May be pursued in conjunction with honors theses if the projects are compatible with the requirements of each program, and with the prior consent of both programs. For students in the Bachelors-Masters engineering program with Syracuse University, may be pursued in conjunction with engineering projects at Syracuse if compatible with the requirements of each program, and with the prior consent of the program director. (Such projects must also have a Le Moyne College faculty supervisor.) Open to senior majors in physics and others with the consent of the program director.

PHY 490. Physics Internship. 1-6 Credit Hours.

Participation in a field learning experience related to the area of physics. The student will report as required to the faculty member assigned to supervise this field experience and is expected to evaluate the experience and relate it to his or her academic program. Three hours of field work per week for 14 weeks will be required to generate one credit.

Prerequisites: junior standing and permission of the department chair.

PHY 491. Physics Internship. 1-6 Credit Hours.

Participation in a field learning experience related to the area of physics. The student will report as required to the faculty member assigned to supervise this field experience and is expected to evaluate the experience and relate it to his or her academic program. Three hours of field work per week for 14 weeks will be required to generate one credit.

Prerequisites: junior standing and permission of the department chair.

Physics Major (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3

Religion (p. 61)	3
COR 400 Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)	3
DIV Diversity (p. 61)	0
Major Requirements	
Select one of the following sequences:	6
PHY 105 General Physics Scientists/Engineers I & PHY 106 and General Physics Scientists/Engineers II (preferred)	
PHY 101 Non-Calculus General Physics I & PHY 102 and Non-Calculus General Physics II	
PHY 103 General Physics Laboratory	1
PHY 104 General Physics Laboratory	1
PHY 201 Fields and Waves	3
PHY 203 Foundations of Modern Physics	3
PHY 231 Experimental Foundations Modern Physics	1
PHY 303 Classical Electromagnetic Theory I	3
PHY 307 Quantum Mechanics I	3
PHY 321 Analytical Mechanics I	3
PHY 331 Atomic & Nuclear Physics Laboratory	1
PHY 476 Physics Capstone	3
Major Support Requirements	
MTH 145 Calculus I	4
MTH 146 Calculus II	4
MTH 245 Calculus III	4
Electives	
PHY Electives	6
Technical Electives ²	9
Free Electives	21
Total Credit Hours	120

¹ Some Core requirements may be fulfilled by major requirements.

² See the Technical Electives list below.

Technical Electives

Courses on this list required for a degree will not count twice as an elective.

Code	Title	Credit Hours
CHM 151	Chemical Principles I	3
CHM 152	Chemical Principles II	3
CHM 327	Physical Chemistry I	3
CHM 328	Physical Chemistry II	3
CHM 331	Physical Chemistry Laboratory	1
CHM 332	Physical Chemistry II Laboratory	1
CSC 175	Introduction to Algorithms and Program Design	4
ENG 397	Writing Nonfiction: the Art of Writing Short	3
MTH 261	Linear Algebra	3
MTH 312	Mathematical Statistics	3
MTH 332	Real Analysis	4
MTH 303	Differential Equations and Mathematical Modeling	3

MTH 341	Abstract Algebra	3
MTH 361	Modern Geometry	3
MTH 421	Numerical Methods	3
MTH 481	Topology	3
ESS 205	Physical Geology	4
PHL 362	Theory of Knowledge	3
MTH 335	Intro to Complex Variables	3
CSC 281	Discrete Mathematics	3
PHL 311	Introduction to Formal Logic	3
PHL 369	The Experience of Time	3
PHL 364	Philosophy of Science	3
PHL 352	Critical Theory & Technological Society	3
PHS 120	Astronomy	3
PHS 128	Cosmology:Sci of Phys Universe	3
PHS 275	Photography and Photometry	3
PSC 340	Science, Technology, & the Good Society	3
REL 318	Religion and Science	3
PHY 3XX/4XX	Upper-level physics electives	

Other courses not on the above list may also be approved as technical electives by the department chair. For students in the bachelors-masters engineering program with Syracuse University, many engineering courses at Syracuse University will qualify.

Typical Program for Physics Major B.A.

Course	Title	Credit Hours
Freshman Year		
First Semester		
HST 110	World Civilization I	3
MTH 145	Calculus I	4
PHY 103	General Physics Laboratory	1
PHY 105	General Physics Scientists/Engineers I	3
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
Credit Hours		17
Second Semester		
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
MTH 146	Calculus II	4
PHY 104	General Physics Laboratory	1
PHY 106	General Physics Scientists/Engineers II	3
Credit Hours		14
Sophomore Year		
First Semester		
MTH 245	Calculus III	4
PHY 201	Fields and Waves	3
PHL 210	Moral Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
Elective		3
Credit Hours		16
Second Semester		
ENG 210	Major Authors	3

PHY 203	Foundations of Modern Physics	3
PHY 231	Experimental Foundations Modern Physics	1
EAC Encountering Another Culture/Language (p. 61)		3
Elective		3
Elective		3
Credit Hours		16
Junior Year		
First Semester		
IDS Interdisciplinary Studies (p. 61)		3
PHY 307	Quantum Mechanics I	3
PHY 331	Atomic & Nuclear Physics Laboratory	1
ENG 310	Literature and Culture	3
Elective		4
Technical Elective		3
Credit Hours		17
Second Semester		
PHY Elective		3
Theology (p. 61)		3
Technical Elective		3
Technical Elective		3
Elective		3
Credit Hours		15
Senior Year		
First Semester		
PHY 476	Physics Capstone	3
PHY 303	Classical Electromagnetic Theory I	3
Elective		3
Religion (p. 61)		3
VPA Visual & Performing Arts (p. 61)		3
Credit Hours		15
Second Semester		
PHY 321	Analytical Mechanics I	3
Elective		3
Social Science (p. 61)		3
COR 400	Senior Studies: Transformations	3
PHY Elective		3
Credit Hours		15
Total Credit Hours		125

Most PHY 300- and PHY 400-level courses, except PHY 311 Electronics I, PHY 331 Atomic & Nuclear Physics Laboratory, PHY 431 Advanced Physics Laboratory, and PHY 476 Physics Capstone, are offered in alternate years, so students graduating in odd-numbered years follow a program in which the third and fourth years of PHY courses are interchanged.

Physics Major (B.S.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3

HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		3
DIV Diversity (p. 61)		0
Major Requirements		
Select one of the following sequences:		6
PHY 105	General Physics Scientists/Engineers I	
& PHY 106	and General Physics Scientists/Engineers II (preferred)	
PHY 101	Non-Calculus General Physics I	
& PHY 102	and Non-Calculus General Physics II	
PHY 103	General Physics Laboratory	1
PHY 104	General Physics Laboratory	1
PHY 201	Fields and Waves	3
PHY 203	Foundations of Modern Physics	3
PHY 231	Experimental Foundations Modern Physics	1
PHY 303	Classical Electromagnetic Theory I	3
PHY 307	Quantum Mechanics I	3
PHY 308	Quantum Mechanics II	3
PHY 311	Electronics I	4
PHY 321	Analytical Mechanics I	3
PHY 331	Atomic & Nuclear Physics Laboratory	1
PHY 333	Computational Physics	3
PHY 405	Statistical Physics	3
PHY 431	Advanced Physics Laboratory	1-3
or PHY 441 Research Projects in Physics		
PHY 476	Physics Capstone	3
Major Support Requirements		
MTH 145	Calculus I	4
MTH 146	Calculus II	4
MTH 245	Calculus III	4
MTH 304	Differential Equations for Scientists And Engineers	4
CHM 151	Chemical Principles I	3
Electives		
Major Electives		6
Technical Elective ²		3
Free Elective		3
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² See Technical Electives list below.

Technical Electives

Courses on this list required for a degree will not count twice as an elective.

Code	Title	Credit Hours
CHM 151	Chemical Principles I	3
CHM 152	Chemical Principles II	3
CHM 327	Physical Chemistry I	3
CHM 328	Physical Chemistry II	3
CHM 331	Physical Chemistry Laboratory	1
CHM 332	Physical Chemistry II Laboratory	1
CSC 175	Introduction to Algorithms and Program Design	4
ENG 397	Writing Nonfiction: the Art of Writing Short	3
MTH 261	Linear Algebra	3
MTH 312	Mathematical Statistics	3
MTH 332	Real Analysis	4
MTH 303	Differential Equations and Mathematical Modeling	3
MTH 341	Abstract Algebra	3
MTH 361	Modern Geometry	3
MTH 421	Numerical Methods	3
MTH 481	Topology	3
ESS 205	Physical Geology	4
PHL 362	Theory of Knowledge	3
MTH 335	Intro to Complex Variables	3
CSC 281	Discrete Mathematics	3
PHL 311	Introduction to Formal Logic	3
PHL 369	The Experience of Time	3
PHL 364	Philosophy of Science	3
PHL 352	Critical Theory & Technological Society	3
PHS 120	Astronomy	3
PHS 128	Cosmology:Sci of Phys Universe	3
PHS 275	Photography and Photometry	3
PSC 340	Science, Technology, & the Good Society	3
REL 318	Religion and Science	3
PHY 3XX/4XX	Upper-level physics electives	

Other courses not on the above list may also be approved as technical electives by the department chair. For students in the bachelors-masters engineering program with Syracuse University, many engineering courses at Syracuse University will qualify.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
MTH 145	Calculus I	4
PHY 105	General Physics Scientists/Engineers I	3

PHY 103	General Physics Laboratory	1
COR 100	First Year Seminars: Transitions	3
Credit Hours		17

Second Semester

PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
MTH 146	Calculus II	4
PHY 106	General Physics Scientists/Engineers II	3
PHY 104	General Physics Laboratory	1
Credit Hours		14

Sophomore Year

First Semester

PHL 210	Moral Philosophy	3
PHY 201	Fields and Waves	3
PHY 311	Electronics I	4
MTH 245	Calculus III	4
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		17

Second Semester

ENG 210	Major Authors	3
PHY 203	Foundations of Modern Physics	3
PHY 231	Experimental Foundations Modern Physics	1
PHY 321	Analytical Mechanics I	3
MTH 304	Differential Equations for Scientists And Engineers	4
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		17

Junior Year

First Semester

PHY 307	Quantum Mechanics I	3
PHY 331	Atomic & Nuclear Physics Laboratory	1
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
IDS Interdisciplinary Studies (p. 61)		3
ENG 310	Literature and Culture	3
Credit Hours		14

Second Semester

PHY 308	Quantum Mechanics II	3
PHY 333	Computational Physics	3
PHY 431	Advanced Physics Laboratory	1
Theology (p. 61)		3
Technical Elective		3
Credit Hours		13

Senior Year

First Semester

PHY 303	Classical Electromagnetic Theory I	3
PHY 476	Physics Capstone	3
Religion (p. 61)		3
PHY Elective		3
Elective		3
Credit Hours		15

Second Semester

COR 400	Senior Studies: Transformations	3
PHY 405	Statistical Physics	3
PHY Elective		3
Social Science (p. 61)		3
VPA Visual & Performing Arts (p. 61)		1
Credit Hours		13
Total Credit Hours		120

Most PHY 300- and PHY 400-level courses, except PHY 311 Electronics I, PHY 331 Atomic & Nuclear Physics Laboratory, PHY 431 Advanced Physics Laboratory, and PHY 476 Physics Capstone, are offered in alternate years, so students graduating in odd-numbered years follow a program in which the third and fourth years of PHY courses are interchanged.

Physics Minor

Required courses for a minor in physics include:

Code	Title	Credit Hours
Select one of the following sequences:		6
PHY 105 & PHY 106	General Physics Scientists/Engineers I and General Physics Scientists/Engineers II	
PHY 101 & PHY 102	Non-Calculus General Physics I and Non-Calculus General Physics II	
PHY 103 & PHY 104	General Physics Laboratory and General Physics Laboratory	2
MTH 145 & MTH 146	Calculus I and Calculus II	8
PHY 201	Fields and Waves	3
PHY 203	Foundations of Modern Physics	3
PHY 231	Experimental Foundations Modern Physics	1
Total Credit Hours		23

Physics (B.A.): Pre-Medical

Within this course of study it is possible to fulfill the requirements for a minor in both biology and chemistry.

Course	Title	Credit Hours
Freshman Year		
First Semester		
PHY 105	General Physics Scientists/Engineers I	3
PHY 103	General Physics Laboratory	1
MTH 145	Calculus I	4
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
Credit Hours		21
Second Semester		
PHY 104	General Physics Laboratory	1

PHY 106	General Physics Scientists/Engineers II	3
MTH 146	Calculus II	4
CHM 152	Chemical Principles II	3
CHM 152L	Chemical Principles II Lab	1
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
Credit Hours		18

Sophomore Year**First Semester**

PHY 201	Fields and Waves	3
MTH 245	Calculus III	4
PHL 210	Moral Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
BIO 191	General Biology I	4
CHM 223	Organic Chemistry I	3
CHM 223L	Organic Chemistry 1 Lab	1
Credit Hours		21

Second Semester

PHY 203	Foundations of Modern Physics	3
PHY 231	Experimental Foundations Modern Physics	1
EAC Encountering Another Culture/Language (p. 61)		3
ENG 210	Major Authors	3
CHM 224	Organic Chemistry II	3
CHM 224L	Organic Chemistry II Lab	1
BIO 192	General Biology II	4
Credit Hours		18

Junior Year**First Semester**

PHY 331	Atomic & Nuclear Physics Laboratory	1
PHY 307	Quantum Mechanics I	3
ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
Select one of the following: ¹		3-4
BIO 218	Cell and Molecular Biology	
Elective		
Credit Hours		13-14

Second Semester

Theology (p. 61)		3
PHY Elective		3
PHY Elective		3
Credit Hours		9

Senior Year**First Semester**

PHY 303	Classical Electromagnetic Theory I	3
PHY 476	Physics Capstone	3
Religion (p. 61)		3
VPA Visual & Performing Arts (p. 61)		1
Select one of the following: ¹		3
CHM 460	Biochemistry I	
Elective		
BIO 462	Biochemistry Laboratory ²	2
Credit Hours		15

Second Semester

PHY 321	Analytical Mechanics I	3
COR 400	Senior Studies: Transformations	3
Social Science (p. 61)		3
Select one of the following: ¹		3
BIO 225	The Poisoning of a Planet	
Elective		
Select one of the following: ¹		3
BIO 461	Biochemistry II	
Elective		
Credit Hours		15
Total Credit Hours		130-131

¹ For biology minor, elective otherwise. Either BIO 225 or CHM 460 with BIO 218 for the biology minor.

² CHM 462 Biochemistry Laboratory is not required for CHM 460 Biochemistry I

Most PHY 300- and PHY 400-level courses, except PHY 311 Electronics I, PHY 331 Atomic & Nuclear Physics Laboratory, PHY 431 Advanced Physics Laboratory, and PHY 476 Physics Capstone, are offered in alternate years, so students graduating in odd-numbered years follow a program in which the third and fourth years of PHY courses are interchanged.

Physics (B.S.) with Concentration in Pre-Engineering: Civil with Geotechnical Focus

Course	Title	Credit Hours
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Freshman Year**First Semester**

PHY 103	General Physics Laboratory ¹	1
PHY 105	General Physics Scientists/Engineers I ¹	3
MTH 145	Calculus I ¹	4
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		17

Second Semester

PHY 104	General Physics Laboratory ¹	1
PHY 106	General Physics Scientists/Engineers II ¹	3
MTH 146	Calculus II ¹	4
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
Social Science (p. 61)		4
Credit Hours		18

Sophomore Year**First Semester**

PHY 201	Fields and Waves	3
PHY 311	Electronics I	4
ECS 221 ²		3
MTH 245	Calculus III ¹	4

PHL 210	Moral Philosophy	3
Credit Hours		17

Second Semester

ENG 210	Major Authors	3
PHY 203	Foundations of Modern Physics	3
PHY 231	Experimental Foundations Modern Physics	1
PHY 321	Analytical Mechanics I ¹	3
ECS 325 ²		4
MTH 304	Differential Equations for Scientists And Engineers	4
Credit Hours		18

Junior Year**First Semester**

PHY 331	Atomic & Nuclear Physics Laboratory	1
PHY 307	Quantum Mechanics I	3
CHM 151	Chemical Principles I ¹	3
CHM 151L	Chemical Principles I Laboratory ¹	1
CEE 331 ²		3
ENG 310	Literature and Culture	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		17

Second Semester

PHY 333	Computational Physics	3
PHY 308	Quantum Mechanics II	3
PHY 431	Advanced Physics Laboratory	1
EAC Encountering Another Culture/Language (p. 61)		3
Theology (p. 61)		3
CEE 332 ²		4
Credit Hours		17

Senior Year**First Semester**

PHY 303	Classical Electromagnetic Theory I	3
PHY 476	Physics Capstone	3
DIV Diversity (p. 61)		0
IDS Interdisciplinary Studies (p. 61)		3
CEE 337 ²		4
Religion (p. 61)		3
Credit Hours		16

Second Semester

PHY 401	Mathematical Physics ¹	3
PHY 405	Statistical Physics ¹	3
COR 400	Senior Studies: Transformations	3
CEE 338		3
VPA Visual & Performing Arts (p. 61)		1
PHY Elective		3
Credit Hours		16
Total Credit Hours		136

¹ Satisfies pre-requisites for admission to master's program. 3.0 GPA in math/science/eng & overall also required.

² Taken at Syracuse University.

Most PHY 300- and PHY 400-level courses, except PHY 311 Electronics I, PHY 331 Atomic & Nuclear Physics Laboratory, PHY 431 Advanced Physics Laboratory, and PHY 476 Physics Capstone, are offered in alternate years, so students graduating in odd-numbered years follow a program in which the third and fourth years of PHY courses are interchanged.

Physics (B.S.) with Concentration in Pre-Engineering: Civil with Structural Focus

Course	Title	Credit Hours
Freshman Year		
First Semester		
PHY 103	General Physics Laboratory ¹	1
PHY 105	General Physics Scientists/Engineers I ¹	3
MTH 145	Calculus I ¹	4
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		17
Second Semester		
PHY 104	General Physics Laboratory ¹	1
PHY 106	General Physics Scientists/Engineers II ¹	3
MTH 146	Calculus II ¹	4
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
Social Science (p. 61)		3
Credit Hours		17
Sophomore Year		
First Semester		
PHY 201	Fields and Waves	3
PHY 311	Electronics I	4
ECS 221 ²		3
MTH 245	Calculus III ¹	4
PHL 210	Moral Philosophy	3
Credit Hours		17
Second Semester		
ENG 210	Major Authors	3
PHY 203	Foundations of Modern Physics	3
PHY 231	Experimental Foundations Modern Physics	1
PHY 321	Analytical Mechanics I ¹	3
ECS 325 ²		4
MTH 304	Differential Equations for Scientists And Engineers	4
Credit Hours		18
Junior Year		
First Semester		
PHY 331	Atomic & Nuclear Physics Laboratory	1
PHY 307	Quantum Mechanics I	3
CHM 151	Chemical Principles I ¹	3
CHM 151L	Chemical Principles I Laboratory ¹	1

CEE 331 ²		3
ENG 310	Literature and Culture	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		17
Second Semester		
PHY 333	Computational Physics	3
PHY 308	Quantum Mechanics II	3
PHY 431	Advanced Physics Laboratory	1
CEE 332 ²		3
EAC Encountering Another Culture/Language (p. 61)		3
Theology (p. 61)		3
Credit Hours		16
Senior Year		
First Semester		
PHY 303	Classical Electromagnetic Theory I	3
PHY 476	Physics Capstone	3
DIV Diversity (p. 61)		0
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
CEE 337 ²		4
Credit Hours		16
Second Semester		
PHY 401	Mathematical Physics ¹	3
PHY 405	Statistical Physics ¹	3
COR 400	Senior Studies: Transformations	3
CEE 338 ²		3
VPA Visual & Performing Arts (p. 61)		1
PHY Elective		3
Credit Hours		16
Total Credit Hours		134

¹ Satisfies pre-requisites for admission to master's program.

² Taken at Syracuse University.

Most PHY 300- and PHY 400-level courses, except PHY 311 Electronics I, PHY 331 Atomic & Nuclear Physics Laboratory, PHY 431 Advanced Physics Laboratory, and PHY 476 Physics Capstone, are offered in alternate years, so students graduating in odd-numbered years follow a program in which the third and fourth years of PHY courses are interchanged.

Physics (B.S.) with Concentration in Pre-Engineering: Electrical focus

Course	Title	Credit Hours
Freshman Year		
First Semester		
PHY 103	General Physics Laboratory ¹	1
PHY 105	General Physics Scientists/Engineers I ¹	3
MTH 145	Calculus I ¹	4
WRT 101	Critical Writing	3
HST 110	World Civilization I	3

COR 100	First Year Seminars: Transitions	3
Credit Hours		17
Second Semester		
PHY 104	General Physics Laboratory ¹	1
PHY 106	General Physics Scientists/Engineers II ¹	3
MTH 146	Calculus II ¹	4
MTH 111	Introduction to Statistics I (with Computer Lab)	4
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
Credit Hours		18
Sophomore Year		
First Semester		
PHY 201	Fields and Waves	3
MTH 245	Calculus III ¹	4
ELE 231 ²		3
ELE 291 ²		1
PHL 210	Moral Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		17
Second Semester		
PHY 203	Foundations of Modern Physics	3
PHY 231	Experimental Foundations Modern Physics	1
PHY 321	Analytical Mechanics I	3
MTH 304	Differential Equations for Scientists And Engineers	4
ELE 292 ²		1
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Junior Year		
First Semester		
PHY 331	Atomic & Nuclear Physics Laboratory	1
MTH 311	Introduction to Probability Theory ¹	3
PHY 307	Quantum Mechanics I	3
CHM 151	Chemical Principles I	3
CHM 151L	Chemical Principles I Laboratory	1
ENG 210	Major Authors	3
ELE 251 ²		3
ELE 314 ²		3
Credit Hours		20
Second Semester		
PHY 333	Computational Physics	3
PHY 308	Quantum Mechanics II	3
PHY 431	Advanced Physics Laboratory	1
ENG 310	Literature and Culture	3
VPA Visual & Performing Arts (p. 61)		1
ELE 333 ²		3
ELE 261 ²		3
ELE 262 ²		1
Credit Hours		18

Senior Year**First Semester**

PHY 303	Classical Electromagnetic Theory I ¹	3
PHY 476	Physics Capstone	3
DIV Diversity (p. 61)		0
Theology (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
ELE 351 ²		3
Credit Hours		18

Second Semester

PHY 401	Mathematical Physics ¹	3
PHY 405	Statistical Physics	3
COR 400	Senior Studies: Transformations	3
Social Science (p. 61)		3
PHY Elective ³		3
Credit Hours		15
Total Credit Hours		138

¹ Satisfies pre-requisites for admission to master's program.

² Taken at Syracuse University, or PHY 312 Electronics II, taken at Le Moyne College.

³ If students take PHY 312 Electronics II, they do not need to take a PHY elective. The students will have to take a PHY elective if they take ELE 292.

Most PHY 300- and PHY 400-level courses, except PHY 311 Electronics I, PHY 331 Atomic & Nuclear Physics Laboratory, PHY 431 Advanced Physics Laboratory, and PHY 476 Physics Capstone, are offered in alternate years, so students graduating in odd-numbered years follow a program in which the third and fourth years of PHY courses are interchanged.

Physics (B.S.) with Concentration in Pre-Engineering: Environmental Focus

Course	Title	Credit Hours
Freshman Year		
First Semester		
PHY 103	General Physics Laboratory ¹	1
PHY 105	General Physics Scientists/Engineers I ¹	3
MTH 145	Calculus I ¹	4
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		17
Second Semester		
PHY 104	General Physics Laboratory ¹	1
PHY 106	General Physics Scientists/Engineers II ¹	3
MTH 146	Calculus II ¹	4
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3

Theology (p. 61)	3
Credit Hours	17
Sophomore Year	
First Semester	
PHY 201 Fields and Waves	3
PHY 311 Electronics I	4
MTH 245 Calculus III ¹	4
CHM 151 Chemical Principles I ¹	3
CHM 151L Chemical Principles I Laboratory ¹	1
ECS 221 ²	
Credit Hours	15
Second Semester	
PHY 203 Foundations of Modern Physics	3
PHY 231 Experimental Foundations Modern Physics	1
PHY 321 Analytical Mechanics I	3
MTH 304 Differential Equations for Scientists And Engineers	4
CHM 152 Chemical Principles II	3
CHM 152L Chemical Principles II Lab ¹	1
PHL 210 Moral Philosophy	3
Credit Hours	18
Junior Year	
First Semester	
PHY 331 Atomic & Nuclear Physics Laboratory	1
PHY 307 Quantum Mechanics I	3
EAC Encountering Another Culture/Language (p. 61)	3
ENG 210 Major Authors	3
CIE 341 ²	3
MAE 341 ²	4
Credit Hours	17
Second Semester	
PHY 308 Quantum Mechanics II	3
PHY 333 Computational Physics	3
PHY 431 Advanced Physics Laboratory	1
EAC Encountering Another Culture/Language (p. 61)	3
ENG 310 Literature and Culture	3
CIE 352 ²	4
Credit Hours	17
Senior Year	
First Semester	
PHY 303 Classical Electromagnetic Theory I ¹	3
PHY 476 Physics Capstone	3
DIV Diversity (p. 61)	0
Religion (p. 61)	3
IDS Interdisciplinary Studies (p. 61)	3
Elective	3
Credit Hours	15
Second Semester	
PHY 401 Mathematical Physics ¹	3
PHY 405 Statistical Physics	3
COR 400 Senior Studies: Transformations	3
Social Science (p. 61)	3

VPA Visual & Performing Arts (p. 61)	1
PHY Elective	3
Credit Hours	16
Total Credit Hours	132

¹ Satisfies pre-requisites for admission to master's program.

² Taken at Syracuse University.

Most PHY 300- and PHY 400-level courses, except PHY 311 Electronics I, PHY 331 Atomic & Nuclear Physics Laboratory, PHY 431 Advanced Physics Laboratory, and PHY 476 Physics Capstone, are offered in alternate years, so students graduating in odd-numbered years follow a program in which the third and fourth years of PHY courses are interchanged.

Physics (B.S.) with Concentration in Pre-Engineering: Mechanical and Aerospace Focus

Course	Title	Credit Hours
Freshman Year		
First Semester		
PHY 103	General Physics Laboratory ¹	1
PHY 105	General Physics Scientists/Engineers I ¹	3
MTH 145	Calculus I ¹	4
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		17
Second Semester		
PHY 104	General Physics Laboratory ¹	1
PHY 106	General Physics Scientists/Engineers II ¹	3
MTH 146	Calculus II ¹	4
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
Credit Hours		17
Sophomore Year		
First Semester		
PHY 201	Fields and Waves	3
PHY 311	Electronics I	4
MTH 245	Calculus III ¹	4
EAC Encountering Another Culture/Language (p. 61)		3
ECS 221 ²		3
Credit Hours		17
Second Semester		
PHY 203	Foundations of Modern Physics	3
PHY 231	Experimental Foundations Modern Physics	1
PHY 321	Analytical Mechanics I ¹	3
MTH 304	Differential Equations for Scientists And Engineers	4
EAC Encountering Another Culture/Language (p. 61)		3

ECS 325 ²	4
Credit Hours	18
Junior Year	
First Semester	
PHY 307 Quantum Mechanics I	3
PHY 331 Atomic & Nuclear Physics Laboratory	1
MTH 311 Introduction to Probability Theory ¹	3
CHM 151 Chemical Principles I	3
CHM 151L Chemical Principles I Laboratory	1
ENG 310 Literature and Culture	3
MAE 341 Fluid Mechanics ²	4
Credit Hours	18
Second Semester	
PHY 308 Quantum Mechanics II	3
PHY 333 Computational Physics ¹	3
PHY 431 Advanced Physics Laboratory	1
PHL 210 Moral Philosophy	3
Religion (p. 61)	3
VPA Visual & Performing Arts (p. 61)	1
Credit Hours	14
Senior Year	
First Semester	
PHY 303 Classical Electromagnetic Theory I	3
PHY 476 Physics Capstone	3
DIV Diversity (p. 61)	0
IDS Interdisciplinary Studies (p. 61)	3
Theology (p. 61)	3
ECS 326 Engineering Materials ²	3
Credit Hours	15
Second Semester	
PHY 405 Statistical Physics ¹	3
COR 400 Senior Studies: Transformations	3
Social Science (p. 61) ²	3
PHY Elective	3
PHY Elective	3
Credit Hours	15
Total Credit Hours	131

¹ Satisfies pre-requisites for admission to master's program.

² Taken at Syracuse University.

Most PHY 300- and PHY 400-level courses, except PHY 311 Electronics I, PHY 331 Atomic & Nuclear Physics Laboratory, PHY 431 Advanced Physics Laboratory, and PHY 476 Physics Capstone, are offered in alternate years, so students graduating in odd-numbered years follow a program in which the third and fourth years of PHY courses are interchanged.

POLITICAL SCIENCE

Chair: Matthew Loveland

Professor: Delia Popescu

Associate Professor: Matthew Loveland, Jonathan Parent

Professor of Practice: Anirban Acharya, James T. Snyder

Visiting Assistant Professor: Yunus Sozen

Professor Emeritus: J. Barron Boyd

The Department of Political Science has as its main objective educating students about the political concerns of society. The coursework covers the wide range of topics associated with the discipline, and provides solid preparation for such career choices as graduate school, law school, business, journalism, education and public service. To facilitate academic focus the department offers five concentrations (Pre-Law, Public Service, International Relations/Comparative Politics, General Study and Education). Whatever career path is chosen, however, the department's primary mission is to prepare students for a life of active and informed citizenship.

Students majoring in political science must choose a concentration with the advice and consent of the departmental advisor. Each of the department's five concentrations provides rigorous training with emphasis on the skills needed to prepare for careers or post-graduate education. The Pre-Law concentration offers students a well-rounded curriculum focused on critical thinking and analytical skills for law school or for graduate work related to the academic study of law. The Public Service concentration prepares students for careers at all levels of public administration and policy making. The International Relations/Comparative Politics concentration offers training in the dynamic issues of international affairs and prepares students for careers in diplomacy, foreign service, international organizations and any other careers that requires knowledge of international issues.

In keeping with Le Moyne's Jesuit heritage and our nation's democratic creed, the faculty of the department is committed in our various courses, classes and pedagogical methods to the following goals:

1. Development of critical thinking skills,
2. Growth in values awareness,
3. Development of decision-making skills,
4. Sensitizing students to the role of power and the pervasiveness of politics,
5. Development of political skills and
6. The combined use of these skills for possible future public service, whether local, state, national or international.

As part of our commitment to these objectives, the department requires that majors complete one of the following practical experiences: Two one-credit service learning courses, an internship, a study abroad experience or any similar practical experience to be decided in consultation with the department chair (for a minimum of two credit hours). These experiences are designed to link the students' academic learning with real world experiences of citizenship.

Student Learning Objectives in Political Science

Critical thinking

For our department, critical thinking in social science means identifying gaps in existing knowledge and filling them. It also means applying social science knowledge to social and political problems in service of a more just society. To demonstrate critical thinking, student work evaluates existing political science knowledge, analyzes appropriate data, and creates reasonable policy proposals. Examples of student work we would use to evaluate this outcome would be a research methods research proposal, papers applying theory to current political problems, and a senior capstone paper.

Values awareness

Students analyze their own values relative to longstanding normative worldviews. Political Science graduates evaluate how their value systems are informed by politics and in turn influence policy preferences. Across the curriculum students work to create a unique sense of self upon a foundation of moral reflection. Examples of student work to assess are the 3 reflection papers written as part of our department's Service Learning requirement.

Power in politics

Students analyze power disparities across economic, social, and political statuses. Students evaluate how these disparities relate to one another in current political conditions. Students create and articulate a coherent position of their placement in current structures of power. Student work that demonstrates this would be course papers in Power and Justice, Democracy and Its Critics, and a senior capstone experience.

- Political Science (B.A.) with Concentration in Pre-Law (p. 284)
- Political Science (B.A.) with Concentration in Public Service (p. 285)
- Political Science (B.A.) with Concentration in International Relations/Comparative Politics (p. 287)
- Political Science (B.A.) with Concentration in General Study (p. 289)
- Political Science (B.A.) with Teacher Certification (p. 290)
- Double Majors

Political Science can be paired with a variety of other majors for a double major, including: history, peace and global studies, theatre.

 - Double Major in Political Science and Communications (p. 290)
 - Double Major (B.A.) in Political Science and History (p. 290)
 - Double Major (B.A.) in Political Science and Peace and Global Studies (p. 291)
 - Double Major (B.A.) in Political Science and Theatre (p. 291)
- Minors
 - Political Science Minor (p. 292)
 - Legal Studies Minor (p. 292)

Political Science (PSC)

PSC 100. Contemporary Issues in American Politics. 3 Credit Hours.

A study of several important issues in contemporary American society and of the manner in which they are being handled by our political system. Among the issues covered are: the energy crisis, nuclear energy, toxic wastes, inflation, recession, government spending, crime, military spending, the arms race and the new religious right. This course does not fulfill requirements for a major in political science; it will carry credit toward a minor. Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: CJS 100

PSC 101. American National Politics. 3 Credit Hours.

A study of the institutions, culture, ideologies and political processes that go into the making of government and politics in the United States on the national level. A one-credit service learning experience may be offered in conjunction for non-majors. This course, and the service learning experience integrated into it, are required of all Political Science majors.

PSC 105. Comparative Politics. 3 Credit Hours.

This course will introduce you to the comparative analysis of governments, political movements, institutions, cultures, and ideologies around the world. The course will comparatively address a variety of cases including the UK, France, Brazil, Iran, China, Russia, India, Nigeria, and the U.S.

Fulfills Core Requirement(s): DIV.

Cross-listed Courses: PGS 105

PSC 201. Introduction to Political Science. 3 Credit Hours.

An introduction to the philosophy and methodology of the scientific study of politics. A survey of the various approaches to political science and their utility. Required of all Political Science majors.

PSC 202. Methods of Political Science. 3 Credit Hours.

An introduction to the philosophy and methodology of the scientific study of politics. A survey of the various approaches to political science and their utility: Research methodology, the analysis of political data, survey research methods. Required of all Political Science majors.

Prerequisites: MTH 111 and one of the following: PSC 101, SOC 101, ANT 101, ANT 102, CJS 101.

Cross-listed Courses: CJS 201, SOC 201

PSC 203. Public Opinion, Political Behavior, and Policy. 3 Credit Hours.

Politicians and members of the media often refer to public opinion when discussing policy options and political strategy. Scholars study public opinion as a way to describe and explain political behavior, social divisions, and policy debates. But what is 'public opinion' and does it affect policy decisions, voting, or activism? This course surveys classical and contemporary scholarly approaches to theorizing and measuring public opinion, as well as the role of 'public opinion' in the framing of political debate, political action, and the formation of public policy.

PSC 205. Introduction to Legal Studies. 3 Credit Hours.

An introduction to the American legal system: its processes, institutions, actors, objectives, values, and impact. We will investigate how law affects not only society but also how it affects the attitudes and actions of individuals in everyday life. To study this, an interdisciplinary approach is adopted and theories that range from the mainstream to the critical will be examined. This course is required for the LGS minor.

Cross-listed Courses: LGS 201

PSC 207. Power and Justice. 3 Credit Hours.

What is power? How do we know when power is exercised unjustly?

This introductory course in political theory examines classic texts in political theory that explore three interrelated themes: the mechanisms of power, identity, and resistance. The aim of the course is to clarify the mechanisms of power, how individuals function within these power structures and how they can resist unjust power.

Fulfills Core Requirement(s): Diversity (DIV).

PSC 221. State Government and Politics. 3 Credit Hours.

This course examines the role of the states in the U.S. political system, with special emphasis on New York State government's institutions, political processes and public policies. The evolving nature of federalism and intergovernmental relations are covered, as are specific areas of state policy: education, environment, criminal justice, welfare, healthcare and economic development. A field trip to Albany focusing on a current controversy in state politics is a required part of the course.

PSC 223. The Presidency. 3 Credit Hours.

A study of the legal and political powers and responsibilities of the presidency, especially as influenced by trends in national and international life. The task of chief executive receives major attention.

PSC 230. Legal Research and Writing. 3 Credit Hours.

Students will be introduced to the skills of legal analysis, legal research, and legal writing. The course will focus on building a basic legal vocabulary, issue recognition, effective organization, clear writing, and proper legal citation. Students will also have an opportunity to strengthen their speaking skills by participating in oral arguments. These skills form the essential building blocks of critical and logical thinking, and will serve any student interested in pursuing legal studies, advancing their undergraduate education, entering graduate school, or working in science or business.

Cross-listed Courses: LGS 230

PSC 243. Law and Politics. 3 Credit Hours.

A study of the relationship between legal and political norms, actors and institutions. Through analysis of contemporary controversies the following questions are examined: How is law political? Can or should judging be value free? What are the alternatives to going to court? What values does the legal system maintain? Can law change an unwilling society?

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: LGS 243

PSC 253. Cybersecurity Law. 3 Credit Hours.

An introduction to the key legal and policy issues related to cybersecurity, including the legal authorities and obligations of both the government and the private sector with respect to protecting computer systems and networks, as well as the national security aspects of the cyber domain including authorities related to offensive activities in cyberspace. The course will include a survey of federal laws, executive orders, regulations, and cases related to surveillance, cyber intrusions by private and nation-state actors, data breaches, and privacy and civil liberties matters, among other things.

Cross-listed Courses: LGS 253

PSC 261. International Politics. 3 Credit Hours.

A survey of some major problems associated with international politics. Special attention is given to the study of nationalism, the nation-state, international organization (especially the United Nations), and the comparative foreign policies of selected nations. Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PGS 261

PSC 301. The U.S. Supreme Court. 3 Credit Hours.

An examination of the personalities, politics, processes, decision-making and impact of the United States Supreme Court. Cross-listed Courses: LGS 301

PSC 303. Democracy and Its Critics. 3 Credit Hours.

The term "democracy" has become synonymous with legitimate rule. But what kind of democracy is the true fountain of legitimacy? What type of institutions are best fitted for instituting democracy? What are the conditions without which democracy cannot survive? Who is included in the phrase "we, the people"? Are democratic regimes more viable in homogenous or heterogeneous societies? Can democracy be tyrannical? This course investigates historical and contemporary controversies that reflect various challenges to democracy, the forms of actual democratic politics, and the meaning of "democracy" as a concept. Fulfills Core Requirement(s): Interdisciplinary Studies (IDS) and Diversity (DIV).

Cross-listed Courses: PGS 303

PSC 310. Us Diplomatic History Since 1900. 3 Credit Hours.

Emphasis is on the rise of the United States to world power and on its diplomacy before, during and after the two world wars. May be taken for history or political science credit.

PSC 312. Women and Politics. 3 Credit Hours.

The goal of this course is to make women visible and their voices audible in the study of American politics. "Politics" is broadly construed to include the politics of everyday life as well as that of national institutions. While gender politics is stressed, we will also study how race, ethnicity, class, sexual orientation, religion, disability and age affect a person's place and role in American society, culture and politics. Fulfills Core requirement(s): DIV.

Cross-listed Courses: GWS 312

PSC 314. Church and State in the United States. 3 Credit Hours.

An overview of church-state relations from colonial times to the present. It includes: judicial decisions on the establishment of religion and the freedom of religious practice; the power of religious groups in the political process; church-state relationships in other nations. Fulfills Core requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: REL 314

PSC 320. The Self, Society, and Justice. 3 Credit Hours.

The self is one of the most familiar and yet most mysterious of concepts. We take for granted the idea that we have or are a self, and we regularly and comfortably refer to selves. But what is the self? And what are the moral and political implications for how we understand justice and the self? This course explores the nature of the self through philosophical and social scientific lenses. We will consider classic philosophical and social scientific discussions of the self, as well as the ways in which these disciplines can challenge, enrich, and play off of each other. Prerequisites: PHL 110.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: PHO 366

PSC 322. Urban Politics. 3 Credit Hours.

A study of the effects on the government and politics of urban areas due to the trends that have made America predominantly urbanized. Questions treated include the political effects of population changes, metropolitan governmental structures and the federal system's dynamics concerning urban areas.

PSC 324. Congress. 3 Credit Hours.

Congress, its structure and processes, is the prime focus, but similarities to other legislative systems are examined. The relationship between individual and institutional goals is studied as it is influenced by political demands and opportunities.

PSC 325. Conservatism in America. 3 Credit Hours.

What is conservative political thought? Is there such a thing as a coherent conservative political philosophy? This course examines classic conservative texts with a focus on the principles that established its foundations. The course follows the intellectual evolution of the conservative tradition in both Europe and America. Fulfills Core Requirement(s): Diversity (DIV) and Interdisciplinary Studies (IDS).

PSC 329. History of Latin American Social Movements. 3 Credit Hours.

Will examine peaceful Latin American social change movements in historical and global context. The civil components of violent revolutions will be examined along with peaceful social movements that confronted ruthless dictatorships across Latin America, energizing democracy and expanding ethnic rights. The course will look at how these movements re-defined gender roles and placed the economic and environmental concerns of the poor in the international spotlight. Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: HST 329, GWS 329, PGS 329

PSC 331. Introduction to Public Administration. 3 Credit Hours.

The history, background and terminology of the administrative process; the function of the administrator; the theory of organization and its practice; personnel administration; financial administration and the budgetary process; administrative law; traditional branches of government as they relate to administration; current trends and problems.

PSC 332. Public Policy. 3 Credit Hours.

An examination of the public policy making process with emphasis on policy planning, decision making, policy impact and policy evaluation. Focuses on specific program areas such as education, the environment, health care, crime and punishment.

PSC 333. Environmental Politics. 3 Credit Hours.

A study of the political institutions, actors, laws and policies affecting the environment. The course deals with value choices underlying public policies in areas such as air and water pollution, waste disposal, and ozone depletion. The course examines how such policies are made and implemented, as well as what actions, both individual and collective, can be taken to alleviate such problems.

PSC 334. Social Activism. 3 Credit Hours.

An experiential and academic examination of social activism in the United States. The course first explores the meaning of citizenship and the role of activism in a democratic republic. It then focuses on how activism is done by analyzing various social movements and the impact they have had on citizenship, public policy and social change. Fulfills Core Requirement(s): Diversity (DIV) and Interdisciplinary Studies (IDS).

Cross-listed Courses: GWS 334, PGS 334

PSC 340. Science, Technology, & the Good Society. 3 Credit Hours.

From the alarm clock (or is it your smart phone?) that wakes us up to the Tylenol PM that helps us get to sleep, and all tablets and wearable technology in between, scientific wonders and technological gadgets are woven into our experiences and relationships like never before. Are these signs of social progress? Are these indicators we've lost touch with our humanity? Are we more connected or more isolated as a result? Are we freer, or more surveilled? How do we live responsibly and promote justice in this? These are questions we'll address in this seminar style course about living a life for others in a society regularly transformed by science and technology.

PSC 344. Immigration. 3 Credit Hours.

This course examines the topic of immigration from multiple perspectives: historical comparison between current and previous waves of immigrants, political debates over what we should do locally and nationally, the complex economic and social impacts of immigrants (both legal and unauthorized), the changing legal environment, comparative immigration policies, and the post-9/11 national security implications of immigration. This course aims to have you explore and challenge your own views, try to make sense of competing arguments and evidence, and gain a respect for perspectives not your own. A visit to the National Immigration Museum at Ellis Island may be planned.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PGS 344, SOC 343, CJS 343

PSC 345. Government and Business. 3 Credit Hours.

This course explores the impact of business strategies and power on government decisions. It then focuses on government policies that influence business behavior. This topic addresses a central and timely question: What is the proper relationship between government and business that would best promote the culture's values and the public good?

PSC 351. Political Parties. 3 Credit Hours.

An experiential and reflective study of the activity of the political parties, especially regarding elections, with some attention to the structure and functions of parties in different nations and their promotion of democratic participation.

PSC 353. Government and the Mass Media. 3 Credit Hours.

The interaction between the United States government and the "Fourth Estate" will be studied through an examination of theoretical works, descriptive narratives, empirical studies and current events. Issues studied will include how the government attempts to control and regulate the media.

Cross-listed Courses: CMM 353

PSC 354. Politics in Film. 3 Credit Hours.

An examination of the political messages and implications of contemporary films. This course examines both how films portray politicians and the political system, as well as the more subtle political messages embedded in films which have to do with socialization orientations toward power, authority, participation and the like. Fulfills Core Requirement(s): Visual and Performing Arts (VPA) and Interdisciplinary Studies (IDS).

PSC 357. Politics of the Middle East. 3 Credit Hours.

The goal of this course is to provide a nuanced understanding of Middle Eastern politics while fostering analytical skills. We will analyze contemporary political processes, starting from the establishment of nation-states and consolidation of authoritarianisms in the region, and working our way toward the Arab Spring and the authoritarian backlash that followed. Throughout the course, we will think about the key factors that shape politics in the region, specifically trying to critically think about 'Middle East exceptionalism' - the idea that authoritarianism is widespread and persistent in the region, more so than anywhere else in the world. This is a comparative politics course that integrates history with international relations through a comparative lens, and as a result, its focus is on the development of state-society relations. The topics covered here are pertinent to current international debates related to populism, nationalism, the rise of authoritarianism, and challenges to democracy and democratic institutions. Junior standing required. Fulfills Core Requirements: Interdisciplinary Studies (IDS) and Diversity (DIV).

Cross-listed Courses: PGS 357

PSC 359. Cold War & Global Upheaval, 1964-Present. 3 Credit Hours.

An intensive study of the later years of the Cold War and the post-Cold War period. Continued Soviet and American rivalry combined with efforts to control the nuclear arms race, Third World "proxy wars" such as Vietnam and Afghanistan, the collapse of the Iron Curtain and end of the Soviet Union, global adjustments to the development of a unipolar world, the rise of terrorism and jihadist tendencies, social and cultural impacts.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: HST 359, PGS 369

PSC 360. Model United Nations. 1 Credit Hour.

This course is designed to provide an orientation to the activities of the United Nations, as well as providing an understanding of the modalities of international diplomacy. This course will include current events, pressing international issues, the basics of international law and some of the protocol and procedures of diplomacy. All of this will assist students in preparing for their role as a distinguished diplomat at the National Model United Nations conference (conference attendance is not mandatory).

Cross-listed Courses: PGS 360

PSC 361. Debate Practicum. 1 Credit Hour.

This course introduces students to argumentation and public speech fundamentals in a debate-style format. Students will be trained in constructing arguments, defending positions, choosing evidence, documenting sources, studying logical reasoning, recognizing fallacies of reasoning, cross-examining opponents, delivering rebuttals, and giving oral critiques. Debate tournament participation may be part of the course.

PSC 362. International Law. 3 Credit Hours.

The course will examine the theory and practice of International Law (IL) with reference to various events, which shaped the development of international law in all its forms (norms, rules, principles, precedent, custom, treaties etc). The course will emphasize current international legal norms and possibilities for future development.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: LGS 362, PGS 364

PSC 363. U.S. Foreign Policy. 3 Credit Hours.

This course will examine how the foreign policy of the United States is made. It will look at the sources of foreign policy, the factors which influence its formation, and the substance of past and present U.S. policies.

Cross-listed Courses: PGS 363

PSC 366. Globalization: the Politics of International Economic Relations. 3 Credit Hours.

This course focuses on the power relationships behind contemporary international economic events. Among the issues that will be addressed: trade and protectionism, multinational corporations, international debt, the opening of investment markets in Eastern Europe and Western-Third World economic relations. The basic principles of macroeconomics and international finance will be covered.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PGS 366

PSC 367. War, Peace and Violence. 3 Credit Hours.

This course will examine the theory and practice of the Just War doctrine. At the most general level, we will be concerned with the debate between realists, just war theorists and pacifists over the moral character of war. More specific topics include the justification of defensive, pre-emptive and preventive wars; humanitarian intervention; the combatant/noncombatant distinction; the distinction between direct and "collateral" harm to civilians; sieges, blockades and economic sanctions; guerrilla warfare; terrorism and reprisals; nuclear deterrence; and various religious conceptions of war and peace, especially those found in various Christian pacifist and Islamic traditions.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: PGS 367

PSC 368. Special Topics: Prague: Politics & Literature. 3 Credit Hours.

This course will introduce students to Prague, the first UNESCO Creative City of Literature, through a "city as text" approach, supported by both political and literary texts. We will explore the city of Prague in order to trace the construction of political identity through markers that can be found in anything from street names, architecture, urban art, political workshops, and theatrical performances. The course is meant as an immersive experience and it will aim to include a variety of social, political, and artistic experiences that will allow students to put together literary life with its historical and lived reality in the city of Prague.

Additional Course fees associated with travel. Permission of instructor required for registration.

PSC 370. International Courts & Global Justice. 3 Credit Hours.

This course combines almost three weeks of study abroad at The Hague University in the summer with Le Moyne-based sessions in either the Fall after travel or the Spring prior to travel. The course provides historical, analytical, as well as experiential education in the fields of genocide studies, justice, and conflict resolution through intensive workshops, lectures, simulations, and a case-study. We will focus on the meaning of justice and its various dimensions (do we seek retribution, restoration, or some transitional middle ground?), and on how the international pursuit of that justice is complicated by issues such as sovereignty, denial of genocide, on-going violence, and the rejection of international jurisdiction. The course consists of in-class "traditional" lectures at (built around the case study and all of the related facets of international justice), interactive sessions with international court personnel, jurists, and scholars, as well as visits to historical sites. This course fulfills the study abroad requirement for PSC majors and Integral Honors Students. NOTE: THERE ARE ADDITIONAL TRAVEL EXPENSES ASSOCIATED WITH THIS COURSE. TRAVEL COMPONENT OVER SUMMER 2017 IS MANDATORY; NO REGULAR CLASSROOM MEETINGS DURING SPRING 2017 SEMESTER. SEE INSTRUCTOR FOR REGISTRATION.

Cross-listed Courses: PGS 370

PSC 375. The New Europe: Central & Eastern Europe. 3 Credit Hours.

This course provides a comparative analysis of the political systems in Eastern Europe from 1945 to the present. The goal of this course is to provide students with a broad perspective on the changes that took place in Eastern Europe over the last century with an emphasis on the period around and after the 1989 revolutions.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS) and Diversity (DIV).

Cross-listed Courses: PGS 375

PSC 377. Security Studies. 3 Credit Hours.

The purpose of this course is to introduce a selection of the most important ideas that form the basis of security studies including the international political system, the state, the military, and war, and other prevailing concepts, organizing principles, military deployment patterns, legal regulations, and political relationships that determine the state of international security at the moment. The course will also explore the organization and functions of the U.S. Intelligence community, its interaction with national security policymakers, key issues about its workings, and the challenges it faces in defining its future role.

Cross-listed Courses: PGS 377

PSC 389. Opium, Empire, and State in Asia. 3 Credit Hours.

Opium is an ancient medicine that became a mainstay for European traders in Asia and the keystone of their imperial economies. After opium opened Asian states to European influence it was established as an economic necessity for multi-national empires, emerging states, and insurgencies alike. This course looks at the political, economic, and social relations of opium in Asia and the world. It examines the connections between local production and global trade in the politics of native cultures, national governments, and international relations. At the end of the semester students will be able to look at today's headlines and understand their historical roots as well their future implications. Fulfills Core requirement(s): Diversity (DIV); and Interdisciplinary studies (IDS)

OR Cultural Elective (CE). Course cannot fulfill all 3 requirements.

Cross-listed Courses: HST 389, PGS 389

PSC 390. Independent Study. 1-3 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the academic dean. It will be kept on file in the academic dean's office.

PSC 402. Program Evaluation Research Methods And Policy. 3 Credit Hours.

The goal of this course is to develop a comprehensive understanding of the use of behavioral science research methods and theories for program and intervention evaluations. Topics given special emphasis include: measurement strategies and problems, needs assessment, experimental and quasi-experimental field designs, qualitative methods, benefit-cost analysis, statistical approaches to modeling bias and the use of evaluation results in the policy process.

Cross-listed Courses: SOC 402, ECO 402

PSC 405. International Human Rights. 3 Credit Hours.

This course will examine the development of human right in the international system. It will explore the content of the current international human right regime -the "blue" social and political rights and the "red" economic rights, as well as "green" rights to development, a clean environment, and peace. It will explore how rights develop and are propagated and will examine the role of governments, international organizations, and non-governmental organizations in the development of rights thinking. By way of illustration, it will examine the anti-apartheid struggle in South Africa and the expansion of women's rights over the last twenty years.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PGS 405, GWS 405

PSC 417. African History. 3 Credit Hours.

This course introduces students to the development of African historiography. Students will interpret, analyze and critique different methodologies and have the opportunity to pursue their own specific research interests. In addition, this course will also examine the importance of the African oral tradition, European and Arabic travel literature, archeology and anthropology in the intellectual construction of Africa. This course is designed for upper-level history majors and other interested students.

Fulfills Core Requirement(s): Diversity (DIV) and Cultural Elective (CE).

Cross-listed Courses: PGS 417, HST 417

PSC 428. Politics and Literature. 3 Credit Hours.

Does literature reflect on the use of power, authority, ideology and identity? How does literature affect us and the way we interpret the political world? What makes theatre political? What hopes for changing the world does theatre dramatize? How does the theatre become a productive site for representing, and even enacting, political change?

This course explores these questions by reading various literary works including a number of plays from different time periods. The encompassing question this course tries to answer (by analyzing the perspectives of different authors) is: What does it mean to have political freedom?

Fulfills Core Requirement(s): Diversity (DIV) and Interdisciplinary Studies (IDS).

Cross-listed Courses: THR 428

PSC 440. Special Topics Placeholder. 3 Credit Hours.

Special Topics for Political Science are designated as PSC 440-445.

PSC 448. In Search of Community. 3 Credit Hours.

This course is designed to examine the significance and meaning of community in a variety of contexts and how people attempt to build it. We will examine competing definitions of community, consider the meaning of political communities, religious communities, urban and rural communities, counterfeit communities, virtual communities, and global communities. Particular attention will be given to examining the conditions that must be present in order to build the social capital needed to create genuine communities.

PSC 450. Senior Seminar. 3 Credit Hours.

The Senior Seminar in Political Science requires students to apply their knowledge of theory and methods to a current question in political science. Students will develop an original paper about a question of their choice, and present that paper to their peers at the end of the semester. Throughout the seminar, students will read and discuss a range of contemporary political science literature. Prerequisite(s): PSC 201, PSC 202, PSC 207. Senior standing required.

PSC 451. American Constitutional Law I. 3 Credit Hours.

A study of selected problems in constitutional law with emphasis on areas of current concern. Material consists of case studies, selected articles, commentaries and judicial biographies. The Supreme Court is viewed as a social, economic and cultural force in our political system as well as a source and arbiter of law and order. The interaction of the court and interest groups is examined in connection with the development of constitutional law.

Cross-listed Courses: LGS 451

PSC 452. American Constitutional Law II. 3 Credit Hours.

A study of selected problems in constitutional law with emphasis on areas of current concern. Material consists of case studies, selected articles, commentaries and judicial biographies. The Supreme Court is viewed as a social, economic and cultural force in our political system as well as a source and arbiter of law and order. The interaction of the court and interest groups is examined in connection with the development of constitutional law.

Cross-listed Courses: LGS 452

PSC 460. Law and Reproductive Rights. 3 Credit Hours.

The law touches on every aspect of our lives, including the most intimate and personal decisions we make concerning our reproduction, our sexuality, and our very identities. This course will focus on the ways in which lawmakers and judges have tried to create policy dealing with these extremely difficult issues, as well as what those outside of the courts and legislatures have argued about what the government's role should be in this area. Selected topics to be covered include abortion, the regulation of birth and motherhood, LGBT rights and policy, birth control and sex education.

Cross-listed Courses: CCM 460, CCM 560

PSC 470. Seminar: Environmental Topics. 3 Credit Hours.

This advanced seminar provides students with the opportunity to explore the complexity of environmental issues in detail. By choosing current topics and analyzing the scientific and socio-economic factors underlying environmental problems, students will develop greater awareness and understanding of society's ability to mitigate these problems. This course places a high emphasis on oral and written presentation skills. Prerequisite(s): 20 credits in BIO, ESS, PSC, ECO from 200, 300 or 400 level courses.

Cross-listed Courses: BIO 470, ESS 470

PSC 480. Service Learning. 1 Credit Hour.

Service Learning combines community service work with academic study and self-reflection. The experience, a commitment of 12-15 hours, must be taken in association with a credited Political Science course. Service Learning is intended to teach and promote an expanded idea of citizenship.

PSC 490. Political Internship. 3 Credit Hours.

Participation in a field learning experience closely related to one of the areas of political science. The student intern will report as required to the faculty member assigned to supervise this field experience and is expected to evaluate the experience and relate it to his or her academic program. Three hours of field work per week will be required to generate one credit. Does not count as political science elective hours toward a major or minor.

Prerequisite: permission of the department chair.

PSC 491. Political Internship. 6-9 Credit Hours.

Participation in a field learning experience closely related to one of the areas of political science. The student intern will report as required to the faculty member assigned to supervise this field experience and is expected to evaluate the experience and relate it to his or her academic program. Three hours of field work per week will be required to generate one credit. Does not count as political science elective hours toward a major or minor.

Prerequisite: permission of the department chair.

PSC 495. Honors Project. 3 Credit Hours.

To qualify for an honors degree in political science, a student must be a declared political science major, have a GPA of at least 3.5 overall and 3.5 in political science, and complete an honors project. The project will consist of a research effort completed under the direction of a political science professor and presented to the department. A preliminary thesis, outline, methodology and bibliography must be approved by the professor before the student may register. (Normally taken in the first semester of the senior year and only with permission of the department chair).

Political Science (B.A.) with Concentration in Pre-Law

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3

VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
PSC 101	American National Politics	3
PSC 201	Introduction to Political Science	3
PSC 202	Methods of Political Science	3
PSC 205	Introduction to Legal Studies	3
PSC 207	Power and Justice	3
Political Science Electives		6
Internship, Service Learning or Study Abroad		2
Select one of the following:		3
PSC 303	Democracy and Its Critics	
PSC 334	Social Activism	
PSC 367	War, Peace and Violence	
PSC 325	Conservatism in America	
Select one of the following:		3
PSC 451	American Constitutional Law I	
PSC 452	American Constitutional Law II	
PSC 324	Congress	
Select two of the following:		6
PSC 243	Law and Politics	
PSC 230	Legal Research and Writing	
PSC 301	The U.S. Supreme Court	
PSC 362	International Law	
PSC 405	International Human Rights	
Major Support Requirements		
LAW 200 or 300 level		3
Select one of the following:		3
HST 211	American History Survey I	
HST 212	American History Survey II	
HST 316	History of American Law	
Select one of the following:		3
PHL 310	Critical Reasoning	
PHL 311	Introduction to Formal Logic	
PHL 362	Theory of Knowledge	
PHL 363	Analytic Philosophy	
PSC 351	Political Parties	
Select two of the following:		6
PHL 350	Philosophy of Law	
PSY 335	Psychology and the Law	
SOC 321	Law, Society and Social Science	
ENG 395	Nonfiction Writing Workshop ³	3
or ENG 397 Writing Nonfiction: the Art of Writing Short		
MTH 111	Introduction to Statistics I (with Computer Lab)	4
Free Electives		
Free Electives		12
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.
² Fulfills Core math requirement.

³ Must be of legal content. See your advisor for more information.
Not offered every year.

Course	Title	Credit Hours
Freshman Year		
First Semester		
PSC 101	American National Politics	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Second Semester		
PSC 207	Power and Justice	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
HST 111	World Civilization II	3
PHL 110	Introduction to Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		16
Sophomore Year		
First Semester		
PSC 201	Introduction to Political Science	3
DIV Diversity (p. 61)		3
Natural Science (p. 61)		3
ENG 210	Major Authors	3
Religion (p. 61)		3
Credit Hours		15
Second Semester		
PSC 202	Methods of Political Science	3
Select one of the following:		3
PSC 243	Law and Politics	
PSC 301	The U.S. Supreme Court	
PSC 362	International Law	
PSC 405	International Human Rights	
PSC 205	Introduction to Legal Studies	3
PHL 210	Moral Philosophy	3
Select one of the following:		3
HST 316	History of American Law	
HST 211	American History Survey I	
HST 212	American History Survey II	
Credit Hours		15
Junior Year		
First Semester		
Select one of the following:		3
PSC 451	American Constitutional Law I	
PSC 452	American Constitutional Law II	
PSC 324	Congress	
Select one of the following:		3
PSC 243	Law and Politics	
PSC 301	The U.S. Supreme Court	
PSC 362	International Law	

PSC 405	International Human Rights	
ENG 310	Literature and Culture	3
Select one of the following:		3
PHL 350	Philosophy of Law	
PSY 335	Psychology and the Law	
SOC 321	Law, Society and Social Science	
Free Elective		3
Credit Hours		15
Second Semester		
PSC Elective		3
Select one of the following:		3
PHL 310	Critical Reasoning	
PHL 311	Introduction to Formal Logic	
PHL 362	Theory of Knowledge	
PHL 363	Analytic Philosophy	
Select one of the following:		3
PSC 303	Democracy and Its Critics	
PSC 367	War, Peace and Violence	
PSC 325	Conservatism in America	
LAW 200/300 Level Elective		3
Free Elective		3
Credit Hours		15
Senior Year		
First Semester		
PSC Elective		3
ENG 395	Nonfiction Writing Workshop	3
or ENG 397	or Writing Nonfiction: the Art of Writing Short	
COR 400	Senior Studies: Transformations	3
Theology (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		15
Second Semester		
Select one of the following:		3
PHL 350	Philosophy of Law	
PSY 335	Psychology and the Law	
SOC 321	Law, Society and Social Science	
Intern/Service Learning		2
VPA Visual & Performing Arts (p. 61)		1
Free Elective		3
Free Elective		3
Credit Hours		12
Total Credit Hours		118

Political Science (B.A.) with Concentration in Public Service

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3

PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
PSC 101	American National Politics	3
PSC 201	Introduction to Political Science	3
PSC 202	Methods of Political Science	3
PSC 207	Power and Justice	3
PSC Elective		6
Internship, Service Learning or Study Abroad		2
PSC 105	Comparative Politics	3
or PSC 375 The New Europe: Central & Eastern Europe		
PSC 303	Democracy and Its Critics	3
or PSC 325 Conservatism in America		
Select three of the following:		9
PSC 203	Public Opinion, Political Behavior, and Policy	
PSC 221	State Government and Politics	
PSC 223	The Presidency	
PSC 230	Legal Research and Writing	
PSC 312	Women and Politics	
PSC 322	Urban Politics	
PSC 324	Congress	
PSC 331	Introduction to Public Administration	
PSC 332	Public Policy	
PSC 334	Social Activism	
PSC 344	Immigration	
PSC 345	Government and Business	
Major Support Requirements		
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
HST 212	American History Survey II	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
Select one of the following:		3
ECO 205	Economics of Public Policy Analysis	
ECO 335	Economics of Poverty	
HRM 301	Human Resource Management	
Select one of the following:		6

MTH 112	Introduction to Statistics II (& CSC Elective)	
Two EAC/language courses		
Free Electives		
Free Electives		12
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfills Core math requirement.

Course	Title	Credit Hours
Freshman Year		
First Semester		
PSC 101	American National Politics	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Second Semester		
PSC 207	Power and Justice	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
HST 111	World Civilization II	3
PHL 110	Introduction to Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		16
Sophomore Year		
First Semester		
PSC 201	Introduction to Political Science	3
PSC 221	State Government and Politics	3
or PSC 223 or The Presidency		
Natural Science (p. 61)		3
HST 212	American History Survey II	3
Select one of the following:		3
MTH 112	Introduction to Statistics II	
EAC/World Language Course		
Credit Hours		15
Second Semester		
PSC 202	Methods of Political Science	3
Select one of the following:		3
PSC 322	Urban Politics	
PSC 324	Congress	
PSC 344	Immigration	
PHL 210	Moral Philosophy	3
ENG 210	Major Authors	3
ECO 113	Principles of Microeconomics	3
Credit Hours		15
Junior Year		
First Semester		
PSC 105	Comparative Politics	3
or PSC 375 or The New Europe: Central & Eastern Europe		
ENG 310	Literature and Culture	3

ECO 114	Principles of Macroeconomics	3
Religion (p. 61)		3
PSC Elective		3
Credit Hours		15
Second Semester		
PSC 303	Democracy and Its Critics	3
or PSC 325	or Conservatism in America	
Select one of the following:		3
ECO 205	Economics of Public Policy Analysis	
ECO 335	Economics of Poverty	
HRM 301	Human Resource Management	
PSC Elective		3
DIV Diversity (p. 61)		3
Select one of the following:		3
CSC Elective		
EAC/World Language Course		
Credit Hours		15
Senior Year		
First Semester		
COR 400	Senior Studies: Transformations	3
Select one of the following:		3
PSC 331	Introduction to Public Administration	
PSC 332	Public Policy	
PSC 345	Government and Business	
Theology (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Free Elective		3
Credit Hours		15
Second Semester		
VPA Visual & Performing Arts (p. 61)		1
Intern/Service Learning		2
Free Elective		3
Free Elective		3
Free Elective		3
Credit Hours		12
Total Credit Hours		118

Political Science (B.A.) with Concentration in International Relations/Comparative Politics

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3

EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
PSC 101	American National Politics	3
PSC 105	Comparative Politics	3
PSC 201	Introduction to Political Science	3
PSC 202	Methods of Political Science	3
PSC 207	Power and Justice	3
PSC Elective		6
Internship, Service Learning or Study Abroad		2
Select five of the following:		15
PSC 261	International Politics	
PSC 303	Democracy and Its Critics	
PSC 334	Social Activism	
PSC 362	International Law	
PSC 363	U.S. Foreign Policy	
PSC 366	Globalization: the Politics of International Economic Relations	
PSC 367	War, Peace and Violence	
PSC 370	International Courts & Global Justice	
PSC 375	The New Europe: Central & Eastern Europe	
PSC 405	International Human Rights	
Major Support Requirements		
ANT Elective or ECO Elective		3
MTH 111	Introduction to Statistics I (with Computer Lab) ²	4
Select one of the following: ³		3
PHL Elective		
REL Elective		
ENG Elective		
Two HST 300 Electives ³		6
Free Electives		
Free Electives		15
Total Credit Hours		120

- ¹ Some Core requirements may be fulfilled by major requirements.
² Fulfills Core math requirement.
³ It is recommended that these are "non-U.S." courses.

Course	Title	Credit Hours
Freshman Year		
First Semester		
PSC 101	American National Politics	3
WRT 101	Critical Writing	3

HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
EAC	Encountering Another Culture/Language (p. 61)	3

Credit Hours	15
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Second Semester

PSC 207	Power and Justice	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
HST 111	World Civilization II	3
PHL 110	Introduction to Philosophy	3
EAC	Encountering Another Culture/Language (p. 61)	3

Credit Hours	16
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Sophomore Year**First Semester**

PSC 201	Introduction to Political Science	3
ENG 210	Major Authors	3
	Natural Science (p. 61)	3
	Religion (p. 61)	3
PSC 105	Comparative Politics	3

Credit Hours	15
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Second Semester

PSC 202	Methods of Political Science	3
PHL 210	Moral Philosophy	3
	ANT/ECO Elective	3
	PHL/REL/ENG Elective (Non-U.S.)	3
	Select one of the following:	3

PSC 261	International Politics
PSC 303	Democracy and Its Critics
PSC 362	International Law
PSC 363	U.S. Foreign Policy
PSC 366	Globalization: the Politics of International Economic Relations
PSC 367	War, Peace and Violence
PSC 370	International Courts & Global Justice
PSC 375	The New Europe: Central & Eastern Europe
PSC 405	International Human Rights

Credit Hours	15
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Junior Year**First Semester**

Select one of the following:		3
PSC 261	International Politics	
PSC 303	Democracy and Its Critics	
PSC 362	International Law	
PSC 363	U.S. Foreign Policy	
PSC 366	Globalization: the Politics of International Economic Relations	
PSC 367	War, Peace and Violence	
PSC 370	International Courts & Global Justice	
PSC 375	The New Europe: Central & Eastern Europe	
PSC 405	International Human Rights	
ENG 310	Literature and Culture	3
Theology (p. 61)		3

PSC Elective	3
HST 300-Level Elective	3

Credit Hours	15
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Second Semester

Select two of the following:		6
PSC 261	International Politics	
PSC 303	Democracy and Its Critics	
PSC 362	International Law	
PSC 363	U.S. Foreign Policy	
PSC 366	Globalization: the Politics of International Economic Relations	
PSC 367	War, Peace and Violence	
PSC 370	International Courts & Global Justice	
PSC 375	The New Europe: Central & Eastern Europe	
PSC 405	International Human Rights	

	History 300-Level Elective	3
	PSC Elective	3
	DIV Diversity (p. 61)	3

Credit Hours	15
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Senior Year**First Semester**

COR 400	Senior Studies: Transformations	3
Select one of the following:		3
PSC 261	International Politics	
PSC 303	Democracy and Its Critics	
PSC 362	International Law	
PSC 363	U.S. Foreign Policy	
PSC 366	Globalization: the Politics of International Economic Relations	
PSC 367	War, Peace and Violence	
PSC 370	International Courts & Global Justice	
PSC 375	The New Europe: Central & Eastern Europe	
PSC 405	International Human Rights	

	IDS Interdisciplinary Studies (p. 61)	3
	Free Elective	3
	Free Elective	3

Credit Hours	15
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Second Semester

	VPA Visual & Performing Arts (p. 61)	1
	Intern/Srv Learn/Stud Ab	2
	Free Elective	3
	Free Elective	3
	Free Elective	3

Credit Hours	12
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Total Credit Hours	118
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Political Science (B.A.) with Concentration in General Study

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
PSC 101	American National Politics	3
PSC 201	Introduction to Political Science	3
PSC 202	Methods of Political Science	3
PSC 207	Power and Justice	3
Political Science Electives		21
Internship, Service Learning or Study Abroad		2
Major Support Requirements		
Social Science (sociology, anthropology, criminal justice, psychology, economics, education)		9
HST 211	American History Survey I	3
HST 212	American History Survey II	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
Free Electives		15
Total Credit Hours		121

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfills Core math requirement.

³ Political science majors are required either to take two semesters of the same language at the introductory or intermediate level or to complete one course past the intermediate level.

Each semester some courses are identified as containing service learning experiences. Each service learning experience is worth one credit hour.

Course	Title	Credit Hours
Freshman Year		
First Semester		
PSC 101	American National Politics	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Second Semester		
PSC 207	Power and Justice	3
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		16
Sophomore Year		
First Semester		
PSC 201	Introduction to Political Science	3
ENG 210	Major Authors	3
Natural Science (p. 61)		3
Religion (p. 61)		3
PSC Elective		3
Credit Hours		15
Second Semester		
PSC 202	Methods of Political Science	3
Social Science (p. 61)		3
PHL 210	Moral Philosophy	3
PSC Elective		3
HST 211	American History Survey I	3
Credit Hours		15
Junior Year		
First Semester		
PSC Elective		3
HST 212	American History Survey II	3
Social Science (p. 61)		3
Theology (p. 61)		3
ENG 310	Literature and Culture	3
Credit Hours		15
Second Semester		
PSC Elective		3
PSC Elective		3
Free Elective		3
Free Elective		3
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		15
Senior Year		
First Semester		
COR 400	Senior Studies: Transformations	3
Social Science (p. 61)		3

PSC Elective	3
PSC Elective	3
DIV Diversity (p. 61)	3
Credit Hours	15
Second Semester	
VPA Visual & Performing Arts (p. 61)	1
Internship	2
Free Elective	3
Free Elective	3
Free Elective	3
Credit Hours	12
Total Credit Hours	118

Political Science (B.A.) with Teacher Certification

Please refer to the Department of Education (p. 448) section for details or contact the chair of the department of political science.

Double Major in Political Science and Communications

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110 & HST 111	World Civilization I and World Civilization II	6
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61) ²		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61) ³		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Political Science Major Requirements		
PSC 101	American National Politics	3
PSC 105	Comparative Politics	3
PSC 201	Introduction to Political Science	3
PSC 202	Methods of Political Science	3
PSC 207	Power and Justice	3
PSC 203	Public Opinion, Political Behavior, and Policy	3
PSC 353	Government and the Mass Media	3
PSC 480	Service Learning	1

Communications Major Requirements		
CMM 201	Fundamentals of Speech	3
CMM 205	Intro to Video Production	3
CMM 226	Introduction to Film Studies	3
CMM 250	Mass Media and Society	3
CMM 274	Reporting and Writing	3
CMM 350	Communication Ethics	3
CMM 376	Introduction to Advertising	3
	or CMM 377 Introduction to Public Relations	
ENG 218	Critical Perspectives on Literature	3
PSC 428	Politics and Literature	3
Political Science Electives		
PSC Elective		3
PSC Elective		3
PSC Elective		3
Communications Electives		
CMM Elective		3
CMM Elective		3
CMM Elective		3
Free Elective		
Free Elective		3
Total Credits		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by PSC major requirements.

³ May be fulfilled by PSC major requirements.

Double Major (B.A.) in Political Science and History

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		40
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61) ¹		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ¹		3
Social Science (p. 61) ¹		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61) ²		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61) ³		0
Major Requirements		65
HST 211	American History Survey I	3

HST 212	American History Survey II	3
HST 301	Methods of Historical Research	3
HST 302	Historical Research and Writing	3
HST Electives ⁴		21
PSC 101	American National Politics	3
PSC 201	Introduction to Political Science	3
PSC 202	Methods of Political Science	3
Internship, Service Learning OR Study Abroad		2
PSC Electives ⁵		21
Major Support Requirements		22
World Language ⁶		12
Social Science Courses (other than PSC and EDU)		6
MTH 111	Introduction to Statistics I (with Computer Lab)	4
Free Electives		0-3
Free Electives ⁷		0-3
Total Credit Hours		121-127

¹ Some Core requirements are fulfilled with major and major support requirements.

² HST/IDS (a HST elective with the IDS designation) or PSC/IDS can fulfill both HST and IDS or PSC and IDS requirements, but the IDS credits need to be fulfilled with a free elective, if the total credits are below 120.

³ HST/DIV (a HST elective with the DIV designation) or PSC/DIV can fulfill both HST and DIV or PSC and DIV requirements.

⁴ One history elective must be a History of Religion course.

⁵ PSC 490 is not allowed; up to two PSC/HST cross-listed courses may be double-counted for both the HST and PSC major requirement credits, lowering the total major credit count from 65 to 59.

⁶ Must complete the requirement with the same language.

⁷ If HST/IDS (a HST elective with the IDS designation) or PSC/IDS is taken and the total credits are below 120, a free elective may be needed.

Double Major (B.A.) in Political Science and Peace and Global Studies

Code	Title	Credit Hours
Core Requirements (p. 61)		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3

Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
Capstone Course		3
Capstone Experience ¹		3
Electives - Regional ²		9
Electives - Thematic ²		9
World Language		18
Free Electives ³		17
PGS 101	Introduction to Anthropology	3
PGS 201	Introduction to Peace & Global Studies	3
PSC 201	Introduction to Political Science	3
PSC 202	Methods of Political Science	3
PSC Electives (300 or higher)		6
Social Science (fulfilled by major requirements)		
Statistics		4
Total Credit Hours		133

¹ Normally fulfilled by study abroad experience.

² Twelve of the 18 credit hours should be courses with PGS/PSC cross listing.

³ Students are urged to fulfill the extra two credit hours through participation in service learning courses.

Double Major (B.A.) in Political Science and Theatre

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		

PSC 101	American National Politics	3
	or PSC 105 Comparative Politics	
PSC 201	Introduction to Political Science	3
PSC 202	Methods of Political Science	3
THR 203	Voice and Movement	3
	or CMM 201 Fundamentals of Speech	
THR 105	Introduction to Theatre	3
THR 110	Stagecraft	3
THR 205	Acting I	3
THR 210	Fundamentals of Design for Theatre	3
THR 260	Theatre Practicum (must take 3 credits total)	1
THR 302	The Western Drama Tradition	3
THR 440	Theatre Context	4
THR/ENG Dramatic Lit		3
Major Support Requirements		
MTH 111	Introduction to Statistics I (with Computer Lab) ²	4
World Language (fulfills core EAC Encountering Another Culture/Language requirement)		6
Internship, Service Learning or Study Abroad		2
Electives		
Theatre Arts Electives		9
Social Science Electives		9
Political Science Electives		21
Total Credit Hours		129

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfills Core math requirement.

Political Science Minor

A political science minor is recommended for students who major in another field (e.g. business, accounting, etc.) but wish to broaden their career possibilities. For a minor in political science, 15 semester hours of political science courses, including PSC 101 American National Politics, are required.

Legal Studies Minor

An Interdisciplinary minor in Legal Studies is available. For details, see Interdisciplinary Programs (p. 89).

PSYCHOLOGY

Chair: Theresa L. White

Professor: Krystine I. Batcho, Vincent W. Hevern, S.J., Brenda J. Kirby, Theresa L. White

Associate Professor: Christina Michaelson, Susan L. Scharoun, Monica R. Sylvia, Shawn L. Ward

Assistant Professor: Bridget P. Lynch, Whitney Wood

Visiting Assistant Professor: Alexandra Vizgaitis

Adjunct Faculty: Birgit Bryant, Katherine Croom, David M. Di Fabio, Kathleen A. Marjinsky, Barbara Bilinski Mettelman, Leah Stuck, Thomas Zino

Professor Emerita: Maria DiTullio

Co-Directors, Psychology Internship Program: Mark Vinciquerra, Michele Vinciquerra

Objective

The major objective of the psychology department is to familiarize students with the basic methods and theories utilized to study the thoughts, emotions, and behavior of humans and animals. Through an offering of lecture, discussion, laboratory and field experiences, the department provides students with a comprehensive overview of the various approaches employed by psychologists while enabling individuals to pursue specific interests in greater depth.

Major Programs

The department offers several programs and advising paths. The **Bachelor of Arts (B.A.)** degree is designed for students who wish to pursue a major in psychology that emphasizes general studies, or who wish to develop secondary concentrations, e.g., in one of the social sciences or in the business area. The **Bachelor of Science (B.S.)** degree is designed for students who wish to pursue a major in psychology that emphasizes the natural sciences. This program is well-suited for those who want a dual major or minor in biology, chemistry or physics, or for those who intend to go into the health professions or do graduate work in areas of psychology where a strong background in natural science is advantageous. Another program also leads to a B.S. degree and is designed for students who are seeking New York state teaching certification in child education (1-6) [**B.S. (EDU)**]. This degree program prepares students to teach in both special education and regular education settings. Another degree program is a dual major with psychology and theatre (**B.A. THR/PSY**). There is also a **Direct Entry B.S. PSY/M.S. OT** program that allows students to complete a degree in psychology, then directly go to Le Moyne's Master of Science in Occupational Therapy. In addition, both the **B.S. PSY/M.S. OT advising path** and the **B.A. PSY/M.S. OT advising path** help highly qualified Le Moyne College psychology majors who wish to pursue a career in occupational therapy become competitive applicants for the College's Master of Science Program in Occupational Therapy. Finally, there is a **3/3 B.A. PSY/LAW** advising path. This advising path will help highly qualified Le Moyne College psychology majors to pursue a law degree with the first three years of study focused on the undergraduate psychology degree and the last year dedicated to the first year of a three-year J.D. program.

Each of these is described in more detail if you click on the programs tab above.

Student Learning Outcomes in Psychology

Students who graduate from this program will be able to:

Knowledge Outcome #1

Differentiate between various theories in Psychology

Knowledge Outcome #2

Differentiate between different career paths in Psychology

Skill Development Outcome #1

Apply the research methods and techniques used by psychologists

Skill Development Outcome #2

Write using discipline-specific writing standards

Ways of Thinking/Dispositions Outcome #1

Critically evaluate information relevant to the study of Psychology

Ways of Thinking/Dispositions Outcome #2

Apply the ethical guidelines of the American Psychological Association (APA) to research

- Psychology (B.A.) (p. 298)
- Psychology (B.S.) (p. 299)
- Psychology Minor (p. 300)
- Psychology (B.S.) with Teacher Certification and Concentration in Child Education (p. 300)
- Dual Major (B.A.) in Psychology and Theatre (p. 302)
- Direct Entry Pathway for B.S. PSY to M.S. OT (p. 303)
- Advising Path for B.A. PSY/OT (p. 305)
- Advising Path for B.S. PSY/OT (p. 307)
- Advising Path for B.A. PSY/LAW (p. 308)

Psychology (PSY)

PSY 101. Introductory Psychology. 3 Credit Hours.

A one semester broad overview of contemporary psychology-its diverse approaches to the understanding of behavior and the basic principles and research findings associated with each of these approaches. Specific areas of psychological inquiry discussed include physiological, cognitive and social psychology; learning, sensation and perception; emotion and motivation; personality and psychopathology. This course is a prerequisite for most psychology courses.

PSY 201. Intro to Research Methods. 4 Credit Hours.

This course is designed to provide a working knowledge of the major research and data collection methods used in psychology. Topics will include the scientific method approach to research, ethics, and experimental design. Students will acquire proficiency in APA style writing, information and technological literacy, understanding basic statistical analyses, and the critical evaluation of evidence that includes academic and popular presentations of psychological science. Prerequisites: MTH 110 or MTH 111, PSY 101. Corequisite/Prerequisite: MTH 112.

PSY 215. Child and Adolescent Development. 3 Credit Hours.

An examination of the emergence of basic competencies (e.g., language, cognitive abilities, interpersonal skills) from birth to adolescence, and the integration of these competencies in the person of the growing child at successive life-stages. Various theoretical and experimental approaches to the study of human development are investigated. The practical implications of developmental processes will be explored in selected areas. Only one of PSY 215 or PSY 220 may be taken for major credit. Prerequisite: PSY 101 or permission of the instructor.

PSY 220. Human Life Span Development. 3 Credit Hours.

This course is a general introduction to human development. The study of human development is a scientific analysis of patterns of change and growth across the entire lifespan from conception through very old age. The course will include the investigation of essential questions of human experience including, inherited factors, attachment to caregivers, mastery of the human body and the environment, meaningful social relationships, achievement, occupational choice, impact of societal expectations, the formulation of values and goals, the concept of generativity, and death and dying. The course will analyze human development from a biopsychosocial perspective looking closely at basic patterns of normal development. Students may receive major psychology elective credit for PSY 220 only if not also receiving major psychology elective credit from PSY 215 or PSY 320. Prerequisite: PSY 101.

PSY 230. Motivation and Emotion. 3 Credit Hours.

A survey of the major theories concerned with the motivation of behavior. Individual and environmental determinants are examined. Emphasis is on the role of emotional and cognitive factors as motivational variables. Related research is presented and critically analyzed. Theories and research are applied to practical situations. Prerequisite: PSY 101 or permission of the instructor.

PSY 250. Cognition. 3 Credit Hours.

A study of contemporary issues in human behavior. Specific topics include attention, memory, concept attainment, problem solving, the interaction of language with these processes and the disorders experienced by those with deficiencies in these areas. Research on these topics and various theoretical models designed to explain human information processing are examined. Prerequisite: PSY 101 or permission of the instructor.

PSY 260. Social Psychology. 3 Credit Hours.

Introduction to the theoretical and empirical investigations of how interaction with others influences the thoughts, emotions and behavior of the individual. Topics include person perception (e.g., impression formation, liking and loving), attitude formation and change (e.g., persuasion, conformity), aggression, helping behavior and group process (e.g., leadership, group decision making). Prerequisite: PSY 101 or permission of the instructor.

PSY 270. Learning. 3 Credit Hours.

A general survey covering principles of animal and human learning, theories of learning and application of learning principles. Topics include the basic learning processes of classical and instructional conditioning, discrimination and generalization, and escape and avoidance learning, as well as more complex processes of verbal learning, retention and transfer. Applications of basic learning principles such as behavior modification, with emphasis on helping those with learning disabilities, are presented. Prerequisite: PSY 101 or permission of the instructor.

PSY 275. The Psychology of Women. 3 Credit Hours.

This course explores empirical research and theory in areas of psychology relevant to women and sex roles. Topics include sex roles and sex-role stereotyping; biological and psychosocial origins of gender; and gender differences in behavior personality and abilities. Readings and class discussions encourage application of concepts to a variety of settings, including female-male relationships, parenting, education, occupation, the media, et al. Students are expected to develop an in-depth topic of special interest for a term paper and/or class presentation. Fulfills Core diversity requirement. Prerequisite: PSY 101 or permission of the instructor.

Cross-listed Courses: GWS 275

PSY 280. Abnormal/Normal Psychology. 3 Credit Hours.

An introduction to the issues and problems associated with defining, understanding and relating to maladaptive behavior. Historical and philosophical perspectives on the subject covered briefly. The major schools of thought and systems of classifying abnormal behavior are presented and discussed. Questions related to diagnosis, treatment, and research are raised, and societal issues concerning maladaptive behavior are examined. Prerequisite: PSY 101 or permission of the department chair.

PSY 300. History and Systems Psychology. 3 Credit Hours.

This course offers an historical survey of the evolution and systematic approaches to the discipline and practice of psychology that have arisen throughout the 19th and 20th centuries. Theoretical and systematic viewpoints such as psychodynamic, Gestalt, behavioral, and cognitive psychology are examined in terms of their scientific antecedents, philosophical foundations, and sociocultural determinants. Advances in understanding the contributions of women and other previously underrepresented voices to psychology will be explored. This course seeks to understand from the disciplinary research traditions of both history and psychology the intellectual and social contexts within which the discipline of psychology has been constructed over the past century and a half. Prerequisite: PSY 101 or permission of the instructor.

PSY 301. Psychological Testing. 3 Credit Hours.

This course surveys the major psychological tests used in schools, clinics, industry, government and psychological research. This course covers how such tests are constructed, administered, interpreted and validated, and outlines current issues and controversies of the field. Topics include the history and ethics of testing; tests of achievement, interests and special abilities; personality assessment; the use of these tests in identifying exceptionality, and the controversy surrounding intelligence tests. Prerequisites: PSY 101 and MTH 111 (or an equivalent semester of Statistics I) or permission of the instructor.

PSY 302. Personality. 3 Credit Hours.

Introduction to the theoretical and empirical investigations of the development, maintenance and modification of the unique thoughts, emotions and behaviors characteristic of the individual. Topics include theoretical perspectives based primarily upon the concepts of conflict (e.g., Freud, Jung), fulfillment (e.g., Rogers, Maslow), consistency (e.g., Kelley), trait (e.g., Allport, Carrell) and learning (e.g., Skinner, Bandura) and empirical investigations of self-esteem, anxiety and defense mechanisms. Prerequisite: PSY 101 or permission of the instructor.

PSY 303. Animal Behavior. 4 Credit Hours.

The mechanisms of animal and human behavior are investigated in a broad descriptive sample. Special emphasis is placed on the physiology, development and evolution of behavior patterns. Three hours lecture and three hours laboratory per week. Carries biology major credit.

Prerequisite: Eight credit hours of biology.

Cross-listed Courses: BIO 270

PSY 309. Culture and Mental Disorder. 3 Credit Hours.

This seminar examines mental disorders from bio-medical and social constructionist perspectives; both cross-cultural variation and universals are explored in traditional cultures and modern nations, e.g., Africa, Mexico, Native Americans, Hutterites, Near East. First-person accounts are used to analyze the inner world of mental illness, and bio-cultural models of psychosis is proposed.

Cross-listed Courses: CCM 409, CCM 509

PSY 315. Childhood Disorders. 3 Credit Hours.

This general introduction to the field of childhood psycho-pathology will consider basic issues in the etiology, diagnosis and treatment of common behavioral disorders and developmental deviations. Topics included are: childhood schizophrenia and autism, phobias and psychosomatic disorders, mental retardation and specific learning disabilities, hyperactivity and antisocial behavior.

Prerequisites: PSY 101; PSY 215 or PSY 220 highly recommended.

PSY 320. Aging and Adult Development. 3 Credit Hours.

This course will examine the psychological development of young adults through late adulthood. The primary focus of this course will be on the development of intelligence, memory and dementia, personality, interpersonal relationships and sexuality in older adults. This course will challenge popular stereotypes of older adults and discuss how culture influences adult development. Students will be required to write a term paper on a topic related to psychology and adult development. Only one of PSY 320 or PSY 220 may be taken for major credit.

PSY 325. Sensation and Perception. 3 Credit Hours.

The study of the physical structures and psycho- logical processes involved in sensory systems. Topics include how people see, hear, smell, taste and touch, as well as methods for studying both the senses and the way that people make use of sensory information. Various theoretical and philosophical questions about sensation and perception are also addressed.

Prerequisite: PSY 101 or permission of instructor.

PSY 330. Cross-Cultural Psychology. 3 Credit Hours.

Cross-cultural psychology is an approach emphasizing evaluation of psychological knowledge in the context of culture. Do the discoveries psychologists have made apply to all people from all cultures or only to some people, depending on culture? This course explores the impact of society and culture on human behavior, identity and personality development, social interaction norms, and even perceptual tendencies. We will examine what it means to say that humans are socio-cultural in nature. We will also examine those areas where humans differ, due to varied cultural experiences. Areas of interest will include education and development, views on intelligence, perceptual and cognitive processes, motivation, sex and gender and aggression. The examination of these issues will aid students in developing the ability to understand and interact with individuals and groups in other countries and in our own heterogeneous nation. Fulfills Core requirement(s): Diversity (DIV); and Interdisciplinary studies (IDS) *OR* Cultural Elective (CE). Course cannot fulfill all 3 requirements.

Cross-listed Courses: PGS 330

PSY 335. Psychology and the Law. 3 Credit Hours.

The legal system is a pervasive and important part of our lives. The goal of this course is to help students develop an understanding of the psychological aspects of the functioning of the system and the effects of the legal system on us. This course will address the social psychological aspects that impact and are impacted by the legal system. Students will develop an understanding of many issues, including how psychologists contribute to the law and the legal system, psychological theories of crime, psychological issues related to the selection and performance of police officers, the dynamics of eyewitness testimony, jury selection and performance and confessions. Junior standing required.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

Cross-listed Courses: LGS 335, CJS 335

PSY 340. Brain and Behavior. 3 Credit Hours.

A study of the relationship of the brain and body to behavior. Emphasis is on the central nervous system. Topics include neuroanatomy, neural cell processes, hemispheric functions, hormonal regulation of behavior, physiological mechanisms involved in attention, arousal and sleep, and the neural bases of emotions learning and memory and psychological disorders.

Prerequisites: PSY 101 or permission of the instructor.

Cross-listed Courses: BSC 340

PSY 350. Health Psychology. 3 Credit Hours.

Health psychology is a survey course exploring the relationship between behavior and health. All topics will be covered from a bio-psychosocial perspective, illustrating the interaction among variables within an individual's environment. Topics discussed within the course include: psycho-neuroimmunology, anger/hostility and health, smoking cessation, weight control, health care systems, heart disease, cancer, AIDS, psychosomatic illness, gender and socio-cultural differences, stress, pain management and alternative treatments.

Prerequisite: PSY 101.

PSY 355. Psychology and Media in the Digital Age. 3 Credit Hours.

Contemporary life increasingly challenges us to cope with many different and quickly emerging forms of communication and information media. Since the advent of the "Digital Revolution" of the late 20th century, the penetration of these new forms of media into daily life has spawned profound questions about the relationship of human beings and the technologies represented by communications, information, and entertainment media. We will explore various psychological theories (such as phenomenological/sensory-perceptual, narrative/cultural, & social network/systems approaches) that address how and why we engage with digital media and its products. This course will put these psychological insights into dialogue with traditions of media analysis, particularly the media ecology approach of figures such as McLuhan, Ong, and others. In doing so, we will consider a wide range of issues such as media-based violence, the media's impact on personal relationships and identity, problematic Internet use, online sexuality, and others. We will raise questions regarding the ethical and psycho-developmental implications of media consumption. Students will be invited to examine their own uses of media and how these may be affecting their current lives.

Prerequisites: PSY 101 (or equivalent) or permission of the instructor.

PSY 360. Human Sexuality. 3 Credit Hours.

An examination of the behavioral, emotional and cognitive components of human sexuality. An emphasis will be placed on psychological, social, health and legal aspects of behavior that define our human sexuality. This course intends to help students clarify their attitude toward their own and others' sexuality. Areas to be investigated include sexual values, intimacy, sexual anatomy, gender identity, STDs and sexual variance.

Prerequisite: PSY 101 or permission of the instructor.

PSY 365. Growing Through Play. 3 Credit Hours.

From building blocks and jungle gyms to organized sports and video games, this course will explore the nature of play and its contributions to our physical, cognitive, social, and emotional development from infancy through adulthood. In doing so, we will consider the many different ways in which we engage in both structured and unstructured play activities, as well as how the objects and people in our environment contribute to those activities. Throughout this course, we will explore a variety of developmental theories and research and you will be asked to apply those theories and the findings from that research to your own observations of play activities and modern day play environments and tools.

Prerequisites: PSY 101 and either PSY 215 or PSY 220.

PSY 370. Organizational Psychology. 3 Credit Hours.

A study of the behaviors of people employed in work organizations and of the techniques and systems used to stimulate, coordinate and control individual behavior in the work place. Individual motivations to work, interpersonal relations, group dynamics, leadership, influence and behavior modification techniques and the changing nature of work and work organizations are covered. Not open to students who have taken MGT 450.

Prerequisites: PSY 101 or MGT 301 or permission of the instructor.

PSY 380. Counseling and Psychotherapy. 3 Credit Hours.

An introduction to techniques and theories of counseling and psychotherapy. Components, which are believed to underlie effective counseling and therapy regardless of theoretical orientation and which are applicable to a variety of interpersonal situations, are studied in some detail. The major theoretical approaches to counseling are covered, and students are introduced to research on the process and effectiveness of psychotherapy. One area in which such skills are applied-the treatment of persons with emotional problems-will be examined. This course does not attempt to train professional counselors, but to provide a framework and a basis for understanding and evaluating the counseling process from which students can, after further training and experience, become effective counselors.

Prerequisites: PSY 101 or permission of instructor.

PSY 390. Independent Study. 1-4 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the academic dean. It will be kept on file in the academic dean's office. Three hours work per week for each credit. Hours and credit to be determined by the instructor and student. Experiential course.

PSY 401. Advanced Research in Psychology. 1-3 Credit Hours.

Students carry out an independent research project on the topic of their choice with the advice and supervision of a faculty member. The course is designed to give the student an opportunity to use the skills acquired in Introduction to Research Methods (PSY-201) and to examine an area of interest through designing and conducting an original research study. Hours and credit to be determined by the instructor and student. Experiential course-does not count as PSY senior seminar.

Prerequisites: PSY 101, 201 and permission of the instructor.

PSY 402. Positive Psychology. 3 Credit Hours.

Traditionally, the modern Western model of clinical psychology has focused on researching, diagnosing, and treating psychological disorders. Theoretically, clinical psychology is based on a deficit or disease model, describing how individuals are lacking psychological resources or evidencing abnormal thinking or behavior. Positive psychology provides a paradigm shift from this disease model, moving beyond just helping people survive their negative life experiences to offering them an enlarged vision of how they can thrive and actualize their potential. This course focuses on the research, techniques, and practical applications of positive psychology including the topics of well-being, character strengths, optimism, resiliency, values, happiness, wellness, accomplishments, and positive relationships. Senior standing required.

Prerequisite: PSY 101 and PSY 201 or permission of the chair.

PSY 404. Psychology of Decision Making. 3 Credit Hours.

Following a seminar format, this course explores theoretical approaches to the process of decision making and relates theory and data to applied situations. The course addresses issues relevant to decisions made on both an individual and a group level. Discussions cover a range of settings including business, medicine and matters of personal relevance. A variety of factors is considered, including cognitive, perceptual and subjective value judgments. Senior standing required.

Prerequisite: PSY 101 and PSY 201 or permission of the chair.

PSY 442. Infancy. 3 Credit Hours.

A comprehensive overview of growth and development during the first three years of life. Topics covered will include how infants gather information from the world around them, what we know about infants' relationships with other people, and about the uniqueness of their personalities. A concerted effort will be made to achieve a balance between theory, research and practical information.
Prerequisite: PSY 215 or 220 and PSY 201 or permission of the instructor.

PSY 444. Story in Psy:Narrative Perspectives. 3 Credit Hours.

Employing a pro-seminar format, we explore how stories and story construction serve as an increasingly influential and integrating paradigm by which to understand human behavior. We will look at the historical and conceptual foundations of the narrative perspective and compare this approach with more traditional models of human psychological functioning. We will pay particular attention to autobiographical memory, self-narrative, and identity development of the contemporary world as well as narrative approaches to psychotherapy & health care as examples of the perspective's scope. We will consider recent advances in narrative research methodologies, particularly those qualitative approaches which focus upon interview and other autobiographical sources of data. Students will be expected to prepare an individual presentation on a topic of their choosing and personal interest. Senior standing required.
Prerequisites: PSY 101 and PSY 201 or permission of the chair.

PSY 445. The Psychology of Grief. 3 Credit Hours.

Psychology 445 will examine grief processes that take place within individuals and families as they experience loss. The course will focus on the nature and causes of grief as well as strategies for effective counseling interventions. There will be an emphasis on loss due to death, however, other types of psychosocial and physical losses will also be considered. Accordingly, we will explore a variety of factors that facilitate and/or impede the ability to function after loss. The course will initially trace the development of dominant models of grief and their historical and theoretical underpinnings. Considerable emphasis will be on examining the grief process as it is played out in the context of family. The family is seen as an interactive system, with a complex mix of actions, perceptions and expectations that influences relationships and the experience of grief among family members. This course will also consider a postmodern view of bereavement as a complex phenomenon embedded in a unique context involving social, cultural, philosophical and psychological factors. Senior standing required.
Prerequisite: PSY 101 and PSY 201 or permission of the chair.

Cross-listed Courses: NSG 545

PSY 447. Psych of Stereotypes/Prejudice/Discrim. 3 Credit Hours.

This course is designed to enhance the understanding of the development and persistence of stereotypes. The psychology of social cognition with regard to the accuracy and inaccuracy of those stereotypes will be addressed as well as how the inaccuracies may lead to prejudice and discrimination. We will explore how this affects our social interactions; specifically addressing the areas of race, class and gender. Students will read book chapters and journal articles and are expected to contribute to classroom discussions of these materials. Students will also complete a writing project. Senior standing required.
Prerequisites: PSY 101 and PSY 201 or permission of the chair.

Cross-listed Courses: GWS 447

PSY 448. Clinical Neuropsychology. 3 Credit Hours.

Clinical neuropsychology studies human behavior following damage to or dysfunction of the nervous system. Such study seeks to establish both (a) the accurate assessment and remediation of damage or dysfunction and (b) a more complete understanding of the intact nervous system. Utilizing a proseminar format, this course is designed to introduce the advanced undergraduate student of psychology to the research findings and clinical applications of this developing subfield within psychology. Both case studies and laboratory-based research will be reviewed. Topics will include general principles of the brain-behavior relationship, basic and higher cognitive functions of the cerebral cortex, neuropsychological testing and assessment and processes of rehabilitation. Senior standing required.
Prerequisites: PSY 101, PSY 201 and PSY 340 (or equivalent) or permission of the chair.

PSY 449. The Psychology of Disabilities. 3 Credit Hours.

This course explores in-depth some of the major psychological issues relevant to the field of disabilities. Following a seminar format, topics to be discussed include: autism, cerebral palsy, mental retardation, deafness, blindness, dual diagnosis, housing alternatives, self advocacy, sibling relationships, the social meaning of disabled, deinstitutionalization and human relationships. The perspective of the person with a disability and/or their family and support systems will be considered. Senior standing required.
Prerequisites: PSY 101 and PSY 201, PSY 315 recommended, or permission of the chair.

PSY 471. Projects in Psychology. 1-3 Credit Hours.

Under faculty supervision, students who are especially interested and qualified may assist faculty members in research. Requirements to be determined by the student and faculty member. Hours and credit to be determined by the instructor and student. Experiential course-does not count as PSY senior seminar.
Prerequisite: permission of the instructor.

PSY 490. Internship in Psychology I. 3 Credit Hours.

This course offers students an opportunity to synthesize and integrate their academic knowledge within a field setting in psychology. Students are placed in a mental health or other human service agency in which psychologists work or psychological concepts and principles significantly inform the goals and practices of the organization. Each student receives close supervision within the agency setting. Students also meet weekly in a group with the course instructor to discuss issues and problems related to their experience. Offered on a high pass/pass/fail basis only. Eight hours internship experience and one hour classwork per week for two semesters. Only open to junior and senior psychology majors with permission of the instructor or department chair. Must be followed by PSY 491. Experiential course.

PSY 491. Internship in Psychology II. 3 Credit Hours.

This course offers students an opportunity to synthesize and integrate their academic knowledge within a field setting in psychology. Students are placed in a mental health or other human service agency in which psychologists work or psychological concepts and principles significantly inform the goals and practices of the organization. Each student receives close supervision within the agency setting. Students also meet weekly in a group with the course instructor to discuss issues and problems related to their experience. Offered on a high pass/pass/fail basis only. Eight hours internship experience and one hour classwork per week for two semesters. Only open to junior and senior psychology majors with permission of the instructor or department chair. Experiential course. Prerequisite: PSY 490.

PSY 499. Departmental Honors in Psychology. 1-8 Credit Hours.

An upper-class student who wishes to complete a research thesis for Departmental Honors must submit a proposal prior to registration and a research report at the end of the semester. The proposal must be approved by the research director, the department chair and the academic dean. It will be kept on file, along with the research report, in the chair's office and the library. Experiential course. Prerequisite: PSY 401.

Psychology Major (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
PSY 101	Introductory Psychology	3
PSY 201	Intro to Research Methods	4
PSY 340	Brain and Behavior	3
Senior Seminar - Select one of the following: ⁵		3
PSY 402-449		
PSY 499	Departmental Honors in Psychology	
Psychology Electives ²		18
Major Support Requirements		
MTH 110	Introduction to Statistics I (no Computer Lab)	3

or MTH 111 Introduction to Statistics I (with Computer Lab)		
MTH 112	Introduction to Statistics II	3
Natural Science Elective		3
Social Science ³		9
Free Electives ⁴		20-29
Total Credit Hours		120
¹ Some CORE requirements will (SOCIAL SCIENCE, MTH, NATURAL SCIENCE) and others may (IDS, DIV) be fulfilled by the B.A. Major and Major Support courses.		
² At least 12 of these credits must be classroom rather than experiential courses. (See course descriptions to determine which courses are considered experiential.) At least half of the major requirements must be taken at Le Moyne College. To graduate, a student must achieve a 2.0 GPA or higher and have at least 120 total credits. Note: Students may take either PSY 215 and/or PSY 320 OR PSY 220 for major credit - and may not take PSY 220 for major credit with either other course.		
³ Sociology, anthropology, criminology, political science, economics, education; courses must be taken in at least two disciplines.		
⁴ 120 credits required to graduate		
⁵ At least one must be chosen from the following group: PSY 402-449 or PSY 499.		

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
PSY 101	Introductory Psychology	3
EAC Encountering Another Culture/Language (p. 61)		3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
EAC Encountering Another Culture/Language (p. 61)		3
PSY 201	Intro to Research Methods	4
MTH 112	Introduction to Statistics II	3
Social Science (p. 61)		3
Credit Hours		16
Sophomore Year		
First Semester		
HST 110	World Civilization I	3
ENG 210	Major Authors	3
Theology (p. 61)		3
PSY Elective		3
Natural Science (p. 61)		3
Credit Hours		15
Second Semester		
HST 111	World Civilization II	3
PHL 210	Moral Philosophy	3
Social Science (p. 61)		3

PSY Elective	3
Free Elective	3
Credit Hours	15
Junior Year	
First Semester	
ENG 310 Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)	3
PSY Elective	3
PSY 490 Internship in Psychology I ¹	3
Free Elective	3
Credit Hours	15
Second Semester	
PSY 340 Brain and Behavior	3
Social Science (p. 61)	3
PSY Elective	3
PSY 491 Internship in Psychology II ¹	3
Free Elective	3
Credit Hours	15
Senior Year	
First Semester	
Religion (p. 61)	3
PSY Senior Seminar	3
Free Elective - VPA	3
Free Elective - DIV	3
Free Elective	3
Credit Hours	15
Second Semester	
COR 400 Senior Studies: Transformations	3
PSY Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Credit Hours	15
Total Credit Hours	121

¹ Must complete both semesters and must apply in the previous spring to register. Could also complete these in the FOURTH YEAR.

Must complete Core DIV and VPA requirement.

Psychology Major (B.S.)

Code	Title	Credit Hours
Core Curriculum (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6

ENG 310 Literature and Culture	3
Mathematics (p. 61)	3
Social Science (p. 61)	3
Natural Science (p. 61)	3
IDS Interdisciplinary Studies (p. 61)	3
Religion (p. 61)	3
COR 400 Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)	1
DIV Diversity (p. 61)	0
Major Requirements	
PSY 101 Introductory Psychology	3
PSY 201 Intro to Research Methods	4
PSY 340 Brain and Behavior	3
Senior Seminar - Select one of the following: ⁵	3
PSY 402-449	
PSY 499 Departmental Honors in Psychology	
Psychology Electives ²	18
Major Support Requirements	
MTH 110 Introduction to Statistics I (no Computer Lab)	3
or MTH 111 Introduction to Statistics I (with Computer Lab)	
MTH 112 Introduction to Statistics II	3
Natural Science Electives ³	15
Free Electives ⁴	17-26
Total Credit Hours	120

¹ Some CORE requirements will (SOCIAL SCIENCE, MTH, NATURAL SCIENCE) and others may (IDS, DIV) be fulfilled by the B.S. Major and Major Support courses.

² At least 12 of these credits must be classroom rather than experiential courses. (See course descriptions to determine which courses are considered experiential.) At least half of the major requirements must be taken at Le Moyne College. To graduate, a student must achieve a 2.0 GPA or higher and have at least 120 total credits.

Note: Students may take either PSY 215 and/or PSY 320 OR PSY 220 for major credit - and may not take PSY 220 for major credit with either other course.

³ Natural science electives may be selected from any courses offered by the biology, chemistry and physics departments. Science electives may be taken in only one discipline (e.g., they may all be in biology) or they may be taken in two or more disciplines (e.g., one in biology, one in chemistry and one in physics). Three credits of this requirement may be fulfilled with a MTH, CSC, or MIS course. The needs of each student will determine the exact distribution of electives in the natural sciences.

⁴ 120 credits required to graduate

⁵ At least one must be chosen from the following group: PSY 402-449 or PSY 499.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3

EAC Encountering Another Culture/Language (p. 61)	3
PSY 101 Introductory Psychology	3
MTH 110 Introduction to Statistics I (no Computer Lab)	3

Credit Hours	15
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Second Semester

PHL 110 Introduction to Philosophy	3
EAC Encountering Another Culture/Language (p. 61)	3
PSY 201 Intro to Research Methods	4
MTH 112 Introduction to Statistics II	3
Natural Science/Math/Computer Sci Elective	3

Credit Hours	16
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Sophomore Year**First Semester**

HST 110 World Civilization I	3
ENG 210 Major Authors	3
Theology (p. 61)	3
PSY Elective	3
Natural Science (p. 61)	3

Credit Hours	15
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Second Semester

HST 111 World Civilization II	3
Natural Science (p. 61)	3
PHL 210 Moral Philosophy	3
Free Elective	3
PSY Elective	3

Credit Hours	15
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Junior Year**First Semester**

ENG 310 Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)	3
PSY 490 Internship in Psychology I	3
PSY 340 Brain and Behavior	3
Natural Science (p. 61)	3

Credit Hours	15
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Second Semester

Natural Science (p. 61)	3
PSY 491 Internship in Psychology II ¹	3
Free Elective	6
PSY Elective	3

Credit Hours	15
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Senior Year**First Semester**

Religion (p. 61)	3
PSY Senior Seminar	3
Free Elective - VPA	3
Free Elective	3
Free Elective	3

Credit Hours	15
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Second Semester

COR 400 Senior Studies: Transformations	3
PSY Elective	3

Free Elective	9
Credit Hours	15
Total Credit Hours	121

¹ Must complete both semesters and must apply in the previous spring to register. Could also complete these in the FOURTH YEAR.

² Could be an additional three credits of any natural science course or MIS.

Must complete Core DIV and VPA requirements.

Psychology Minor

A minor in psychology requires 15 credit hours of psychology courses. These courses begin with PSY 101 Introductory Psychology. Selection of the additional particular courses is based upon each student's needs and interests and is made with the approval of the department chair. At least half of the required credits must be taken at Le Moyne College. Students who seek a minor psychology should contact the department chair as early in their career at Le Moyne as possible.

Code	Title	Credit Hours
Minor Requirements		
PSY 101	Introductory Psychology	3
	Psychology Electives (At least 3 credits at 300-level or higher)	12
Total Credit Hours		15

Psychology (B.S.) with Teacher Certification and Concentration in Childhood and Special Education (Grades 1-6)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
	Theology (p. 61)	3
	EAC Encountering Another Culture/Language (p. 61)	6
ENG 310	Literature and Culture	3
	Mathematics (p. 61)	3
	Social Science (p. 61)	3
	Natural Science (p. 61)	3
	IDS Interdisciplinary Studies (p. 61)	3
	Religion (p. 61)	3
COR 400	Senior Studies: Transformations	3
	VPA Visual & Performing Arts (p. 61)	1
	DIV Diversity (p. 61)	0

Major Requirements

BSC 340	Brain and Behavior	3
PSY 101	Introductory Psychology	3
PSY 201	Intro to Research Methods	4
PSY 215	Child and Adolescent Development ⁵	3
PSY 250	Cognition ²	3
	or PSY 270 Learning	
PSY 301	Psychological Testing	3
PSY 315	Childhood Disorders	3
Senior Seminar - Select one of the following: ⁶		3

PSY 402 - 449

PSY 499 Departmental Honors in Psychology

Psychology Electives ^{2, 5}		6
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Major Support Requirements

MTH 110	Introduction to Statistics I (no Computer Lab)	3
	or MTH 111 Introduction to Statistics I (with Computer Lab)	

MTH 112	Introduction to Statistics II	3
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Education Requirements:

EDU 200	Teaching in a Diverse Society	3
EDU 205	Childhood Learning and Special Needs	3
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
EDU 305	Prin & Methods of Multicultural Literacy	3
EDU 315	Plan, Assessing, Managing Inclusive Clsrm ³	3
EDU 365	Adapting Literacy Lrn Stu W/Spec Needs ³	3
EDU 375	Strategies for Teaching Content in Inclusive Classrooms (1-6)	3
EDU 376	Managing Environ for Stu W/ Disabilities	3
EDU 405	Preservice Clinical Teaching Seminar ⁴	3
EDU 430	Supervised Preservice Teaching (grades 1-6) ⁴	6
EDU 431	Supervised Preservice Teaching (spe 1-6) ⁴	6

Total Credit Hours		121
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¹ Some CORE requirements will (SOCIAL SCIENCE, MTH, NATURAL SCIENCE) and others may (IDS, DIV) be fulfilled by the B.A. Major and Major Support courses. ENG 210 may be any author. Please note that some sections of **ENG 310** will also fulfill a CORE VPA requirement and should be selected if possible.

² Although students may take either PSY 250 Cognition or PSY 270 Learning, both are strongly encouraged. **PSY 330 is also strongly encouraged as a PSY elective, because of its designation as a IDS and DIV CORE course.**

³ Must have junior status to take

⁴ Student teaching semester is in the spring of senior year. No other coursework may be taken during the student teaching semester. Students must have a 3.0 average in education courses and a 3.0 overall GPA to student teach. Additional NYS Teacher Certification requirements see the Chair of the Education department.

⁵ At least half of the major requirements must be taken at Le Moyne College. To graduate, a student must achieve a 2.0 GPA or higher and have at least 120 total credits.

Note: Students may take either PSY 215 and/or PSY 320 OR PSY 220 for major credit - and may not take PSY 220 for major credit with either other course.

⁶ At least one must be chosen from the following group: PSY 402-449 or PSY 499.

Course	Title	Credit Hours
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Freshman Year**First Semester**

WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
EAC Encountering Another Culture/Language (p. 61) ¹		3
PSY 101	Introductory Psychology	3
MTH 110	Introduction to Statistics I (no Computer Lab)	3

Credit Hours	15
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Second Semester

PHL 110	Introduction to Philosophy	3
EAC Encountering Another Culture/Language (p. 61) ¹		3
PSY 201	Intro to Research Methods	4
MTH 112	Introduction to Statistics II	3
PSY Elective		3

Credit Hours	16
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Sophomore Year**First Semester**

HST 110	World Civilization I	3
Theology (p. 61)		3
PSY 215	Child and Adolescent Development	3
EDU 200	Teaching in a Diverse Society	3
ENG 210	Major Authors	3

Credit Hours	15
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Second Semester

HST 111	World Civilization II	3
PSY 250	Cognition	3
or PSY 270	or Learning	
EDU 205	Childhood Learning and Special Needs	3
EDU 315	Plan, Assessing, Managing Inclusive Clsrm	3
PHL 210	Moral Philosophy	3

Credit Hours	15
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Junior Year**First Semester**

PSY 301	Psychological Testing	3
ENG 310	Literature and Culture	3
Natural Science (p. 61)		3
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3

Credit Hours	15
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Second Semester

PSY 315	Childhood Disorders	3
BSC 340	Brain and Behavior	3
EDU 305	Prin & Methods of Multicultural Literacy	3
PSY 330	Cross-Cultural Psychology	3
Religion (p. 61)		3

Credit Hours	15
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Senior Year**First Semester**

COR 400	Senior Studies: Transformations	3
PSY Senior Seminar		3
EDU 375	Strategies for Teaching Content in Inclusive Classrooms (1-6)	3
EDU 365	Adapting Literacy Lrn Stu W/Spec Needs	3
EDU 376	Managing Environ for Stu W/ Disabilities	3

Credit Hours	15
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Second Semester

EDU 405	Preservice Clinical Teaching Seminar	3
EDU 430	Supervised Preservice Teaching (grades 1-6)	6
EDU 431	Supervised Preservice Teaching (spe 1-6)	6

Credit Hours	15
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Total Credit Hours	121
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¹ EAC must be 6 credits (2 courses) all from the same world language.

Must complete Core DIV and VPA requirement

Dual Major (B.A.) in Psychology and Theatre

The psychology department has partnered with the theatre arts program to offer students the option of a dual major in psychology and theatre. Students interested in pursuing a double major should contact the director of theater arts or chair of psychology for more information.

Code	Title	Credit Hours
Core Requirements (p. 61) ^{1,2}		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3

COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0

Major Requirements

PSY 101	Introductory Psychology	3
PSY 201	Intro to Research Methods	4
PSY 340	Brain and Behavior	3
Senior Seminar - Select one of the following: ⁴		3

PSY 402 - 449

PSY 499	Departmental Honors in Psychology	
Psychology Electives (PSY 215 and PSY 280 recommended) ³		18

THR 105	Introduction to Theatre	3
THR 110	Stagecraft	3
THR 205	Acting I	3
THR 210	Fundamentals of Design for Theatre	3
THR 302	The Western Drama Tradition	3
THR 410	Career Development in the Theatre	1
THR 440	Theatre Context	4
THR/ENG Dramatic Literature		3
THR Elective (These must include one design class and one performance class)		9
THR 335	Devised Theatre	3
or THR 340 Directing		

THR 260	Theatre Practicum (Production experience credit, value to be assigned by department: 1/2 to 2 credits. Within 4 years, this must total 3 credits.)	2
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Major Support Requirements

World Language (fulfills core EAC requirement)		3
MTH 110	Introduction to Statistics I (no Computer Lab) (Fulfills core math requirement)	3
or MTH 111	Introduction to Statistics I (with Computer Lab)	
MTH 112	Introduction to Statistics II	3
Free Elective		3
Total Credit Hours		124

¹ Some CORE requirements will (SOCIAL SCIENCE, MTH) and others may (NATURAL SCIENCE, IDS, DIV) be fulfilled by the B.A. Major and Major Support courses.

² Notes on CORE: ENG 210 Major Authors must be Shakespeare, EAC must be 6 credits of the same world language, Mathematics fulfilled by MTH 110 Introduction to Statistics I (no Computer Lab), Social Science (other than PSY), Natural Science (fulfilled by BSC 340 Brain and Behavior), Visual and Performing Arts (fulfilled by major)

³ At least 12 of these credits must be classroom rather than experiential courses. (See course descriptions to determine which courses are considered experiential.) At least half of the major requirements must be taken at Le Moyne College. To graduate, a student must achieve a 2.0 GPA or higher and have at least 120 total credits.

Note: Students may take either PSY 215 and/or PSY 320 OR PSY 220 for major credit - and may not take PSY 220 for major credit with either other course.

⁴ At least one must be chosen from the following group: PSY 402-449 or PSY 499.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
PSY 101	Introductory Psychology	3
THR 105	Introduction to Theatre	3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
Credit Hours		15
Second Semester		
PSY 201	Intro to Research Methods	4
MTH 112	Introduction to Statistics II	3
PHL 110	Introduction to Philosophy	3
Social Science (p. 61)		3
THR 110	Stagecraft	3
Credit Hours		16
Sophomore Year		
First Semester		
THR 205	Acting I	3
HST 110	World Civilization I	3
Theology (p. 61)		3
ENG 210	Major Authors ¹	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Second Semester		
HST 111	World Civilization II	3
Free Elective		3
PSY Elective		3
THR 210	Fundamentals of Design for Theatre	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Junior Year		
First Semester		
THR 302	The Western Drama Tradition	3
PSY Electives		6
PHL 210	Moral Philosophy	3
IDS Interdisciplinary Studies (p. 61)		3
THR 410	Career Development in the Theatre	1
Credit Hours		16
Second Semester		
THR Playmaking Elective ²		3
PSY 340	Brain and Behavior	3
THR Design Elective		3
PSY Elective		3
ENG 310	Literature and Culture	3
Credit Hours		15

Senior Year

First Semester

THR 440	Theatre Context	4
THR Performance Elective		3
PSY Elective		3
Religion (p. 61)		3
THR 260	Theatre Practicum	1-3
Credit Hours		14-16

Second Semester

COR 400	Senior Studies: Transformations	3
PSY 400-level Senior Seminar ³		3
PSY Elective		3
THR 260	Theatre Practicum	1-3
THR Elective		3
THR Dramatic Literature Elective		3
Credit Hours		16-18
Total Credit Hours		122-126

¹ Must be Shakespeare.

² The Playmaking elective requires the student to select one of the following: THR 240 Applied Theatre, THR 335 Devising, THR 340 Directing.

³ One must be chosen from the following group: PSY 401-449 or PSY 499(SEM 400).

Direct Entry Master of Science in Occupational Therapy (OT) Admission Pathway: B.S. in Psychology

A Direct Entry opportunity to the Occupational Therapy (OT) Pathway at Le Moyne College was developed to offer early acceptance to exceptional high school students wishing to accelerate their academic and career paths to become licensed occupational therapists. Accepted students will complete a bachelor's degree in psychology and then directly enter the Master of Science Program in Occupational Therapy at Le Moyne College. Students accepted into this pathway will be invited to participate in activities with current OT students and faculty.

Application for the direct entry pathway is made during the senior year of high school and is available only to first-year students. The program is competitive and space is limited.

Eligibility Requirements for Admission into the Direct Entry Pathway

1. Minimum High School Cumulative Average = 92
2. Minimum Test Scores = SAT 1100 (Critical Reading and Math only) or ACT 21
3. Required High School Courses: Applicants must graduate from an accredited high school and must complete a minimum of 16 academic units in the following distribution:
 - English - 4
 - Foreign Language - 3
 - Mathematics - 3-4
 - Natural Science - 3-4
 - Social Studies - 3-4

Applying to the Direct Entry Pathway

The application and all required documents must be received by the Le Moyne College Office of Admission by January 15.

A completed application includes:

1. **A freshman application**
2. Official high school transcript
3. Recommendations: Applicants are required to submit one letter of recommendation from a guidance or college counselor; or two letters of recommendation from clergy, coaches, employers, teachers, etc.; and one recommendation from a supervisor who can attest to the applicant's demonstrated commitment to the occupational therapy field.
4. Official SAT or ACT score report or official TOEFL or IELTS score report required of non-native English speakers
5. Personal statement
6. Documentation of Observation Hours
7. Required interview by invitation only; invitations will be extended by February 1.

After beginning study as a first-year student in the Direct Entry OT Pathway at Le Moyne College, accepted students have a binding agreement with the institution and may not apply to other OT programs.

Continuation in the Direct Entry Pathway

In order to remain in good standing and continue the program, a participant must meet or exceed the following:

- **Overall GPA** – Must attain or exceed an overall GPA of 3.0. Two successive semesters below 3.0 or a cumulative GPA below 3.0 will constitute grounds for dismissal from the program. However, participants may be allowed to continue in their undergraduate major provided they remain in good academic standing at Le Moyne College; these students would then have the opportunity to apply to the Master of Science program in Occupational Therapy with other students who were not in the direct entry group.
- **Continuous Enrollment** – Students must maintain full-time enrollment status during the entire pathway.
- **Academic Prerequisites** - Participants must complete all requirements for a baccalaureate degree in psychology from Le Moyne College by the end of the spring semester of the fourth year of enrollment. Students must also complete the prerequisite courses for the master's program in that same timeframe and attain at least a 3.0 GPA in those courses with no grade lower than a B.

Academic Prerequisites for the Master of Science Program in Occupational Therapy

Code	Title	Credit Hours
	Anatomy & Physiology I with lab (BSC 201 at Le Moyne)	4
	Anatomy & Physiology II with lab (BSC 202 at Le Moyne)	4
	Neuroscience OR Brain and Behavior ¹	3
	Cultural Idea and/or Civilizations (i.e., World Literature, World Religions, History, American Studies, Women's Studies, Sociology, Anthropology)	3
	Lifespan OR Human Development	3
	Abnormal Psychology	3

Statistics	3
Medical Terminology ²	1
English Composition or Technical Writing	3
Humanities (i.e., Ethics, Philosophy, Theology)	3

¹ Psychology Majors must take PSY 340 to satisfy this requirement.

² This course is offered online as OTM 201: Introduction to Medical Terminology in J-mester and May-mester.

- **Clinical Observation Experience** - Participants must also complete an additional 30 hours of clinical observation hours or work experience under the supervision of a licensed occupational therapist in multiple settings with multiple clients and submit as part of the OTCAS (Occupational Therapy Centralized Application Service) application.
- **OTCAS Application** – Participants will need to file the OTCAS application in their fourth year of study by the February 15 deadline and will be responsible for the application fee.
- **Moral and Ethical Fitness** - During all phases of the program, a student must remain in good moral and ethical standing appropriate to the pursuit of a career as an occupational therapist and eventual professional licensure. Failure to do so will result in dismissal from the program.

Code	Title	Credit Hours
Core Curriculum (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
	Theology (p. 61)	3
	EAC Encountering Another Culture/Language (p. 61)	6
ENG 310	Literature and Culture	3
	Mathematics (p. 61)	3
	Social Science (p. 61)	3
	Natural Science (p. 61)	3
	IDS Interdisciplinary Studies (p. 61)	3
	Religion (p. 61)	3
COR 400	Senior Studies: Transformations	3
	VPA Visual & Performing Arts (p. 61)	1
	DIV Diversity (p. 61)	0
Major Requirements ²		
PSY 101	Introductory Psychology	3
PSY 201	Intro to Research Methods	4
PSY 220	Human Life Span Development ³	3
PSY 280	Abnormal/Normal Psychology	3
PSY 330	Cross-Cultural Psychology	3
PSY 340	Brain and Behavior	3
PSY SEM 400 ⁴		3
PSY Electives ⁵		9

Major Support Requirements

MTH 110	Introduction to Statistics I (no Computer Lab)	3
MTH 112	Introduction to Statistics II	3
BSC 201	Human Anatomy & Physiology I	4
BSC 202	Human Anatomy & Physiology II	4
Electives		
Natural Science Elective (BIO,BSC,CHM, or PHY)		4
Science Electives (BIO,BSC,CHM,PSY,MTH,CSC, or MIS)		3
Free Electives (18 credits or more until total credits are at least 120 required to graduate) ⁶		18
OTM 201	Introduction to Medical Terminology	1

¹ Some Core requirements may or will be fulfilled by the B.S. major and major support courses.

² At least 12 credits of psychology electives must be classroom rather than experiential courses. At least one must be chosen from the following group: PSY 401-449 or PSY 499(SEM 400). At least half of the major requirements must be taken at Le Moyne College. To graduate with a B.S., a student must achieve a 2.0 GPA or higher and have at least 120 total credits. Acceptance into the OT program requires a minimum of 3.0 GPA along with additional application requirements.

³ PSY 220 may be replaced with PSY 215 and PSY 320.

⁴ Select one of the following: PSY 402-449; PSY 499 Departmental Honors in Psychology. PSY 448 Clinical Neuropsychology is recommended to fulfill the PSY SEM 400 requirement.

⁵ PSY 250 Cognition is recommended.

⁶ This must include a Medical Terminology course for at least 1 credit.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
PSY 101	Introductory Psychology	3
EAC Encountering Another Culture/Language (p. 61)		3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
Natural Science (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
PSY 201	Intro to Research Methods	4
MTH 112	Introduction to Statistics II	3
Credit Hours		16
Sophomore Year		
First Semester		
HST 110	World Civilization I	3
ENG 210	Major Authors	3
Theology (p. 61)		3
PSY 220	Human Life Span Development	3
BSC 201	Human Anatomy & Physiology I	4

BSC-201L: Human Anatomy & Physiology I Lab	0
Credit Hours	16

Second Semester

HST 111	World Civilization II	3
PHL 210	Moral Philosophy	3
BSC 202	Human Anatomy & Physiology II	4
BSC-202L: Human Anatomy & Physiology II Lab		0
PSY 280	Abnormal/Normal Psychology	3
Free Elective		3
Credit Hours		16

Junior Year

First Semester

ENG 310	Literature and Culture	3
PSY 330	Cross-Cultural Psychology	3
PSY Elective		3
PSY 340	Brain and Behavior	3
Natural Science (p. 61)		4
Credit Hours		16

Second Semester

Free Electives		9
PSY Electives		6
Credit Hours		15

Senior Year

First Semester

Religion (p. 61)		3
PSY 400-level Senior Seminar		3
VPA Visual & Performing Arts (p. 61)		3
Free Elective		3
OTM 201	Introduction to Medical Terminology	1
Credit Hours		13

Second Semester

COR-400: Senior Studies: Transformations		3
PSY Elective		3
Free Electives		6
Free Elective (DIV)		3
Credit Hours		15
Total Credit Hours		122

Advising Path for B.A. PSY/OT Bachelor of Arts in Psychology in preparation to apply to Occupational Therapy Graduate School

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3

ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61) ³		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations ⁵	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements¹		
PSY 101	Introductory Psychology	3
PSY 201	Intro to Research Methods	4
PSY 220	Human Life Span Development	3
PSY 280	Abnormal/Normal Psychology	3
PSY 340	Brain and Behavior	3
Senior Seminar - Select one of the following: ⁵		3
PSY 402-449 or PSY 499		
Psychology Electives ²		12
Major Support Requirements		
MTH 110	Introduction to Statistics I (no Computer Lab)	3
	or MTH 111 Introduction to Statistics I (with Computer Lab)	
MTH 112	Introduction to Statistics II	3
BSC 201	Human Anatomy & Physiology I	4
BSC 202	Human Anatomy & Physiology II	4
Medical Terminology		1
Social Science ³		9
Free Electives ⁴		17
Total Credit Hours		121

¹ Some CORE requirements will (SOCIAL SCIENCE, MTH, NATURAL SCIENCE) and others may (IDS, DIV) be fulfilled by the B.A. Major and Major Support courses.

² At least 12 of these credits must be classroom rather than experiential courses. (See course descriptions to determine which courses are considered experiential.) At least half of the major requirements must be taken at Le Moyne College. To graduate, a student must achieve a 2.0 GPA or higher and have at least 120 total credits.

Note: Students may take either PSY 215 and/or PSY 320 OR PSY 220 for major credit - and may not take PSY 220 for major credit with either other course.

³ Sociology, anthropology, criminology, political science, economics, education; courses must be taken in at least two disciplines.

⁴ 120 credits required to graduate.

⁵ At least one must be chosen from the following group: PSY 402-449 or PSY 499.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
EAC Encountering Another Culture/Language (p. 61)		3
PSY 101	Introductory Psychology	3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
Social Science (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
PSY 101	Introductory Psychology	3
MTH 112	Introduction to Statistics II	3
Credit Hours		15
Sophomore Year		
First Semester		
HST 110	World Civilization I	3
ENG 210	Major Authors	3
Theology (p. 61)		3
PSY 220	Human Life Span Development	3
BSC 201	Human Anatomy & Physiology I	4
Credit Hours		16
Second Semester		
HST 111	World Civilization II	3
BSC 202	Human Anatomy & Physiology II	4
PHL 210	Moral Philosophy	3
PSY 280	Abnormal/Normal Psychology	3
Free Elective		3
Credit Hours		16
Junior Year		
First Semester		
ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
PSY Elective		3
Social Science Elective		3
PSY 340	Brain and Behavior	3
Credit Hours		15
Second Semester		
Social Science Elective		3
Free Electives		6
PSY Elective		6
Credit Hours		15
Senior Year		
First Semester		
Religion (p. 61)		3
PSY Senior Seminar		3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		3

OTM 201	Introduction to Medical Terminology	1
Free Elective		3
Credit Hours		14
Second Semester		
COR 400	Senior Studies: Transformations	3
PSY-XX3: 3cr PSY Elective		3
ELE-XX9: 9cr Free Elective		9
Credit Hours		15
Total Credit Hours		121

Advising Path for B.S. PSY/OT

Bachelor of Science in Psychology in preparation to apply to Occupational Therapy Graduate School

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 210	Major Authors	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements ²		
PSY 101	Introductory Psychology	3
PSY 201	Intro to Research Methods	4
PSY 220	Human Life Span Development ³	3
PSY 280	Abnormal/Normal Psychology	3
PSY 330	Cross-Cultural Psychology	3
PSY 340	Brain and Behavior	3
PSY SEM 400 ⁴		3
PSY Electives ⁵		9
Major Support Requirements		
MTH 110	Introduction to Statistics I (no Computer Lab)	3
MTH 112	Introduction to Statistics II	3
BSC 201	Human Anatomy & Physiology I	4
BSC 202	Human Anatomy & Physiology II	4
Electives		

Natural Science Elective (BIO,BSC,CHM, or PHY)	4
Science Electives (BIO,BSC,CHM,PSY,MTH,CSC, or MIS)	3
Free Electives (16 credits or more until total credits are at least 120 required to graduate) ⁶	16
Total Credit Hours	120

- ¹ Some Core requirements may or will be fulfilled by the B.S. major and major support courses.
- ² At least 12 credits of psychology electives must be classroom rather than experiential courses. At least one must be chosen from the following group: PSY 401-449 or PSY 499(SEM 400). At least half of the major requirements must be taken at Le Moyne College. To graduate with a B.S., a student must achieve a 2.0 GPA or higher and have at least 120 total credits. Acceptance into the OT program requires a minimum of 3.0 GPA along with additional application requirements.
- ³ PSY 220 may be replaced with PSY 215 and PSY 320.
- ⁴ Select one of the following: PSY 402-449; **PSY 499** Departmental Honors in Psychology. **PSY 448** Clinical Neuropsychology is recommended to fulfill the PSY SEM 400 requirement.
- ⁵ **PSY 250** Cognition is recommended.
- ⁶ This must include a Medical Terminology course for at least 1 credit.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
PSY 101	Introductory Psychology	3
EAC Encountering Another Culture/Language (p. 61)		3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
Natural Science (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
PSY 201	Intro to Research Methods	4
MTH 112	Introduction to Statistics II	3
Credit Hours		16
Sophomore Year		
First Semester		
HST 110	World Civilization I	3
ENG 210	Major Authors	3
Theology (p. 61)		3
PSY 220	Human Life Span Development	3
BSC 201	Human Anatomy & Physiology I	4
BSC-201L: Human Anatomy & Physiology I Lab		0
Credit Hours		16
Second Semester		
HST 111	World Civilization II	3
PHL 210	Moral Philosophy	3
BSC 202	Human Anatomy & Physiology II	4
BSC-202L: Human Anatomy & Physiology II Lab		

PSY 280	Abnormal/Normal Psychology	3
Free Elective		3
Credit Hours		16
Junior Year		
First Semester		
ENG 310	Literature and Culture	3
PSY 330	Cross-Cultural Psychology	3
PSY Elective		3
PSY 340	Brain and Behavior	3
Natural Science Elective		4
Credit Hours		16
Second Semester		
Free Electives		9
PSY Electives		6
Credit Hours		15
Senior Year		
First Semester		
Religion (p. 61)		3
PSY 400-level Senior Seminar		3
Free Elective		3
VPA Visual & Performing Arts (p. 61)		3
OTM 201	Introduction to Medical Terminology	1
Credit Hours		13
Second Semester		
COR 400	Senior Studies: Transformations	3
PSY Elective		3
DIV Diversity (p. 61)		3
Free Electives		6
Credit Hours		15
Total Credit Hours		122

Advising Path for B.A. PSY/LAW

Bachelor of Arts in Psychology in preparation to apply to Law School

Le Moyne College offers an advising path to help highly qualified Le Moyne College psychology majors who wish to pursue a career in law become competitive applicants for entry into law school. Interested students are invited to contact their Psychology advisor for assistance in registering and following this path.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	6
& HST 111	and World Civilization II	
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6

ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61) ³		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
PSY 101	Introductory Psychology	3
PSY 201	Intro to Research Methods	4
PSY 340	Brain and Behavior	3
PSY 335	Psychology and the Law ³	3
PSY Electives ⁴		15
Senior Seminar ⁵		3
Major Support Requirements		
MTH 110	Introduction to Statistics I (no Computer Lab) ²	3
MTH 112	Introduction to Statistics II	3
Natural Science Elective		3-4
PSC 205	Introduction to Legal Studies	3
Social Science ⁶		6
Electives		
Free Electives (3 or more until total credits are at least 120 required to graduate) ⁷		3
Total Credit Hours		120

Note: Student must still apply to law school, fulfilling all requirements of their application. Signed documentation must be submitted to the Registrar's Office for entry into this pathway; all courses here must be completed by the end of the student's third year in preparation for application to law school.

- ¹ Some CORE requirements will (SOCIAL SCIENCE 1, MTH 1) and others may (NATURAL SCIENCE 1, IDS, DIV) be fulfilled by the B.A. Major and Major Support courses.
- ² Core requirement fulfilled by major support requirement.
- ³ Core requirement fulfilled by major requirement.
- ⁴ Students may receive major elective credit for PSY 220 Human Life Span Development only if not also receiving major psychology elective credit for PSY 215 Child and Adolescent Development or PSY 320 Aging and Adult Development; PSY 220 *may* be replaced with PSY 215 AND PSY 320.
- ⁵ Select one of the following: PSY 402-449; PSY 499 Departmental Honors in Psychology.
- ⁶ Sociology, anthropology, criminology, political science, economics, or education; courses must be taken in at least two disciplines.
- ⁷ 1 free elective to be taken at Le Moyne College; the remaining free electives will be transfer credits from the first year of Law School in order to complete a total of 123 credits.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
PSY 101	Introductory Psychology	3
COR 100	First Year Seminars: Transitions	3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15
Second Semester		
PSY 201	Intro to Research Methods	4
PHL 110	Introduction to Philosophy	3
Natural Science (p. 61)		3
MTH 112	Introduction to Statistics II	3
EAC-XX3: EAC Placeholder		3
Credit Hours		16
Sophomore Year		
First Semester		
PSY Elective		3
PSC 205	Introduction to Legal Studies	3
ENG 210	Major Authors	3
HST 110	World Civilization I	3
Theology (p. 61)		3
Credit Hours		15
Second Semester		
PSY Elective		6
PHL 210	Moral Philosophy	3
HST 111	World Civilization II	3
Social Science Elective		3
Credit Hours		15
Junior Year		
First Semester		
PSY 340	Brain and Behavior	3
PSY 335	Psychology and the Law	3
ENG 310	Literature and Culture	3
Social Science Elective		3
Credit Hours		12
Second Semester		
PSY 400-level Senior Seminar		3
PSY Electives		6
COR 400	Senior Studies: Transformations	3
Religion (p. 61)		3
Credit Hours		15
Senior Year		
First Semester		
LAW-XXX: 16cr LAW SCHOOL		16
Credit Hours		16

Second Semester	
LAW-XXX: 16cr LAW SCHOOL	16
Credit Hours	16
Total Credit Hours	120

RELIGIOUS STUDIES

Chair: Frederick Glennon

Professor: Darryl Caterine, Jennifer Glancy, Frederick Glennon, Donald Kirby, S.J.

Associate Professor: Elliott Bazzano, Darius Makuja

Professor of Practice: Nell Champoux

Adjunct Faculty: Gerard Beritela, Daniel Jezer, James Krisher, J. Mark Lawson, Shawn C. Loner

Professor Emerita: Kathleen Nash, Nancy Ring

Professor Emeritus: William Barnett, Donald Maldari, S.J.

At Le Moyne College, we believe that exploring life's religious dimensions yields valuable insights into individuals as well as entire cultures. Beyond its often-profound personal impact, religion plays a central role in shaping societies, prompting political action, and influencing the course of history. Examining the nature and function of religion is therefore an essential part of a liberal arts education, helping students develop a richer understanding of men, women, and the world in which they live and work.

To achieve this goal and to relate religious values and commitment to contemporary culture, each Le Moyne College student is required to take two (2) courses in the Department of Religious Studies as part of the core education requirements of the College. The first of these courses introduces students to some of the major questions addressed by the Catholic theological tradition, as well as to major questions the tradition has addressed throughout history. It may include opportunities for inter-religious dialogue through, for example, comparative study of those questions in relation to other religious traditions. By grounding theology in human experience, the course may also offer theological perspectives on critical issues in the contemporary world. In the second course, students develop their understanding of the role religion plays in shaping the contours of human experience through the study of one or more religious traditions. These courses may also explore the connections between religion and other communal and/or individual concerns, including but not limited to politics, ethics, psychology and aesthetics.

Students are also encouraged to elect additional courses in religious studies beyond those taken to fulfill the core requirement. The department offers major and minor programs of study in the field of Religious Studies.

Student Learning Outcomes in Religious Studies

Students who graduate from this program will be able to:

Theory and Method

Differentiate between the main theoretical approaches to the study of religion/theology and evaluate critically their strengths and weaknesses, using appropriate critical sources of information for the academic study of religion/theology (Bloom cognitive: analysis/evaluation).

Knowledge of Traditions

Identify key elements or dimensions of religion (e.g. myth, ritual, etc.) or theology (e.g. the role of Scripture, sacraments, spirituality, etc.) and discuss intelligently their relationship in the context of at least three religious traditions, one of which must be non-Abrahamic. (Bloom cognitive: comprehension/analysis).

Religion and Culture

Demonstrate understanding and appreciation of the reciprocal nature of religion/theology and culture in historical and contemporary contexts (Bloom cognitive: comprehension/analysis; Bloom affective: valuing).

Search for Meaning

Outline the various ways that religion/theology facilitates the human search for meaning and appraise their utility in doing so (Bloom cognitive: analysis/evaluation).

Political Dimensions

Compare the reciprocal roles that religions/theologies play in socio-political processes both within nations and internationally (Bloom cognitive: comprehension/synthesis).

Ethical Dimensions

Compare, contrast, and critique the norms for conduct and character from several religious/theological traditions (Bloom cognitive: evaluation)

- Religious Studies Major (B.A.) (p. 319)
- Religious Studies Minor (p. 321)
- Faith and Social Justice Minor (p. 321)

Religion (REL)

REL 100. Catholic Theological Reflect on Service. 1 Credit Hour.

Students engaged in service work sponsored by Le Moyne College but not explicitly related to a credit-bearing course will examine their service-related experiences in critical dialogue with Catholic theology. Students will choose a particular area of theology with which to dialogue and will work with an instructor with specialty in that field. Students may take this course more than once. Credit from this course does not fulfill core requirements but may be applied to a major or minor in Religious Studies or in Catholic Studies. The course is open only to students engaged in service work sponsored by Le Moyne College.

REL 200. Religious Perspectives. 3 Credit Hours.

An introduction to religion as a dimension of human experience which affects all aspects of life. Students will be introduced to the basic concepts and methods necessary for the study of religion and will be exposed to the basic modes of religious experience and expression as found in the world's religions. Special emphasis will be placed on the Jewish and Christian religious traditions.

REL 308. Christian Beginnings. 3 Credit Hours.

This course will examine the historical, cultural, social, and theological roots of Christianity. It will cover the period from the beginning of "Second temple Judaism" in approximately 520 B.C.E. to the adoption of the Nicene Creed in 325 C.E. Christianity is often perceived as a religion founded by Jesus of Nazareth, or perhaps by the Apostle Paul, a missionary who spread the message about Jesus as Messiah and Savior across the Mediterranean world. This understanding, however, is historically inaccurate. Christianity began as a sectarian movement within Judaism and gradually emerged as separate religion combining elements of Jewish and Greco-Roman thought, a process that extended over three centuries.

Prerequisite: Junior standing required.

REL 309. New Testament. 3 Credit Hours.

An introduction to the literature of the New Testament in the context of the history and religion of its times. After an overview of Hellenistic Judaism and the larger Greco-Roman world, the focus will be on the New Testament documents themselves: their history, literary structure and features, their theological stances, and the insight they may give into early Christian communities.

Prerequisite: Junior standing required.

REL 310. The End Is Nigh! Understanding the Apocalyptic Worldview. 3 Credit Hours.

This course investigates the origins, development, and legacies of the apocalyptic and millennial worldviews. The course will explore the origins of these worldviews in the myths, stories, and traditions of the Ancient Near East; how these images and motifs are incorporated in the Biblical tradition(s); and how the worldview develops within various historical periods of hope and crisis. The course will also investigate apocalyptic literature, the elements of the genre, how these become lenses for evaluating the social and political reality of believers and non-believers alike. Students will explore the adaptation and appropriation of apocalypticism/millennialism by various social and religious movements as well as the "Americanization" and mainstreaming of this worldview. Lastly, students will have the chance to research and present on a variety of religious and political apocalyptic movements.

Prerequisite: Junior standing required.

REL 314. Church and State in the U.S.. 3 Credit Hours.

An overview of church-state relations from colonial times to the present. It includes: judicial decisions on the establishment of religion and the freedom of religious practice; the power of religious groups in the political process; church-state relationships in other nations. A one-credit integrated service learning experience may be offered with this course. Fulfills Core requirement(s): Interdisciplinary Studies (IDS).

Prerequisite: Junior standing required.

Cross-listed Courses: PSC 314

REL 318. Religion and Science. 3 Credit Hours.

This course explores the intersection of religious thought and practice, on the one hand, and the natural sciences, on the other, as human attempts to understand and interpret both natural and human environments. The course will examine different models for conceiving the relationship between religion and the sciences as well as the meaning and function of specific concepts, theories, and paradigms in science and religion. Although the primary focus will be methodological, attention will also be devoted to particular questions of ethics and public policy that pertain to science and religion.

Prerequisite: Junior standing required.

REL 319. Varieties of Latino/a Religions. 3 Credit Hours.

Varieties of Latino/a Religions is an introduction to New World religions in Mexico, the Caribbean, and the United States. This course will analyze the emergence of new traditions in and through the contact, collision, and exchange of Spanish Catholic, African, and American indigenous cultures. It will also explore their further transformations in the context of the modern, Anglo-Protestant culture of the United States. Theoretical issues to be explored will include religion and political in/subordination, religion and "hyphenated identity", and religion and capitalism. Fulfills Core diversity requirement.

Prerequisite: Junior standing required.

REL 320. Women and Religion. 3 Credit Hours.

In view of the rapidly changing self-concepts and roles of women, both in the churches and in society as well as the discussion about the nature of our images of God and our use of God-language, this course explores some of the implications of these changes for modern women and men. Historical, archetypal and contemporary material is used in a seminar format.

Prerequisite: Junior Standing required.

Cross-listed Courses: GWS 320

REL 323. Native American Religions. 3 Credit Hours.

A study of selected Native American traditions from historical and comparative perspectives. Particular attention will be given to the Iroquois and will include discussion of Iroquois-Christian interaction. Fulfills Core Requirements: Diversity (DIV) and Cultural Elective (CE).

Prerequisite: Junior Standing required.

REL 325. Religion and Ecology. 3 Credit Hours.

Religion and Ecology explores the ways that religious traditions understand and interact with their environments. The course asks how religious communities think about "nature" and "life" and how they define a human relationship to, and responsibility for, the earth. Students will develop skills in identifying the religious underpinnings of contemporary attitudes and practices regarding the environment.

Prerequisite: Junior Standing required.

REL 326. Religion and Popular Culture. 3 Credit Hours.

Popular culture can be studied from a variety of approaches. This course "reads" movies, TV, Internet sources (blogs, memes, YouTube, etc.) and other material in conversation with the study of religion. While in some cases this will mean the examination of how religion is portrayed in the source material, it will also involve asking how the sources function as religion in the United States today, and how ideas that we usually think of as "religious" might be found in popular sources.

Prerequisites: Junior Standing.

REL 327. Religion, Drugs, and Culture. 3 Credit Hours.

What's the different between a drug and medicine? Is there a relationship between legality and morality? Throughout human history, various types of natural and synthetic mind-altering substances have occupied central roles in a variety of cultures, religious rituals, and laws. Religion 327 explores the spiritual potentials as well as dark recesses that some of these substances have come to assume in specific cultural contexts. The first half of the course will interrogate differences between "hallucinogens" and "entheogens" by focusing on the sacramental importance of peyote, ayahuasca, and psychedelic mushrooms in particular indigenous rituals- as well as the modern western appropriation of these plants and/or their active psychotropic chemicals for the purpose of psychological exploration and medical experimentation. The second half of the course will focus primarily on alcohol, especially from the lenses of Islam, Christianity, and the contemporary American context, by exploring alcohol as a legally circumscribed and/or sacramentally sanctioned substance. Part of this exploration will involve the religious dimensions of addiction and recovery in both Native American and modern western settings, such as Alcoholics Anonymous. Through a critical analysis of "drugs" in their cultural contexts, Religion 327 will illuminate the central importance of mind-altering substances in religious thought and practice while at once questioning the boundaries between drugs and medicine, religion and culture. Your ability to benefit from this class will neither be hindered nor aided by your religious affiliations or lack thereof. The same goes for your personal experience with substances we learn about in the course. What will benefit you is your ability to seriously entertain a multiplicity of worldviews-some of which may strike you as illogical, grotesque, and strange, and others beautiful, compelling, and natural.

Prerequisite: Junior Standing required.

Fulfills Core Requirement(s): Diversity (DIV).

REL 331. Christian Ethics. 3 Credit Hours.

An introduction to significant approaches to religious ethics and the study of particular personal and social problems from religious perspectives. Examples of topics included might be marriage, abortion, homosexuality, nuclear warfare and world hunger.

Prerequisite: Junior Standing required.

REL 332. Catholic Social Teaching. 3 Credit Hours.

This course aims to help students clarify their unexpressed values as a step toward developing a value system. It seeks to develop habits of re-examining the student's purposes, aspirations, attitudes and feelings to find an intelligent relationship between his or her life and the world. The course begins with a consideration of the viability of Christian ethics as applied to the personal and social aspects of life. It evaluates the value presuppositions of both students and leaders and applies these values to case studies.

Prerequisite: Junior Standing required.

REL 336. Comparative Religious Ethics & Social Concerns. 3 Credit Hours.

The course is a study in comparative religious ethics. The course will guide students through the ethical perspectives that eastern, western, and indigenous religious traditions have developed on four social issues facing our world: the construction of sexuality and gender, social justice, violence and the environment.

Prerequisite: Junior Standing required.

Cross-listed Courses: PGS 336

REL 337. Christian Social Ethics. 3 Credit Hours.

This course offers an approach to contemporary social issues and underscores the importance of the Christian ethical dimension in these issues and in character formation. Students will be introduced to the methods and resources for ethical analysis and decision making. Issues addressed will include the family, liberation, violence, non-violence, the environment, sexuality, the economy, life and death and medicine.

Prerequisite: Junior Standing required.

REL 345. What Does Prayer Do?. 3 Credit Hours.

The monk, the poet, the neuroscientist, the constitutional lawyer—all hear the question what does prayer do from their own perspectives. Students will approach this enduring question from multiple disciplinary perspectives, including theology, philosophy, religious studies, medicine, the social sciences, law, and the arts. Readings will be chosen from major wisdom traditions, with some emphasis on Christian examples. Junior standing required.

Prerequisites: PHL 100-level and PHL 200-level.

REL 346. Religion and Life Stories. 3 Credit Hours.

One way in which humans carry out their quest for meaning in life is by attending to the lives of others. Such a quest involves the religious dimensions (broadly understood) of human existence. This course investigates such a quest for meaning in the life stories of significant individuals in history.

Prerequisite: Junior standing required.

REL 349. Religion in Contemporary Film. 3 Credit Hours.

This core course is a writing-intensive critical analysis of contemporary European and American films from the perspective of concerns and questions associated with a critical study of religion: freedom, violence, gender and sexuality, grace, eros, reconciliation, sacrifice, the other, redemption. Visual texts or films for the course include, but are not limited to, *Amadeus*, *Kundun*, *Little Buddah*, *Smoke Signals*, *Unforgiven*, *Aliens*, *Babette's Feast* and *Breaking the Waves*. Course readings are (1) primary religious texts from indigenous traditions, Asian religions, Judaism, Christianity, and Islam; and (2) film criticism incorporating feminist, literary, biblical, and theological methodologies. Class style: short lectures, guided discussion (led by students and instructor), screening of films. There are weekly papers or electronic postings, a course project and short presentation on that project. Fulfills REL 300 core requirement. Fulfills core Visual and Performing Arts requirement (VPA).

Prerequisite: Junior standing required.

REL 350. World Religions and Film. 3 Credit Hours.

This course satisfies the REL 300 core requirement. It offers a comparative study of major world religious traditions as manifested in both religious writings and a variety of international film texts. Through lectures, discussions, assigned readings, and weekly screenings of films rooted in specific religious traditions, students will gain a broad, basic knowledge of contemporary Eastern and Western religions. Students will consider Hinduism, Buddhism, Judaism, Christianity, and Islam, with emphasis varying each semester. The course pays attention to the tenets, ritual and worship, ethics and historical background of each tradition through as seen in both classic and contemporary films. The course is valuable to students unfamiliar with major world religious traditions or the cinema's profound ability to inform, motivate and inspire. Requirements: weekly readings, short papers, film screenings, lectures, discussion and final exam. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

Prerequisite: Junior standing required.

Cross-listed Courses: REL 386, REL 350

REL 360. The Qur'an. 3 Credit Hours.

Followers of Islam, called Muslims, number at well over a billion and span the globe from California to Cairo to Kuala Lumpur. Their languages, practices and geographical centers are diverse, complex, and require more than a lifetime to understand fully. This course will nonetheless guide students through a modest survey of that diversity and complexity, with particular attention to the Islamic holy book, the Qur'an. We will explore multiple dimensions of Islam and the Qur'an, including political, ethical, and mystical dimensions-with attention to demographic diversity. This course, moreover, will give attention not only to the Qur'an per se, but also how to metacognitively study the Qur'an, including attention to popular media and power dynamics in the dissemination of knowledge. Your ability to benefit from this class will neither be hindered nor aided by your religious affiliations or lack thereof. What will benefit you is your ability to seriously entertain a multiplicity of worldviews-some of which may strike you as illogical, grotesque, and strange, and others beautiful, compelling, and natural. Fulfill(s) Core Requirements: Diversity (DIV) and Cultural Elective (CE).

Prerequisite: Junior standing required.

REL 362. Judaism. 3 Credit Hours.

The general purpose of this course is to provide a historical survey of Jewish religious thought from its biblical origins through the post-biblical era to the present. An overview of the major ideas that influenced Jewish history is followed by an analysis of the outstanding theological concepts. Consideration is given to the life cycle that affects Jewish personal existence. This course also indicates the ethical and moral precepts that characterize Judaism throughout the ages. Course sponsored by the Jewish Chautauqua Society.

Prerequisite: Junior standing required.

REL 363. Religions of Asia. 3 Credit Hours.

The practices, beliefs and history of Hinduism, Buddhism (including Japanese developments) and Taoism will be examined in this course. Particular attention will be given to the relationship of each tradition to its cultural context in the course of history and to problems confronting each tradition in the modern world.

Prerequisite: Junior standing required.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: PGS 365

REL 364. Religion in America. 3 Credit Hours.

From a religious point of view, major historians have described America variously as a righteous empire, a lively experiment in pluralism and a nation with the soul of a church. As these descriptions, taken together hint, American religious history is colored by the existence of three distinct and often conflicting forces: evangelical piety, a political pluralism and a distinctive form of civil religion. This course will attempt to trace and to celebrate the enduring vitality of each of these forces throughout the history of the republic and to make the student aware of the tensions which have arisen and which continue to arise as a result of the divided pedigree of American religion. Topics to be covered will include the New England way, immigration and nativism, Manifest Destiny and the rise of indigenous American religious communities.

Prerequisite: Junior standing required.

REL 365. Islam. 3 Credit Hours.

Followers of Islam, called Muslims, number at well over a billion and span the globe from California to Cairo to Kuala Lumpur. Because their languages, practices and geographical centers are diverse and complex we will approach a variety of texts (e.g., the Qur'an, prophetic reports, and prayer manuals), people (e.g., Muhammad, Rabi'a of Basra, and Malcolm X), and concepts (e.g., faith, afterlife, and violence), from multiple angles-a process that should prove both challenging and rewarding. The course will take a roughly chronological approach, beginning with the genesis of Islam in the 7th-century Arabian peninsula, but we will also examine themes such as gender, mysticism, and language. Given our 21st-century America context, moreover, we will also consider the implications of our subject on the modern world and America in particular throughout the entire semester. Therefore, this course will not only give attention to "Islam" per se, but also how to metacognitively study Islam. The course will press you to seriously entertain a multiplicity of worldviews-some of which may strike you as illogical, grotesque, and strange, and others beautiful, compelling, and natural.

Prerequisite: Junior standing required.

REL 366. Islamic Mysticism. 3 Credit Hours.

Followers of Islam, called Muslims, number at well over a billion and span the globe from California to Cairo to Kuala Lumpur. Their languages, practices and geographical centers are diverse, complex, and require more than a lifetime to understand fully. This course will nonetheless guide students through a modest survey of that diversity and complexity, with particular attention to "Islamic mysticism" per se, but also how to metacognitively study the topic, including attention to popular media and power dynamics in the dissemination of knowledge. Your ability to benefit from this class will neither be hindered nor aided by your religious affiliations or lack thereof. What will benefit you is your ability to seriously entertain a multiplicity of worldviews-some of which may strike you as illogical, grotesque, and strange, and others beautiful, compelling, and natural.

Prerequisite: Junior standing required.

Fulfills Core Requirement(s): Cultural Elective (CE) and Diversity (DIV).

REL 367. African Traditional Religions. 3 Credit Hours.

The purpose of the course is to introduce students to African Traditional Religions (ATR) practiced among many African societies in sub-Saharan Africa. Like other courses in the study of religion, this course will illustrate the ways in which religion is a dimension of human experience by exploring what ATR is and why and how it answers significant human questions of meaning in the context of the African moral universe. Aside from acquainting students with some of the major themes and practices of ATR, the course will demonstrate how these play a role in the contemporary encounter between Christianity and African culture in the modern world.

Prerequisite: Junior standing required.

REL 369. Sociology of Religion. 3 Credit Hours.

The relationship between religion and society is complex, dynamic, and ever-changing. It has been at the root of sociology itself since the discipline began and was central to the work of many of its founders. In this course, you will use a sociological perspective to examine this relationship between religion and society. Much of the class will deal with American forms of religion, but we will also consider examples of religion outside of the U.S. context. Fulfills Core diversity requirement.

Prerequisite: Junior standing required.

Cross-listed Courses: SOC 369

REL 370. Philosophy of Religion. 3 Credit Hours.

This course is a systematic introduction to the philosophy of religion. Topics covered may include the following: arguments for (and against) the existence of God, the rationality of religious belief and the nature of belief in general, the divine attributes, the status of religious claims, and the opportunities and challenges of religious pluralism. This course may also examine the claims of particular theistic traditions using the methodology of philosophical theology. This course will draw upon both classical and contemporary texts from a variety of philosophical perspectives. Prerequisite(s): PHL-110 or HON-110 and PHL-210 or HON-215. Junior standing required.

Fulfills: Ways of Knowing/Metaphysics for Philosophy majors.

Cross-listed Courses: PHL 370

REL 371. History and Spirituality of the Jesuits. 3 Credit Hours.

This course will acquaint students with the history and the distinctive, world-engaging spirituality of the Society of Jesus. In addition to presenting a chronological overview of Jesuit history, it will also examine the central themes of the Spiritual Exercises and the missionary strategies and philosophy of education of the Jesuits.

Prerequisite: Junior standing required.

Cross-listed Courses: HST 343

REL 375. Catholic Theology. 3 Credit Hours.

This course will introduce the student to contemporary understandings of Catholicism. The development of the church's tradition will be traced from its foundations in Scripture and the Councils of the Church to the present day. Topics to be covered include Christology, ecclesiology, morality and sacramental theology.

Prerequisite: Junior standing required.

REL 378. Jesus Christ Through History. 3 Credit Hours.

From the time of the historical Jesus until the present, the figure of Jesus has undergone significant changes in interpretation. This course will trace these changes and assess the reasons for them. The course will also allow students to assess contemporary interpretations of Jesus.

Prerequisite: Junior standing required.

REL 382. Buddhism & Catholicism. 3 Credit Hours.

This course will enter into the contemporary dialogue between Catholicism and Buddhism, exploring both the fundamental differences and the possible affinities between them. In addition to becoming acquainted with another major world religion, students will be presented with fresh perspectives for approaching Catholicism's own rich heritage of mysticism, monasticism and social service. Students will pursue comparative study of such topics as the relation between religious language and experience, concepts of the self and ultimate reality, the causes of and remedies for human suffering and the meaning of spirituality as an engagement with the world, not a flight from it.

Prerequisite: Junior standing required.

REL 383. Philosophies of Judaism. 3 Credit Hours.

An examination of a variety of Jewish philosophical tendencies as responses to fundamental crises and challenges. The course will focus on several paradigmatic philosophies of Judaism in terms of the following: (a) the human person (philosophical anthropology); (b) revelation and obligation; (c) theology; and (d) Jewish identity and existence. The influence and importance of gender and culture in the development of these philosophies will also be stressed.

Prerequisite: Junior standing required.

Cross-listed Courses: PHL 324

REL 386. World Religions and Film. 4 Credit Hours.

Special Topics: This course satisfies the REL 300 core requirement. It offers a comparative study of major religious traditions of the world as manifested in both religious writings and a variety of international film texts. Through lectures, discussions, assigned readings, and weekly screenings of films rooted in specific religious traditions, students will gain a broad, basic knowledge of contemporary Eastern and Western religions. We will consider Hinduism, Buddhism, Judaism, Christianity, and Islam, with attention paid to the tenets, ritual and worship, ethics and historical background of each as seen in a representative selection of classic and contemporary films. This course will be of value to students unfamiliar with the major religious traditions of the world or with the cinema's profound ability to inform, to motivate, and to inspire. Weekly readings and short papers, lectures, screenings; final exam.

Prerequisite: Junior standing required.

Cross-listed Courses: REL 350, REL 350

REL 390. Independent Study. 1-3 Credit Hours.

A student who wishes to pursue independent study for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied, the goal to be achieved, the methodology to be followed, the schedule of supervision, the end product, the evaluation procedure and the number of credits sought. All proposals must be approved by the supervising faculty member, the department chair and the academic dean. They will be kept on file in the academic dean's office.

Prerequisite: REL 200.

Prerequisite: Junior standing required.

REL 391. Independent Study. 3 Credit Hours.

A student who wishes to pursue independent study for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied, the goal to be achieved, the methodology to be followed, the schedule of supervision, the end product, the evaluation procedure and the number of credits sought. All proposals must be approved by the supervising faculty member, the department chair and the academic dean. They will be kept on file in the academic dean's office. Prerequisite: REL 200.

REL 392. Independent Study. 1-3 Credit Hours.

A student who wishes to pursue independent study for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied, the goal to be achieved, the methodology to be followed, the schedule of supervision, the end product, the evaluation procedure and the number of credits sought. All proposals must be approved by the supervising faculty member, the department chair and the academic dean. They will be kept on file in the academic dean's office. Prerequisite: REL 200.

REL 395. Special Topics. 3 Credit Hours.

The department of religious studies recognizes that students often have interests that are not covered in the scheduled course offerings. REL 395-399 provides a structure by which a group of students may petition the department to offer a course in a subject matter of particular interest to the students. The following conditions must be met in order for such a course to be offered: (1) A group of at least 10 students must agree on an area of inquiry and submit formal petition to the chair of the department; (2) the petition normally must be filed with the chair by Oct. 15 for a spring semester course and by March 1 for a fall semester course; (3) necessary resources among faculty and library must be available; and (4) the petition must be reviewed and approved by the curriculum committee of the department of religious studies. Prerequisite: REL 200.

REL 398. Religious Studies Colloquium. 1 Credit Hour.

The colloquium will meet bi-weekly for two hours to examine significant topics and developments pertinent to the history, expression, and study of religion. Faculty and students will decide upon a unifying theme for the course each semester, but course topics will depend on the interests of the student (or occasionally faculty person) presenting for the day. Colloquium will take advantage of public lectures, both at Le Moyne and in the region. Students will actively assess their progress toward meeting Religious Studies learning objectives. Eligible students may develop ideas for departmental Honors projects and, as they progress on their projects, present their research to their peers. Prerequisite: Junior standing required.

REL 399. Religious Studies Colloquium. 1 Credit Hour.

The colloquium will meet bi-weekly for two hours to examine significant topics and developments pertinent to the history, expression, and study of religion. Faculty and students will decide upon a unifying theme for the course each semester, but course topics will depend on the interests of the student (or occasionally faculty person) presenting for the day. Colloquium will take advantage of public lectures, both at Le Moyne and in the region. Students will actively assess their progress toward meeting Religious Studies learning objectives. Eligible students may develop ideas for departmental Honors projects and, as they progress on their projects, present their research to their peers. Sophomore/Junior/ Senior standing.

REL 400. Religion, Conflict, Peace/African Context. 3 Credit Hours.

This course is designed to introduce the class to basic questions, patterns, and contemporary issues on religion, justice, and peace in an African context. As such, the course will not be centered on the presentation of a particular narrative, thematic or structural account of the history of the multiple conflict situations in Africa. On the contrary, it is the aim of this course to take a case-study approach to the problems affecting Africa. In the light of the perspectives on Peace and Global Studies Program at Le Moyne College, we shall focus on ethnicity, religion and justice in conflict situation in African context. While this course aims to introduce student to the socio-economic, political and religious problems affecting the continent go back to the colonial period. Prerequisite: Junior standing required.

Fulfills Core Requirement(s): DIV.

Cross-listed Courses: PGS 408

REL 401. Corporate Responsibility. 3 Credit Hours.

Corporations (public and private) play important roles in the lives and livelihoods of individuals; in fact, they seem to envelop, if not replace, persons as the loci of power and responsibility. Corporate Responsibility is an integrative and interdisciplinary senior capstone course which deals with the critical social and moral questions that such an economic life raises. Through a combination of case studies, lectures, and student group projects, the course will underscore the importance of the religious ethical traditions, especially the Christian, in the struggle to understand whether "economic decisions have human consequences and moral content." Open to students from all major disciplines. Prerequisite: Junior standing required.

REL 402. Jerusalem-The Politics of Sacred Space. 3 Credit Hours.

These courses are designed to investigate the presuppositions, structures and images that underlie the human attempt to understand basic religious issues. Through various unifying foci (such as the question of God, theory and praxis, faith and justice, etc.), students will be enabled to come to a reflective understanding of their own religious assumptions and values in the context of their previous years of study. The courses will have a seminar format, with an emphasis on student discussion and active integration of material through class presentations and written work. Prerequisite: Junior standing required.

Cross-listed Courses: PGS 404

REL 404. Before Heaven & Hell. 3 Credit Hours.

This seminar asks two interrelated questions. First, how might understandings of death inform the way we live? Second, what do various conceptions of an afterlife - for example, notions of judgement, the immortality of the soul, and resurrection of the body - suggest about what it means to be human? Early Christian sources from the New Testament to Augustine are considered in the context of readings from earlier and surrounding cultures, including the Hebrew Bible and Greco-Roman literature. Prerequisite: Junior standing required.

REL 405. Ethics:Perspect of Oppressed. 3 Credit Hours.

This senior seminar will study ethics from the perspective of social groups in American society whose voices have too often been muted because of oppression and marginalization. Those groups include the poor, women, people of color (African American, Native American and Latino) and gays/lesbians. The focus will be to allow these groups to voice the nature of their oppression (its causes and extent), to challenge the inadequacies of traditional morality and to identify the moral resources to promote social change.

Prerequisite: Junior standing required.

Fulfills Core Requirement(s): Diversity (DIV).

REL 406. Theology of Christian Art. 3 Credit Hours.

The course will explore Christian religious art as symbols which promote human faith and the consequent creative and redemptive work of God. This course explores the works of Christian art in tandem with Christian expressions of and/or reflection upon that faith which those works seek to promote. Through the study of primary texts which elucidate that faith in its historical contexts the seminar will seek to understand the role which art plays in God's work of creation and redemption. Readings will be drawn from key texts from Scripture, the early Christian apologists, patristic writers, ecumenical councils, mystics, theologians and reformers. Art works will range from frescoes in the catacombs through medieval, renaissance and modern architecture, sculpture and painting.

Prerequisite: Junior standing required.

REL 407. Postcolonial Theol & Cinemas of 3rd Wrld. 3 Credit Hours.

This seminar will explore both the emerging discipline of postcolonial theology and the growing importance of Third World cinema. Considering the challenges posed by contemporary Third World theologians, both female and male, this course will explore the many ways in which their concerns have been manifested in an international variety of works by male and female filmmakers. As we analyze emerging themes and issues in African, Latin American, and Asian culture today, the course will promote global awareness in doing theology and explore possibilities for dialogue and solidarity among people in different contexts. It will also show how Christianity's historical relationship with empire has shaped recent and contemporary understandings of non-western traditions and interpretative frameworks.

Prerequisite: Junior standing required.

REL 409. Cults and Cultural Conflicts. 3 Credit Hours.

A common feature of the experience of religious "cults", which have emerged in all major religious traditions, is some degree of conflict with the surrounding culture. This course will explore the dynamics of cultural conflict experienced by "cults". We will explore the following questions: What do we mean by the terms, "cult", new religious movement, alternative religion, and minority religion? Why does conflict between "cults" and the surrounding culture occur? What forms does it take? What factors exacerbate or mitigate conflict? What strategies have various "cults" employed to deal with conflict? Which strategies have been most successful? Why? What strategies have various cultures employed to deal with conflict with "cults"? Which strategies have been most successful? Why?

Prerequisite: Junior standing required.

REL 411. Public Religion and the Social Order. 3 Credit Hours.

This seminar will study the religious dimensions of secular, social behavior by uncovering the experiences of ultimacy or sacrality in political, economic and social institutions, myths and behavior. Students will investigate a variety of ways that religious persons and groups have used historically both to interpret and to interact with the social order. In addition, the effect of changes in the political and social order upon religious communities and traditions will also be examined. Primary attention will be devoted to religion and the social order in the United States of America.

Prerequisite: Junior standing required.

REL 412. Religion, Sex and Gender. 3 Credit Hours.

This seminar will study the religious understandings of sex and sexuality, and the role which religion plays in establishing and reinforcing gender roles. Students will explore the attitudes toward sex and sexuality found in religious art, music and literature. The course will treat the dualisms which prevail in all cultures and academic disciplines that assign different tasks and qualities to men and women. Students will also discuss the gender expectations of different religious traditions to assess the impact that such expectations have on the pursuit of knowledge.

Prerequisite: Junior standing required.

Fulfills Core Requirement(s): Diversity (DIV).

Cross-listed Courses: GWS 416

REL 413. Religion and the Imagination. 3 Credit Hours.

In this seminar, students will be asked to examine patterns of symbols in literature, in the visual and performing arts, including religious myths, texts and rituals. The purpose of this study will be to appreciate the role of the imagination in the creation and interpretation of various cultural expressions. The seminar will also discuss the limitations which post-Enlightenment efforts at demystification impose on understanding the human condition. Senior core seminar. Fulfills core Visual and Performing Arts requirement. (VPA)

Prerequisite: Junior standing required.

REL 414. Post-Modern Christian Theology. 3 Credit Hours.

In this seminar, students will be asked to explore the mutual influence of theology and culture. Post-modernity critiques the Enlightenment mentality, but there are several strands of such criticism, some congenial to theology, others that are not. Within this context, attention will be paid to postmodern expressions of culture in art, literature and philosophy; the questions raised for and by theology; and the responses of various theologies to these questions. Senior core seminar.

Prerequisite: Junior standing required.

REL 416. Religion and the Media. 3 Credit Hours.

This course focuses on the relationship between mass media and religion in U.S. and other cultures. It introduces students to media studies and some of the methods used to study the intersections of religion and mass media, and analyzes how print and electronic news media, as well as television and film, have depicted (represented) specific religious groups and religion in general, as well as how such media represents gender, class, race, and ethnicity in a religious context of religion. The course also considers the ways in which religion and media interact and influence each other.

Prerequisite: Junior standing required.

REL 421. The Occult in American Religions. 3 Credit Hours.

From the eighteenth century until today, a succession of metaphysical/occult religions has emerged in the United States emphasizing the marvelous and weird dimensions of the modern world. Religious Studies 421 analyzes the cultural appeal and function of wonder, terror, and desire in a number of these movements, including Freemasonry, early Mormonism, Spiritualism, Ufology, New Age spirituality, and Scientology. Prerequisite: Junior standing required.

REL 425. The Faith That Does Justice. 3 Credit Hours.

This course will engage each student in a social justice action project, while studying how faith commitments, particularly those embedded in Christian thought and culture, and principles of social justice can be implemented in that project. The course will require a synthesis of assigned reading on social justice, their own faith traditions, and Catholic social teaching, as well as the practical experience gained in the project. The course will act as the capstone course for the Faith and Social Justice minor.

Prerequisite: Junior standing required.

REL 450. Capstone in Religious Studies. 3 Credit Hours.

The purpose of this course is to provide an advanced level seminar/capstone experience for religious studies, majors, minors and others interested in the study of religion in which students are able to both examine the influences and ideas that are currently shaping the field of religious studies and to facilitate student reflection on their course of study in the major/minor/courses and its implications for their future. Prerequisites: REL 200 and a REL 300 level course, or permission of the department chair of REL.

REL 490. Research. 1-3 Credit Hours.

An upper-class student who wishes to undertake a research project for academic credit during a given semester must submit a research proposal prior to registration and a research report at the end of the semester. The proposal should specify the number of credits sought. All proposals must be approved by the research director, the department chair and the academic dean. They will be kept on file in the academic dean's office. May be used to fulfill the second religious studies course required by the core curriculum.

Prerequisite: REL 200.

Theology (THE)

THE 100. Catholic Theological Reflection on Service. 3 Credit Hours.

This course analyzes and explores the theological dimensions of service in critical dialogue with the Catholic tradition, thereby introducing students to a central question or questions in Catholic theology, as per the specifications of the Core IV document.

THE 125. Biblical Women. 3 Credit Hours.

Focusing on close readings of stories of biblical women, this course introduces students to the Hebrew Bible, deuterocanonical sources, and the New Testament, with attention to the social and historical contexts of those writings, the afterlives of biblical women in later religious traditions, and gender theory.

Cross-listed Courses: GWS 125

THE 175. Catholic Theology. 3 Credit Hours.

This course will introduce the student to contemporary understandings of Catholicism. The development of the church's tradition will be traced from its foundations in Scripture and the Councils of the Church to the present day. Topics to be covered include Christology, ecclesiology, morality, and sacramental theology.

THE 184. Christian Creed: Mystery and Symbol. 3 Credit Hours.

An exploration and critique of the beliefs of Christianity through an examination of its expression in the ancient creeds of the church. The course will relate the Nicene Creed common to nearly all Christians to its roots in the Bible and then develop a commentary of the contents of the creed from a contemporary perspective.

THE 200. Theology in a Secular World. 3 Credit Hours.

This course is an introduction to theology and its relevance to other academic disciplines. How does theology relate to other fields in the natural and social sciences? How are its truth claims to be understood and evaluated? And what are the practical benefits to studying theology in the twenty-first century? In this class we will read theological and biblical texts side by side with works from such contemporary disciplines as psychology, religious studies, and environmental science. We will analyze how prominent theological writers translate a number of concepts into the language and categories of modern thought, and how they seek to find meaning in the data uncovered by the modern sciences. Readings will include works by a number of prominent Catholic writers—including Thomas Berry, Paul Knitter, Thomas Merton, Henri Nouwen, and Richard Rohr—as well as texts from other religious traditions and secular fields.

THE 201. Old Testament. 3 Credit Hours.

A general introduction to the literature of the Hebrew Bible (the Christian Old Testament). The course will consider different approaches to this material, such as historical criticism, rhetorical analysis, etc. Students will also explore the history of biblical Israel within the context of the ancient Near East. Selections of the Torah (Pentateuch), the prophets and the writings will be studied.

THE 202. A Rabbi Meets Jesus: a Jewish-Christian Encounter. 3 Credit Hours.

In the context of contemporary Jewish-Christian encounter, it is important to identify and to evaluate critically theological concepts which each of these religions teach and believe, including the idea of God, Law, Kingdom, Covenant, messiah, Holiness, and Sabbath. These theological concepts will be central to this course and will be explored through the study of primary religious texts, doctrines, and theological arguments.

THE 203. Prophets. 3 Credit Hours.

This course concerns the prophetic writings of the Hebrew Bible. The class will study the phenomenon of prophecy in the ancient Near East in general and in biblical Israel in particular. Using the work of anthropologists and social scientists, the class will also consider briefly prophecy in contemporary tribal societies in order to understand the role of prophecy in Israelite society. The class will meet the prophetic books on their own terms, as the works of theologians and thinkers, influenced by their social contexts, with specific notions about God, history, the future and the role of human choice and behavior in shaping national and personal destiny.

THE 204. Biblical Spiritualities. 3 Credit Hours.

This course approaches the Bible as a resource for those seeking to live a spiritual life. Particular attention will be given to contemplative spiritualities, the spirituality of social justice, eco-spirituality, and the spirituality of community. The course will incorporate close readings of biblical texts in their centuries, attention to contemporary spiritual practices inspired by these sources, and openness to emerging expressions of spirituality.

THE 206. Theology of Christian Art. 3 Credit Hours.

The course will explore Christian art as symbols which promote human faith and the consequent creative and redemptive work of God. This course explores the works of Christian art in tandem with Christian expressions of and/or reflection upon that faith which those works seek to promote. Through the study of primary texts which elucidate that faith in its historical contexts the course will seek to understand the role which art plays in God's work of creation and redemption. Readings will be drawn from key texts from Scripture, the early Christian apologists, patristic writers, ecumenical councils, mystics, theologians and reformers. Art works will range from frescoes in the catacombs through medieval, renaissance, and modern architecture, sculpture and painting.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA)).

THE 210. Faith and the Religious and Theoretical Roots of Social Justice. 3 Credit Hours.

This course is an introduction to the notion of faith (broadly-conceived), the biblical foundations for justice, the basic principles of Catholic social teaching, and an introduction to social justice that emphasizes the tensions and opportunities for furthering the common good within existing social, political and economic systems. It serves as the introductory course for the Faith and Social Justice minor.

THE 211. Johannine Literature. 3 Credit Hours.

An in-depth examination of the fourth Gospel and Johannine epistles. The distinctive Johannine theology will be assessed, with some attention to the differences (literary and theological) between John and the synoptic Gospels. The course will also discuss theories of the history of the Johannine community, with consideration for how the community's situation may have affected its theology.

THE 212. Pauline Epistles. 3 Credit Hours.

The course has two main purposes: (1) to answer the question, "What gospel does Paul preach?"- that is, to come to an understanding of Paul's rich theology; and (2) to learn, through the epistles, more about the milieu in which Paul worked: the social conditions, competing theological movements within early Christianity, issues of community life. As time permits, the course may also include an overview of the images of Paul preserved by other writings such as Acts of the Apostles and the deuteropauline Letters.

THE 213. Synoptic Gospels. 3 Credit Hours.

An in-depth examination of Matthew, Mark and Luke. This course will examine what is common to the first three Gospels, including, but not limited to parables, healing stories, controversy stories and accounts of the passion and resurrection. Questions of methodology and background will be treated as necessary. The emphasis will then shift to close readings of each Gospel in order to gain an appreciation for the distinctive theology and literary structure of the three.

THE 231. Christian Ethics. 3 Credit Hours.

An introduction to significant approaches to religious ethics and the study of particular personal and social problems from religious perspectives. Examples of topics included might be marriage, abortion, homosexuality, nuclear warfare and world hunger.

THE 232. Catholic Social Thought. 3 Credit Hours.

This course aims to help students clarify their unexpressed values as a step toward developing a value system. It seeks to develop habits of re-examining the student's purposes, aspirations, attitudes and feelings to find an intelligent relationship between his or her life and the world. The course begins with a consideration of the viability of Christian ethics as applied to the personal and social aspects of life. It evaluates the value presuppositions of both students and leaders and applies these values to case studies.

THE 235. Eco-Theology and Film. 3 Credit Hours.

This course will introduce the rising field of Eco-Theology, presenting many of the ways in which humanity's relationship to nature has been understood. Our approach will be interdisciplinary, and students will be encouraged to explore the issues and materials from a range of perspectives, both theological and artistic.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA)).

THE 237. Christian Social Ethics. 3 Credit Hours.

This course offers an approach to contemporary social issues and underscores the importance of the Christian ethical dimension in these issues and in character formation. Students will be introduced to the methods and resources for ethical analysis and decision making. Issues addressed will include the family, liberation, violence, non-violence, the environment, sexuality, the economy, life and death and medicine.

THE 240. Theological Responses to Suffering. 3 Credit Hours.

This course will examine the various types, causes, and dimensions of suffering, as well as traditional and contemporary religious responses to human suffering. While the course will draw from the wisdom of both Eastern and Western theological and spiritual traditions, particular attention will be given to the Christian/Catholic tradition.

THE 247. Christian Life: Symbol and Practice. 3 Credit Hours.

This course will explore various components of Christian life as it is contemporaneously experienced and symbolized. To achieve this, the topics of religious experience, faith belief and conversion will be treated in the context of various modes of symbolization: scripture, sacrament and liturgy, doctrine and literature.

THE 248. Christian Spirituality. 3 Credit Hours.

This course will provide the student with an overview of Christian spirituality. It will consider the biblical foundations of Christian spirituality and its historical development through the centuries. A major portion of the course will look at the contemporary practice of Christian spirituality, including prayer, discernment, spiritual direction and the usefulness of insights from psychology regarding dreams, personality and gender. Students will be introduced in-class to various methods of Christian meditation.

THE 250. Sacred Geometry: Art, Cinema and Spirituality- Special Topic. 3 Credit Hours.

This course will provide a comparative study of ancient cultures in their use of symbolism, geometry, art and cosmology to define reality. "All of life in its entirety," wrote Pier Paolo Pasolini, "is a natural, living film," and in this course students will explore a series of twelve "art films" to discern ways in which symbols derived from nature can function within a variety of spiritualities and belief systems. Course topics will provide symbolic representations of the structure of the universe, expressing the notion of reality as an organized and unified whole.

THE 267. American Catholicism. 3 Credit Hours.

This course will introduce the student to the history of American Catholicism from colonial days to the present. Special emphasis will be placed upon a consideration of the problems which the church faced as it tried simultaneously to be American enough to please a frequently skeptical and sometimes hostile American culture; conspicuously Catholic enough to please Rome and Catholic enough in the forms of piety and governance to please the diverse ethnic groups that comprised its membership. Topics covered will include Catholic patriotism, Americanization, the Americanist crisis, nativism and American Catholic intellectual life.

THE 274. African Christian Theology. 3 Credit Hours.

The course examines the encounter between African traditional religions and cultures and European Christianity during nineteenth century missionary expansion into sub-Saharan Africa. It also explores the movements that gave rise to contemporary African Christian theology. Although the course is ecumenical in scope, it places particular emphasis on the Roman Catholic theological tradition.

THE 277. The Church: Community in Christ. 3 Credit Hours.

An exploration of the community of Jesus' disciples which developed into a worldwide, multi-faceted and structure communion of communions. This study will consider the scriptural roots of this communion and its subsequent theological development. It will also propose and critique contemporary concepts of the church.

THE 278. Jesus Christ Through History. 3 Credit Hours.

From the time of the historical Jesus until the present, the figure of Jesus has undergone significant changes in interpretation. This course will trace these changes and assess the reasons for them. The course will also allow students to assess contemporary interpretations of Jesus.

THE 281. Christianity in Dialogue With World Religions. 3 Credit Hours.

If Jesus is the only Way what does that mean for our brothers and sisters of other faiths? What does the Catholic Church really teach about the possibility of salvation for those who do not become Catholic? Can Catholics and other Christians engage in respectful dialogue and active cooperation with people of other faiths? How might interfaith dialogue enhance and deepen the faith one already holds? In this course students will explore a number of different theological answers and perspectives that address these and other questions with special emphasis on official Catholic teaching. In addition, we will be introduced to a number of concrete examples of Christians engaging in dialogue with the faithful of other religions. In the second half of the course, students will choose one particular non-Christian tradition and enter more intensively into examples of dialogue between Christianity and that particular faith with the goal of considering and questioning more deeply their own understanding of the world and their position in it. Fulfills Core Requirement(s): Diversity (DIV).

THE 284. Christian Mysticism. 3 Credit Hours.

This course will trace mystical theologies and the practices tied to them within Christianity, as well as outlining issues of definition and method in the study of mysticism. It will explore the roots of Christian mysticism and the development of various forms of mysticism from late antiquity to modern era.

THE 285. Eating As a Sacred Act: an Intellectual And Gustatory Exploration of Food and Faith. 3 Credit Hours.

The fundamental aim of this course will be to articulate a theology of eating. In many ways, food is a simple thing. Someone grows it; someone prepares and eats it. But in reality, food/eating is perhaps one of the most complicated of human acts since it involves so many facets of creation and human ingenuity. Eating does not merely fill our bellies. Eating has a transcendent dimension to it as well. In the Christian tradition, there exists an obvious connection to Eucharist, eating, that leads to communion through creation, humanity and ultimately God. Food and eating will be viewed through multiple academic lenses: theological (principally), ritual, sacramental, cultural, agricultural, ecological, and moral. The aim is to lead the student to a deeper awareness of this ordinary but complex act that joins one to the entire cosmos. There will also be a gustatory component in which the student will explore the local food shed that will include shared meals.

THE 390. Independent Study. 1-3 Credit Hours.

A student who wishes to pursue an independent study for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied, the goal to be achieved, the methodology to be followed, the schedule of supervision, the end product, the evaluation procedure and the number of credits sought. All proposals must be approved by the supervising faculty member, the department chair and the academic dean. They will be kept on file in the academic dean's office. Prerequisite: REL 200.

Prerequisite: Junior standing required.

Religious Studies Major (B.A.)

A student wishing to major in religious studies must complete 30 credit hours (10 courses) in religious studies/theology: REL 200 (<http://collegecatalog.lemoyne.edu/search/?P=REL%20200>) Religious Perspectives (three credits); three REL/THE 300-level courses taken with full-time faculty (nine credits); four REL/THE elective courses (12 credits); a REL/THE 400-level course (three credits); and the Religious Studies Junior/Senior Capstone Course (three credits). The student must also complete world language study through the intermediate level.

Upon declaring a religious studies major, students will receive a copy of the departmental learning goals. Students and their advisers will use these goals as a guide in selecting courses. Students will demonstrate progress toward the goals by compiling work drawn from each semester into a portfolio for review by members of the department. During the junior/senior year, in the context of the capstone course, students will reflect on that progress in a concluding assessment essay.

Religious Studies Major

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6

ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
REL 200	Religious Perspectives	3
Select three 300-level religious studies/theology courses taken with full-time faculty*		9
Select four additional religious studies/theology courses in consultation with advisor ²		12
JR/SR REL Capstone Course		3
REL/THE 400-level course ³		3
Major Support Requirements		
World Language ⁴		6
Electives		
Free Electives		33
Total Credit Hours		120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Theology core requirement counts as one elective.
- ³ This course is in addition to the COR 400 core requirement.
- ⁴ Chosen after consultation with the student’s faculty advisor and department chair; intermediate level of competency required.

* These REL/THE 300-level are taught by full-time religious studies faculty. In these courses, students must complete additional and/or alternate assignments designed by the instructor to help them progress toward meeting departmental learning goals. Such assignments might include assembling annotated bibliographies or writing bibliographic essays, reading and discussing theory and method in the academic study of religion, or playing a distinctive role within the class (opening/leading discussions or taking responsibility for presenting portions of the course material).

Departmental Honors in Religious Studies

In accord with 1988 guidelines approved by the academic dean, department chairs and program directors, declared religious studies majors with a 3.0 G.P.A. overall and a 3.25 G.P.A. in religious studies courses may pursue departmental honors, provided they have also demonstrated the potential to complete a research paper at least 25 – 30 pages in length.

During the fall semester of junior year, the departmental chair will invite eligible students to apply. The candidate for the departmental honors degree will determine a general area to research and choose a mentor from among the full-time members of the department with appropriate expertise. The mentor will direct the student as (s)he develops a proposal for the project. The proposal must include a well-formulated research question, description of methodology, a bibliography, a tentative outline and title, and criteria for evaluation. The mentor and two other members of the department must approve the proposal before spring registration.

The student will then register for REL 490 Research (Departmental Honors Project).

During the fall semester of senior year, the student will complete a rough draft of the project under the mentor’s guidance. On or before the last day of classes, he will submit a copy of the rough draft to his mentor and to the chairperson of the department.

Under the mentor’s guidance, the student will complete a revision of the proposal during the spring semester. By April 1 (or a date agreed upon at the beginning of the process by student and mentor) the student submits a final draft of the project, along with evaluative criteria, to the examination committee. The chairperson of the department is responsible for establishing the examination committee; it typically includes the mentor and two other department members. In addition, as a matter of courtesy, (s)he formally invites the Faculty Committee for Integral Honors to participate in the defense. (S)he schedules the date, time and place and publicizes the event widely on campus. The defense date should be early enough to allow for any necessary revisions required by the examination committee.

After the defense, the mentor, in consultation with the department chair and the examination committee, decides how well the student’s project has met its evaluative criteria and departmental standards. Upon a successful defense and completion of any revisions, the student is eligible for departmental honors at graduation.

Religious Studies and Education Programs

The religious studies department in collaboration with the education department offers a major program for those who plan a career in elementary education or teaching religion. The program consists of a major in religious studies with a minor in education. A student’s program is designed after consultation with the chairs of both departments.

Students who plan a career in elementary education, special education or teaching English as a second language, may receive New York state certification with a major in religious studies and a minor in education. For a typical schedule, please see the Typical Program page (p. 320).

Typical Program for Religious Studies Major with an Education Minor (Dual Childhood/Special Education Grades 1-6)

Course	Title	Credit Hours
Freshman Year		
First Semester		
COR 100	First Year Seminars: Transitions	3
EDU 200	Teaching in a Diverse Society	3
HST 110	World Civilization I	3
EAC Encountering Another Culture/Language (p. 61)		3
WRT 101	Critical Writing	3
Credit Hours		15
Second Semester		
PHL 110 or REL 200	Introduction to Philosophy or Religious Perspectives	3

EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
HST 111	World Civilization II	3
EAC Encountering Another Culture/Language (p. 61)		3
Theology (p. 61)		3

Credit Hours 15

Sophomore Year

First Semester

EDU 205	Childhood Learning and Special Needs	3
PHL 210	Moral Philosophy	3
REL 200	Religious Perspectives	3
Mathematics (p. 61)		3
Natural Science (p. 61)		3

Credit Hours 15

Second Semester

EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
ENG 210	Major Authors	3
REL/THE 300-level (with full-time faculty)		3
REL/THE Elective		3
PSY 101	Introductory Psychology	3

Credit Hours 15

Junior Year

First Semester

EDU 305	Prin & Methods of Multicultural Literacy	3
EDU 315	Plan, Assessing, Managing Inclusive Clsrm	3
ENG 310	Literature and Culture	3
REL/THE 300-level (with full-time faculty)		3
REL/THE Elective		3

Credit Hours 15

Second Semester

EDU 365	Adapting Literacy Lrn Stu W/Spec Needs	3
EDU 375	Strategies for Teaching Content in Inclusive Classrooms (1-6)	3
REL/THE 300-level (with full-time faculty)		3
IDS Interdisciplinary Studies (p. 61)		3
EDU 376	Managing Environ for Stu W/ Disabilities	3

Credit Hours 15

Senior Year

First Semester

EDU 405	Preservice Clinical Teaching Seminar	3
EDU 430	Supervised Preservice Teaching (grades 1-6)	6
EDU 431	Supervised Preservice Teaching (spe 1-6)	6

Credit Hours 15

Second Semester

REL/THE 400-level		3
COR 400	Senior Studies: Transformations	3
REL/THE Elective		3
Free Elective		3

Junior/Senior Capstone	3
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Credit Hours 15

Total Credit Hours 120

Religious Studies Minor

A student wishing to minor in religious studies must complete 15 credit hours in religious studies/theology.

Code	Title	Credit Hours
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Minor Requirements

REL 200	Religious Perspectives ¹	3
REL 300-399 ¹		3
Two religious studies/theology electives ²		6
REL/THE 400-level seminar ³		3

Total Credit Hours 15

¹ Fulfilled by core requirement

² One elective can be fulfilled by theology core requirement

³ Can be fulfilled by COR 400 if cross-listed with REL/THE

Faith and Social Justice Minor

Why Study Faith & Social Justice at Le Moyne?

The faith and social justice interdisciplinary minor provides interested students the opportunity to engage intellectually and practically the Jesuit emphasis on the service of faith and the promotion of justice. Through the exploration of various conceptions of faith, theoretical and religious perspectives on justice, social and political justice issues, and Catholic social thought, students will develop a deeper understanding of the relationship of faith and justice and their role in creating a more just society.

Opportunity

Students pursuing a minor in faith and social justice at Le Moyne College gain a rich, interdisciplinary understanding of the various meanings of faith and social justice and a chance to investigate their impact on a variety of significant moral and social issues affecting the world. Students also explore the interconnections between faith and social justice and their own engagement with social justice concerns and actions as well as the potential impact on their chosen careers.

Who Can Benefit?

- Students of any major
- Students interested in attending graduate school
- Students who are interested in social or environmental justice
- Those who want to gain a credential that complements their major and future careers (e.g., aspiring educators, lawyers, social entrepreneurs, journalists, medical practitioners, social workers)

Code	Title	Credit Hours
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Minor Requirements

THE 210	Faith and the Religious and Theoretical Roots of Social Justice	3
REL 425	The Faith That Does Justice	3
Select three of the following: (two of which must be outside of REL/THE; other courses may be added)		9

BSC 111	Ecology and the Environment	
ESS 260	Sustainability: Ecological Entrepreneurship	
ECO 322	Economics of Crime and Punishment	
ECO 335	Economics of Poverty	
HON 320	The World of the Other	
PHL 358	Philosophy of Race	
PSC 207	Power and Justice	
PSC 329	History of Latin American Social Movements	
PSC 334	Social Activism	
PSC 367	War, Peace and Violence	
REL 309	New Testament	
REL 400	Religion,Conflict,Peace/African Context	
SOC 241	Social Inequality	
SOC 325	Poverty & Social Justice in Legal System	
THE 175	Catholic Theology	
THE 232	Catholic Social Thought	
Total Credit Hours		15

SOFTWARE APPLICATIONS AND SYSTEMS DEVELOPMENT

Program Director: David Voorhees

This program's strength is in the liberal arts tradition - students receive broad exposure to other disciplines with a solid foundation in developing software applications and systems. The SASD program combines the strengths of Le Moyne's computer science and information systems programs in a complementary way while adhering to the latest curriculum guidelines for software engineering.

The software applications and systems development (SASD) program combines software programming and software design from the computer science (CS) program with business analysis and project planning from the information systems (IS) program. A significant difference between the SASD and CS programs are in the mathematics requirements.

The SASD program requires a student take either Mathematics for Business Majors or Brief Calculus while the CS program requires a student take Calculus I. If you have an interest in software development and information technology topics but find college-level Calculus too challenging, the SASD major is a good fit for you.

Student Learning Outcomes in Software Applications and Systems Development

Students who graduate from this program will be able to:

- Create, analyze, and explain the design of computational solutions.
- Create, analyze, and explain the security of computational solutions.
- Create computational solutions that are based on good analysis of the business and the system.
- Create computational solutions with sound project planning and management.
- Software Applications and Systems Development Major (B.S.) (p. 323)
- Software Applications and Systems Development Major (B.A.) (p. 324)
- Software Applications and Systems Development Minor (<http://collegecatalog.lemoyne.edu/arts-sciences/mathematics-computer-science/software-applications-systems-development-minor/>)
- Dual Major (B.S.) in Software Applications and Systems Development and Information Systems (p. 326)

Software Applications and Systems Development (B.S.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3

PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
CSC 175	Introduction to Algorithms and Program Design	4
CSC 185	Data Structures & Algorithms	4
CSC 276	Object Oriented Software Design	4
CSC 375	Design and Analysis of Algorithms	3
MIS 201	Introduction to Management Info Systems	3
MIS 375	Applied Systems Analysis	3
MIS 460	Managing Systems Projects	3
Four upper-level CSC or MIS electives from the following list		12
CSC 346	Software Operating Environments	
CSC 355	Programming Languages & Paradigms	
CSC 411	Introduction of Artificial Intelligence	
CSC 425	Introduction to Graphics	
CSC 431	Introduction to Robotics	
CSC 441	Secure Software Development in Mobile And Cloud Environments	
CSC 445	Networks & Cloud Secure Software Development	
MIS 425	Distributed Enterprise Systems	
MIS 455	Managing the Technological Enterprise	
MIS 478	Financial Telecomm & Cybersecurity	
MIS 480	Database Management Systems	
One capstone experience from the following: ²		
CSC 490	Internship in Computer Science	
CSC 496	Senior Capstone Project	
CSC 497	Senior Capstone Project	
CSC 498	Cooperative Education Experience	
Major Support Requirements		
Select one of the following:		3
MTH 120	Mathematics for Business Majors	
MTH 122	Brief Calculus	
MTH 123	Mathematics for Act Majors	
CSC 281	Discrete Mathematics	3
World Language or EAC Encountering Another Culture		6
One ethics course from the following:		3
PHL 347	Crisis Ethics: War, Pandemic and Social Collapse	
PHL 359	Ethics of Medical Technology	

REL 336	Comparative Religious Ethics & Social Concerns	
THE 237	Christian Social Ethics	
Natural science lab-based sequence		8
Total Credit Hours		120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² A student may take three of the upper-level CSC and MIS electives AND one capstone experience course. Or a student may take four of the upper-level CSC and MIS electives.

Course	Title	Credit Hours
Freshman Year		
First Semester		
CSC 175	Introduction to Algorithms and Program Design	4
MIS 201	Introduction to Management Info Systems	3
EAC Encountering Another Culture/Language (p. 61)		3
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		16
Second Semester		
CSC 185	Data Structures & Algorithms	4
Elective		3
EAC Encountering Another Culture/Language (p. 61)		3
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
Credit Hours		16
Sophomore Year		
First Semester		
CSC 276	Object Oriented Software Design	4
MIS 375	Applied Systems Analysis	3
ENG 210	Major Authors	3
HST 110	World Civilization I	3
Elective		3
Credit Hours		16
Second Semester		
MTH 120	Mathematics for Business Majors	3
SASD Elective		3
Social Science (p. 61)		3
PHL 210	Moral Philosophy	3
Elective		3
Credit Hours		15
Junior Year		
First Semester		
CSC 281	Discrete Mathematics	3
MIS 460	Managing Systems Projects	3
SASD Elective		3
ENG 310	Literature and Culture	3
Natural Science (p. 61)		4
Credit Hours		16

Second Semester		
CSC 346	Software Operating Environments	3
SASD Elective		3
Ethics Course		3
IDS Interdisciplinary Studies (p. 61)		3
Natural Science (p. 61)		4
Credit Hours		16
Senior Year		
First Semester		
CS Capstone Experience		3
CSC 375	Design and Analysis of Algorithms	3
COR 400	Senior Studies: Transformations	3
Theology (p. 61)		3
Elective		3
Credit Hours		15
Second Semester		
Religion (p. 61)		3
SASD Elective		3
VPA Visual & Performing Arts (p. 61)		1
Elective		3
Elective		3
Credit Hours		13
Total Credit Hours		123

Software Applications and Systems Development (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
CSC 175	Introduction to Algorithms and Program Design	4
CSC 185	Data Structures & Algorithms	4

CSC 276	Object Oriented Software Design	4
MIS 201	Introduction to Management Info Systems	3
MIS 375	Applied Systems Analysis	3
MIS 460	Managing Systems Projects	3
Four upper-level CSC or MIS electives from the following list		12
CSC 346	Software Operating Environments	
CSC 355	Programming Languages & Paradigms	
CSC 411	Introduction of Artificial Intelligence	
CSC 425	Introduction to Graphics	
CSC 431	Introduction to Robotics	
CSC 441	Secure Software Development in Mobile And Cloud Environments	
CSC 445	Networks & Cloud Secure Software Development	
MIS 425	Distributed Enterprise Systems	
MIS 455	Managing the Technological Enterprise	
MIS 478	Financial Telecomm & Cybersecurity	
MIS 480	Database Management Systems	
One capstone experience from the following: ²		
CSC 490	Internship in Computer Science	
CSC 496	Senior Capstone Project	
CSC 497	Senior Capstone Project	
CSC 498	Cooperative Education Experience	
Major Support Requirements		
Choose one of the following:		3
MTH 120	Mathematics for Business Majors	
MTH 122	Brief Calculus	
MTH 123	Mathematics for Act Majors	
CSC 281	Discrete Mathematics	3
World Language or EAC Encountering Another Culture		6
One ethics course from the following:		3
PHL 347	Crisis Ethics: War, Pandemic and Social Collapse	
PHL 359	Ethics of Medical Technology	
REL 336	Comparative Religious Ethics & Social Concerns	
THE 237	Christian Social Ethics	
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² A student may take three of the upper-level CSC and MIS electives AND one capstone experience course. Or a student may take four of the upper-level CSC and MIS electives.

Course	Title	Credit Hours
Freshman Year		
First Semester		
CSC 175	Introduction to Algorithms and Program Design	4
MIS 201	Introduction to Management Info Systems	3
EAC Encountering Another Culture/Language (p. 61)		3
WRT 101	Critical Writing	3

COR 100	First Year Seminars: Transitions	3
Credit Hours		16
Second Semester		
CSC 185	Data Structures & Algorithms	4
Elective		3
EAC Encountering Another Culture/Language (p. 61)		3
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
Credit Hours		16

Sophomore Year

First Semester		
CSC 276	Object Oriented Software Design	4
MIS 375	Applied Systems Analysis	3
ENG 210	Major Authors	3
HST 110	World Civilization I	3
Elective		3
Credit Hours		16
Second Semester		
MTH 120	Mathematics for Business Majors	3
SASD Elective		3
Social Science (p. 61)		3
PHL 210	Moral Philosophy	3
Elective		3
Credit Hours		15

Junior Year

First Semester		
CSC 281	Discrete Mathematics	3
MIS 460	Managing Systems Projects	3
SASD Elective		3
ENG 310	Literature and Culture	3
Elective		3
Credit Hours		15
Second Semester		
CSC 346	Software Operating Environments	3
SASD Elective		3
Ethics course		3
IDS Interdisciplinary Studies (p. 61)		3
Natural Science (p. 61)		3
Credit Hours		15

Senior Year

First Semester		
CS Capstone Experience		3
VPA Visual & Performing Arts (p. 61)		1
COR 400	Senior Studies: Transformations	3
Theology (p. 61)		3
Elective		3
Credit Hours		13
Second Semester		
Religion (p. 61)		3
SASD Elective		3
Elective		3
Elective		3

Elective	3
Credit Hours	15
Total Credit Hours	121

Dual Major (B.S.) in Software Applications and Systems Development and Information Systems

Dual Major (B.S.) in Information Systems and Software Applications & Systems Development

This program's strength is in the liberal arts tradition – students receive broad exposure to other disciplines with a solid foundation in developing software applications and systems. This dual major combines the strengths of Le Moyne's computer science and information systems programs, along with the management core requirements, in a complementary way while adhering to the latest curriculum guidelines for software engineering.

The software applications and systems development (SASD) program combines software programming and software design from the computer science (CS) program with business analysis and project planning from the information systems (IS) program. A significant difference between the SASD and CS programs are in the mathematics requirements. The SASD program requires a student to take either Mathematics for Business Majors or Brief Calculus while the CS program requires a student to take Calculus I. A significant difference between the SASD and IS programs is that the SASD program requires a student to earn a minor in any academic discipline, while the IS program requires a student to take the Business core courses (which is similar to earning a minor in business administration).

Le Moyne College expects its software applications and systems development graduates:

- Can demonstrate critical thinking skills, apply problem solving techniques, and construct various software artifacts as prescribed by a software development process.
- Are prepared for continued growth as a computing professional, are able to apply what they have learned, and can communicate their knowledge to others in an ethically responsible manner.
- Are prepared to work individually or in a collaborative environment.

Software Applications & Systems Development/ Information Systems

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3

PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
Select one of the following:		4-5
CSC 175	Introduction to Algorithms and Program Design	
Any 3 or 4 credit intro programming course which does not use Python and CSC 179 Transition to Python		
CSC 185	Data Structures & Algorithms	4
CSC 276	Object Oriented Software Design	4
One CSC elective:		3-4
CSC 346	Software Operating Environments	
CSC 355	Programming Languages & Paradigms	
CSC 411	Introduction of Artificial Intelligence	
CSC 425	Introduction to Graphics	
CSC 431	Introduction to Robotics	
CSC 441	Secure Software Development in Mobile And Cloud Environments, Web & Mobile Secure Software Development	
CSC 445	Networks & Cloud Secure Software Development	
One CSC capstone experience course (CSC 496, CSC 497, CSC 490, CSC 498)		
MIS 375	Applied Systems Analysis	3
MIS 460	Managing Systems Projects	3
MIS 480	Database Management Systems	3
MIS 455	Managing the Technological Enterprise	3

or MIS 425 Distributed Enterprise Systems

Electives

Free Electives 6

Total Credit Hours 120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Can be waived by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

VISUAL AND PERFORMING ARTS

Chair: Karel I. Blakeley

Program Director: Matt Chiorini (of Theatre Arts), Jennifer Gandee (of Visual Arts), Travis Newton (of Arts Administration), Edward Ruchalski (of Music)

Associate Professor: Karel I. Blakeley, Matt Chiorini, Travis Newton

Professor of Practice: Edward Ruchalski, Lindsey Voorhees

Adjunct Faculty: Ruth Arena, Julie Bridge, Robert Bridge, Deette Bunn, Stephen Butler, Joseph Carello, Andrew Carroll, Deborah Cunningham, Dana Digennaro, Julia Ebner, John Flaver, Jennifer Gandee, Melissa Gardiner, David Grindle, Todd Hobin, Carol Jacobe, Katya Krenina, David Moore, William Galloway Osborne III, Carolyn Pardee, Lydia Parkington, Caryn Patterson, Jeff Stockham, Miranda Traudt, Jessica Tumayjan, Catherine Underhill, Richard Williams, Sonya Williams

Professor Emeritus: Barry Darling

Artist-in-Residence: Jennifer Gandee

The department of Visual and Performing Arts (VPA) offers students opportunities in a wide range of creative expression and arts appreciation. The department includes a theatre arts major and minor, a Master of Science and a minor in arts administration, visual arts minor, dance minor and a music minor. Each program presents an array of classroom, studio and applied courses designed to encourage the education of the whole person.

Vision Statement

The VPA Department believes that creative expression enhances awareness of the world around us and reflects the basic human search for meaning. We value the pursuit of artistic expression through its processes and forms as fundamental to the development of individuals and their communities.

Mission Statement

The VPA Department provides all students opportunities for artistic engagement by offering instruction, participation in, and exposure to its component disciplines. The department inspires, challenges, and encourages students to combine creative and intellectual learning by communicating through the languages of art, music, theatre and dance.

Student Learning Outcomes in Theatre Arts

Acting and Performance

Students will create effective and well-prepared performances for a variety of audiences.

Technical Theatre and Design

Students will create effective and well-prepared designs for theatrical production.

Historical and Literary Context

Students will articulate the function and purpose of theatre in its historical and social context.

Collaboration

Students will produce fully-realized performances, designs and productions that are aesthetically meaningful and collaboratively prepared.

Opportunities

Students will access relevant and meaningful information according to the professional standards in the field of theatre.

- Arts Administration Minor (p. 339)
- Visual Arts Minor (p. 339)
- Music Minor (p. 340)
- Theatre Arts Major (B.A.) (p. 340)
- Theatre Arts Dual Major (p. 341)
- Theatre Arts Minor (p. 341)
- Dance Minor (p. 341)
- Visual Design Minor (p. 105)

Arts Administration (AAD)

AAD 100. Experiencing the Arts. 1 Credit Hour.

Students will be given the opportunity to view, evaluate, and critique the visual and performing arts in several different mediums. Course may not be repeated for credit. Students are required to also attend multiple arts events in the community and on campus as a component of their coursework. Course is only 5 weeks long. Please check course availability to see exact meeting dates.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: MUS 103, THR 100, ART 100

AAD 201. Arts Administration I. 3 Credit Hours.

An introduction to the world of arts administration, focusing on not-for-profit organizations and exploring the various types of arts organizations and management principles applied therein. Students will participate in discussions both in class and online, and will prepare to apply their knowledge in real-world settings through the arts administration internship (AAD 490).

Fulfills Core Requirement(s): VPA.

AAD 220. Special Topics. 3 Credit Hours.

A course sequence that offers thematically focused elective courses of current interest to instructors and students. Topics may include (but not limited to) fundraising, social media in the arts, or arts advocacy.

AAD 301. Arts Administration II. 3 Credit Hours.

An exploration of the financial issues relevant to the not-for-profit arts industry, including budgeting, financial management, and fund-raising. Students will actively participate in financial analysis activities, the creation of grant proposals, and the drafting of fundraising appeal letters. Prerequisites: AAD 201.

AAD 490. Arts Administration Internship. 3 Credit Hours.

Students will have the opportunity to complete a semester-long internship with a cultural organization as a part of this required course for the arts administration minor. Students will work closely with the faculty member supervising the internship, reporting to the faculty member as the internship progresses. Students will also evaluate the experience and relate it to their course of study in the arts administration program. Pass/fail grades only.

Prerequisites: AAD 201.

Art (ART)

ART 100. Experiencing the Arts. 1 Credit Hour.

Students will be given the opportunity to view, evaluate, and critique the visual and performing arts in several different mediums. Course may not be repeated for credit. Students are required to also attend multiple arts events in the community and on campus as a component of their coursework. Course is only 5 weeks long. Please check course availability to see exact meeting dates.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: AAD 100, MUS 103, THR 100

ART 105. Global Masterpieces: a Survey of World Art. 3 Credit Hours.

In this introductory course, students will experience the many facets of the dynamic visual language of art in order to develop skills in comprehension and appreciation of a variety of art forms. The course will encompass a selective number of works in drawing, painting, sculpture and architecture drawn from prehistoric times to the present including North and South America, Africa, Europe and Asia in order to convey a deeper understanding of the role that art plays in human history and culture. Open to all students.

Fulfills Core Requirement(s): VPA.

ART 120. Introduction to Visual Design. 3 Credit Hours.

This course introduces the elements of art and principles of design that create the language of visual communication. Through a variety of projects, in-class exercises, and homework assignments, students will engage in a rigorous creative process: brainstorming, conceptualizing, sketching, refining, and producing. Students will be introduced to a variety of media and techniques and will become more conscious of the conceptual, expressive, and perceptual qualities of their aesthetic decisions, so they can effectively communicate visually. Through exposure to everything from Grand Masters to Madison Avenue ads, students will learn from examples of artists and designers from the past and present who have contributed to the visual landscape, to foster an awareness of visual systems of different cultures, time periods, and contemporary artists and to develop the ability to ask critical questions. Slide presentations and sketchbook assignments will introduce a variety of interpretations on how visual thinkers have perceived and used visual concepts and elements in their own artwork.

Cross-listed Courses: CTS 120, CMM 120

ART 155. Politics and the Arts in Nazi Germany And Soviet Russia. 3 Credit Hours.

The course explores the interrelationship between politics and the arts in National Socialist Germany and the Soviet Union. A professor of music and a professor of history combine to offer students an intensive analysis of the art, music, and literature of the periods under study, within the context of a systematic comparison of the political and social structures of the two nations. Major musical works will be played and commented upon, and a full-period performance of works by Wagner, Weill, Shostakovich, Prokofiev, Shostakovich, and Kachaturian will conclude the course. Fulfills Core Requirement(s): Interdisciplinary Studies (IDS) and Visual and Performing Arts (VPA).

ART 220. Drawing. 3 Credit Hours.

This studio course examines the theory and practice of drawing. The goal is to gain confidence in drawing skills as students master the basic principles that form the foundation for visual arts by using traditional studio practice: drawing from observation and drawing as investigation of the visual world. Individually tailored instruction emphasizes the student's role in continuous artistic improvement through drawing, sketching, critical thinking, personal exploration, and study of art and artists of past and present. Work in pencil, charcoal, ink, pastel, and conte crayon. There is a lab fee associated with this course. No prerequisite. Fulfills Core requirement(s): VPA.

ART 223. Digital Illustration. 3 Credit Hours.

This course introduces the basic techniques of digital illustration and imaging. Students will create original artwork using Adobe Illustrator. The fundamental tools of this vector art program will be taught through a series of lectures, demonstrations, tutorials, and exercises. Students will create and manipulate images based on formal design principles and conceptual frameworks. Assignments will have an emphasis on concept, creativity, communication, technical achievement, and presentation. There is an additional lab fee of \$25. Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

ART 224. Introduction to Illustration. 3 Credit Hours.

This course introduces students to the illustration field and examines the effectiveness of illustration through fundamental principles of visual problem solving. From initial sketches to the development of finished images students are exposed to a variety of methods used in the field in order to communicate, illuminate, motivate, stimulate curiosity, and to tell stories. Assignments range from editorial illustration, packaging, and poster design to book illustration and other exploratory work. The goal of this course is to help students connect the world of concepts and ideas to image making within the context of illustration assignments. Note: There is a lab fee associated with this course. Fulfills Core Requirement(s): VPA.

ART 226. Fashion Illustration. 3 Credit Hours.

In this fashion illustration course, students learn how to create individual collections for fashion design by developing skills in concepts, collaging, figure drawing, fabric rendering, and design development. By using various mediums and techniques, each student is encouraged to develop a personal graphic style as it relates to their final collection of fashion illustrations. There is a lab fee associated with this course. Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

ART 230. Painting. 3 Credit Hours.

Using a variety of approaches, students are instructed in the skills and techniques needed to produce a finished acrylic painting. The basic steps of stretching canvas begin a process that includes instruction in such important components as composition, tonal values and design. No prerequisites. There is a lab fee associated with this course. Fulfills Core requirement(s): VPA.

ART 235. Watercolor Painting. 3 Credit Hours.

A studio course exploring traditional and nontraditional use of watercolor in compositional form. Subject matter may include still life, landscape, and the human figure. No painting or drawing experience necessary. There is a lab fee associated with this course. Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

ART 240. Black and White Photography. 3 Credit Hours.

A studio course in which the creative aspects of digital black and white photography are explored. Shooting assignments are geared towards expanding students' creative vision and encouraging personal expression. Traditional and experimental approaches to image making will be presented. Students will have the opportunity to sign out digital SLR cameras for shooting assignments. No prerequisites. A compact digital camera or digital SLR camera is required. There is a lab fee associated with this course. Fulfills Core requirement(s): VPA.

ART 243. Color Photography. 3 Credit Hours.

A studio course in which the creative aspects of color digital photography are explored. Shooting assignments are structured to explore both the visual and emotional aspects of color and to develop a personal approach to color image making. Students will have the opportunity to sign out digital SLR cameras for shooting assignments. No prerequisites. A compact digital camera or digital SLR camera is required. Fulfills Core: VPA. Note: There is a lab fee associated with this course.

ART 247. Studio Photography. 3 Credit Hours.

ART 247 is an introductory level course in studio photography, which includes lectures, demonstrations, visual presentations, group critiques of student work, and supervised studio and lab work. Shooting assignments are designed to provide a survey of various studio photography disciplines, including location studio work, portraiture, still life, fashion, and motion photography. Students will be encouraged to develop their own personal approach to each of these disciplines. A digital SLR camera is supplied by the department. There is a lab fee associated with this course. Fulfills Core Requirement(s): VPA.

ART 248. Fantasy Photography. 3 Credit Hours.

ART 248 is an introductory level photography course. Alternative methods of creating photographs, including photomontage, scanography, blurred motion, and collage will be explored to create images that are bizarre, funny, dreamlike. The work of Surrealist photographers will also be explored. Classroom time will include lectures, visual presentations, discussion of student work, and supervised lab work. Students will have the opportunity to sign out digital SLR cameras for shooting assignments. No prerequisites. Fulfills Core: VPA. Note: There is a lab fee associated with this course.

ART 260. Sculpture. 3 Credit Hours.

This studio course introduces students to artistic practice in three dimensions using a variety of materials and approaches. Problems require students to address materials in terms of cultural and historical context as well as space and environment. Assignments will utilize a variety of mediums including traditional (wood, plaster, clay) and non-traditional (fabric, found objects, etc.). No prerequisite. Note: There is a lab fee associated with this course. Fulfills Core requirement(s): VPA.

ART 265. Introduction to Ceramics. 3 Credit Hours.

This studio course is designed to introduce students to the basic methods of constructing and forming clay. In this basic hand-building course, students will concentrate on three basic methods of working with clay: pinch, coil, and slab construction. Class assignments will also familiarize students with certain methods of decorating, glazing, and firing ceramic objects. Students will develop a working knowledge of shop usage and safety as well as being involved in every step of the ceramic process from conceptualization to loading kilns. Regular slide lectures, handouts, and museum research will give visual reference in areas of personal ceramic interest. Note: There is a lab fee associated with this course. Fulfills Core requirement(s): VPA.

ART 390. Independent Study. 1-3 Credit Hours.

A student who wishes to pursue advanced study in visual art (drawing, painting, sculpture, photography, etc.) for academic credit must submit, prior to registration: a proposed plan that includes a description of the project and its goals, the methods to be followed, schedule of work and supervision, end product, evaluation procedure, and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the Academic Dean. The usual prerequisite is one or more courses in visual art and permission of department chair prior to registration. The course may be repeated for credit not to exceed a total of 6 credits.

Music (MUS)

MUS 100. Fundamentals of Music. 3 Credit Hours.

The study of basic and essential music skills including: note identification, scales, solfege, chords, listening skills, and music terminology. Students will participate in online journaling and discussion forums. This course is designed to provide foundational music skills that will allow the student to further their study in history, theory and performance. The course is open to all students. Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

MUS 101. Music History - The Western Tradition. 3 Credit Hours.

An introduction to the various styles that form the Western tradition in music. Beginning with the earliest notated musical forms of the 13th and 14th centuries and continuing through the modern period. Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

MUS 102. Music Industry. 3 Credit Hours.

Introduces students to the foundations of the music industry, including artist-management relationships, the business of recording and touring, publishing, and copyright law.

MUS 103. Experiencing the Arts. 1 Credit Hour.

Students will be given the opportunity to view, evaluate, and critique the visual and performing arts in several different mediums. Course may not be repeated for credit. Students are required to also attend multiple arts events in the community and on campus as a component of their coursework. Course is only 5 weeks long. Please check course availability to see exact meeting dates.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: AAD 100, THR 100, ART 100

MUS 116. Introduction to Music Theory. 3 Credit Hours.

An introduction to diatonic and simple chromatic harmony; basic compositional skills. Chord progressions, inversions, cadences, seventh chords and secondary dominants will be among the topics treated. Frequent assignments in composing short musical exercises. Students must be able to read musical notation. Some familiarity with a keyboard instrument is helpful.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

MUS 121. Musical Theatre History. 3 Credit Hours.

Students will study the development of musical theatre, ranging from the dramas of ancient Greece to the megamusicals of today. Students will also study the theatrical review, utilizing this knowledge to critique filmed and live performances. Along the way, students will recognize the link between the development of the musical and societal trends and events.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: THR 121

MUS 208. Musical Theatre Workshop. 3 Credit Hours.

Through rehearsals, discussions, and coursework, students will gain in-depth knowledge pertaining to the discipline of musical theatre, including intensive direction (including stage direction, choreography, and musical direction), all geared toward the final performance of selections from various works of musical theatre.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

MUS 217. Neurons & Notes: The Science of Music. 3 Credit Hours.

The science of music is studied from a number of relevant points of view, including basic acoustic principles; the elements of music; music cognition and perception; and the neurobiological basis of music expectations and preferences. Questions related to the nature of musical sound, the physical aspects of hearing, cultural imprinting and the music instinct are examined. Fulfills Core Requirements: Visual and Performing Arts (VPA) and Interdisciplinary Studies (IDS).

MUS 218. Live Sound. 1 Credit Hour.

Students will be introduced to the basics of live sound operations, including the basics of setting up a sound system and operating a soundboard and accessories. A key component of the course will be hands-on experience running sound for events on campus, including music, theater, rock bands, and much more. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: THR 218

MUS 225. Guitar and Songwriting Skills. 1 Credit Hour.

This course is designed for students wishing to develop basic skills as guitar players and songwriters. Class meetings are like workshops where students perform their songs for each other. Students may take the course for more than one semester, as the curriculum allows each class member to advance at their own pace.

Prerequisites: Student must be able to demonstrate basic guitar skills.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

MUS 226. The History of Rock and Roll. 3 Credit Hours.

This course covers the whole spectrum of Rock and Roll from its roots in blues and early country to the post-modern internet-driven age. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 227. American Popular Song: A History. 3 Credit Hours.

The class will survey the major developments in American songwriting from the Civil War to the present, with a focus on storytelling in song, the historical development of song, and critical listening as a means of understanding a song's meaning and cultural significance. Students will be introduced to many styles of songwriting, including Folk, Broadway, Tin Pan Alley, Rock, and Hip Hop. The question "What makes a hit?" will be addressed through song analysis. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 241. Concept Album: From Guthrie to Radiohead. 3 Credit Hours.

Students will learn the skill of active listening and develop a critical framework for listening to, thinking about and responding to music. This attention to detail will enable the student to "see the big picture", to make connections, and to understand how the details help to build a cohesive large-scale work. The course will focus on the history of the concept album from Woody Guthrie to Radiohead and cover many genres, musical techniques and song forms. There will be a heavy emphasis on listening and written response. The following questions will be examined: What actually happens in the details of a musical work that enables the listener to understand the work as a unified whole? What is the composer's intent: is it to tell a story, to describe a state of mind, or to comment on society? Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

MUS 379. Music Journalism. 3 Credit Hours.

This writing course teaches students how to report on all aspects of music—from concert reviews to performer profiles, from musician retrospectives to articles about non-performance aspects of music (e.g., the recording industry, instrument makers). To familiarize students with the history of music journalism and provide models for writing, readings will be drawn from prominent music magazines such as Rolling Stone, Creem, Crawdaddy!, Blender, and others—as well as from places where music journalism frequently appears today, especially blogs and podcasts. The class will consider the ways in which music journalism has changed in response to the technologies through which music is made available to listeners. Students will write several pieces of original music journalism of various lengths.

Prerequisites: WRT 101.

Cross-listed Courses: CMM 379

MUS 384. The Film Sound Track. 3 Credit Hours.

Throughout recorded history, music has been an important part of human dramatic expression in ways that transcend mere spoken words and visual imagery. For more than a century of the motion picture art, music has played an integral, yet often unnoticed, role in defining the filmgoing experience. The main objective of this course is for students to develop skills in analyzing the sound track of a film, music's role in the sound track, and the relation of non-diegetic sound to image (especially relating to music) on small-scale and large-scale (narrative) levels. The course develops critical listening and viewing skills, but it also offers a particular extension of film history scholarship, one that focuses on the three nodal points in the history of film sound: the introduction of sound, the introduction of stereo, and the introduction of digital sound. We will explore the ways in which each of these technological advances affects the structural relationships that occur among three relatively autonomous components of the soundtrack—dialogue, music and sound-effects—with particular focus on non-diegetic music.

Prerequisite: WRT 101.

Cross-listed Courses: CMM 384

MUS 392. Independent Study (Music Theory). 2 Credit Hours.**MUS 394. Choral Ensembles. 1 Credit Hour.**

Participation in a professionally directed co-curricular college choral organization performing a broad variety of musical literature appropriate to the particular ensemble. Ensembles include the Le Moyne College Singers (40+ voices); Chamber Singers (12 voices); and Jazzuits (16 voices). Attendance at all regular and special rehearsals plus performances on and off campus scheduled at the beginning of each semester. This course may be repeated for up to six credits. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 394A. Choral Ensembles: Jazzuits. 1 Credit Hour.

The Jazzuits is a vocal jazz ensemble of 16-20 vocalists and accompanied by piano, bass and drums. The ensemble performs a variety of jazz styles along with some pop music. Performances take place on campus and within the Syracuse community. Permission of instructor required for registration. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 394B. Choral Ensembles: Singers. 1 Credit Hour.

The Le Moyne College Singers perform a variety of musical styles and specialize in musical theater repertoire. Rehearsals culminate in multiple concerts throughout the semester. Permission of instructor required for registration.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

MUS 394C. Choral Ensembles: Chamber Singers. 1 Credit Hour.

The Le Moyne College Chamber Singers perform mostly classical repertoire, including madrigals, operettas and works by modern classical composers, and consists of 16 voices or less. Rehearsals culminate in public performances at the end of each semester.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

MUS 395. Instrumental Ensembles. 1 Credit Hour.

Participation in a professionally directed co-curricular college instrumental organizations performing a broad variety of musical literature appropriate to the particular ensemble. Ensembles include the Le Moyne College Chamber Orchestra, Jazz Ensemble, and Rock Ensemble. Attendance at all regular and special rehearsals plus performances on and off campus scheduled at the beginning of each semester. This course may be repeated for up to six credits. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 395A. Inst Ensembles: Symphony Orchestra. 1 Credit Hour.

The Le Moyne College Symphony Orchestra boasts full instrumentation (featuring strings, woodwind, brass, and percussion instruments) and performs multiple concerts both on and off campus each semester. The orchestra performs music from all genres, including classical, film, pop, Broadway, and more.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

MUS 395B. Instrumental Ensembles: Jazz Ensemble. 1 Credit Hour.

The Le Moyne College Jazz Ensemble aims to replicate the classic big band sound, rehearsing and performing standard jazz literature and styles. instrumentation consists of saxophones, trumpets and trombones (with an occasional flute or clarinet) and a rhythm section of piano, bass, guitar and drums. Rehearsals culminate in public performances at the end of each semester.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

MUS 395C. Instrumental Ensembles: Rock Ensemble. 1 Credit Hour.

The Le Moyne College Rock Ensemble explores the world of rock music from 1955 to the present. Students listen to, discuss and arrange songs, in addition to collaborating on original songwriting. Rehearsals culminate in public performances at the end of each semester.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

MUS 396. Applied Music I. 1 Credit Hour.

The study of musical performance techniques through private lessons in either voice or an instrument. One half-hour tutorial per week with expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA). Includes courses MUS 396A-MUS 396S.

MUS 396A. Applied Music I: Oboe. 1 Credit Hour.

The study of musical performance techniques through private oboe lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396B. Applied Music I: Flute. 1 Credit Hour.

The study of musical performance techniques through private flute lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396C. Applied Music I: Clarinet. 1 Credit Hour.

The study of musical performance techniques through private clarinet lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396D. Applied Music I: Saxophone. 1 Credit Hour.

The study of musical performance techniques through private saxophone lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396E. Applied Music I: Trumpet. 1 Credit Hour.

The study of musical performance techniques through private trumpet lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396F. Applied Music I: Trombone. 1 Credit Hour.

The study of musical performance techniques through private trombone lessons in either voice or an instrument. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396G. Applied Music I: Horn. 1 Credit Hour.

The study of musical performance techniques through private horn lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396H. Applied Music I: Violin. 1 Credit Hour.

The study of musical performance techniques through private violin lessons in either voice or an instrument. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396I. Applied Music I: Viola. 1 Credit Hour.

The study of musical performance techniques through private viola lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396J. Applied Music I: Cello. 1 Credit Hour.

The study of musical performance techniques through private cello lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396K. Applied Music I: Bass. 1 Credit Hour.

The study of musical performance techniques through private bass lessons in either voice or an instrument. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396M. Applied Music I: Percussion. 1 Credit Hour.

The study of musical performance techniques through private percussion lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396N. Applied Music I: Piano. 1 Credit Hour.

The study of musical performance techniques through private piano lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396O. Applied Music I: Guitar. 1 Credit Hour.

The study of musical performance techniques through private guitar lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396Q. Applied Music I: Voice. 1 Credit Hour.

The study of musical performance techniques through private voice lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 396S. Applied Music I: Harp. 1 Credit Hour.

The study of musical performance techniques through private harp lessons. One half-hour tutorial per week with the expectation of individual practice of three hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397. Applied Music II. 2 Credit Hours.

The study of musical performance techniques through private lessons in either voice or an instrument. One hour long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA). Includes courses MUS 397A - MUS 397S.

MUS 397A. Applied Music II: Oboe. 2 Credit Hours.

The study of musical performance techniques through private oboe lessons. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397B. Applied Music II: Flute. 2 Credit Hours.

The study of musical performance techniques through private flute lessons. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397C. Applied Music II: Clarinet. 2 Credit Hours.

The study of musical performance techniques through private clarinet lessons in either voice or an instrument. One hour-long tutorial per week with expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397D. Applied Music II: Saxophone. 2 Credit Hours.

The study of musical performance techniques through private saxophone lessons. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397E. Applied Music II: Trumpet. 2 Credit Hours.

The study of musical performance techniques through private trumpet lessons in either voice or an instrument. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397F. Applied Music II: Trombone. 2 Credit Hours.

The study of musical performance techniques through private trombone lessons. One hour-long tutorial per week with expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397G. Applied Music II: Horn. 2 Credit Hours.

The study of musical performance techniques through private horn lessons. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397H. Applied Music II: Violin. 2 Credit Hours.

The study of musical performance techniques through private violin lessons. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397I. Applied Music II: Viola. 2 Credit Hours.

The study of musical performance techniques through private viola lessons in either voice or an instrument. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397J. Applied Music II: Cello. 2 Credit Hours.

The study of musical performance techniques through private cello lessons in either voice or an instrument. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397K. Applied Music II: Bass. 2 Credit Hours.

The study of musical performance techniques through private bass lessons in either voice or an instrument. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397M. Applied Music II: Percussion. 2 Credit Hours.

The study of musical performance techniques through private percussion lessons. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397N. Applied Music II: Piano. 2 Credit Hours.

The study of musical performance techniques through private piano lessons in either voice or an instrument. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397O. Applied Music II: Guitar. 2 Credit Hours.

The study of musical performance techniques through private guitar lessons. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397Q. Applied Music II: Voice. 2 Credit Hours.

The study of musical performance techniques through private voice lessons. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397S. Applied Music II: Harp. 2 Credit Hours.

The study of musical performance techniques through private harp lessons. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

MUS 397T. Applied Music II: Tuba. 2 Credit Hours.

The study of musical performance techniques through private harp lessons. One hour-long tutorial per week with the expectation of individual practice of four hours per week. Note: Students must pay an additional fee per semester. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

Theater (THR)

THR 100. Experiencing the Arts. 1 Credit Hour.

Students will be given the opportunity to view, evaluate, and critique the visual and performing arts in several different mediums. Course may not be repeated for credit. Students are required to also attend multiple arts events in the community and on campus as a component of their coursework. Course is only 5 weeks long. Please check course availability to see exact meeting dates.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: AAD 100, MUS 103, ART 100

THR 105. Introduction to Theatre. 3 Credit Hours.

A survey of theatre art, past and present, with a behind-the-scenes examination of the concepts and personnel involved in its creation. Class projects are intended to give students introductory experience with playwriting, acting, directing design and theatre criticism. Fulfills Core requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: ENG 105

THR 110. Stagecraft. 3 Credit Hours.

This course offers a practical introduction to the backstage workings of technical theatre including principles, methods and materials. Areas of study include scene construction, scenic artistry, lighting, sound and costuming.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 121. Musical Theatre History. 3 Credit Hours.

Students will study the development of musical theatre, ranging from the dramas of ancient Greece to the megamusicals of today. Students will also study the theatrical review, utilizing this knowledge to critique filmed and live performances. Along the way, students will recognize the link between the development of the musical and societal trends and events.

Cross-listed Courses: MUS 121

THR 170. Core Movement Concepts. 3 Credit Hours.

This introductory course offers students a supportive, studio-class environment in which to explore dance genres including but not limited to ballet, modern, jazz, Pilates/Conditioning, musical theater, vernacular styles, and folk dances. While building body awareness, strength, and flexibility students will gain an understanding of the fundamentals of human movement through space and time and their social and cultural significance and context.

THR 203. Voice and Movement. 3 Credit Hours.

This fundamentals course will explore basic processes of vocal and physical performance, recognition of controllable elements in speech and the body, and strategies for maximizing presence and presentation as an actor or performer. Students will be given daily opportunity to improve flexibility, strength, physical and vocal expression, pronunciation, and articulation in a supportive studio-course setting.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 205. Acting I. 3 Credit Hours.

This course is a hands-on exploration of the creative process, focusing on the attainment of fundamental acting tools, terms, techniques and their application to working with dramatic texts. Primarily focused on Theatre Majors, minors, and students with previous acting experience, this fast-paced technique-focused course will place special attention on the actor's self-awareness and collaboration with other actors through the use of sensory exercises, textual analysis, and scene study.

Prerequisite: WRT 101 or permission of instructor.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 210. Fundamentals of Design for Theatre. 3 Credit Hours.

A survey of the visual elements and techniques necessary for designing in the theatre. Projects are intended to introduce basic skills in perspective and figure drawing, drafting, painting and modeling as well as to explore aesthetic and practical problems in design. Prerequisite(s): THR 105 or permission of the Department Chair.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

THR 218. Live Sound. 1 Credit Hour.

Students will be introduced to the basics of live sound operations, including the basics of setting up a sound system and operating a sound board and accessories. A key component of the course will be hands-on experience running sound for events on campus, including music, theater, rock bands and much more.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

Cross-listed Courses: MUS 218

THR 240. Applied Theatre: Community Based Learning. 3 Credit Hours.

This course is an exploration into methods of using theater as a vehicle for cross-cultural exchange and building community. Devised and improvisational theatre will provide tools with which to encounter underserved communities and initiate meaningful creative dialogue. Through discussion, role-play activities and composition assignments rehearsed in and out of the classroom, students will study theatre and performance as a platform on which to meet neighbors in a heightened, impactful way. Course may be repeated one time for credit.

Prerequisites: THR 105 or permission of the instructor.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 250. Stage Management Workshop. 1 Credit Hour.

An introduction to the basics of theatrical stage management. Topics covered are preparation for rehearsal, rehearsal process, tech rehearsal procedures, and performance management. This work shop meets in four full-day sessions and includes both lecture and practical exercises. Participants will also have an opportunity to observe professional stage managers in their working environment.

THR 260. Theatre Practicum. 1-3 Credit Hours.

Theatre majors are required to accumulate a total of three credit hours of production experience working backstage on a variety of events. The amount of credit varies depending on the complexity of each position's responsibility and is typically spread over six semesters. Positions include but are not limited to scenery and costume construction, stage lighting, audio, run crew and assistant stage management. Pass/fail grades only.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 265. Theatre Performance Practicum. 1 Credit Hour.

Upon acceptance following audition, student actors rehearse and perform in theatrical productions under faculty direction. May be repeated for up to three credits. Pass/fail grades only.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 270. Bodies in Motion: Experiential Anatomy. 3 Credit Hours.

Bodies In Motion is designed to give students a unique and specific understanding of their own human anatomy and biomechanics. Technical knowledge absorbed via lecture and text will be applied and understood through the experience of ballet-based dance technique and somatic exploration. Learning human anatomy in this course will prepare students to care for themselves and remain healthy throughout life. This course will not fulfill prerequisite admissions requirements for health professional schools. Fulfills Core Requirements: Visual and Performing Arts (VPA) and Interdisciplinary Studies (IDS).

THR 271. Ballet Dance Technique. 3 Credit Hours.

This course is structured to enhance and nurture previous and new dance students in their vocabulary and technique with relation to Classical Ballet, its impact with regard to strengthening and toning the body, and its relation to other dance styles (ballet is commonly referred to as the foundation of all dance forms). The class will be comprised of "barre" exercises, "centre" exercises, core work that will develop and educate students in the areas of healthy alignment/placement and carriage, strengthening of muscles, stretch and toning, etc. Core work (using classical and modern musical selections) will include across the floor progressions/combinations, and petite/medium and grande allegro exercises for cardio vascular development.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 272. Body Conditioning Through Ballet. 3 Credit Hours.

This course is structured to enhance and nurture previous and new dance students in their vocabulary and technique with relation to Classical Ballet and its impact with regard to strengthening and toning the body, its impact and relation to other dance forms (commonly referred to as the foundation of all dance forms), and the relations/differences in training the body and its muscles compared to various athletic training. The class will be comprised of "barre" exercises, "centre" exercises, core work and develop and educated the students in the areas of healthy alignment/ placement and carriage, strengthening of muscles, breathing with regard to exercises, stretch & toning, core work, technical aspects, which related to other dance forms, across the floor progressions/combinations, and including petite/medium and grande allegro exercises for cardio vascular development. Various musical selections including classical and contemporary, will be utilized in the class accompanying all exercises. Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

THR 273. Jazz Dance Technique. 3 Credit Hours.

This course, which attends to the development and vocabulary of basic jazz dance technique, will also explore historical and contemporary jazz dance artists and choreographers. Performance techniques emphasize body alignment, coordination, strength, flexibility, and musicality, while the academic focus is on research into the history of jazz and its components as well as entry-level choreography in composition. Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 275. Contemporary Dance Technique. 3 Credit Hours.

Explorations of techniques, creative aspects, and theoretical concepts of modern dance including proper body alignment and mechanics of breathing, musicality, and phrasing. Structural improvisations will be introduced, as will verbal and movement vocabulary. Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 277. Musical Theatre Dance. 3 Credit Hours.

This course will explore and introduce various choreographic and directorial approaches to creating Musical Theatre Dance as related to the Broadway Stage. A technique oriented Jazz/Ballet based warm-up developed to address placement, flexibility, musicality, vocabulary and technique will be given with the later centre work geared toward varying choreographic styles and repertoire pertaining to Musical Theatre/ Broadway productions. Character creation and intention within the dance movement and musical selection will be developed and nurtured. Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 280. Dance Choreography. 3 Credit Hours.

Choreography is the art of creating meaningful movement in space and time. This course is an introduction to dance composition designed to teach the basic elements of the art of choreography, as well as tools and techniques for creating dances. A variety of dance genres and styles will be explored. Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 281. Choreography Practicum. 1 Credit Hour.

Upon acceptance of application, student choreographers attend 15 hours of instructional workshop concurrent with choreography, rehearsal and performance of original work in student dance concert. May be repeated for up to three credits. Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 302. The Western Drama Tradition. 3 Credit Hours.

A study of major periods of theatrical development from the Greeks and Romans through the eighteenth century, with emphasis on dramatic literature in relation to performance conditions and cultural backgrounds. Prerequisite: WRT 101 and either ENG 200, ENG 210, or ENG 218.

Cross-listed Courses: ENG 302

THR 305. Advanced Acting: Methods and Styles. 3 Credit Hours.

A scene study course which introduces students to the basic elements of acting styles, such as realism, lyric and classic, gestural and mannered comedy. Instruction is studio-based with students presenting scenes for criticism and discussion. Prerequisite: THR 205 or permission of instructor.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 306. Advanced Acting: Topics in Performance. 3 Credit Hours.

An in depth scene study course dedicated to the examination of one particular acting style. Topics may include either genres or playwrights. Examples are performance studies in the style of: Bertolt Brecht, William Inge, Oscar Wilde, Restoration Comedy, Greek Tragedy, Victorian Melodrama and others. May be repeated for credit. Prerequisites: THR 205 or permission of the instructor.

Fulfills Core Requirement(s): Visual and Performing Arts(VPA).

THR 307. Acting Shakespeare. 3 Credit Hours.

This advanced acting course exposes the student to specific technical issues involved in acting in Shakespearean plays. The course will take students through text analysis, consideration of verse drama, vocal issues specific to the form, as well as issues common to all dramatic performance. Students will perform a variety of scenes and monologues from a comedy, a tragedy, and a history play. Prerequisite: THR 205 or permission of instructor.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 310. Staging French Theater. 3 Credit Hours.

A course in French literature in which students experience performing plays in French, some of these in front of an audience. Plays and / or scene selections taken from the repertoire of the medieval, classical, eighteenth century and contemporary French theater. Students will analyze plays for structure, style and themes. Works selected will be studied not simply as objects for performance but also for their literary merit. Class conducted in French. Theater students and others with the requisite skills in French are also invited to enroll in this course. Prerequisites: Any FRN 200 level course.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

Cross-listed Courses: FRN 410

THR 314. Costume Design. 3 Credit Hours.

An introduction to costume design and production techniques, this course provides a basic understanding of the elements of costume design, research methods, rendering and presentation, as well as practicum experience. Prerequisite: THR 105 and Sophomore status or permission of instructor.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

THR 315. Scene Design. 3 Credit Hours.

This course examines the procedures and practices of contemporary set designers, for initial concept to finished scenic environment. Students develop theoretical stage designs to gain experience in the design process using historical research, script analysis, collage, sketches, and scenic models.

Prerequisite: THR 105 and Sophomore status or permission of instructor.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

THR 317. Lighting Design. 3 Credit Hours.

A study of the technology and aesthetics of designing light for the stage. Students receive hands-on experience with the fundamentals of electricity and wiring, theatrical lighting equipment and procedures. Assignments involve designing lights for performances in theater and dance.

Prerequisite: sophomore status or permission of instructor.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

THR 318. Topics in Technical Theatre. 1-3 Credit Hours.

Introduction to basic methods of costume construction including hand and machine sewing, fabric preparation and cutting, simple alterations, and commercial pattern use and garment construction. Students will complete several projects including pajama pants, a sewing sampler, zippers and button holes, basic patterning, and a final garment of their choice. Class also includes lectures on shop organization, job positions, costume materials, and policies. Different topics carry different course credit, as determined by the department. This course may be repeated for credit.

THR 319. Elizabethan and Jacobean Drama. 3 Credit Hours.

The course will focus on popular non-Shakespearean plays written and performed in England during the late 16th and early 17th centuries. Special attention will be given to comedic and tragic traditions and to issues of class, politics, and gender.

Prerequisites: WRT 101 and ENG 200, ENG 210 or ENG 218.

Cross-listed Courses: ENG 319

THR 330. Literary London. 3 Credit Hours.

This course examines literature about London, one of the world's major cities, produced in England during the 18th and 19th centuries. We will study selected texts - poetry, fiction, non-fiction, and plays - that consider London's diversity and its significance as a cultural and commercial center, reflect on the social, political, philosophical, and religious ideas that have inspired representations of London, and recognize the contribution that London has made to English literature. The course is open to anyone with an interest and enthusiasm for the subject. It satisfies departmental requirements for major electives in the literature of the 18th and 19th centuries and, for theatre majors, one of the literature requirements. Students enrolled in this course will participate in a twelve-day study tour of London and its environs during January break. Additional fees will be required.

Prerequisites: WRT 101 and ENG 200, ENG 210, or ENG 218.

THR 335. Devised Theatre. 3 Credit Hours.

This course is an exploration into the methods of creating dynamic and spontaneous theatre that maximizes the creative potential of each participant through the creation of group-project. Rather than the traditional playwright-director-actor-designer roles, this ensemble-generated method of play-making gives everyone an equal voice in and responsibility for the creative process. Devised theatre incorporates elements of acting, directing, dance, movement, voice, playwriting, stagecraft and more, and in this course we will investigate Devised Theatre through in-class exercises and long-form compositions rehearsed and created in and out of the classroom towards generating an original final presentation for an audience.

Prerequisites: THR 105 or permission of the department chair.

THR 340. Directing. 3 Credit Hours.

An introduction to the art and craft of directing for the theatre. Students will study the history, technique and methodology of directing through readings, in-class discussion, scene study, and studio work.

Prerequisites: THR 205 plus six hours of theatre courses, junior or senior standing or permission of the instructor.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

THR 365. Irish Drama and Performance. 3 Credit Hours.

This course will explore Irish drama and the history of the Irish stage; including plays by prominent Irish playwrights- Yeats, Lady Gregory, Synge, Shaw and others. By relating each play to Irish nationalism, students will gain an understanding of what it means to be Irish and the importance of literature during the Irish Literary Revival and Gaelic Revival during the late 19th and early 20th Centuries. As a final project, students will devise their own theatre piece using the themes and ideas presented during their study of Irish dramatic literature, exploring what it means to have a national identity and the importance of theatre in Ireland. Using their knowledge of Irish dramatic literature, students will travel to Ireland to work with the Gaiety School of Acting in their actors training program and to explore Irish culture through theatre's lens. Note: This course includes a required travel component and has additional travel expenses associated with it.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA)).

THR 368. Modern American Drama. 3 Credit Hours.

A survey of the major American playwrights beginning O'Neill and normally including Maxwell Anderson, Rice, Odets, Miller, Albee, Wilder, Saroyan, and Williams.

Prerequisites: WRT 101 and ENG 210 or ENG 218.

Cross-listed Courses: ENG 368

THR 369. Modern European Drama. 3 Credit Hours.

A study of representative plays of European dramatists from the mid-19th century to mid-20th centuries.

Prerequisite: WRT 101 and ENG 210.

Cross-listed Courses: GWS 357, ENG 369

THR 371. Critical Approaches to Film. 3 Credit Hours.

An introduction to film genre, genre theory and film criticism, the course will examine the generic conventions that govern production and reception of film texts. Film genres may include the screwball comedy, the melodrama, the western, the musical, the gangster picture, film noir and others.

Prerequisites: WRT 101, and ENG 200, ENG 210, or ENG 218.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

Cross-listed Courses: CMM 380, GWS 351, ENG 371

THR 372. History of Film: Beginnings to 1940. 3 Credit Hours.

This course will survey major developments in cinema from the advent of the medium near the end of the nineteenth century, through the emergence of a syntax for narrative film during the silent era, to the arrival and entrenchment of the sound film in the late 1920s and early 1930s. The nature of the course is such that our concerns will be manifold, but they will surely include attention to the following: the work of several pioneers of the medium-the Lumiere brothers, Thomas Edison (and his major collaborator William Kennedy Laurie Dickinson), Georges Melies, and Edwin S. Porter; D.W. Griffith's central role in the creation of a "language" for moving images and his equally significant role in turning film into a popular medium; some of the formal experiments that took place in Germany in the 20s-German expressionism, in particular, as well as the Kammerspielfilm; Soviet montage; French impressionism and surrealism; the great Hollywood comics of the 20s; the development of sound technology and its impact on film form; the importance of genre in the development of the film industry; and French poetic realism. Without scanting attention to such historical matters, we will also, however, want to engage particular film texts: thus much of our time in class will be spent discussing individual films. Prerequisites WRT 101 and ENG 200, ENG 210, ENG 218 or HON 111.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

Cross-listed Courses: CMM 381, ENG 372

THR 373. History of Film: 1940 to the Present. 3 Credit Hours.

A study of the development of film since 1940. The course will examine social, technical, and artistic aspects of important films by influential directors, addressing in particular the well-made Hollywood film, Italian neo-realism, French new wave, and the rise of auteurism.

Prerequisites: WRT 101 and ENG 200, ENG 210, ENG 218 or HON 111.

Fulfills Core Requirement(s): Visual and Performing Arts (VPA).

Cross-listed Courses: CMM 382, ENG 373

THR 374. Latin American & US Latino Theatre. 3 Credit Hours.

A study of major Latin American and U.S. Latino plays. Emphasis on dramatic literature in relation to performance and cultural contexts. Some production of scenes. Fulfills Core Requirements: Visual and Performing Arts (VPA) and Diversity (DIV). Suggested prior course: SPN 201. Not open to first year students.

Prerequisite: SPN 104.

Cross-listed Courses: SPN 474

THR 386. Introduction to Playwriting. 3 Credit Hours.

A workshop that introduces students to the techniques of dramatic writing. In our explorations of structure, dialogue and methods of characterization, students begin by writing one- to two- page exercises, advance to outlines for plot and character and finally write a ten-minute play which is performed in class.

Prerequisite: WRT 101.

Fulfills Core Requirement: Visual and Performing Arts (VPA).

Cross-listed Courses: CRW 386, ENG 386

THR 389. Writing the One Act Play. 3 Credit Hours.

The goal of this writing workshop is to write a one-act play. The course is designed for students who have some experience with writing plays or a strong creative writing background. Students will first explore the techniques of dramatic writing through examples, exercises, and class discussion, advance to plot outlines and character sketches, and finally write a one-act play, which will be performed in class. Fulfills Core requirement(s): VPA.

Prerequisite: WRT 101.

Cross-listed Courses: ENG 389

THR 390. Independent Study. 3-6 Credit Hours.

A student who wishes to pursue a theatre project in acting, directing, dramatic literature, design or stage management for academic credit must submit, prior to registration: a proposed plan that includes a description of the project and its goals, the methods to be followed, schedule of work and supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the dean of arts and sciences' office, where they are kept on file. The usual prerequisite is one or more courses in Theatre Arts, along with considerable practical experience in productions.

THR 410. Career Development in the Theatre. 1 Credit Hour.

This course provides instruction in the creation of resumes and cover letters, design portfolios, and audition techniques. The intention is to prepare students for the interview and audition process either for work in the profession of admission into graduate school. The class will meet for three hours on Saturdays: twice in the beginning of the semester, twice mid-semester, and once at the end of the semester. This is a pass/fail course and may only be taken once for credit in either the junior or senior year. Pass/ Fail only.

THR 428. Politics and Literature. 3 Credit Hours.

Does literature reflect on the use of power, authority, ideology and identity? How does literature affect us and the way we interpret the political world? What makes theatre political? What hopes for changing the world does theatre dramatize? How does the theatre become a productive site for representing, and even enacting, political change? This course explores these questions by reading various literary works including a number of plays from different time periods. The encompassing question this course tries to answer (by analyzing the perspectives of different authors) is: What does it mean to have political freedom?

Cross-listed Courses: PSC 428

THR 440. Theatre Context. 4 Credit Hours.

An advanced exploration of the theatrical production process. Students assume the roles of directors and designers as they prepare several theoretical productions. Projects focus on collaborative procedure and "mise en scene," including text analysis, performance theory, creative and historical research and period and stylistic choices in scenic and costume design. Three hours of lecture/discussion and one hour of workshop per week.

Prerequisite: Nine hours of theatre courses or consent of instructor.

Arts Administration Minor

Students interested in exploring the application of management principles in the context of the art world (dance, film, music, theater and visual art) are encouraged to explore the interdisciplinary arts administration minor. In order to complete a minor in arts administration, students must complete nine credits in the arts administration core and six credits from the applied arts, communication & film studies and Madden school of business courses.

Code	Title	Credit Hours
Minor Requirements		
Arts Administration Foundation Courses		9
AAD 201	Arts Administration I	
AAD 301	Arts Administration II	
AAD 490	Arts Administration Internship	
Select one of the following Applied Arts Courses:		3
ART 120	Introduction to Visual Design	
ART 220	Drawing	
ART 224	Introduction to Illustration	
ART 230	Painting	
ART 235	Watercolor Painting	
ART 240	Black and White Photography	
ART 243	Color Photography	
ART 247	Studio Photography	
ART 260	Sculpture	
ART 265	Introduction to Ceramics	
CMM 205	Intro to Video Production	
CMM 307	Communications Photography	
CMM 332	Dramatic Video Production	
MUS 208	Musical Theatre Workshop	
MUS 394	Choral Ensembles	
MUS 396	Applied Music I	
MUS 397	Applied Music II	
MUS 395	Instrumental Ensembles	
THR 203	Voice and Movement	
THR 205	Acting I	
THR 265	Theatre Performance Practicum	
THR 271	Ballet Dance Technique	
THR 273	Jazz Dance Technique	
THR 275	Contemporary Dance Technique	
THR 277	Musical Theatre Dance	
THR 280	Dance Choreography	
THR 305	Advanced Acting: Methods and Styles	
THR 306	Advanced Acting: Topics in Performance	

THR 307	Acting Shakespeare	
THR 314	Costume Design	
THR 315	Scene Design	
THR 317	Lighting Design	
THR 340	Directing	
THR 386	Introduction to Playwriting	
THR 389	Writing the One Act Play	
Select one of the following Communication & Film Studies and School of Business Courses:		3
ACT 203	Principles of Accounting I for Non Accounting Majors	
CMM 201	Fundamentals of Speech	
CMM 308	Media Layout and Design	
CMM 376	Introduction to Advertising	
CMM 377	Introduction to Public Relations	
CMM 378	Creative Advertising	
CMM 379	Music Journalism	
CMM 476	Advanced Advertising	
ECO 113	Principles of Microeconomics	
ECO 114	Principles of Macroeconomics	
HRM 301	Human Resource Management	
MUS 102	Music Industry	
ENI 210	Entrepreneurship I: What's the Big Idea?	
MGT 301	Organizational Behavior	
MKT 301	Principles of Marketing	
MKT 406	Nonprofit Marketing	
MKT 417	Digital Marketing	
STA 201	Statistics I	

Visual Arts Minor

Students from all majors are encouraged to enroll in the visual arts minor in order to discover the many benefits of a rich visual aesthetics education within the liberal-arts environment and Jesuit tradition. Instruction from accomplished and engaging faculty artists includes both studio and classroom experiences designed to promote critical thinking, personal creativity, intellectual growth and development. The interdisciplinary focus of the visual arts program encourages collaborative endeavors with theater arts, music and the community at large.

Code	Title	Credit Hours
Minor Requirements		
ART 105	Global Masterpieces: a Survey of World Art	3
Select one 2-D art class:		3
ART 220	Drawing	
ART 223	Digital Illustration	
ART 224	Introduction to Illustration	
ART 226	Fashion Illustration	
ART 230	Painting	
ART 235	Watercolor Painting	
Select one photography course:		3
ART 240	Black and White Photography	
ART 243	Color Photography	

ART 247	Studio Photography	
ART 248	Fantasy Photography	
Select one 3-D art class:		3
ART 260	Sculpture	
ART 265	Introduction to Ceramics	
Art Elective		3
Total Credit Hours		15

Music Minor

Students of all majors can deepen their understanding of musical language and performance through the music minor program. Students will experience thorough courses in the traditions and theories of the music they study and perform. Music minors are asked to earn nine credits in the classroom and six through participation in instrumental and/or vocal lessons and ensembles.

Code	Title	Credit Hours
Minor Requirements		
MUS 101	Music History - The Western Tradition	3
MUS 116	Introduction to Music Theory	3
MUS Elective ¹		3
Select one of the following Private Lessons:		3
MUS 396	Applied Music I	
MUS 397	Applied Music II	
Select one of the following Ensembles:		3
MUS 394	Choral Ensembles	
MUS 395	Instrumental Ensembles	
Total Credit Hours		15

¹ Approved MUS electives:

- MUS 217 Neurons & Notes: The Science of Music
- MUS 226 The History of Rock and Roll
- MUS 227 American Popular Song: A History

1- or 2-credit music courses may not be combined to fulfill the elective requirement.

Theatre Arts Major (B.A.)

The theatre arts program is based on a liberal arts curriculum that requires majors to participate in the full undergraduate core, read extensively in the field and acquire a solid and broad-based knowledge of the fundamental principles of the art form.

Theatre is a collaborative art and, while majors may specialize in one area of the theatre arts (design, performance, literature, etc.), we believe that our students are best served by understanding all aspects of creative production. In keeping with the Jesuit mission of the college, our program is committed to educating the whole artist and giving theatre students the tools to lead and succeed in the theatre and the community.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3

HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors (preferably Shakespeare)	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
THR 105	Introduction to Theatre	3
THR 110	Stagecraft	3
THR 205	Acting I	3
THR 210	Fundamentals of Design for Theatre	3
THR 260	Theatre Practicum	2
THR 302	The Western Drama Tradition	3
THR 410	Career Development in the Theatre	1
THR 440	Theatre Context	4
Dramatic Literature Elective		3
Two English Literature Electives		6
THR 203	Voice and Movement	3
or CMM 201 Fundamentals of Speech		
Select two of the following:		6
THR 240	Applied Theatre: Community Based Learning	
THR 335	Devised Theatre	
THR 340	Directing	
Theatre Electives		6
Theatre Design		3
Theatre Performance		3
Major Support Requirements		
Free Electives		21
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Courses in this area must include at least one performance class and at least one design class.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
THR 105	Introduction to Theatre	3

EAC Encountering Another Culture/Language (p. 61)	3
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Credit Hours	15
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Second Semester

PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
THR 110	Stagecraft	3
Free Elective		3
EAC Encountering Another Culture/Language (p. 61)		3

Credit Hours	15
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Sophomore Year**First Semester**

ENG 210	Major Authors	3
Social Science (p. 61)		3
Theology (p. 61)		3
THR 205	Acting I	3
Free Elective		3

Credit Hours	15
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Second Semester

PHL 210	Moral Philosophy	3
Natural Science (p. 61)		3
THR 210	Fundamentals of Design for Theatre	3
THR 203	Voice and Movement	3
Free Elective		3

Credit Hours	15
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Junior Year**First Semester**

THR 302	The Western Drama Tradition	3
Mathematics (p. 61)		3
Free Elective		3
THR Literature		3
ENG 310	Literature and Culture	3
THR 410	Career Development in the Theatre	1

Credit Hours	16
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Second Semester

Dramatic Literature		3
Literature Elective (DIV?)		3
THR Elective		3
IDS Interdisciplinary Studies (p. 61)		3
Select one of the following:		3
THR 240	Applied Theatre: Community Based Learning	
THR 335	Devised Theatre	
THR 340	Directing	

Credit Hours	15
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Senior Year**First Semester**

THR 440	Theatre Context	4
THR Elective		3
Free Elective		3
Religion (p. 61)		3
THR 260	Theatre Practicum	2

Credit Hours	15
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Second Semester

COR 400	Senior Studies: Transformations	3
Literature Elective (DIV?)		3
THR Elective		3
Free Elective		3
Select one of the following:		3
THR 335	Devised Theatre	
THR 340	Directing	
THR 240	Applied Theatre: Community Based Learning	

Credit Hours	15
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Total Credit Hours	121
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Theatre Arts Dual Major

The theater arts program has partnered with other departments to offer students the option of a dual major. Theatre majors may add a second major in the following subjects: English literature, English literature with a concentration in creative writing, communications, computer science, history, political science, peace and global studies, philosophy, psychology, Spanish or French. Students interested in pursuing a dual major should contact the Director of Theater Arts for more information.

Theatre Arts Minor

Non-majors are welcome to study theatre arts as a minor. To complete a theatre arts minor, the following courses are required:

Code	Title	Credit Hours
Minor Requirements		
THR 105	Introduction to Theatre	3
Select one course in acting or performance:		3
THR 203	Voice and Movement	
THR 205	Acting I	
THR 305	Advanced Acting: Methods and Styles	
THR 306	Advanced Acting: Topics in Performance	
THR 307	Acting Shakespeare	
THR 335	Devised Theatre	
THR 340	Directing	
Select one course in theatre design or technology:		3
THR 110	Stagecraft	
THR 210	Fundamentals of Design for Theatre	
THR 314	Costume Design	
THR 315	Scene Design	
THR 317	Lighting Design	
Any two other theatre courses		6
Total Credit Hours		15

Dance Minor

The dance minor program is designed to give students dance technique, choreographic, and performance training with particular attention to artistry and the context of dance in society. Within the liberal arts education tradition of Le Moyne, the dance minor is designed as an important ingredient in the development of students for whom

intellectual, physical, and artistic inquiry are linked. This 15-credit program offers the student an opportunity to explore multiple approaches to physical expression while intellectually investigating dance in its broader context. Dance minor students are asked to fulfill six credits of dance minor requirements and a further nine credits through various electives.

Code	Title	Credit Hours
Minor Requirements		
THR 280	Dance Choreography (may be repeated for credit)	3
Select one of the following:		3
THR 105	Introduction to Theatre	
BIO 331	Anatomy and Physiology I	
BSC 114	Survival of the Fitness	
BSC 115	Hormones and Your Health	
BSC 135	Bodyworks: The Human Body	
BSC 201	Human Anatomy & Physiology I	
Electives		
Select 9 credits from the following:		9
THR 170	Core Movement Concepts	
THR 203	Voice and Movement	
THR 220-239 Special Topics		
THR 270	Bodies in Motion: Experiential Anatomy	
THR 271	Ballet Dance Technique	
THR 272	Body Conditioning Through Ballet	
THR 273	Jazz Dance Technique	
THR 275	Contemporary Dance Technique	
THR 277	Musical Theatre Dance	
THR 281	Choreography Practicum	
THR 390	Independent Study	
Total Credit Hours		15

WORLD LANGUAGES, LITERATURES AND CULTURES

WLC 301. Anthropological Linguistics. 3 Credit Hours.

An introduction to the science of linguistics, with an emphasis on the social and cultural aspects of language. Topics to be considered are: 1) language and human nature; 2) linguistic and non-linguistic forms of communication; 3) literate and oral cultures; 4) the basic components of language (phonology, morphology, syntax); 5) meaning in language and speech; 6) socio- linguistics (class, race, gender); and 7) the relationship between language and cultural knowledge systems, especially those of non-western cultures. The instructor will draw from linguistic and cultural materials that she has collected in Southeast Asia and elsewhere. We also read an in-depth study of the social and cultural contexts of language usage in a Muslim Bedouin society of North America. Fulfills Core Requirements: Diversity (DIV) and Cultural Elective (CE). Cross-listed Courses: PGS 300, ANT 300

WLC 302. Introduction to Language and Linguistics. 3 Credit Hours.

This course will provide an introduction to language and linguistics as scientific fields of inquiry. The course will focus on the nature of language and linguistic knowledge through a descriptive analysis of its individual components (phonetics, phonology, morphology, and syntax). During the final weeks of the course, an introduction to selected topics will be covered based, in part, on student interest. Such topics may include language use (e.g., dialectal and social variation), language change (e.g., the evolution of French and Spanish from Latin), and language acquisition. Linguistic data from a variety of languages will be examined. Course will be taught in English.

French Major (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61) ¹		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
Select electives in French beyond the intermediate level		12
WLC 302	Introduction to Language and Linguistics	3

FRN 401	Advanced French Conversation	3
FRN 402	Advanced French Gram & Comp	3
FRN 403	Oral Proficiency Preparation	1
FRN 430	French Civilization	3
Select two literature courses at 300-level or higher		6
Major Support Requirements		
CMM 201	Fundamentals of Speech	3
Free Electives		39
Total Credits		120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² These and other advanced courses are not offered every year. A major program sequence should be planned in consultation with the student's faculty advisor and the department chair.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
FRN 300-level (1)		3
FRN Elective		3
Credit Hours		15
Second Semester		
MTH		3
HST 111	World Civilization II	3
PHL 110	Introduction to Philosophy	3
FRN 300-level (1)		3
Elective		3
Credit Hours		15
Sophomore Year		
First Semester		
Natural Science (p. 61)		3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
or REL 200 or Religious Perspectives		
FRN 401	Advanced French Conversation	3
Elective		3
Elective		3
Credit Hours		18
Second Semester		
PHL 210	Moral Philosophy	3
or REL 200 or Religious Perspectives		
VPA Visual & Performing Arts (p. 61)		3
FRN 402	Advanced French Gram & Comp	3
Elective		3
Theology (p. 61)		3
Credit Hours		15
Junior Year		
First Semester		
Study Abroad Semester		
FRN course (civilization)		3

FRN course (literature)	3
FRN course (literature)	3
FRN Elective	3

Credit Hours	12
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Second Semester

ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
WLC 302	Introduction to Language and Linguistics	3
CMM 201	Fundamentals of Speech	3
FRN 403	Oral Proficiency Preparation	1
Elective		3

Credit Hours	16
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Senior Year**First Semester**

PHL/REL		3
COR 400	Senior Studies: Transformations	3
FRN Elective		3
Elective		3
Elective		3

Credit Hours	15
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Second Semester

FRN Elective		3
Elective		3
Elective		3
Elective		3
Elective		3

Credit Hours	15
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Total Credit Hours	121
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Spanish Major (B.A.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61) ¹		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		

Select electives in Spanish beyond the intermediate level	12
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WLC 302	Introduction to Language and Linguistics	3
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Oral Proficiency Preparation	1
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SPN 401	Advanced Conversation	3
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SPN 402	Advanced Composition	3
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SPN 411	Spanish Civilization ²	3
or SPN 412	Spanish-American Civilization	

SPN 480	Oral Proficiency Preparation	1
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Select two literature courses at 300-level or higher	6
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Major Support Requirements

CMM 201	Fundamentals of Speech	3
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Free Electives	39
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Total Credit Hours	120
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¹ Some Core requirements may be fulfilled by major requirements.

² These and other advanced courses are not offered every year. A major program sequence should be planned in consultation with the student's faculty advisor and the department chair.

Course	Title	Credit Hours
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Freshman Year**First Semester**

WRT 101	Critical Writing	3
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HST 110	World Civilization I	3
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COR 100	First Year Seminars: Transitions	3
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SPN 300-level (1)		3
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Elective		3
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Credit Hours	15
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Second Semester

MTH		3
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HST 111	World Civilization II	3
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PHL 110	Introduction to Philosophy	3
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SPN 300-level (1)		3
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Elective		3
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Credit Hours	15
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Sophomore Year**First Semester**

Natural Science (p. 61)		3
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ENG 210	Major Authors	3
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PHL 210	Moral Philosophy	3
or REL 200	or Religious Perspectives	

SPN 401	Advanced Conversation	3
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Elective		3
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Elective		3
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Credit Hours	18
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Second Semester

PHL 210	Moral Philosophy	3
or REL 200	or Religious Perspectives	

VPA Visual & Performing Arts (p. 61)		3
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SPN 402	Advanced Composition	3
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Elective		3
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Theology (p. 61)		3
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Credit Hours	15
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Junior Year**First Semester**

Study Abroad Semester		
SPN course (civilization)		3
SPN course (literature)		3
SPN course (literature)		3
SPN Elective		3
Credit Hours		12

Second Semester

ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
CMM 201	Fundamentals of Speech	3
WLC 302	Introduction to Language and Linguistics	3
SPN 480	Oral Proficiency Preparation	1
Elective		3
Credit Hours		16

Senior Year**First Semester**

PHL/REL		3
COR 400	Senior Studies: Transformations	3
SPN Elective		3
Elective		3
Elective		3
Credit Hours		15

Second Semester

SPN Elective		3
Elective		3
Elective		3
Elective		3
Elective		3
Credit Hours		15
Total Credit Hours		121

Classical Humanities Minor

A minor in classical Humanities consists of 15 credit hours. It is offered to students who complete the following:

Code	Title	Credit Hours
Select 6 semester hours in the same Classical language (Greek or Latin) at any level		6
Select 9 semester hours in classics courses at the 200-level or above, including the following:		9
CLS 203	Classical Mythology	
CLS 204	Classical Literature in Translation	
Major Authors: Homer (ENG 210), Major Authors: Euripides (ENG 210), and Ancient Transgressions (ENG 310H) (see Department Chair for course descriptions/schedules)		
Total Credit Hours		15

Dual Major in French and Communications

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61) ²		6
ENG 310	Literature and Culture	3
Mathematics (p. 61)		3
Social Science (p. 61)		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61) ³		1
DIV Diversity (p. 61)		0
Communications Major Requirements		
CMM 201	Fundamentals of Speech	3
CMM 205	Intro to Video Production	3
CMM 226	Introduction to Film Studies	3
CMM 250	Mass Media and Society	3
CMM 274	Reporting and Writing	3
CMM 350	Communication Ethics	3
CMM Electives		12
ENG 218	Critical Perspectives on Literature	3
Select one of the following English Literature Surveys:		3
ENG 305	Eng Lit Survey I:thru Milton	
ENG 306	Eng Lit Survey II:Rest-Present	
ENG 311	English Literature: An Overview	
ENG 350	Amer Lit Survey I:to Civil War	
ENG 351	Am Lit SurveyII:CivWar-Present	
Select one of the following CMM Practicums:		1
CMM 371	Practicum in Radio	
CMM 372	Practicum in Video	
CMM 373	Practicum in Journalism	
Select one of the following CMM Practicums:		1
CMM 371	Practicum in Radio	
CMM 372	Practicum in Video	
CMM 373	Practicum in Journalism	
French Major Requirements:		
FRN 301	Intermediate Conversation & Comp I	3
FRN 302	Intermediate Conversation & Comp II	3
FRN 401	Advanced French Conversation	3
FRN 402	Advanced French Gram & Comp	3

WLC 302	Introduction to Language and Linguistics	3
FRN 430	French Civilization (or 400 Literature Course)	3
FRN 403	Oral Proficiency Preparation	1
Study Abroad		12
Electives:		
Free Electives ⁴		6
Total Credit Hours		127

- ¹ Some core requirements may be fulfilled by major requirements.
² The Core EAC requirement is fulfilled by the French major.
³ The Core VPA requirement is fulfilled by the Communications major.
⁴ Students are encouraged to fulfill at least one of their free elective requirements with a French elective if possible.

Course	Title	Credit Hours
Year I		
Fall		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
CMM 201	Fundamentals of Speech	3
FRN 301	Intermediate Conversation & Comp I	3
Credit Hours		15
Spring		
HST 111	World Civilization II	3
PHL 110	Introduction to Philosophy	3
ENG 218	Critical Perspectives on Literature	3
CMM 250	Mass Media and Society	3
FRN 302	Intermediate Conversation & Comp II	3
Credit Hours		15
Year II		
Fall		
ENG 210	Major Authors	3
CMM 274	Reporting and Writing	3
Natural Science (p. 61)		3
Theology (p. 61)		3
FRN 401	Advanced French Conversation	3
Credit Hours		15
Spring		
PHL 210	Moral Philosophy	3
CMM 350	Communication Ethics	3
WLC 302	Introduction to Language and Linguistics	3
FRN 402	Advanced French Gram & Comp	3
Mathematics (p. 61)		3
Credit Hours		15
Year III		
Fall		
Study Abroad		12
Credit Hours		12
Spring		
CMM 226	Introduction to Film Studies	3

ENG 310	Literature and Culture	3
CMM Elective		3
FRN 430	French Civilization	3
CMM 205	Intro to Video Production	3
FRN 403	Oral Proficiency Preparation	1
Credit Hours		16

Year IV**Fall**

Social Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
CMM 371	Practicum in Radio	1
or	or Practicum in Journalism	
CMM 373	or Practicum in Video	
or		
CMM 372		
CMM Elective		3
CMM Elective		3
Select one of the following English Literature Surveys:		3
ENG 305	Eng Lit Survey I:thru Milton	
ENG 306	Eng Lit Survey II:Rest-Present	
ENG 311	English Literature: An Overview	
ENG 350	Amer Lit Survey I:to Civil War	
ENG 351	Am Lit SurveyII:CivWar-Present	
Credit Hours		16

Spring

Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
CMM Elective		3
CMM 371	Practicum in Radio	1
or	or Practicum in Journalism	
CMM 373	or Practicum in Video	
or		
CMM 372		
Free Elective ¹		3
Free Elective		3
Credit Hours		16
Total Credit Hours		120

- ¹ Students are encouraged to fulfill at least one of their free elective requirements with a French Elective if possible.

Dual Major in Spanish and Communications

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3

Theology (p. 61)	3
EAC Encountering Another Culture/Language (p. 61) ²	6
ENG 310 Literature and Culture	3
Mathematics (p. 61)	3
Social Science (p. 61)	3
Natural Science (p. 61)	3
IDS Interdisciplinary Studies (p. 61)	3
Religion (p. 61)	3
COR 400 Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61) ³	1
DIV Diversity (p. 61)	0
Communications Major Requirements:	
CMM 201 Fundamentals of Speech	3
CMM 205 Intro to Video Production	3
CMM 226 Introduction to Film Studies	3
CMM 250 Mass Media and Society	3
CMM 274 Reporting and Writing	3
CMM 350 Communication Ethics	3
CMM Electives	12
ENG 218 Critical Perspectives on Literature	3
Select one of the following English Literature Surveys:	3
ENG 305 Eng Lit Survey I:thru Milton	
ENG 306 Eng Lit Survey II:Rest-Present	
ENG 311 English Literature: An Overview	
ENG 350 Amer Lit Survey I:to Civil War	
ENG 351 Am Lit SurveyII:CivWar-Present	
Select one of the following CMM Practicums:	1
CMM 371 Practicum in Radio	
CMM 372 Practicum in Video	
CMM 373 Practicum in Journalism	
Select one of the following CMM Practicums:	1
CMM 371 Practicum in Radio	
CMM 372 Practicum in Video	
CMM 373 Practicum in Journalism	
Spanish Major Requirements:	
SPN 301 Conversation and Composition I	3
SPN 302 Conversation and Composition II	3
SPN 401 Advanced Conversation	3
SPN 402 Advanced Composition	3
WLC 302 Introduction to Language and Linguistics	3
SPN 411 Spanish Civilization	3
or SPN 412 Spanish-American Civilization	
SPN 480 Oral Proficiency Preparation	1
Study Abroad	12
Electives:	
Free Electives ⁴	6
Total Credit Hours	127

¹ Some core requirements may be fulfilled by major requirements.

² The Core EAC requirement is fulfilled by the French major.

³ The Core VPA requirement is fulfilled by the Communications major.

⁴ Students are encouraged to fulfill at least one of their free elective requirements with a French elective if possible.

Course	Title	Credit Hours
Year I		
Fall		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
SPN 301	Conversation and Composition I	3
CMM 201	Fundamentals of Speech	3
Credit Hours		15
Spring		
HST 111	World Civilization II	3
PHL 110	Introduction to Philosophy	3
ENG 218	Critical Perspectives on Literature	3
CMM 350	Communication Ethics	3
SPN 302	Conversation and Composition II	3
Credit Hours		15
Year II		
Fall		
	Natural Science (p. 61)	3
ENG 210	Major Authors	3
	Theology (p. 61)	3
CMM 274	Reporting and Writing	3
SPN 401	Advanced Conversation	3
Credit Hours		15
Spring		
PHL 210	Moral Philosophy	3
CMM 350	Communication Ethics	3
WLC 302	Introduction to Language and Linguistics	3
SPN 402	Advanced Composition	3
	Mathematics (p. 61)	3
Credit Hours		15
Year III		
Fall		
	Study Abroad	12
Credit Hours		12
Spring		
SPN 480	Oral Proficiency Preparation	1
CMM 226	Introduction to Film Studies	3
ENG 310	Literature and Culture	3
	CMM Elective	3
SPN 411	Spanish Civilization	3
or SPN 412	or Spanish-American Civilization	
CMM 205	Intro to Video Production	3
Credit Hours		16
Year IV		
Fall		
	Social Science (p. 61)	3
	IDS Interdisciplinary Studies (p. 61)	3

CMM 371	Practicum in Radio	1
or	or Practicum in Journalism	
CMM 373	or Practicum in Video	
or		
CMM 372		
CMM Elective		3
CMM Elective		3
Select one of the following English Literature Surveys:		3
ENG 305	Eng Lit Survey I:thru Milton	
ENG 306	Eng Lit Survey II:Rest-Present	
ENG 311	English Literature: An Overview	
ENG 350	Amer Lit Survey I:to Civil War	
ENG 351	Am Lit SurveyII:CivWar-Present	
Credit Hours		16
Spring		
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
CMM Elective		3
CMM 371	Practicum in Radio	1
or	or Practicum in Journalism	
CMM 373	or Practicum in Video	
or		
CMM 372		
Free Elective ¹		3
Free Elective		3
Credit Hours		16
Total Credit Hours		120

¹ Students are encouraged to fulfill at least one of their free elective requirements with a French Elective if possible.

French and Spanish Language & Literature Minor

The department also affords students majoring in other disciplines the opportunity to pursue a minor concentration in French or Spanish by successfully completing 15 credit hours in the same language beyond intermediate level. These 15 credit hours must include at least two courses at the 400 level. The pass/fail option may not be used to fulfill requirements for a minor.

Italian Minor

An Italian minor is offered to students who complete 15 credit hours beyond Intermediate Italian. These 15 credit hours must include at least two courses at the 400 level. The pass/fail option may not be used to fulfill requirements for a minor.

Latin Minor

A Latin minor is offered to students who complete 12 semester hours of the language, but Elementary Latin (LAT 101 Elementary Latin I- LAT 102 Elementary Latin II) cannot count toward the Latin minor. The pass/fail option may not be used to fulfill requirements for a minor.

ARTS ADMINISTRATION - GRADUATE

Program Director: Travis Newton, newtontm@lemoyne.edu

Le Moyne College offers two flexible options for those interested in graduate study in arts administration:

- Master of Science (M.S.) in Arts Administration (36 credits)
- Online Advanced Certificate in Arts Administration (15 credits)

Le Moyne College's Graduate Programs in Arts Administration offer an opportunity to study and apply management concepts in an arts environment - in short, Making Art Work.

While participating in this interdisciplinary program, you will study marketing and fundraising, learn to collaborate with a board of directors, understand how to interpret financial documents, and gain perspective on managing a creative workforce, all of which will benefit you as you pursue or continue a career in the visual and performing arts. Some courses are offered in a hybrid, on-line or condensed format.

Theoretical knowledge will be applied through a capstone consulting project with our partner cultural organizations, and a global perspective will be woven throughout the coursework.

Admission Criteria

M.S. program in Arts Administration

Applicants must:

- Have an earned bachelor's degree.
- Complete an online application for admission via lemoyne.edu/apply (<http://lemoyne.edu/apply/>).
- Provide official transcripts from all colleges previously attended to the Office of Graduate Admission per the instructions in the admission application.
- Have an interest in applying management concepts in an arts environment as exhibited in a resume and essay.
- Demonstrate academic success with a cumulative grade point average of at least 2.8 for all undergraduate and graduate coursework.
- Provide two professional letters of recommendation showing the applicant's ability to be successful in a graduate program.
- Schedule an advising appointment with the program director as part of the application requirements.

Advanced Certificate in Arts Administration

Applicants must:

- Have an earned bachelor's degree.
- Complete an online application for admission via lemoyne.edu/apply (<http://lemoyne.edu/apply/>).
- Provide official transcripts from all colleges previously attended to the Office of Graduate Admission per the instructions in the admission application.
- Have an interest in applying management concepts in an arts environment as exhibited in a resume and essay.

- Demonstrate academic success with a cumulative grade point average of at least 2.8 for all undergraduate and graduate coursework.
- Provide two professional letters of recommendation showing the applicant's ability to be successful in a graduate program.
- Schedule an advising appointment with the program director as part of the application requirements.

An admission committee, including the program director, will complete the evaluation of the applications respective to the admission requirements set forth. A conditional admission policy provides flexibility in our admission decisions and allows for the request of additional requirements as a means to provide evidence that an applicant can be successful in the program.

Academic Criteria

Successful completion of the M.S. or Advanced Certificate in Arts Administration requires a minimum cumulative G.P.A. of 3.0.

Transfer Credit/Waiver Policy

Waivers of courses or the acceptance of transfer credit will be considered based on the following:

Waivers of foundation courses could be granted to those who have completed the equivalent academic requirements in their undergraduate program. Typically, two undergraduate courses, in the appropriate area and at the appropriate level, completed in recent years with a grade of B or better, could be used to waive a foundation course. Because of the highly diverse nature of undergraduate education, all waivers will be considered by the program director on a case-by-case basis.

For most courses, equivalent content level graduate courses from accredited institutions with a grade of B or better may be accepted as transfer credit. Transfer courses must be approved by the program director.

Term Limit for Completion

When an M.S. or Advanced Certificate in Arts Administration candidate becomes matriculated, he/she has a total of six years to complete program requirements. If, however, a candidate is within three courses of completing the degree by the end of the six-year period, he/she may petition the program director to request an extension not to exceed one calendar year or three consecutive semesters.

Probation and Termination

Matriculated students with a cumulative G.P.A. of less than 3.0 are immediately placed on academic probation. The student will be notified and must meet with the director before continuing with further study. Until the student meets with the director, a hold will be placed on his or her registration. The director, in consultation with the student, will specify a time and course schedule after which the student is expected to have raised his or her cumulative G.P.A. to the required 3.0 level. If the student does not meet the requirement by the specified time schedule, he or she will not be allowed to continue with the program.

Withdrawal or Leave of Absence

Students who anticipate not being able to attend the graduate arts administration program during two consecutive semesters should

request a formal leave of absence in writing from the director in order to maintain matriculated status.

- Arts Administration (M.S.) (p. 350)
- Advanced Certificate in Arts Administration (p. 351)

Arts Administration (AAD)

AAD 501. Survey of Arts Administration. 3 Credit Hours.

An introduction to the world of arts administration, focusing on not-for-profit organizations and exploring the various types of arts organizations and management principles applied therein. Students will participate in discussions both in class and online, applying knowledge gained through readings and guest lectures in order to conceptualize the interconnected and diverse world of arts administration.

AAD 502. Marketing and Public Relations Strategies in Arts & Entertainment. 3 Credit Hours.

An in-depth exploration of Marketing and Public Relations strategies, tactics and tools in the not-for-profit and for-profit Arts and Entertainment industries, including performing arts and visual art. Students will analyze texts, case studies and online blogs and will apply their knowledge by creating a marketing plan for an arts organization or event.

AAD 503. Governance & Board Development in the Arts. 3 Credit Hours.

In addition to governing, the board of directors of an arts organization also sets the tone and influences the culture that permeates the institution. During this course, students will explore the all-important role of the board of directors as the guiding force of the organization. Students will develop strategies to foster productive and beneficial relationships with members of the board of directors, and will also develop strategies for board recruitment, training and retention.

AAD 504. Financial Management in the Arts. 3 Credit Hours.

An exploration of the financial issues relevant to the not-for-profit arts industry, including budgeting, financial management, and financial planning (both short-term and long-term). Students will develop a strong familiarity with financial statements, with the objective of gaining the skills necessary to oversee the financial operations of a not-for-profit arts organization.

AAD 505. Developing Capital in the Arts. 3 Credit Hours.

A holistic approach to the development of capital for arts organizations, including the exploration of techniques to facilitate individual contributions, corporate and foundation grants, and government grants. Students will participate in multiple projects, including the drafting of appeal letters to individuals and corporations, application of grant writing techniques, and completion of government grant applications.

AAD 590. Arts Administration On-Campus Practicum. 3 Credit Hours.

Students will have the opportunity to complete a semester-long practicum on the campus of Le Moyne College. Students will work closely with the faculty or staff member supervising the internship, reporting to the faculty member as the internship progresses. Students will also evaluate the experience and relate it to their course of study in the arts administration program. Pass/fail grades only.

AAD 601. Globalization of the Arts. 3 Credit Hours.

The multi-billion dollar arts industry is a global force, enabled by technology and a growing trend toward creating works with a global appeal. In this course, students will gain a broader perspective of the arts world, including the exploration of new distribution methods as well as comparative study of arts funding models in different parts of the world. This course includes a required short-term study abroad component.

AAD 602. Engaging the Community Through the Arts. 3 Credit Hours.

An in-depth exploration of the intertwined nature of communities and the arts. Through various readings, discussions and lectures (including visits with arts practitioners), students will gain valuable insight into the interconnected nature of the arts and the community, and will learn strategies and tactics that have been successful for arts organizations wishing to weave their operations into the fabric of the communities within which they operate.

AAD 603. The Art Museum Today. 3 Credit Hours.

An exploration of the various types, sizes and definitions of art museums with a specific focus on contemporary issues facing these institutions. The course familiarizes students with the theories and practice surrounding current (and shifting) topics of interest in the larger art world, and their effects on the museum as an institution. Students will examine the history of art museums, discuss contemporary practice, and explore current issues in the profession as it faces the future of art museums in the twenty-first century.

AAD 690. Arts Administration Consulting Practicum. 3 Credit Hours.

Having completed the majority of coursework in the graduate arts administration curriculum, students will apply their knowledge through an in-depth consulting practicum with a cultural institution. Students will work with the cultural organization to identify a project and will see the project to completion during the course of this consultancy. Prerequisites: AAD 501, AAD 502, AAD 503, AAD 504, & AAD 505 (all foundation courses).

AAD 701. Arts Administration Seminar. 3 Credit Hours.

This capstone course for the M.S. in Arts Administration offers students the opportunity to synthesize concepts covered in previous coursework. The course will rely heavily on case study discussion and will further explore the many challenges and opportunities for arts organizations in the twenty-first century, including strategic planning, organizational dynamics, globalization and other topics. Prerequisites: AAD 501, AAD 502, AAD 503, AAD 504 & AAD 505 (all foundation courses).

Arts Administration (M.S.)

Master of Science in Arts Administration (36 credits):

Le Moyne College's Master of Science in Arts Administration is interdisciplinary in nature, offering students the opportunity to apply management concepts in an arts environment. Through coursework and real-world experience, the program offers flexibility for students of any major or background.

Code	Title	Credit Hours
Foundation Courses		
AAD 501	Survey of Arts Administration	3
AAD 502	Marketing and Public Relations Strategies in Arts & Entertainment	3
AAD 503	Governance & Board Development in the Arts	3
AAD 504	Financial Management in the Arts	3
AAD 505	Developing Capital in the Arts	3
Business Courses		
Select six credits of the following:		6
STA 501	Quantitative Decision Making	
HRM 601	Human Resource Management	

MGT 601	Org Dynamics: Leadership	
Electives		
Select six credits of the following:		6
AAD 601	Globalization of the Arts	
AAD 602	Engaging the Community Through the Arts	
AAD 603	The Art Museum Today	
Practicum/Capstone		
AAD 590	Arts Administration On-Campus Practicum	3
AAD 690	Arts Administration Consulting Practicum	3
AAD 701	Arts Administration Seminar	3
Total Credit Hours		36

This program may be completed in 15 months full-time or in 18-months part-time. What follows is a sample full-time course of study. Course offering schedule may vary.

Course	Title	Credit Hours
Year I		
Interession		
AAD 501	Survey of Arts Administration	3
AAD 502	Marketing and Public Relations Strategies in Arts & Entertainment	3
Credit Hours		6
First Semester		
AAD 505	Developing Capital in the Arts	3
Business Course (HRM 601, MGT 601 or STA 501)		3
AAD 504	Financial Management in the Arts	3
AAD 590	Arts Administration On-Campus Practicum	3
Credit Hours		12
Second Semester		
AAD 503	Governance & Board Development in the Arts	3
AAD 690	Arts Administration Consulting Practicum	3
AAD 701	Arts Administration Seminar	3
Business Course (HRM 601, MGT 601 or STA 501)		3
Credit Hours		12
Year II		
Interession		
AAD Elective (601, 602 or 603)		3
AAD Elective (601, 602 or 603)		3
Credit Hours		6
Total Credit Hours		36

Advanced Certificate in Arts Administration

Online Advanced Certificate in Arts Administration (15 credits):

The Online Advanced Certificate in Arts Administration will provide students with foundational knowledge of the field of arts administration through graduate-level coursework. This course of study is interdisciplinary in nature, offering students the opportunity to apply management concepts in an arts environment.

Code	Title	Credit Hours
AAD 501	Survey of Arts Administration	3
AAD 502	Marketing and Public Relations Strategies in Arts & Entertainment	3
AAD 603	The Art Museum Today	3
AAD 602	Engaging the Community Through the Arts	3
AAD 504	Financial Management in the Arts	3
Total Credit Hours		15

Online Advanced Certificate in Arts Administration (15 credits):

This program may be completed in 10 months. What follows is a sample course of study. Course offering schedule may vary.

Course	Title	Credit Hours
Year I		
Interession		
AAD 501	Survey of Arts Administration	3
Credit Hours		3
Summer		
AAD 502	Marketing and Public Relations Strategies in Arts & Entertainment	3
AAD 603	The Art Museum Today	3
Credit Hours		6
Fall		
AAD 504	Financial Management in the Arts	3
Credit Hours		3
Year II		
Interession		
AAD 602	Engaging the Community Through the Arts	3
Credit Hours		3
Total Credit Hours		15

MADDEN SCHOOL OF BUSINESS

The Madden School of Business offers a Bachelor of Science degree in business with majors in: accounting; business analytics; finance; human resource management; information systems; management & leadership; marketing; and risk management and insurance.

All undergraduate business majors in the school share a common liberal arts core and a common management core. Major requirements beyond the two cores vary from five to eight courses. Students have several opportunities to pursue two concurrent majors within the school. In addition, students can choose to supplement their major in business with a minor in a different field. All students are encouraged to discuss these options with their academic advisors.

A minor in business administration is offered for students who major in one of the liberal arts or sciences. In addition, the school also offers a master's in business administration (MBA) and a five-year accounting/MBA program, a master's of science in information systems (MSIS) and a five-year accounting/MSIS program.

Mission Statement

The Madden School of Business seeks to develop reflective individuals, with an innovative spirit who will fulfill their potential as leaders, both locally and globally, embodying the Jesuit values of integrity, compassion, and service to others. Students are empowered and encouraged to explore and, having found what they are passionate about, to excel in their chosen fields. The members of the faculty challenge and enable students to attain their full potential through experiential involvement, ongoing scholarship, and up-to-date methodology.

ACCOUNTING

Chair: Martha Grabowski

Program Director: Christie Novak (of Accounting)

Associate Professor: Mary K. Collins, Mitchell Franklin, Joan K. Myers

Professor of Practice: William Barrett, Benjamin Huegel, Karen Kukla

Professor Emeritus: Michael J. Krause

Accounting, as the primary financial information system in all organizations, is often described as the language of business. Accounting professionals are expected to be proficient in accounting, to possess a well-rounded business background and to have excellent oral and written communications skills. The Department of Accounting seeks to prepare graduates with the skills necessary to meet these expectations. Accounting education at Le Moyne College provides a strong foundation in the liberal arts, a body of knowledge in general business and an extensive preparation in accounting. Students completing the program find opportunities in public accounting, the private sector, the financial sector, not-for-profit organizations and the government.

The Department of Accounting offers five degree programs:

1. A four-year undergraduate program leading to the degree of B.S. in business with a major in accounting. Graduates of this program are prepared to assume positions in the private sector, not-for-profit organizations and the government.
2. Students may be able to qualify for CPA licensure with a BS in accounting and the MBA offered within the Madden School of Business. Students who wish to pursue the MBA should first complete the 4-year BS in Accounting. Upon completion of the 4 year BS in Accounting, students can separately enroll in the MBA. Students who meet academic criteria within the accounting program as prescribed by the Department of Accounting may be permitted to complete the additional coursework within the MBA to meet NYS licensure requirements.
3. A 150-hour program leading to the degree of B.S. in professional accountancy and an M.S. in Information Systems, with both degrees being conferred at the end of the fifth year. In the event that a student begins the 150-hour program and does not complete it, that student can receive the B.S. in business with a major in accounting, by completing the requirements of the four-year undergraduate program. Candidates must have completed 120 credit hours, which includes coursework in financial accounting and reporting, cost accounting, auditing and taxation to be eligible to sit for the C.P.A. examination. The requirements of the 150-hour program are required for licensure as a C.P.A. The 150-hour B.S. in Professional Accountancy/Masters of Science in Information Systems program, is registered with the New York State Department of Education and meets the educational requirements for C.P.A. licensure and, in general, to corresponding examinations and licensure in other states.¹
4. A 150-hour program leading to the degree of B.S. in professional accountancy and a Masters of Science in Taxation, with both degrees being conferred at the end of the fifth year. In the event that a student begins the 150-hour program and does not complete it, that student can receive the B.S. in business with a major in accounting, by completing the requirements of the four-year undergraduate program. Candidates must have completed 120 credit hours; which include coursework in financial

accounting and reporting, cost accounting, auditing and taxation to be eligible to sit for the C.P.A. Examination. The requirements of the 150-hour program are required for licensure as a C.P.A. The 150-hour B.S. in professional accountancy/Masters of Science in Taxation program is registered with the New York State Department of Education and meets the educational requirements for C.P.A. licensure and, in general, to corresponding examinations and licensure in other states.¹

5. A thirty-credit graduate program leading to a Masters of Science in Taxation. This program is designed for a licensed Certified Public Accountant seeking additional professional training in taxation, C.P.A. and other qualified professionals with an interest in taxation.

¹ Students who seek licensure within another state should review educational requirements of the respective state to assure that the program meets specific state requirements. The college does not offer a guarantee that the specific degree meets licensure requirements outside of New York State. It is the student's responsibility to be aware of additional coursework that may be required in other states to sit for the C.P.A. exam and obtain licensure.

Student Learning Outcomes in Accounting

Students who graduate from this program will be able to:

Audit and Assurance

Describe the steps in the audit cycle and analyze financial information necessary to provide financial statement assurance.

Financial Reporting and Analysis

Demonstrate the skills to prepare, interpret and analyze financial statements for decision-making based on the understanding of accounting principles through the application and evaluation of financial information and economic transactions.

Cost and Managerial Concepts

Evaluate and explain costs and cost behavior to make effective decisions within an organization.

Taxation

Utilize primary tax sources to apply tax laws to situations impacting US Taxpayers to comply with applicable regulations and provide tax planning.

- Accounting Major (B.S.) (p. 356)
- Accounting Major/Information Systems Concentration (p. 358)
- Accounting Minor (p. 359)
- Accounting 150-Hour Program (B.S. and M.B.A.) (p. 359)
- Accounting 150-Hour Program (B.S. and M.S. in I.S.) (p. 361)
- Accounting 150-Hour Program (B.S. and M.S. in Taxation) (<http://collegecatalog.lemoyne.edu/madden-business/accounting/accounting-150-hour-program-bs-mstax/#requirementstext>)
- M.S. in Taxation (p. 363)

Accounting (ACT)

The Department of Accounting policy is that no upper level accounting courses may receive transfer credit that applies toward the accounting major. These courses are to be taken on the Le Moyne College Campus only. Introductory accounting courses may be eligible for transfer credit

if deemed equivalent to the Le Moyne College Introductory Accounting I and II for Accounting Majors courses. Equivalency is determined by the Chair and/or Director of Accounting Programs only. Other statements of transfer acceptability are not valid. To be eligible for transfer credit, the courses must be taken on a college campus and directly taught by an instructor of the college or university. No advance placement credit will be granted, nor will transfer credit be given for courses that are sponsored by colleges or universities, and taught within high schools.

ACT 203 and 204 are intended for non-accounting majors and will not be counted towards the accounting major. Accounting majors must complete ACT 201 and 202 because of the additional depth of coverage as a requirement for the major.

ACT 201. Introductory Accounting for Accounting Majors. 3 Credit Hours.

Accounting majors will be introduced to the basic concepts and principles of accounting practice and theory. The topics covered include: the financial accounting environment, the accounting cycle, the elements of the preparation for financial statement reporting and valuation procedures for assets and liabilities under current financial reporting standards.

ACT 202. Introductory Accounting II for Accounting Majors. 3 Credit Hours.

A continuation of the study of the basic concepts and principles of accounting, and of the theory on which they are based. The topics covered include: accounting for corporate liabilities, accounting for corporate equity, statement of cash flows, the use, evaluation and interpretation of accounting information, and introduction to the fundamentals of managerial accounting.

Prerequisite: ACT 201 with a grade of C or above.

ACT 203. Principles of Accounting I for Non Accounting Majors. 3 Credit Hours.

An introduction to the study of basic concepts and principles of financial accounting from both the user and preparer perspective. This course includes a study of the classification and recording of original business transactions, the preparation and evaluation of financial statements, and financial reporting standards.

ACT 204. Principles of Accounting II for Non-Accounting Majors. 3 Credit Hours.

This course is a continuation of the first introductory course in accounting. Advanced financial reporting standards will be covered. This course also focuses on the fundamentals of management accounting with an emphasis on the use of accounting information in the decision making processes of managers with internal organizational responsibilities.

Prerequisite: ACT 203.

ACT 301. Intermediate Accounting I. 4 Credit Hours.

An extension of study of accounting theory applied to corporate accounting and the preparation and interpretation of financial statements. Topics include a review of the accounting process; structure and content of the basic financial statements; and coverage of theory, practice and procedures related to current assets, current liabilities and long-lived assets, tangible and intangible. Three hours lecture and three hours laboratory per week. Grades below B in ACT 201 or ACT 202 or transfer credit coursework deemed equivalent to ACT 201 and ACT 202, require passing score on department skill assessment.

Prerequisite: Grade of B or above in ACT 201 and ACT 202.

ACT 301L. Intermediate Accounting I Lab. 0 Credit Hour.

ACT 302. Intermediate Accounting II. 4 Credit Hours.

A continuation of coverage of theory, practice and procedure relative to longterm liabilities and equities. Additional topics are income and revenue recognition, accounting for leases, pensions and income taxes, price-level accounting, statement of cash flow and analysis of financial statements. Three hours lecture and three hours laboratory per week.

Prerequisite: a grade of C or above in ACT 301.

ACT 302L. Intermediate Accounting II Lab. 0 Credit Hour.

ACT 303. Cost Accounting. 3 Credit Hours.

Basic cost accounting concepts and the cost accumulation process are presented. These are related to the process of inventory valuation and internal use for planning and control. Topics include cost accumulation, budgets, standards, responsibility accounting, relevant costing, direct costing and cost-volume-profit analysis. Prerequisite(s): a grade of C or above in ACT 201 and ACT 202.

ACT 304. Advanced Cost Accounting. 3 Credit Hours.

Cost concepts and cost information systems are presented in relation to managerial decision making and control. The course emphasizes the internal use of cost information and procedures for developing this information. Topics covered are cost for pricing control, inventory policy and control, transfer pricing, performance measures, capital budgeting and application of probability and statistical concepts to problems in cost control and analysis.

Prerequisite: Grade of C or above in ACT 303.

ACT 310. Federal Income Tax for Individuals. 3 Credit Hours.

A study of federal income tax laws related to individuals. Topics covered will include: income inclusions, income exclusions, deductions, losses, nontaxable exchanges, property transactions, cost recovery, calculation of tax liability as well as credits. Application of concepts will be demonstrated through the preparation of tax returns manually, using software as well as through tax research and communication of findings. Prerequisite(s): Grade of C or above in ACT 203 and ACT 204, or C or above in ACT 201 and ACT 202.

ACT 350. Accounting Information Systems. 3 Credit Hours.

This course will examine the design, control and operation of accounting information systems with a strong emphasis on integration. The course will present a thorough introduction to basic information systems theory, provide a working knowledge of systems analysis and design techniques, databases and enterprise systems. Understanding and appreciation of accounting information systems is critical to successfully managing, auditing and developing systems to support today's evolving business environment. This course offers a focused look at accounting information systems as part of enterprise resource planning systems, with a focus on SAP and other comparable enterprise systems to demonstrate concepts. Prerequisite(s): Grade of C or above in ACT 201 and ACT 202 as well as MIS 201.

Cross-listed Courses: MIS 350

ACT 390. Independent Study. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the dean of management. It will be kept on file in the academic dean's office. Credit and hours by arrangement.

ACT 401. Advanced Accounting. 3 Credit Hours.

A study of the advanced phases of partnership accounting and extended application of fundamental theory to specialized fields and activities. Among the topics covered are partnership and joint venture accounting; agency and branch accounting; mergers, consolidations; parent and subsidiary relations; foreign operations; governmental and fiduciary accounting.

Prerequisites: a grade of C or above in ACT 302.

ACT 403. Government and Not-For-Profit Accounting. 3 Credit Hours.

Development and use of financial information relating to governmental and not-for-profit entities. Accounting and financial reporting standards from state and local governmental entities promulgated by the authoritative standard setting bodies (GASB and FASB). Application of fund accounting concepts and practices, government-wide financial reporting, and the relationships between the two. Accounting, reporting standards and practices as applied to not-for-profit entities. Regulatory, auditing, and taxation issues applicable to not-for-profit entities.

Preparation, interpretation and analysis of financial statements for governmental and not-for-profit entities.

Prerequisite: Grade of B or better earned in ACT 302 or permission of ACT Chair/Director.

ACT 404. Financial Statement Analysis. 3 Credit Hours.

Financial reporting issues from a user's perspective. Students will use a variety of tools to break apart financial reports into meaningful units for analysis, forecast financial statements, and value a firm. Provides the knowledge and skills necessary to analyze, interpret, understand, and use financial information to make informed decisions. Students may not earn credit for both ACT 404 and ACT 705. Prerequisite(s): A minimum grade of B in ACT 203, ACT 204, and FIN 301.

ACT 405. Auditing. 3 Credit Hours.

Course covers the principles, procedures and function of auditing.

Problem solving involves the application of auditing principles, which can be studied, analyzed and worked on by the students in order to acquire, within limits, a basic understanding of auditing practices, procedures and responsibilities. A computer simulation is used to illustrate statistical sampling techniques.

Prerequisite: Grade of C or above in ACT 301, AND completion of ACT 302 or corequisite in ACT 302.

ACT 406. Advanced Auditing. 3 Credit Hours.

This course provides a deeper understanding of select topics covered in the first auditing course (ACT 405). Topics include the demand for auditing services, auditor decision-making, statistical sampling and information systems auditing.

Prerequisites: B or above in ACT 301, ACT 302, ACT 405 and admission to the 150 Hour graduate program or permission of the Chair/Program Director of Accounting.

ACT 410. Taxation of Business Entities. 3 Credit Hours.

A study of federal tax laws relating to business entities. Tax laws will apply to the formation, operation, liquidation and reorganization of Partnerships, C Corporations, S Corporations and Limited Liability Companies. Introduction to principles of estate planning and gift planning, with an emphasis on decisions made by business owners of closely held entities relative to estate, gift, and succession planning. Compliance, research and communication skills will be emphasized as significant deliverables.

Prerequisite: Grade of C or above in ACT 310.

ACT 420. Other Taxable Entities & Tax Procedures. 3 Credit Hours.

This course provides instruction as to the federal tax laws concerning income of partnerships, subchapter S corporations, trusts and estate and gift taxation, family tax planning, with an emphasis on tax procedure and dispute resolution matters with the Internal Revenue service. Tax research and analysis is required. This course will be "hands on" course, providing both a theoretical and practical understanding of various matters of tax laws concerning CPA's not only dealing with clients, but also with the Internal Revenue Service.

Prerequisite: ACT 310.

ACT 470. Accounting Theory and Research. 3 Credit Hours.

This course is a seminar in accounting theory and research. The topics include both historical and current readings on: research and methods, revenue recognition, assets, liabilities, equity, valuation issues, Positive Accounting Theory and accounting numbers and their impact upon financial markets.

Prerequisite: C or above in ACT 401.

ACT 501. Intro Fin & Managerial Act. 3 Credit Hours.

An examination of objectives, concepts and principles of financial statements prepared for users external and internal to the business organization. Topics include financial statement analysis, measurement of income and capital, accounting for fixed assets, measuring and accounting for corporate debt and other selected financial reporting issues, planning and control of operations.

ACT 550. Accounting Information Systems. 3 Credit Hours.

This course will examine the design, control and operation of accounting information systems with a strong emphasis on integration. The course will present a thorough introduction to basic information systems theory, provide a working knowledge of systems analysis and design techniques, databases and enterprise systems. Understanding and appreciation of accounting information systems is critical to successfully managing, auditing and developing systems to support today's evolving business environment. This course offers a focused look at accounting information systems as part of enterprise resource planning systems, with a focus on SAP and other comparable enterprise systems to demonstrate concepts.

Prerequisite(s): Grade of C or above in MIS 201/MIS 501, and in either ACT 203 and ACT 204, or in ACT 201 and ACT 202.

Cross-listed Courses: MIS 550

ACT 701. Advanced Federal Income Taxation. 3 Credit Hours.

An analysis of the federal income tax laws relating to individuals. Income, deductions, credits and special tax computations are studied as they relate to individuals. Income tax returns are prepared with an introduction to tax research methods.

Prerequisite: Must be enrolled in MTAX program or permission of Accounting Chair or Director required.

ACT 702. Taxes & Business Strategy. 3 Credit Hours.

This course applies principals of corporate tax law, corporate finance and microeconomics to examin the contests giving rise to tax-planning opportunities which arise in the broader setting of corporate decision making. With an emphasis on economic consequences and explicit and implicit trade-offs between various alternative contracting arrangements, rather than on the minutia of corporate tax law, the primary course focus is on how taxes affect asset prices, equilibrium returns and firm structure both financially and operationally. Topics include basic fundamentals of corporate income taxation and strategy, optimal organizational forms, compensation and retirement planning, multinational tax planning and investing considerations, along with an introduction to corporate formation, mergers and acquisitions.

Prerequisite: Must be enrolled in MTAX program or permission of Accounting Chair or Director required.

ACT 704. Strategic Cost Management. 3 Credit Hours.

This course concerns using accounting information for strategic, tactical and operating decisions. It extends the perspective of cost management/analysis from a primary focus on tactical short-run concerns to an emphasis on strategic long-run issues. The linkage between cost management/analysis and strategy is made possible by utilizing three powerful strategic management tools: value chain analysis, strategic positioning analysis, and cost driver analysis. The purpose of Strategic Cost Management (SCM) is to support decision-makers as they develop, communicate, implement, evaluate and modify organizational strategy. This course is designed for MBA students who have completed ACT 303 (Undergraduate), ACT 501 (Graduate), or the equivalent.

ACT 705. Business Valuation. 3 Credit Hours.

Students will use a variety of tools to analyze financial reports into meaningful units for analysis, forecasting and valuation of a complex firm. Provides the knowledge and skills necessary to analyze, interpret, understand, and use financial information to make informed decisions. Students may not earn credit for both ACT 404 and ACT 705. Prerequisite(s): Minimum grade of B in ACT 501.

ACT 721. Taxation of Corporations. 3 Credit Hours.

Introduction to the fundamental concepts and strategy of the federal income taxation of corporations, and how the strategies influence business decisions. While the course focuses on learning and applying the current tax laws, emphasis is placed on the research skills necessary to determine the current state of the law and special emphasis is placed on integrating tax rules into planning decisions. Prerequisite(s): ACT 701 or equivalent per permission of Chair/Program Director.

ACT 723. Tax Research and Practice. 3 Credit Hours.

This course explores the methods and techniques of federal tax research. In addition, students will learn the rules and procedures for representing clients before the Internal Revenue Service and tax courts. Prerequisite: ACT 701 and permission of Accounting Chair or Director.

ACT 724. Advanced Taxation of Pass-Through Entities. 3 Credit Hours.

The course will relate to a lifecycle of a partnership and cover such topics as formation, operations, allocations, distributions, sales, liquidations and retirements. The Internal Revenue Code, Treasury Regulations, Case Law, and IRS Rulings will be used as a foundation for understanding theses topics. Students will be expected to use these resources in conducting tax research and preparing for class. Prerequisite(s): ACT 721 (Taxation of Corporations) or equivalent per permission of Chair/Program Director.

ACT 725. Advanced Estate and Gift Tax. 3 Credit Hours.

In depth exploration of the federal taxation of gratuitous transfers during a taxpayer's lifetime and property transfers at death. A study is made of relevant statutes and regulations.

Prerequisite: ACT 701 and permission of Accounting Chair or Director.

ACT 726. Tax Accounting for Income Taxes. 3 Credit Hours.

This course will focus on the initial elections for new taxpayers such as the selection of an accounting method and period (particularly in cases where the accounting and tax records differ), special elections available to taxpayers, installment reporting, inventory methods, and long-term contract accounting. We will also deal with the ways, effect, procedures as well as the IRS rules for a change of accounting method. From there the course will focus on the accounting/tax treatment accorded current and deferred income tax liabilities and expenses with their reporting requirements. Our discussion will include the reporting of uncertain positions under Fin ASC 740 and the IRS. Prerequisite(s): ACT 701 (Federal Tax Issues and Analysis) or equivalent with permission of Chair/Program Director.

ACT 727. International Taxation. 3 Credit Hours.

This course provides a comprehensive overview of tax issues concerning the taxation of international transactions from a United States perspective. Examines the various complex issues in partnership, individual and corporate tax planning, and the tax issues involved with joint ventures.

Prerequisite: ACT 701 or equivalent with permission of Chair/Program Director.

ACT 730. Forensic Analytics. 3 Credit Hours.

This course examines the nature of occupational fraud and abuse in organizations. Students will learn how and why occupational fraud is committed, how fraud can be detected, how fraud can be deterred, and how to proceed if fraud is suspected. Emphasis is placed on asset misappropriation schemes, corruption, and financial statement fraud. Students will also learn how "big data" and the use of analytic techniques have changed fraud detection, investigation, and prevention.

Cross-listed Courses: ANL 730

ACT 740. Advanced Taxation Capstone Seminar. 3 Credit Hours.

This is a research-based capstone course to the Certification in Taxation. Students will spend a predominant amount of time researching code law, regulations, and case law. The instructor will spend considerable time with students in order to ascertain that students are including appropriate subject and reference material, conducting the fullest possible analysis of the selected tax law/case subject area, and completing the research at a satisfactory progress level. Prerequisite(s): ACT 701, ACT 721 and ACT 723 or equivalents with Accounting Chair or Director permission.

ACT 790. Special Topics in Accounting. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of accounting, as well as topics of current interest to students and instructors.

Accounting Major (B.S.)

The four-year undergraduate program will lead to a bachelor of science in business with a major in accounting. This program has been structured to qualify students for graduate study or the comprehensive outlook that will prepare them for entry into the business world. Without additional study, the four-year program does not meet the requirements for CPA licensure. Students are required to complete additional coursework to meet state mandated 150 hour requirements. These programs

are offered and require separate admission based on academic and professional standards while enrolled in the undergraduate program. Completion of this program in itself does not ensure admission into a 150-hour program.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Major Requirements		
ACT 301	Intermediate Accounting I	4
ACT 302	Intermediate Accounting II	4
ACT 303	Cost Accounting	3
ACT 310	Federal Income Tax for Individuals	3
ACT 401	Advanced Accounting	3
ACT 405	Auditing	3
ACT 410	Taxation of Business Entities	3
Select one of the following:		3-4
MTH 120	Mathematics for Business Majors	
MTH 122	Brief Calculus	
MTH 123	Mathematics for Act Majors	
MTH 145	Calculus I	
MTH 146	Calculus II	
Electives ⁴		
BUS/ACT Elective		6
Liberal Arts Electives		6
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 201	Introductory Accounting for Accounting Majors	3
ACT 202	Introductory Accounting II for Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3

FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Cultural Elective		3
Total Credit Hours		122

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

⁴ Accounting/business electives may not be taken pass/fail.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
ECO 113	Principles of Microeconomics	3
Select one of the following:		3
MTH 120	Mathematics for Business Majors	
MTH 122	Brief Calculus	
MTH 123	Mathematics for Act Majors	
MTH 145	Calculus I	
MTH 146	Calculus II	
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
ECO 114	Principles of Macroeconomics	3
BUS 150	Globalization in World of Differences (or World Language (EAC requirement))	3
Natural Science (p. 61)		3
Credit Hours		15
Sophomore Year		
First Semester		
ENG 210	Major Authors	3
Theology (p. 61)		3
Liberal Arts Elective (VPA/DIV)		3
STA 201	Statistics I	3
ACT 201	Introductory Accounting for Accounting Majors	3
Credit Hours		15
Second Semester		
PHL 210	Moral Philosophy	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
STA 202	Statistics II	3

ACT 202	Introductory Accounting II for Accounting Majors	3
Credit Hours		15

Junior Year**First Semester**

ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
ACT 301	Intermediate Accounting I	4
ACT 303	Cost Accounting	3
FIN 301	Principles of Finance	3
Credit Hours		16

Second Semester

Liberal Arts Elective (VPA, DIV, ENG 338 or 403)		3
Religion (p. 61)		3
ACT 302	Intermediate Accounting II	4
ACT 310	Federal Income Tax for Individuals	3
ACT/BUS Elective		3
Credit Hours		16

Senior Year**First Semester**

COR 400	Senior Studies: Transformations	3
ACT 401	Advanced Accounting	3
ANL 301	Business Analytics	3
MGT 301	Organizational Behavior	3
ACT 410	Taxation of Business Entities	3
Credit Hours		15

Second Semester

Liberal Arts Elective (VPA, DIV, ENG 338 or 403)		3
ACT 405	Auditing	3
BUS 470	Business Policy	3
MKT 301	Principles of Marketing	3
BUS/ACT Elective		3
Credit Hours		15
Total Credit Hours		122

Note: Electives must be chosen so that accounting and business courses total 62 hours and liberal arts and sciences courses total 60 hours. A program adjustment may be required to meet the constraints of limited offerings or limited class sizes in the service courses, which include all courses except those offered by the Department of Accounting. The Department of Accounting will accommodate the courses in the year specified.

Accounting Major/Information Systems Concentration (B.S.)

Accounting Major/Information Systems Concentration

Students majoring in accounting may pursue a concentration in information systems. Information systems courses tailored for this concentration enhance the students' knowledge of their primary accounting discipline, and integrate the use of information systems and technology with accounting. Accounting students pursuing a

concentration in information systems are required to enroll in the following courses:

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 201	Introductory Accounting for Accounting Majors	3
ACT 202	Introductory Accounting II for Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Cultural Requirement		3
Major Requirements		
ACT 301	Intermediate Accounting I	4
ACT 302	Intermediate Accounting II	4
ACT 303	Cost Accounting	3
ACT 310	Federal Income Tax for Individuals	3
ACT 401	Advanced Accounting	3
ACT 405	Auditing	3
ACT 410	Taxation of Business Entities	3
Select one of the following:		3-4
MTH 120	Mathematics for Business Majors	
MTH 122	Brief Calculus	
MTH 123	Mathematics for Act Majors	

MTH 145	Calculus I	
MTH 146	Calculus II	
Electives		
Liberal Arts Electives		6
Concentration Requirements		
MIS 350	Accounting Information Systems	3
MIS 455	Managing the Technological Enterprise	3
	or MIS 425 Distributed Enterprise Systems	
Choose two of the following: ⁴		3
MIS 375	Applied Systems Analysis	
MIS 460	Managing Systems Projects	
MIS 480	Database Management Systems	
CSC 165	Programming in Visual Basic With Visual Basics	
Total Credit Hours		122-126

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.
- ⁴ If students take CSC 165 Programming in Visual Basic With Visual Basics instead of the other MIS courses, they can use their liberal art elective. In this case, their liberal art elective will have only 3 remaining credits left, but their total number of credits will remain as 122-123. But if students take other MIS courses other than CSC 165 Programming in Visual Basic With Visual Basics, their liberal art elective will have 6 remaining credits left, but their total number of credits will be 125-126.

Accounting Minor

Code	Title	Credit Hours
Minor Requirements		
ACT 201	Introductory Accounting for Accounting Majors	3
	or ACT 203 Principles of Accounting I for Non Accounting Majors	
ACT 202	Introductory Accounting II for Accounting Majors	3
	or ACT 204 Principles of Accounting II for Non-Accounting Majors	
Any 3 300- or 400-level ACT electives		9
Total Credit Hours		15

Note: Students will not earn credit for both ACT 201 and 203. Students will not earn credit for both ACT 202 and 204. Courses for minor credit may not be taken pass/fail.

Accounting 150-Hour Program: B.S. in Accounting and M.B.A.

The 150-hour program in accounting leads to the simultaneous conferring of a Bachelor of Science in Accounting and Master of Business Administration (M.B.A.) at the completion of all program requirements. The program is structured to meet the education requirements of the New York State Education Department for C.P.A. Licensure. Students

must be admitted to the M.B.A. Program following the completion of ACT 302 Intermediate Accounting II. Typical requirements for admission to the M.B.A Program are as follows: GPA of 3.0 or above (not rounded) in accounting courses, a grade in ACT 301 and 302 (Intermediate Accounting I and II) of B or above, a GMAT score of 450 or above, and a cumulative GPA of 3.0 (not rounded) or above. The applicant must be of proper professional character, and provide professional references that are satisfactory to the admissions committee. Current or former Department of Accounting Faculty cannot provide references for any 150-hour program admission. One reference should come from another faculty member on the Le Moyne College Campus, and the second reference should come from a direct supervisor at any stated internship or job held per the applicant's resume. Students with a Cumulative GPA above a 3.30 (no rounding) may be exempt from the GMAT/GRE requirement. Please consult with the appropriate program director for further details.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
ACT 201	Introductory Accounting for Accounting Majors	3
ACT 202	Introductory Accounting II for Accounting Majors	3
ACT 410	Taxation of Business Entities	3
FIN 301	Principles of Finance	3
STA 201	Statistics I	3
STA 202	Statistics II	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
MIS 201	Introduction to Management Info Systems	3
LAW 200	Legal Environment of Business	3
Major Requirements		
ACT 301	Intermediate Accounting I	4
ACT 302	Intermediate Accounting II	4
ACT 303	Cost Accounting	3

ACT 310	Federal Income Tax for Individuals	3
ACT 401	Advanced Accounting	3
ACT 405	Auditing	3
ACT 406	Advanced Auditing	3
ACT 410	Taxation of Business Entities	3
Select one of the following accounting courses:		3
ACT 304	Advanced Cost Accounting	
ACT 390	Independent Study	
ACT 403	Government and Not-For-Profit Accounting	
ACT 420	Other Taxable Entities & Tax Procedures	
ACT 470	Accounting Theory and Research	
ACT 481-ACT 489	Special Topics in Accounting	
Select one of the following mathematics courses:		3-4
MTH 120	Mathematics for Business Majors	
MTH 122	Brief Calculus	
MTH 123	Mathematics for Act Majors	
MTH 145	Calculus I	
MTH 146	Calculus II	
Electives		
Free Elective ⁴		3
Liberal Arts Electives		9
Business/Accounting Elective		3
MBA Requirements		
Foundation Courses - Because these requirements are satisfied by the undergraduate curriculum, foundation courses will be waived. (If ENG 403 is not completed at the undergraduate level, BUS 501 is required at the graduate level, adding three hours to the MBA degree.)		3
ANL 601	Supply Chain Management	3
BUS 601	Business Ethics	3
BUS 602	Business Law	3
BUS 603	International Business	3
FIN 601	Financial Management	3
HRM 601	Human Resource Management	3
MGT 601	Org Dynamics: Leadership	3
MIS 601	Information Strategy and Management	3
MKT 601	Marketing Management	3
BUS 750	Strategic Management	3
MBA Electives		6
Total Credit Hours		152-154

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

⁴ Students waiving out of CSC 101 Introduction to Digital Technologies must substitute a liberal arts elective in its place. Free electives may be from either the liberal arts or the business/accounting areas.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
ECO 113	Principles of Microeconomics	3
Select one of the following:		3
MTH 120	Mathematics for Business Majors	
MTH 122	Brief Calculus	
MTH 123	Mathematics for Act Majors	
MTH 145	Calculus I	
MTH 146	Calculus II	
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
BUS 150	Globalization in World of Differences (or World Language (Either fulfills EAC Requirement))	3
ECO 114	Principles of Macroeconomics	3
Natural Science (p. 61)		3
Credit Hours		15
Sophomore Year		
First Semester		
ENG 210	Major Authors	3
Theology (p. 61)		3
Liberal Arts Elective (VPA, DIV or IDS)		3
STA 201	Statistics I	3
ACT 201	Introductory Accounting for Accounting Majors	3
Credit Hours		15
Second Semester		
PHL 210	Moral Philosophy	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
ACT 202	Introductory Accounting II for Accounting Majors	3
STA 202	Statistics II	3
Credit Hours		15
Junior Year		
First Semester		
ENG 310	Literature and Culture	3
Liberal Arts Elective (DIV, IDS or VPA)		3
ACT 301	Intermediate Accounting I	4
ACT 303	Cost Accounting	3
FIN 301	Principles of Finance	3
Credit Hours		16
Second Semester		
Liberal Arts Elective (VPA, DIV or IDS) ¹		3
Religion (p. 61)		3
ACT 302	Intermediate Accounting II	4

ACT 310	Federal Income Tax for Individuals	3
BUS/ACT Elective		3

Credit Hours 16

Senior Year

First Semester

COR 400	Senior Studies: Transformations	3
ACT 401	Advanced Accounting	3
MKT 601	Marketing Management	3
MGT 601	Org Dynamics: Leadership	3
ACT 410	Taxation of Business Entities	3

Credit Hours 15

Second Semester

Liberal Arts Elective (VPA, DIV or IDS) ¹		3
ACT 405	Auditing	3
ANL 601	Supply Chain Management	3
ACT Elective		3
BUS 602	Business Law	3

Credit Hours 15

Fifth Year

First Semester

FIN 601	Financial Management	3
HRM 601	Human Resource Management	3
MIS 601	Information Strategy and Management	3
MBA Elective ¹		3
ACT 406	Advanced Auditing	3

Credit Hours 15

Second Semester

BUS 601	Business Ethics	3
BUS 603	International Business ¹	3
MBA Elective ¹		3
Liberal Arts Elective (VPA, DIV, ENG 338, ENG 403) ¹		3
BUS 750	Strategic Management	3

Credit Hours 15

Total Credit Hours 152

¹ NOTE: A course in Business Communications must be taken. BUS 501, ENG 403 or ENG 338 satisfy that requirement.

Note: Graduate courses in the senior year should not be taken until completion of at least 90 credit hours and admission to the graduate program. Courses designated as fifth year courses should not be taken until completion of at least 120 credits and admission to the graduate program.

Accounting 150-Hour Program (B.S. in Accounting and M.S. in Information Systems)

The 150-hour program in accounting leads to the simultaneous conferring of a Bachelor of Science in Accounting and M.S. in Information Systems at the completion of all program requirements. The program is structured to meet the education requirements of the New York State Education

Department for C.P.A. Licensure. Students are typically admitted to the program following the completion of ACT 302.

Typical requirements for admission to the M.S. in Information Systems Program are as follows: GPA of 3.0 or above (not rounded) in accounting courses, a grade in ACT 301 and 302 (Intermediate Accounting I and II) of B or above, and a cumulative GPA of 3.0 (not rounded). A personal statement and resume is also required. The applicant must be of proper professional character, and provide professional references that are satisfactory to the admissions committee. Current or former Department of Accounting Faculty cannot provide references for any 150-hour program admission. One reference should come from another faculty member on the Le Moyne College Campus, and the second reference should come from a direct supervisor at any stated internship or job held per the applicant's resume. Students who have a Cumulative GPA of 3.0 or above (no rounding) may have the GMAT/GRE requirement waived by the Office of Graduate Admission at the time of application. Students should consult with the appropriate program director for further guidance.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
ACT 201	Introductory Accounting for Accounting Majors	3
ACT 202	Introductory Accounting II for Accounting Majors	3
FIN 301	Principles of Finance	3
STA 201	Statistics I	3
STA 202	Statistics II	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
MIS 201	Introduction to Management Info Systems	3
LAW 200	Legal Environment of Business	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
BUS 470	Business Policy	3

MGT 301	Organizational Behavior	3
Major Requirements		
ACT 301	Intermediate Accounting I	4
ACT 302	Intermediate Accounting II	4
ACT 303	Cost Accounting	3
ACT 310	Federal Income Tax for Individuals	3
ACT 401	Advanced Accounting	3
ACT 405	Auditing	3
ACT 406	Advanced Auditing	3
ACT 410	Taxation of Business Entities	3
ENG 403	Writing and Speaking in the Professions	3
Select one of the following mathematics courses:		3-4
MTH 120	Mathematics for Business Majors	
MTH 122	Brief Calculus	
MTH 123	Mathematics for Act Majors	
MTH 145	Calculus I	
MTH 146	Calculus II	
Electives		
Free Elective		3
Business/Accounting Elective		3
Liberal Arts Electives		9
M.S. in Information Systems Requirements		
ACT 550	Accounting Information Systems	3
MIS 601	Information Strategy and Management	3
MIS 701	Database Management Systems	3
MIS 703	Systems Analysis and Design	3
MIS 707	Risk Mgmt in Large Scale Systems	3
MIS 711	Managing Systems Projects	3
MIS 717	Managing the Technological Enterprise	3
or MIS 725 Distributed Enterprise Systems		
Select two of the following:		6
MIS 525	Introduction to Java Programming Programming	
MIS 535	Intro to Government Systems	
MIS 635	Client Side Web Applications Development	
MIS 690	Graduate Information Systems Independent Study	
MIS 710	Health Information Systems	
MIS 715	Mobile Applications & Business Strategies	
MIS 716	Business Intelligence	
MIS 725	Distributed Enterprise Systems	
MIS 730	Human Resource Information Systems	
MIS 740	Data Science	
MIS 771	Information Systems Research Methods	
MIS 785	Programming in Visual Basic With Visual Basic	
Choose one of the following Integrated Capstone Experiences:		3
BUS 790	Special Topics in Business	
BUS 799	Independent Study	
MIS 690	Graduate Information Systems Independent Study	
MIS 790	Spec'l Topics in Mgmt Info Syst	

MIS 796	Information Systems Internship	
MIS 799	Master's Thesis Research Project	
Total Credit Hours		152

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Course	Title	Credit Hours
Freshman Year		
First Semester		
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
ECO 113	Principles of Microeconomics	3
Select one of the following:		3
MTH 120	Mathematics for Business Majors	
MTH 122	Brief Calculus	
MTH 123	Mathematics for Act Majors	
MTH 145	Calculus I	
MTH 146	Calculus II	
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
BUS 150	Globalization in World of Differences (or World Language (Either fulfills EAC Requirement))	3
ECO 114	Principles of Macroeconomics	3
Natural Science (p. 61)		3
Credit Hours		15
Sophomore Year		
First Semester		
ENG 210	Major Authors	3
Theology (p. 61)		3
Liberal Arts Elective (DIV, VPA or IDS)		3
STA 201	Statistics I	3
ACT 201	Introductory Accounting for Accounting Majors	3
Credit Hours		15
Second Semester		
PHL 210	Moral Philosophy	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
STA 202	Statistics II	3
ACT 202	Introductory Accounting II for Accounting Majors	3
Credit Hours		15

Junior Year**First Semester**

ENG 310	Literature and Culture	3
	Business/Accounting Elective	3
ACT 301	Intermediate Accounting I	4
ACT 303	Cost Accounting	3
FIN 301	Principles of Finance	3
Credit Hours		16

Second Semester

	Liberal Arts Electives (DIV, VPA or IDS) ¹	6
ACT 302	Intermediate Accounting II	4
ACT 310	Federal Income Tax for Individuals	3
ANL 301	Business Analytics	3
Credit Hours		16

Senior Year**First Semester**

ACT 410	Taxation of Business Entities	3
ACT 401	Advanced Accounting	3
MGT 301	Organizational Behavior	3
MIS 707	Risk Mgmt in Large Scale Systems	3
MIS 711	Managing Systems Projects	3
Credit Hours		15

Second Semester

COR 400	Senior Studies: Transformations	3
ACT 405	Auditing	3
MIS 601	Information Strategy and Management	3
ACT 550	Accounting Information Systems ¹	3
MIS 701	Database Management Systems	3
Credit Hours		15

Fifth Year**First Semester**

ENG 403	Writing and Speaking in the Professions	3
	or ENG 338 or Writing in the Real World	
MKT 301	Principles of Marketing	3
ACT 406	Advanced Auditing	3
MIS 703	Systems Analysis and Design	3
MIS 716	Business Intelligence	3
Credit Hours		15

Second Semester

BUS 470	Business Policy	3
MIS 712	Information Systems and Network Security Cybersecurity	3
MIS 717	Managing the Technological Enterprise	3
MIS 740	Data Science	3
	Select one of the following:	3
	MIS 796 Information Systems Internship	
	MIS 799 Master's Thesis Research Project	
	MIS 790 Spec'l Topics in Mgmt Info Syst	
Credit Hours		15

Total Credit Hours 152

Note: Graduate courses in the senior year should not be taken until completion of at least 90 credit hours and confirmed admission to the graduate program. Courses designated as fifth year courses should not be taken until completion of at least 120 credits and admission to the graduate program.

M.S. in Taxation

The 30-credit Masters of Taxation program allows working professionals with an interest in taxation to develop the skills necessary to work in advanced fields of taxation. Students will complete nine courses in core taxation topics, and for the tenth course have the option to select any business elective offered by the Madden School of Business at the graduate level of student professional interest. Admission requirements for the 30 credit Masters in Taxation program entry are:

- Overall GPA of at least a 3.0 in a state registered accounting undergraduate degree program from AACSB accredited business school; or equivalent per discretion of admission committee.
- Accounting undergraduate GPA of at least 3.0 within the major.
- GMAT or GRE score of 450 or higher
- Written recommendations (two)
- Personal on campus interview with at least one member of the admissions committee.

Students with a degree in other business areas from an AACSB accredited business school may apply for admission under the same criteria as above, but must meet the below additional criteria:

Grade of B (3.0) or above in each of the following undergraduate accounting courses:

- Introductory Financial Accounting
- Introductory Management Accounting
- Personal Income Tax *
- Corporate Tax/Business Entity Taxation *

*Courses must be completed at the 300 level or above

Students from non-AACSB accredited business schools will be considered for admission, but at the discretion of the admissions committee. Higher minimum GPA's and/or GMAT scores may be required at the discretion of the admissions committee.

30 credit free-standing Masters of Science in Taxation program:

Course	Title	Credit Hours
Year I		
First Semester		
ACT 701	Advanced Federal Income Taxation	3
ACT 723	Tax Research and Practice	3
ACT 724	Advanced Taxation of Pass-Through Entities	3
ACT 725	Advanced Estate and Gift Tax	3
	ACT or Business Elective	3
Credit Hours		15
Second Semester		
ACT 702	Taxes & Business Strategy	3
ACT 721	Taxation of Corporations	3

¹ NOTE: ACT/MIS 550 must be taken with the "ACT" prefix.

ACT 726	Tax Accounting for Income Taxes	3
ACT 727	International Taxation	3
ACT 740	Advanced Taxation Capstone Seminar	3
Credit Hours		15
Total Credit Hours		30

BUSINESS ANALYTICS

Chair: George E. Kulick

Program Director: George E. Kulick (Business Analytics)

Professor: Greg M. Lepak

Associate Professor: George E. Kulick

Assistant Professor: Furkan Oztanriseven

Adjunct Faculty: Donald Lynch

Professor Emeritus: Ronald H. Wright

Business analytics is the discipline of applying quantitative analytical models to convert data into useful information to help make better business decisions. Business analytics consists of descriptive analytics (analyzing what has happened in the past), predictive analytics (predicting what could happen in the future) and prescriptive analytics (prescribing optimal actions that will result in the best outcomes).

The business analytics major introduces students to quantitative modeling and analysis. Students learn methods and techniques in the context of diagnosing and solving problems from different disciplines of business including finance, marketing, information systems and operations. A dual major in business analytics and either finance, information systems or marketing is available for those students who wish to complement their analytical skills with focused studies in these disciplines. Classes are held in a computer lab to provide hands-on real world experience in the art of modeling and analysis.

Student Learning Outcomes in Business Analytics

Basic Modeling Skills

Graduates will develop basic skills associated with building analytical models which support problem solving and decision making. These will include descriptive, predictive, and prescriptive analytical methodologies.

Applying Analytical Models in a Specific Applied Context

Graduates will develop the ability to apply basic analytical skills to solve problems in a functional business area. This will include the ability to identify necessary data, select and apply an analytical modeling technique, and make an appropriate recommendation.

Preparation of Formal Written Report

Graduates will develop the ability to produce a formal well-written report describing the creation of an analytical model used to solve a particular problem. The report will describe the modeling process to a reader not necessarily knowledgeable about particular modeling techniques. It will include appropriate sensitivity analysis and a clear recommendation based on the analytical results.

Delivery of Oral Presentation

Graduates will develop the ability to make a formal presentation describing the creation of an analytical model used to solve a particular problem. The presentation will describe the modeling process to an audience not necessarily knowledgeable about particular modeling techniques. It will include appropriate sensitivity analysis and a clear

recommendation based on the analytical results. The presentation will include a demonstration of the ability to respond to a variety of client questions with answers supported by analytical results.

- Business Analytics Major (B.S.) (p. 368)
- Business Analytics Dual Majors (B.S.) (p. 369)
- Business Analytics Minor (p. 371)

Business Analytics (ANL)

ANL 301. Business Analytics. 3 Credit Hours.

This course introduces quantitative modeling and analysis. The course includes applications from different disciplines of business including finance, marketing, information systems, and operations. The course focuses on diagnosing and solving business problems based on quantitative analysis. Modeling methods and techniques are introduced in the context of specific business situations. These techniques include forecasting, optimization, project management, supply chain management and planning, and system simulation.

Prerequisite: STA 201.

ANL 400. Applied Forecasting Analysis. 3 Credit Hours.

This course provides techniques for the parsimonious description of univariate and multivariate time-ordered data. Various models are discussed, including Box-Jenkins models, for purposes of inference, estimation, and prediction. Techniques of analysis are illustrated using actual data sets with emphasis on using the computer as an exploratory tool.

Prerequisite: STA 202 and ANL 301, or permission of instructor.

ANL 410. Supply Chain Analysis. 3 Credit Hours.

Industrial supply chains are integral part of contemporary business practices. This course will examine key issues related to the design and management of supply chains. It will include discussions on the integration of various parts of the supply chain including suppliers, factories, distribution centers, warehouses and retailers. Theories related to the efficient distribution of products to customers will be introduced. Also, management techniques addressing tradeoffs between cost and service will be discussed. Much of the course concepts will be covered through case studies and simulations.

Prerequisites: STA 202 and ANL 301.

ANL 415. Business Intelligence. 3 Credit Hours.

This course provides an introduction to Business Intelligence, including the processes, methodologies, infrastructure, and current practices used to transform business data into useful information and support business decision-making. Business Intelligence requires foundation knowledge in data storage and retrieval, thus this course will review logical data models for both database management systems and data warehouses. Students will learn to extract and manipulate data from these systems and assess security-related issues. Data mining, visualization, and statistical analysis along with reporting options such as management dashboards and balanced scorecards will be covered. Technologies utilized in the course included SAP Business Warehouse, SAP Business Objects, Crystal Reports, and RapidMiner.

Prerequisite: MIS 201 or permission of the instructor.

Cross-listed Courses: MIS 415, MKT 415, CTS 415

ANL 420. Strategic Management Analysis. 3 Credit Hours.

Management science analyses are the basis of many successful strategic decisions. This course introduces many of the management science techniques in the context of strategic decision making. These techniques include linear programming, transportation, decision theory, queuing theory, and simulation. The course entails analyzing cases from all business disciplines and evaluating various strategic decisions within the framework of these cases.

Prerequisites: STA 202 and ANL 301.

ANL 425. Marketing Analytics. 3 Credit Hours.

With the increased use of big data creating a paradigm shift in how marketers make decisions, the need to be able to extract meaningful information from this voluminous amount of data to make smarter decisions is becoming more important than ever. The course will provide students with the tools to develop a systematic, analytical approach to marketing decision making. The course aims at preparing students to (1) understand the value of competitive advantages leveraged by analytics; (2) understand the existence, advantages and limitations of different analytical approaches; and (3) to apply, interpret the input, and communicate the output from these tools and models, and apply them to help make fact-based decisions. The course takes on a hands-on experiential approach with real-world databases to facilitate the comprehension of the different analytical approaches discussed in class.

Prerequisites: MKT 301, STA 202.

Cross-listed Courses: MKT 420, MIS 420

ANL 430. Simulation and Risk Analysis. 3 Credit Hours.

This course is designed to provide students with basic understanding of concepts of simulation and provide them the opportunity to design several simulations for various applications (including fun and games). Methodologies are introduced in the context of financial and operations applications and include techniques for risk analysis. Models will include both event and process simulations. Simulation software packages are introduced as tools for problem solving.

Prerequisites: STA 202 and ANL 301.

ANL 435. Data Science. 3 Credit Hours.

This course will provide you the knowledge and techniques to approach phenomena analytically. Specially, you will learn the role and process of the data science lifecycle in understanding and gaining insight about phenomena, including how to ask the appropriate questions, identify the appropriate data and information needed, use the appropriate tools to analyze a large volume of data, evaluate the findings effectively with parameters, find the appropriate answers, and present the answers and compellingly. In the business context such knowledge can enable organizations to make quality decisions and develop important business strategies that can enhance organizational performance and that can contribute to significant financial gains. You will proficiently acquire such knowledge and techniques through class discussion, lectures, readings, as well as hand-on exercises. Prerequisite(s): STA 202 or MTH 112.

Cross-listed Courses: MIS 340, CTS 340

ANL 440. Machine Learning for Business Applications. 3 Credit Hours.

Machine learning, a subset of artificial intelligence, gives computers the capability to learn from data, identify patterns, and make decisions without being explicitly programmed. This course will cover different supervised and unsupervised machine learning algorithms, and their applications to structured and unstructured data including financial, marketing, health care, social media, entertainment, and socio-economic data. Four main problem domains will be covered (i) regression, (ii) classification, (iii) clustering, and (iv) association. Using machine learning to transform data into business decisions and communication of the results and insights from the analysis will be emphasized throughout the course. This course does not assume any prior exposure to machine learning theory or practice. Prerequisite(s): ANL 301 and STA 202, or permission of department chair.

Cross-listed Courses: MIS 440

ANL 601. Supply Chain Management. 3 Credit Hours.

This course provides the analytical experience for modeling manufacturing and service systems, and the understanding of how they utilize limited resources to provide goods and services. The course introduces students to different quantitative techniques and decision-making approaches and their applications to operations management problems. The problem-solving approach also involves the use of several personal computer packages containing management science and operations research programs. Topics include forecasting, facility layout, production processes, planning, scheduling, resource allocation, inventory systems, project management, decision analysis and quality control. Recommended prerequisites: STA 501 and MIS 501.

ANL 701. Forecasting. 3 Credit Hours.

This course provides techniques for the parsimonious description of univariate time-ordered data. Various models are discussed for purposes of estimation and predication, including Box-Jenkins models, dynamic regression models, and other selected models in multivariate time series analysis and forecasting. Techniques of analysis are illustrated using actual data sets with emphasis on using the computer as an exploratory tool.

Prerequisite: ANL 601.

ANL 702. Cases in Business Analytics. 3 Credit Hours.

This course is designed to provide students with problem-solving skills in the field of quantitative management. The case approach is adopted to introduce complex real life examples to student-teams in a competitive environment. The course also introduces theoretical grounds for some analytical models emphasizing the assumptions and limitations of these models. The assigned cases include applications of regression, networking, linear programming, PERT, queuing theory, decision making under uncertainty and simulation. The students are required to use available computer packages as problem-solving tools and are encouraged to conduct sensitivity (what-if) analysis in their decision making approaches.

Prerequisite: ANL 601.

ANL 705. Advanced Business Analytics. 3 Credit Hours.

Data is useful if relevant and insightful information can be extracted from it to better understand the past (descriptive analytics), anticipate future events (predictive analytics), and direct the course of the best decision (prescriptive analytics). This course will cover different supervised and unsupervised machine learning algorithms, and their applications to structured and unstructured data including financial marketing, health care, social media, entertainment, and socio-economic data. An effective communication of the results and insights from the analysis, including via well-designed visualizations will be emphasized throughout the course. This course does not assume any prior exposure to machine learning theory or practice.

Prerequisite: ANL 601.

Cross-listed Courses: MIS 705

ANL 716. Business Intelligence. 3 Credit Hours.

This course provides an introduction to Business Intelligence, including the processes, methodologies, infrastructure, and current practices used to transform business data into useful information and support business decision-making. Business Intelligence requires foundation knowledge in data storage and retrieval, thus this course will review logical data models for both database management systems and data warehouses. Students will learn to extract and manipulate data from these systems and assess security-related issues. Data mining, visualization, and statistical analysis along with reporting options such as management dashboards and balanced scorecards will be covered. Technologies utilized in the course included SAP Business Warehouse, SAP Business Objects, Crystal Reports, and RapidMiner.

Prerequisite: MIS 501 or permission of the instructor.

Cross-listed Courses: MIS 716

ANL 719. Marketing Analytics. 3 Credit Hours.

In a world where data is more valuable than oil, the need to apply cutting-edge computational analyses, in addition to conventional statistical approaches, to derive meaning from large noisy databases and provide insight into understanding the outcome of marketing strategies is becoming more important than ever. This course will teach students how to leverage data and use analytics to form impactful marketing strategies. By learning the different analytical approaches and how to apply them to make marketing decisions, students enhance their understanding of the importance of marketing analytics.

Prerequisites: MKT 601, STA 501, and MIS 501.

Cross-listed Courses: MKT 719, MIS 719

ANL 720. Cases in Business Analytics. 3 Credit Hours.

This course is designed to provide students with problem-solving skills in the field of quantitative management. The case approach is adopted to introduce complex real-life examples to student-teams in a competitive environment. The course also introduces theoretical grounds for some analytical models emphasizing the assumptions and limitations of these models. The assigned cases include applications of simulation. The students are required to use available computer packages as problem-solving tools and are encouraged to conduct sensitivity (what-if) analysis in their decision-making approaches.

Prerequisite: ANL 601.

ANL 730. Forensic Analytics. 3 Credit Hours.

This course examines the nature of occupational fraud and abuse in organizations. Students will learn how and why occupational fraud is committed, how fraud can be detected, how fraud can be deterred, and how to proceed if fraud is suspected. Emphasis is placed on asset misappropriation schemes, corruption, and financial statement fraud. Students will also learn how "big data" and the use of analytic techniques have changed fraud detection, investigation, and prevention.

Cross-listed Courses: ACT 730

ANL 740. Data Science. 3 Credit Hours.

This course will provide you the knowledge and techniques to approach phenomena analytically. Specially, you will learn the role and process of the data science lifecycle in understanding and gaining insight about phenomena, including how to ask the appropriate questions, identify the appropriate data and information needed, use the appropriate tools to analyze a large volume of data, evaluate the findings effectively with parameters, find the appropriate answers, and present the answers and compellingly. In the business context such knowledge can enable organizations to make quality decisions and develop important business strategies that can enhance organizational performance and that can contribute to significant financial gains. You will proficiently acquire such knowledge and techniques through class discussion, lectures, readings, as well as hand-on exercises. Prerequisite(s): STA 501.

Cross-listed Courses: MIS 740

ANL 790. Special Topics in Business Analytics. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of operations management, as well as topics of current interest to students and instructors.

ANL 799. Strategic Analytics. 3 Credit Hours.

Strategic Analytics calls for viewing organizations as a whole and as entities adapting to and acting upon their external environments. Understanding external environments, articulating an inspiring mission, developing an appreciation for, and building new capabilities are critical to the formulation of strategies that will succeed on the national and global levels. The content and process of the capstone course have been designed to provide a rigorous, integrative experience in analytics theories in a variety of environments. Through lectures and discussions of articles, students are exposed to seminal theory on analytics. In addition, leadership specific, integrative thinking and communication skills are developed throughout the discussions of the articles and cases. This course is project based. Students will develop an organizational strategy based on the knowledge they obtained from their ANL courses, for an organization.

Prerequisite: ANL 601.

Statistics (STA)

STA 201. Statistics I. 3 Credit Hours.

These courses investigate the use of statistical methods in the process of optimizing decisions under uncertainty. Applications in the first semester involve the use of such statistical topics as descriptive statistics, frequency distribution, measures of central tendency and dispersion, probability and sampling theory. The second semester incorporates applications of analysis of variance, regression and correlation analysis, statistical decision making, Bayesian statistical decision making and value theory. Second semester presupposes the first.

STA 202. Statistics II. 3 Credit Hours.

These courses investigate the use of statistical methods in the process of optimizing decisions under uncertainty. Applications in the first semester involve the use of such statistical topics as descriptive statistics, frequency distribution, measures of central tendency and dispersion, probability and sampling theory. The second semester incorporates applications of analysis of variance, regression and correlation analysis, statistical decision making, Bayesian statistical decision making and value theory.

Prerequisite: STA 201.

STA 501. Quantitative Decision Making. 3 Credit Hours.

This course provides the principles of statistical inference. Probability, random variables, univariate distribution theory, hypothesis testing and estimation theory will be the focus of the first part of the course. Additional topics are selected from decision theory, nonparametric methods and linear modeling. Emphasis is placed on the use of statistical software packages to handle practical statistical analyses.

Business Analytics Major (B.S.)

Beyond the introductory course ANL 301 Business Analytics, five additional ANL courses are required for the major. Any 5 additional ANL courses can be chosen.

Students majoring in business analytics are required to enroll in the following courses:

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3

LAW 200	Legal Environment of Business	3
MGT 301	Organizational Behavior	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3

Major Requirements - choose any 5 additional ANL courses from the following list		
ANL 400	Applied Forecasting Analysis	3
ANL 410	Supply Chain Analysis	3
ANL 415	Business Intelligence	3
ANL 420	Strategic Management Analysis	3
ANL 425	Marketing Analytics	3
ANL 430	Simulation and Risk Analysis	3
ANL 435	Data Science	3
ANL 440	Machine Learning for Business Applications	3

Electives	
Liberal Arts Electives	6
Electives	12
Total Credit Hours	120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Course	Title	Credit Hours
Freshman Year		
First Semester		
STA 201	Statistics I	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
BUS 150	Globalization in World of Differences	3
Credit Hours		15
Second Semester		
Mathematics (p. 61)		3
STA 202	Statistics II	3
PHL 110	Introduction to Philosophy	3
Natural Science (p. 61)		3
HST 111	World Civilization II	3
Credit Hours		15

Sophomore Year		
First Semester		
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ANL 301	Business Analytics	3
ECO 113	Principles of Microeconomics	3
ENG 210	Major Authors	3

Theology (p. 61)	3
Credit Hours	15
Second Semester	
ACT 204 Principles of Accounting II for Non-Accounting Majors	3
MKT 301 Principles of Marketing	3
ECO 114 Principles of Macroeconomics	3
MIS 201 Introduction to Management Info Systems	3
PHL 210 Moral Philosophy	3
Credit Hours	15
Junior Year	
First Semester	
ANL Elective	3
LAW 200 Legal Environment of Business	3
ENG 310 Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)	3
FIN 301 Principles of Finance	3
Credit Hours	15
Second Semester	
ANL Elective	3
MGT 301 Organizational Behavior	3
EAC Encountering Another Culture/Language (p. 61)	3
Elective	3
Elective	3
Credit Hours	15
Senior Year	
First Semester	
ANL Elective	3
ANL Elective	3
Religion (p. 61)	3
COR 400 Senior Studies: Transformations	3
Liberal Arts Elective	3
Credit Hours	15
Second Semester	
ANL Elective	3
BUS 470 Business Policy	3
Liberal Arts Elective	3
Elective	3
Elective	3
Credit Hours	15
Total Credit Hours	120

Business Analytics Dual Majors (B.S.)

Because of the interdisciplinary nature of the major, many students combine the business analytics major with a second major, specifically marketing, finance or information systems.

Dual Major (B.S.) in Marketing and Business Analytics

Marketing majors interested in pursuing a dual major in business analytics need to complete the following courses:

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non-Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
MKT 401	Marketing Research	3
MKT 402	Marketing Management	3
Select two MKT Electives (one will count as a business analytics elective)		6
Choose any four of the following ANL courses:		12
ANL 400	Applied Forecasting Analysis	
ANL 410	Supply Chain Analysis (which will also count as a marketing elective)	
ANL 415	Business Intelligence	
ANL 420	Strategic Management Analysis	
ANL 425	Marketing Analytics	
ANL 430	Simulation and Risk Analysis	
ANL 435	Data Science	
ANL 440	Machine Learning for Business Applications	

Electives	
Liberal Arts Electives	6
Electives	3
Total Credit Hours	120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Dual Major (B.S.) in Finance and Business Analytics

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
FIN 401	Investments	3

FIN 405	Corporate Finance	3
FIN elective		6
Choose any four of the following ANL courses:		12
ANL 400	Applied Forecasting Analysis	
ANL 410	Supply Chain Analysis	
ANL 415	Business Intelligence	
ANL 420	Strategic Management Analysis	
ANL 425	Marketing Analytics	
ANL 430	Simulation and Risk Analysis (will also count as a finance elective)	
ANL 435	Data Science	
ANL 440	Machine Learning for Business Applications	

Electives	
Liberal Arts Electives	6
Electives	3
Total Credit Hours	120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Dual Major (B.S.) in Business Analytics and Information Systems

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3

ACT 204	Principles of Accounting II for Non-Accounting Majors	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
MIS 455	Managing the Technological Enterprise	3
	or MIS 425 Distributed Enterprise Systems	
MIS 480	Database Management Systems	3
Choose any four of the following ANL courses:		12
ANL 400	Applied Forecasting Analysis	
ANL 410	Supply Chain Analysis	
ANL 415	Business Intelligence	
ANL 420	Strategic Management Analysis	
ANL 425	Marketing Analytics	
ANL 430	Simulation and Risk Analysis	
ANL 435	Data Science	
ANL 440	Machine Learning for Business Applications	
Two information systems courses (one of which will count as a business analytics elective) ⁴		6
Electives		
Liberal Arts Electives		6
Electives		3
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

⁴ MIS 340 Data Science, MIS 375 Applied Systems Analysis, MIS 415 Business Intelligence, MIS 420 Marketing Analytics and are recommended.

Business Analytics Minor

Students from any major who are interested in pursuing a minor in business analytics need to complete the following courses:

Code	Title	Credit Hours
Minor Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ANL 301	Business Analytics	3

Select any three 400-level ANL courses 9

Total Credit Hours 18

Students who have completed equivalent course work in statistics (e.g., MTH 110 Introduction to Statistics I (no Computer Lab), MTH 111 Introduction to Statistics I (with Computer Lab), MTH 112 Introduction to Statistics II) may have the corresponding STA courses waived.

FINANCE

Chair: George E. Kulick

Program Director: Chandan K. Jha

Associate Professor: Chandan K. Jha

Assistant Professor: Heng Wang

Visiting Professor: Jin Hu Qian

Finance is the study of the allocation of scarce financial resources to maximize their utility. Students in the finance program study the science and art of making investment and financing decisions under conditions of uncertainty at both the individual and institutional levels. For example, students learn how to answer questions such as:

- How do we evaluate a corporate investment project, and how should we finance the project?
- How do we manage a portfolio through the allocation of capital among different asset classes so as to maximize the portfolio's return while maintaining an acceptable level of risk?
- How do we identify and manage risk in a constantly changing market?
- How can we use opportunities scattered throughout the international financial markets to balance the trade-off between risk and return?

Students will explore the theories and practices of topics such as asset allocation, portfolio management, capital budgeting, securities markets, risk management, and international finance. Our finance program emphasizes the development of analytical skills to solve practical issues that arise in dynamic financial environments.

Students who major in finance take courses such as Managerial Finance, Financial Institutions and Capital Markets, Investments, Banking, International Financial Management, and Corporate Risk Management.

Students also have the opportunity to pursue a dual major in finance and either business analytics or information systems.

Student Learning Outcomes in Finance

Students who graduate from this program will be able to:

Concepts and principles

Identify, explain, and articulate complex concepts and principles in different areas of finance.

Solve finance problems

Apply analytical and critical thinking skills along with utilizing a number of tools including finance theories, data, and technological means to solve complex financial problems.

Address ethical dilemmas

Make sound and defensible decisions when dealing with ethical dilemmas related to financial issues.

- Finance Major (B.S.) (p. 374)
- Dual Major (B.S.) in Finance and Business Analytics (p. 376)
- Dual Major (B.S.) in Finance and Information Systems (p. 376)

- Finance Minor for Non-Business Majors (p. 377)

Finance (FIN)

FIN 200. Introduction to Business Finance. 3 Credit Hours.

This course introduces various financial decisions that are made in business. Topics include "Time Value of Money" and its role in financial decision, Capital financing decision, risk analysis and portfolio decision, capital budgeting and investment decision, working capital management decision, and ethical issues in finance. NOTE: FIN 200 cannot substitute for FIN 301. Or with Department Chair's approval. Prerequisites: ECO 113, MTH 110 or STA 201.

FIN 201. Personal Finance. 3 Credit Hours.

A survey of the business and economic decisions that an individual makes in his or her personal life. Information base covers; savings, general investing, credit and critical thinking skills with respect to personal financial planning concepts. Course will be taught in Le Moyne's newly established Trading Center to provide real world investment experience and provide students with the opportunity to manage their own personal mock investment portfolio. Open to both non-business and business students.

FIN 228. Financial Mkts & Institutions. 3 Credit Hours.

This course is designed to give a conceptual understanding of different types and functions of financial institutions and financial markets. The purpose of this course is to provide students with an introduction to the financial system and economic analysis, including major financial markets, financial institutions, and financial instruments. Its topics include foreign exchange rates, interest rates, monetary policy, money markets, and capital markets, securities offerings, valuation and risk in the various markets, operations and management of central bank and commercial banks.

Prerequisites: ECO 113 and ECO 114.

Cross-listed Courses: ECO 228

FIN 301. Principles of Finance. 3 Credit Hours.

This course introduces various functional areas of finance. It introduces topics on financial statements and analysis, the time value of money, the risk-return trade-off, characteristics and valuation of stocks and bonds, techniques on capital budgeting, cost of capital, and basics of investments. This course also introduces ethical issues in finance through various topics covered in the course.

Prerequisites: ACT 201 or ACT 203, STA 201, ECO 113 and ECO 114.

FIN 401. Investments. 3 Credit Hours.

This course is an introduction to modern investment theories and practice. It covers important issues facing an investor in capital markets. The topics include portfolio theory and management, asset pricing models in capital markets, fixed-income securities and equity valuation, investment performance evaluation and derivative securities.

Prerequisite: FIN 301.

FIN 405. Corporate Finance. 3 Credit Hours.

Advanced coverage of corporate finance issues, including capital budgeting, capital structure, dividend policy, corporate governance, merger and acquisition, public and private offerings and bankruptcy and reorganization.

Prerequisite: FIN 301.

FIN 450. Banking. 3 Credit Hours.

Banking as a business, how banks augment money supply; their role in loans, investments and credit management; the mechanisms of interbank transfers of payments within and outside national boundaries; commercial banks, mutual banks, savings and loan associations, credit unions, etc., and the nature and scope of their operations; regulations of banks by the central bank and other governmental agencies.

Recommended prerequisite: FIN 365.

FIN 455. International Financial Management. 3 Credit Hours.

A study of international financial markets where different currencies are used by international institutions, such as multinational banks and corporations. A recent development of business globalization has created an environment that requires business students to understand and apply basic financial management tools necessary for evaluation of international markets. The course focuses on foreign exchange rate, risk management, regulatory environment and short- and long-term financing of multinational institutions.

Prerequisite: FIN 301 or permission of instructor.

FIN 460. Financial Derivatives. 3 Credit Hours.

This course introduces various derivative securities such as options, forward contracts, futures contracts, and swaps. The key focus of the course will be how to use these derivatives in financial risk management by institutions and investors. The course will focus on both theoretical models and their applications in financial markets. Emphasis will be given to application of derivatives in hedging and recent developments in the practice of financial risk management using derivatives.

Prerequisite: FIN 401.

Cross-listed Courses: RMI 461

FIN 465. Distress Investing. 3 Credit Hours.

The purpose of this course is to provide the student with the needed tools to understand and learn the discipline of distress investing. Distress investing is one of the areas of "Fundamental Finance". Other areas of "Fundamental Finance" include Value Investing, Control Investing, Credit Analysis, and First and Second Stage Venture Capital Investing. This is a course about business valuation, corporate finance, bankruptcy law and security analysis with an emphasis on analyzing public companies that are in financial distress, from the bottom up. This is in sharp contrast to traditional academic finance, which is heavily top down and assumes there is substantive consolidation between the company and its constituencies (managements, stockholders, bondholders, trade vendors, etc.).

Prerequisites: FIN 301 or FIN 601 or equivalent.

FIN 467. Modern Security Analysis. 3 Credit Hours.

The purpose of the course is to provide the student with the needed knowledge and analytical tools to understand and learn the discipline of modern security analysis. The course will focus on business valuation, advanced corporate finance and security analysis with an emphasis on analyzing public companies from the bottom up (as stand-alone, separate and distinct from shareholders, managements, creditors, regulators). The course is centered on the valuation of businesses and how corporate values are reflected or not reflected in public security prices and why.

Secondary topics discussed include elements of corporate law, securities law, credit analysis, and financial accounting as related to security analysis. Prerequisite(s): FIN 301 or FIN 601 or equivalent.

Cross-listed Courses: FIN 667

FIN 470. Fixed Income Securities. 3 Credit Hours.

This course focuses on valuation and application of various fixed-income securities for corporations and investors. Students will learn concepts, tools, and various uses of fixed income securities available in financial markets such as investing, hedging, and market making. Additional topics to be covered are term structure modeling, option-embedded bond analysis, pooling and trenching of cash flows, asset-liability management, hedging with interest rate derivatives, mortgage-backed securities (MBS), and collateralized debt obligations (CDOs).

Prerequisite: FIN 301.

FIN 475. Investment Management. 3 Credit Hours.

This course focuses on a survey of investment theory, security analysis and portfolio management. Practical investments in domestic and international financial markets through various investment techniques will be utilized. Focus on performance evaluation and measures of improving investment performance will be emphasized in the course. This course uses large data bases, applying various financial models, in investment decisions.

Prerequisite: FIN 401.

FIN 480. Advanced Cases in Finance. 3 Credit Hours.

This is an applied, advanced course in finance where students study, review, and evaluate the corporate financial decisions and events in the corporate world. Students will use their theoretical knowledge to evaluate how corporate decisions mesh with the theory. It develops their critical thinking and analytic ability to understand and evaluate corporate financial decisions/event.

Prerequisite: FIN 360.

FIN 481. Financial Modeling. 3 Credit Hours.

The purpose of this course is to provide the student with the needed tools to understand and learn how to create financial models for real world publicly traded companies, that can be used for investment banking purposes as well as value investing purposes. The skills that will be acquired integrate knowledge from the fields of Corporate Finance, Accounting, Corporate law, Securities Law, Derivatives, and other disciplines. Moreover, throughout the course students will learn how to use Excel and VBA to create these models in such a way that will make students ready to competently produce and use them. This course is focused exclusively on modeling the financial statements of publicly-traded companies with a view to using those models in investment banking, equity research, and credit analysis research.

Prerequisite: FIN 401.

FIN 492. Dolphin Green & Gold Fund Internship II. 3 Credit Hours.

A real-world learning experience is provided through a financial investment internship opportunity. The goal of this program is to provide students with experiential learning in a financial, investment work environment. Working for the Dolphin Green & Gold Fund will provide students with supervision and instruction, and opportunities to make important investment recommendations. Pass/Fail only.

Prerequisite: FIN 491 and permission of the Madden School of Business Dean.

FIN 601. Financial Management. 3 Credit Hours.

Introduction to the theory and practice of real and financial asset decision making. Topics include short and long term financial planning, capital budgeting, capital structure, option pricing and hedging financial risk, domestic and global financial markets, financial ethics. Case analysis, group and individual projects and use of commercially available financial software packages provide students with ample opportunities to implement financial decisions. Recommended prerequisites: ACT 501 and STA 501.

FIN 665. Distress Investing. 3 Credit Hours.

The purpose of this course is to provide the student with the needed tools to understand and learn the discipline of distress investing. Distress investing is one of the areas of "Fundamental Finance". Other areas of "Fundamental Finance" include Value Investing, Control Investing, Credit Analysis, and First and Second Stage Venture Capital Investing. This is a course about business valuation, corporate finance, bankruptcy law and security analysis with an emphasis on analyzing public companies that are in financial distress, from the bottom up. This is in sharp contrast to traditional academic finance, which is heavily top down and assumes there is substantive consolidation between the company and its constituencies (managements, stockholders, bondholders, trade vendors, etc.).

Prerequisites: FIN 301 or FIN 601 or equivalent.

FIN 667. Modern Security Analysis. 3 Credit Hours.

The purpose of the course is to provide the student with the needed knowledge and analytical tools to understand and learn the discipline of modern security analysis. The course will focus on business valuation, advanced corporate finance and security analysis with an emphasis on analyzing public companies from the bottom up (as stand-alone, separate and distinct from shareholders, managements, creditors, regulators). The course is centered on the valuation of businesses and how corporate values are reflected or not reflected in public security prices and why. Secondary topics discussed include elements of corporate law, securities law, credit analysis, and financial accounting as related to security analysis.

Prerequisite: FIN 301 or FIN 601 or equivalent.

Cross-listed Courses: FIN 467

FIN 701. Investment Management. 3 Credit Hours.

A survey of investment theory, security analysis and portfolio management with applications to domestic and international markets. Efficient capital markets, development of innovative financial instruments and portfolio hedging topics are emphasized. Cases and projects are required.

Prerequisite: FIN 601.

FIN 790. Special Topics in Finance. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of finance, as well as topics of current interest to students and instructors.

B.S., Business: Finance

Le Moyne College seeks to prepare students for leadership and service in their personal and professional lives and to promote a more just society. Building upon the learning experiences provided through the core curriculum, the Bachelor of Science in Business: Finance Degree Program provides students majoring in Finance with a comprehensive introduction to multiple business disciplines as well as a strong foundation in core financial

areas. Finance majors will be prepared for financial management and decision-making positions in corporate institutions, government and nonprofit organizations. To further enhance and strengthen the professional competencies of our finance majors, the program provides two concentrations within the degree: Corporate Finance and Investment Management. These concentrations allow students a choice between (a) focusing on a traditional Finance curriculum with opportunities to explore areas that are of special interest to them (such as banking, international financial management, etc.) and (b) a curriculum designed to prepare them academically for careers as financial analysts and investment bankers - culminating with an experiential learning opportunity through participation in a student-managed investment fund.

Students majoring in finance are required to enroll in the following courses:

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
MTH 120	Mathematics for Business Majors	3
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3

Concentration Requirements

Select one of the following concentrations: Corporate Finance or Investment Management. 15

Electives

Liberal Arts Electives	6
Electives	6
Total Credit Hours	120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Students have the choice of the following concentrations:

Corporate Finance

Code	Title	Credit Hours
Corporate Finance Requirements		
FIN 228	Financial Mkts & Institutions	3
FIN 401	Investments	3
FIN 405	Corporate Finance	3
Choose two of the following:		6
FIN 450	Banking	
FIN 455	International Financial Management	
FIN 460	Financial Derivatives	
FIN 465	Distress Investing	
FIN 467	Modern Security Analysis	
FIN 481	Financial Modeling	
Total Credit Hours		15

Investment Management

Code	Title	Credit Hours
Investment Management Requirements		
FIN 228	Financial Mkts & Institutions	3
FIN 401	Investments	3
FIN 405	Corporate Finance	3
FIN 481	Financial Modeling	3
Choose one of the following:		3
FIN 460	Financial Derivatives	
FIN 465	Distress Investing	
FIN 467	Modern Security Analysis	
Total Credit Hours		15

Course	Title	Credit Hours
Freshman Year		
First Semester		
HST 110	World Civilization I	3
STA 201	Statistics I	3
COR 100	First Year Seminars: Transitions	3

WRT 101	Critical Writing	3
BUS 150	Globalization in World of Differences	3
Credit Hours		15

Second Semester

PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
ECO 113	Principles of Microeconomics	3
STA 202	Statistics II	3
Mathematics (p. 61)		3
Credit Hours		15

Sophomore Year

First Semester

ECO 114	Principles of Macroeconomics	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ENG 210	Major Authors	3
ANL 301	Business Analytics	3
Theology (p. 61)		3
Credit Hours		15

Second Semester

ACT 204	Principles of Accounting II for Non-Accounting Majors	3
PHL 210	Moral Philosophy	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
FIN 301	Principles of Finance	3
Credit Hours		15

Junior Year

First Semester

ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
MGT 301	Organizational Behavior	3
LAW 200	Legal Environment of Business	3
FIN 401	Investments	3
Credit Hours		15

Second Semester

FIN 405	Corporate Finance	3
FIN Electives		3
EAC Encountering Another Culture/Language (p. 61)		3
Elective		3
Liberal Arts Elective		3
Credit Hours		15

Senior Year

First Semester

FIN Elective		3
Elective		3
Liberal Arts Elective		3
Religion (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
Credit Hours		15

Second Semester

FIN 228	Financial Mkts & Institutions	3
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Elective		3
Elective		3
COR 400	Senior Studies: Transformations	3
BUS 470	Business Policy	3
Credit Hours		15
Total Credit Hours		120

Dual Major (B.S.) in Finance and Business Analytics

Dual Major (B.S.) in Finance and Business Analytics

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
FIN 401	Investments	3
FIN 405	Corporate Finance	3

FIN elective	6
Choose any four of the following ANL courses:	12
ANL 400	Applied Forecasting Analysis
ANL 410	Supply Chain Analysis
ANL 415	Business Intelligence
ANL 420	Strategic Management Analysis
ANL 425	Marketing Analytics
ANL 430	Simulation and Risk Analysis (will also count as a finance elective)
ANL 435	Data Science
ANL 440	Machine Learning for Business Applications

Electives	
Liberal Arts Electives	6
Electives	3
Total Credit Hours	120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Dual Major (B.S.) in Finance and Information Systems

Dual Major (B.S.) in Finance and Information Systems

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3

ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
FIN 401	Investments	3
FIN 405	Corporate Finance	3
Finance elective		6
MIS 455	Managing the Technological Enterprise or MIS 425 Distributed Enterprise Systems	3
MIS 480	Database Management Systems	3
Two MIS electives ⁴		6
Electives		
Liberal Arts Electives		6
Electives		3
Total Credit Hours		120

FIN 405	Corporate Finance	3
Elective courses		6
Total Credit Hours		15

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Can be waived by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.
- ³ Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ⁴ Recommended MIS electives: ACT 350 Accounting Information Systems/MIS 350 Accounting Information Systems, MIS 375 Applied Systems Analysis, MIS 340 Data Science, MIS 415 Business Intelligence, MIS 478 Financial Telecomm & Cybersecurity.

Finance Minor for Non-Business Majors

The Finance minor for non-business majors at Le Moyne College prepares the students to start a career in the financial industry and for higher education in finance and related fields. In the required courses, students learn core concepts of finance such as the time value of money, security valuation process, portfolio management, and capital budgeting. Additionally, students can choose from a variety of elective courses that offer in-depth knowledge of specialized topics such as banking, international finance, derivatives, and financial modeling. The minor will provide the students with a variety of majors such as economics, mathematics, and physics to have a career in finance.

Code	Title	Credit Hours
Required courses: 9 credit hours		
FIN 301	Principles of Finance	3
FIN 401	Investments	3

HUMAN RESOURCE MANAGEMENT

Chair: Renée V. Downey

Program Director: Renée V. Downey (of Human Resource Management)

Professor: Bernard A. Arogyaswamy

Assistant Professor: Jared Law-Penrose

Professor of Practice: Renée V. Downey

Adjunct Faculty: Anthony Kumiega, Philip Mazza, Anne Orr

The human resources field has evolved much since the inception of personnel, the office where one was hired, tracked and sometimes fired. Today human resources professionals are strategic partners, tactically planning the talent needs of the organization for optimum performance. The HR office seeks and optimizes the best people, engaging and retaining them, and ensuring their skills are maximized. Key areas for which HR professionals are responsible include talent sourcing, compensation and benefits, employee development and legal compliance.

Human resource graduates are in demand as corporate recruiters, benefits specialists and organizational learning officers. Technically-oriented HR professionals have opportunities in human resource information systems and compensation analysis. Whether specializing in a large company, or acting as an HR generalist in smaller organizations, human resources offers multi-faceted career opportunities for graduates.

Student Learning Outcomes in Human Resource Management

Students who graduate from this program will be able to:

- Understand the tenets of **employment law** to hire, onboard and retain employees in a non-discriminatory process and environment.
- Create and execute a position-specific **structured interview process** to vet candidates toward an efficient and successful hire.
- Identify and understand the tenets of a **positive workplace** which supports employee satisfaction, retention and performance.
- Evaluate and identify the usefulness and **relevance of resources** to support their academic and professional work.
- Human Resource Management Major (B.S.) (p. 379)
- Human Resource Management Minor (p. 380)
- Human Resource Management Dual Majors (B.S.) (p. 381)

Human Resource Management (HRM)

HRM 301. Human Resource Management. 3 Credit Hours.

The course is designed to survey the field of human resource management: the goals, major issues, current practices and possibilities for the future. Techniques involved in staffing, selecting, training, performance appraisal, compensation, development and labor-management relations are discussed in lectures and practiced in skill-development exercises. Not open to students who have taken MGT 305.

HRM 403. Total Rewards: Compensation & Benefits. 3 Credit Hours.

This course examines the theory and application of total rewards, the tools that are available to attract, motivate and retain employees. Topics include theory, techniques and problems in job analysis and evaluation, performance appraisal and developing wage and salary systems. Prerequisite: HRM 301.

HRM 404. Talent Management: Performance and Retention. 3 Credit Hours.

This course examines the theory, problems and techniques in personnel planning, recruiting, and selecting employees. Sourcing and vetting candidates, attracting the best talent, hiring for job fit, onboarding and building an engaged workforce are explored through readings, case studies and class projects. Prerequisite: HRM 301.

HRM 430. Human Resource Information Systems. 3 Credit Hours.

This course will offer an understanding of how human resource information systems are applied in organizations to support organizational strategy, improve efficiency and flexibility, increase productivity and performance, enhance retention and ensure compliance with employment law. The focus will be on merging information systems with a strategic human resource perspective. This course provides students with the knowledge, skills and abilities to identify, assess, develop and maintain an effective HR system. Students will develop a thorough understanding of the plan, design/acquisition, implementation and applications of a human resource information system (HRIS). Prerequisite(s): MIS 201 and HRM 301 or permission of the instructor.

HRM 454. Effective Supervision. 3 Credit Hours.

Effective Supervision is a practical course in how to lead others in organizations. From delegation and performance measurement to correcting unwanted behaviors, you will learn how to address workplace issues with efficiency and effectiveness. Course topics include interpersonal communications, motivation, delegation and negotiating conflict. The class is highly experiential, and will provide useful tools for your first supervisory experience. Prerequisite: MGT 301.

Cross-listed Courses: MGT 454

HRM 457. Managing Multicultural Connections. 3 Credit Hours.

This course will explore the Human Resources implications of culture and multicultural communication from the conceptual, practical and human resources perspective. Students will inquire into their own culture and values, explore case studies, and engage in rich discussions with a number of speakers who have experience doing business outside our borders. Prerequisite: MGT 301.

Cross-listed Courses: MGT 457

HRM 471. Organizational Learning. 3 Credit Hours.

The purpose of this course is for the students to identify, organize and prioritize essential theories, concepts, knowledge and skills related to organizational learning and knowledge management. using modeling, discussion, and other active strategies, students will apply knowledge and skill to develop and present practical assessments, plans, and evaluations used in the learning and development profession. Cross-listed Courses: MGT 471

HRM 601. Human Resource Management. 3 Credit Hours.

This course focuses on the relationship between personnel and labor policies and the practices and the objectives of the organization. Theories developed from the behavioral sciences will be used in analyzing the potential impact of changes in policies or practices. Emphasis will also be placed on evaluating the human resource function in terms of meeting the organizational goals. Topics include staffing, training, compensation, performance evaluation and labor relations.

HRM 701. Current Issues in Human Resources. 3 Credit Hours.

As the Human Resource field evolves, so do the challenges presented by the process of recruitment, selection, retention and release. This hybrid course explores in-depth contemporary human resource philosophies, policies and practices that focus on unique areas of talent management in a variety of organizational settings. The class offers students the opportunity to explore online and in-depth research in quality of work life, second career decisions and mid-life change, incentive systems and talent retention. The impact of healthcare changes on organizations, the effects of the recession on the workforce and current issues such as workplace violence and employee privacy will also be explored. Prerequisites: MGT 601 and HRM 601, or permission of instructor.

HRM 707. Staffing. 3 Credit Hours.

This course is an investigation into the empirical and theoretical research which allows for a full understanding of the staffing process. The staffing process will be illustrated by using a comprehensive case-based model of both individual choice and organization needs in order to allow the student a grasp of the staffing process. Prerequisite: HRM 601.

HRM 708. Compensation. 3 Credit Hours.

This course focuses on managing compensation in contemporary organizations. The major objectives are: a) to examine the current state of compensation decision-making, b) to examine the implications of recent theoretical and research developments related to compensation decisions and c) to offer an opportunity to develop competencies in making compensation decisions. Prerequisite: HRM 601.

HRM 730. Human Resource Information Systems. 3 Credit Hours.

This course will offer an understanding of how human resource information systems are applied in organizations to support organizational strategy, improve efficiency and flexibility, increase productivity and performance, enhance retention and ensure compliance with employment law. The focus will be on merging information systems with a strategic human resource perspective. This course provides students with the knowledge, skills and abilities to identify, assess, develop and maintain an effective HR system. Students will develop a thorough understanding of the plan, design/acquisition, implementation and applications of a human resource information system (HRIS). Prerequisites: MIS 501 and HRM 601 or permission.

Cross-listed Courses: MIS 730

HRM 790. Special Topics in Human Resource Management. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of human resources management, as well as topics of current interest to students and instructors.

Human Resource Management Major (B.S.)

Code	Title	Credit Hours
Core Requirement (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
HRM 301	Human Resource Management	3
HRM 403	Total Rewards: Compensation & Benefits	3
HRM 404	Talent Management: Performance and Retention	3
Select two of the following electives:		6
HRM 457	Managing Multicultural Connections	
HRM 430	Human Resource Information Systems	
MGT 451	Group Skills and Team Leadership	
MGT 452	Organizational Development	
MGT 454	Effective Supervision	
MGT 458	Effective Presentation and Facilitation	

Electives

Electives	18
Total Credit Hours	120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Course	Title	Credit Hours
Freshman Year		
First Semester		
HST 110	World Civilization I	3
STA 201	Statistics I	3
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
BUS 150	Globalization in World of Differences (or a world language)	3
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
MTH 120	Mathematics for Business Majors	3
STA 202	Statistics II	3
Natural Science (p. 61)		3
Credit Hours		15
Sophomore Year		
First Semester		
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ENG 210	Major Authors	3
Theology (p. 61)		3
ECO 113	Principles of Microeconomics	3
MGT 301	Organizational Behavior (or MKT 301 or MIS 301)	3
Credit Hours		15
Second Semester		
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
PHL 210	Moral Philosophy	3
ECO 114	Principles of Macroeconomics	3
HRM 301	Human Resource Management	3
MKT 301	Principles of Marketing	3
Credit Hours		15
Junior Year		
First Semester		
ENG 310	Literature and Culture	3
FIN 301	Principles of Finance	3
HRM 404	Talent Management: Performance and Retention	3
MIS 201	Introduction to Management Info Systems	3

LAW 200	Legal Environment of Business	3
Credit Hours		15

Second Semester

HRM 403	Total Rewards: Compensation & Benefits	3
Free Elective		3
EAC Encountering Another Culture/Language (or second-sequenced world language) (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
ANL 301	Business Analytics	3
Credit Hours		15

Senior Year**First Semester**

HRM Elective		3
Free Elective		3
Free Elective		3
Religion (p. 61)		3
BUS 470	Business Policy (Fall or Spring)	3
Credit Hours		15

Second Semester

HRM Elective		3
Free Elective		3
Free Elective		3
COR 400	Senior Studies: Transformations	3
Free Elective		3
Credit Hours		15
Total Credit Hours		120

Human Resource Management Minor

The human resource management minor complements the student's major discipline with broad skill development in the evolving field of talent management. Functional areas include human resource planning, recruitment and selection, appraisal and compensation; employee training and career development; retention; management of labor relations and development of a strategic human resources plan. In addition to classroom study, students enjoy simulations and regularly visit area organizations and meet with professionals in the human resources field in the public, private and nonprofit sectors.

The human resources management minor requires 15 hours of course work.

Code	Title	Credit Hours
Major Requirements		
HRM 301	Human Resource Management	3
MGT 301	Organizational Behavior	3
Select three of the following:		9
HRM 403	Total Rewards: Compensation & Benefits	
HRM 404	Talent Management: Performance and Retention	
HRM 457	Managing Multicultural Connections	
MGT 451	Group Skills and Team Leadership	
MGT 452	Organizational Development	
MGT 454	Effective Supervision	

MGT 458 Effective Presentation and Facilitation

Total Credit Hours 15

The minor may not be earned concurrently with the management and leadership major.

Human Resource Management Dual Majors (B.S.)

Dual Major in Management Information Systems and Human Resource Management

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Business Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non-Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
HRM 301	Human Resource Management	3
HRM 403	Total Rewards: Compensation & Benefits	3

HRM 404	Talent Management: Performance and Retention	3
HRM elective		3
MIS/HRM 430	Human Resource Information Systems	3
MIS 455	Managing the Technological Enterprise or MIS 425 Distributed Enterprise Systems	3
MIS 480	Database Management Systems	3
Select two MIS Electives ⁴		6
Electives		
Liberal Arts electives		6
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

⁴ Recommended MIS electives: MIS 335 Client Side Web Applications Development, MIS 415 Business Intelligence, MIS 340 Data Science, MIS 350 Accounting Information Systems, MIS 420 Marketing Analytics, MIS 445 Mobile Applications and Business Strategies, and MIS 460 Managing Systems Projects.

Human Resource Management/Management and Leadership Dual Major

The most successful organizations of the future will be those who understand how to invite, engage and retain the best employees. This dual degree offering will create a highly career path for business students seeking a career in management, with a pathway through the human resources field. Students will explore talent acquisition and engagement, with a foundation in management and leadership to optimize outcomes and ensure success.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1

DIV Diversity (p. 61)	0
Management Core Requirements	
STA 201	Statistics I 3
STA 202	Statistics II 3
ACT 203	Principles of Accounting I for Non Accounting Majors 3
ACT 204	Principles of Accounting II for Non-Accounting Majors 3
ANL 301	Business Analytics 3
FIN 301	Principles of Finance 3
LAW 200	Legal Environment of Business 3
MGT 301	Organizational Behavior 3
MIS 201	Introduction to Management Info Systems 3
MKT 301	Principles of Marketing 3
BUS 470	Business Policy 3
ECO 113	Principles of Microeconomics 3
ECO 114	Principles of Macroeconomics 3
Major Requirements	
HRM 301	Human Resource Management 3
HRM 403	Total Rewards: Compensation & Benefits 3
HRM 404	Talent Management: Performance and Retention 3
Electives	
Choose one of the following HR Electives:	3
HRM 457	Managing Multicultural Connections
Choose 4 of the following M&L Electives:	12
MGT 451	Group Skills and Team Leadership
MGT 452	Organizational Development
MGT 454	Effective Supervision
MGT 458	Effective Presentation and Facilitation
MGT 450	Personal & Interpersonal Dimensions of Leadership
MGT 455	Leadership: Classic Perspectives from Literature/Film
MGT 460	Managing Systems Projects
Only 2 of the following 3 entrepreneurship courses can count towards M&L major	6
ENI 210	Entrepreneurship I: What's the Big Idea?
ENI 311	Entrepreneurship II: Idea to Startup
ENI 312	Entrepreneurship 3: Le Moyne Student Sandbox
Liberal Arts Electives	6
Free Elective	3
Total Credit Hours	120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

INFORMATION SYSTEMS

Chair: Renée V. Downey

Program Director: Martha Grabowski (Information Systems)

Professor: Martha Grabowski, Shin-Jeng Lin

Assistant Professor: Yue Han, Mehmet Kilinc

Adjunct Faculty: Aaron Luke, Philip Mazza, Shawn O'Reilly, Aaron Przybyski, Shane Stockhauer

Pre-Doctoral Teaching Fellow: Jean-Philippe Rancy

All disciplines are experiencing growth in computer use, and students who enrich their knowledge of information systems are at a career advantage. The Information Systems (IS) major program is designed to serve students with educational and career interests in information systems, as well as those students who have other career and educational interests and who desire knowledge of Information Systems.

To respond to differing student and employer needs and interests, Le Moyne offers several different offerings in Information Systems:

- M.S., Information Systems (p. 437),
- B.S., Accounting (150-Hour Program)/M.S., Information Systems (p. 361),
- M.S., Information Systems/M.S., Information Management partnership with Syracuse University, Certificates in Advanced Study (CAS) in Data Science or Information Security Management (Syracuse University iSchool),
- M.S., Information Systems/M.S., Information Management partnership with Syracuse University, Certificates in Advanced Study (CAS) in Enterprise Systems (p. 438) or Health Information Systems (p. 438) (Le Moyne College Madden School of Business),
- B.S., Business Administration, with a major in Information Systems,
- B.S., Business Administration, with a major in Management and Leadership/Information Systems, Marketing/Information Systems, Finance/Information Systems, Human Resources/Information Systems, (p. 392) Business Analytics/Information Systems (p. 392), (<http://collegecatalog.lemoyne.edu/shared/dual-major-bs-risk-management-information-systems/index.html/>) or Risk Management/Information Systems (p. 392),
- B.S., Accounting, with a concentration in Information Systems (p. 358),
- Minor in Management Information Systems (p. 399),
- Minor in Health Information Systems (p. 399),
- Joint IS/Computer Science degree in Software Applications and Systems Development (SASD) (p. 326),
- 4+1 Dual Bachelor's/Master's Degree program in Information Systems, Express Path at Le Moyne College,
- 4+1 Fast Track Dual Bachelor's/Master's Degree program in Information Management with Syracuse University,
- Graduate Certificate in Enterprise Systems (p. 438),
- Graduate Certificate in Health Information Systems, (p. 438) and
- Graduate Management Information Systems courses for MSIS and MBA students.

Students who are interested in the development, application, use and theory of Information Systems can pursue a B.S. in Business

Administration, Information Systems major. Students interested in combining an interest in other areas of Business Administration with an interest in Information Systems may pursue a joint major with Business Analytics, Human Resources, Marketing, Management and Leadership, Risk Management and Insurance, or Finance; a concentration in Information Systems for Accounting majors; or a dual major with Computer Science in Software Applications and Systems Development (SASD).

IS students may pursue certification in Oracle, SQL, Amazon Web Services (AWS), project management, IBM System Z or Microsoft Server/Networking through their coursework and through the College's University Alliance programs.

In addition, students may apply for an accelerated M.S., in Information Systems through Le Moyne or through Syracuse University's School of Information Studies as early as their junior year through Le Moyne's 4+1/ Fast Track Express Path program (see the following information).

IS students also participate in *Formation Abroad*, an experiential learning opportunity that combines academic study at a Jesuit institution overseas, experiential learning with IS Program partners in the locale, and volunteer immersion experiences; *Formation Abroad* links learning, reflection and action in service for others, consistent with Jesuit ideals and values.

Interested students are encouraged to discuss these choices with their advisor or the Information Systems program director to determine which offering best meets their needs.

Students majoring in Information Systems are encouraged to pursue *internship opportunities* as part of their academic experience. Exceptional students are encouraged to participate in *Honors* study in Information Systems, pursuing a research topic of their choice with a faculty mentor.

IS students also have the opportunity to pursue independent research as *McDevitt Information Systems Research Fellows* through support from the McDevitt Center. MSIS students have the opportunity to pursue graduate research through completion of a *Master's thesis*, working with a graduate faculty mentor.

Information Systems Major Student Learning Outcomes in Information Systems

Students who graduate from the Le Moyne College Information Systems program will be able to:

Core Knowledge:

Evaluate the role and impact of information systems in organizations.

Analytical Thinking:

Demonstrate analytical thinking through data and enterprise systems analysis, design and development activities (AACSB SLO UG3).

Ethical Awareness:

Analyze ethical and corporate social responsibility issues and problems, evaluate alternate courses of action, and develop solutions to those issues and problems (AACSB SLO UG1).

4+1 Dual Bachelor's/Master's Degree in Information Systems, Express Path, at Le Moyne College

The College's MSIS Express Path program allows students to earn their undergraduate degree in any field in four years and their MSIS at Le Moyne College in just one additional year of study. When they graduate, our alumni are distinguished by their ability to lead and to tackle complex issues as they respond to the needs of an ever-changing world.

The timeline for the 4+1 Dual Bachelor's/MSIS Program Express Path is as follows:

March 1 of the junior year - complete the MSIS application process for admission by providing: application form, two letters of recommendation, and a personal statement. Students must have at least a 3.30 grade-point average (without rounding). Neither the GMAT nor the GRE are required. (Notification of pre-approved admission to the Express Path will be made on a rolling basis. Final admission to the MSIS program will be conditional on completion of your undergraduate program.)

Upon completion of the junior year - Students will show fulfillment, or will fulfill, the two foundation graduate course requirements with a grade of "B" or better (or their undergraduate equivalents: see below) for the MSIS Program: MIS 501 Management Information Systems and MIS 601 Information Strategy and Management. This may be achieved in several ways. A maximum of 9 graduate credit hours (i.e., three graduate level courses) may be taken upon completion of a student's junior year.

Summer or Fall after completing undergraduate requirements - The remainder of the 30 MSIS credit hours can be completed in 12 months if the student is enrolled full time during the fall, spring, and summer semesters, as well as during the J-mester and Maymester. Students may also complete the program on a part-time basis.

To view the M.S. requirements, visit the Information Systems (M.S.) Program page (p. 437). For more information, please contact Dr. Martha Grabowski, Information Systems Program Director.

4+1 Fast Track Dual Bachelor's/Master's Degree program in Information Systems, with Syracuse University

B.S. Business Administration/Information Systems
Le Moyne College
M.S., Information Management
Syracuse University, School of Information Studies

This program allows Le Moyne students with a major in Business Administration/Information Systems, a major in Computer Science, or a dual major in Information Systems and Computer Science (SASD) to complete a Master's degree program in Information Management at Syracuse University by taking Syracuse University graduate courses as early as their junior year at Le Moyne College.

Students complete the program with one or two semesters of additional course work beyond their Le Moyne undergraduate program. For example, they may take graduate courses at Syracuse University in the summer of their junior year, and complete the program in the summer or fall immediately following their graduation from Le Moyne. Le Moyne students enrolled in the 4+1 Fast Track program can participate in internships through Le Moyne and/or Syracuse University, and are

supported with a graduate assistantship at Syracuse during their time at S.U.

The agreement also stipulates that Le Moyne students in the 4+1 program will be charged Le Moyne tuition for their S.U. courses, rather than S.U. tuition. For students who come in with transfer, I.B. or AP credit, this could mean that they may be able to graduate on time with both the bachelor's degree from Le Moyne and a master's degree from S.U. and no change in status with respect to their financial aid.

For more information, please contact Dr. Martha Grabowski, Information Systems Program Director.

- Information Systems Major (B.S.) (p. 391)
- Information Systems Dual Majors (B.S.) (p. 392)
- Management Information Systems (M.I.S.) Minor (p. 399)
- Health Information Systems (H.I.S.) Minor (p. 399)

Management Information Systems (MIS)

MIS 175. Introduction to Algorithms and Program Design. 4 Credit Hours.

This course introduces students to programming with an emphasis on computational problem-solving. Topics include program design and testing strategies, programming language syntax and semantics, scalar data types and an introduction to data structures, control structures, iteration, recursion, file input/output exceptions as well as introduction to algorithm analysis. Students will use a high-level programming language to develop programs and reinforce their understanding of topics.

Cross-listed Courses: CSC 175

MIS 175L. Lab. 0 Credit Hour.

Cross-listed Courses: CSC 175L

MIS 176. Object Oriented Programming. 3 Credit Hours.

This course continues the study of program development introduced in CSC 175. Topics include intermediate program design, object oriented programming (objects, types, inheritance, and polymorphism), basic data structures such as arrays and strings, and event-driven programming using a graphical user interface (GUI). Students will use a high-level programming language to complete several intermediate sized programming projects to reinforce concepts. Student may not take both CSC 170 and CSC 176.

Prerequisites: CSC 155, CSC 165, or CSC 175 or permission of the program director.

Cross-listed Courses: CSC 170, MIS 325

MIS 201. Introduction to Management Info Systems. 3 Credit Hours.

This course provides an overview of the concepts and methodologies of information systems. The course focuses on the idea of information systems support for competitive decision-making, thus blending technical with managerial topics. Students will develop familiarity with the principles of information systems as well as hands-on experience with a variety of information systems tools and techniques.

MIS 325. Introduction to Java Programming Programming. 4 Credit Hours.

This course will introduce you to programming and object oriented programming using Java. General programming topics include program design, testing strategies, and control structures such as conditionals, iteration. Object oriented topics include creating and using classes, inheritance and interfaces. Students will also learn about basic data structures such as arrays and strings. Students will solve programming problems in weekly lab sessions. Graduate students in the course will also be introduced to event-driven programming using a graphical user interface (GUI), recursion, and 2-dimensional arrays.

Cross-listed Courses: CSC 170

MIS 326. COBOL Programming. 3 Credit Hours.

This course is a study of the COBOL programming language, with application of its features for table handling, sorting, sequential and random access file handling and modular programming.

Cross-listed Courses: CSC 155

MIS 335. Client Side Web Applications Development. 3 Credit Hours.

As more and more businesses and individuals turn to the Web for sharing information and conducting commercial activities, a quality web site can provide competitive advantage and invite users for repetitive visits. The key to a quality and successful web site lies in both the content and usability of the site. To increase understanding of web usability, this course will engage students in an exploration of fundamental concepts in web design and development processes with hands-on exercises. This course explores the factors influencing web site usability throughout the design process, including requirements analysis, conceptual design, mockups and prototypes, production, and web site evaluation. Students will also learn to use client-side scripting techniques to enhance web usability.

Cross-listed Courses: MKT 335

MIS 340. Data Science. 3 Credit Hours.

This course will provide you the knowledge and techniques to approach phenomena analytically. Specially, you will learn the role and process of the data science lifecycle in understanding and gaining insight about phenomena, including how to ask the appropriate questions, identify the appropriate data and information needed, use the appropriate tools to analyze a large volume of data, evaluate the findings effectively with parameters, find the appropriate answers, and present the answers and compellingly. In the business context such knowledge can enable organizations to make quality decisions and develop important business strategies that can enhance organizational performance and that can contribute to significant financial gains. You will proficiently acquire such knowledge and techniques through class discussion, lectures, readings, as well as hand-on exercises. Prerequisite(s): STA 202 or MTH 112.

Cross-listed Courses: ANL 435, CTS 340

MIS 345. Introduction to Human Computer Interaction and Design. 3 Credit Hours.

This course provides an introduction to the field of human-computer interaction (HCI), an interdisciplinary field that links computer and industrial design, software engineering, the organizational sciences and cognitive psychology. Students will examine theories of design, technology and interfaces in order to enhance and extend human capabilities. The course will cover foundational theories, principles and guidelines that inform design, as well as how these theories, principles and guidelines are applied in laboratory settings, in organizations and in daily life. Assignments and course projects provide hands-on experiential learning with course topics, and guest speakers and laboratory and industrial tours, when appropriate, will supplement the class lectures and activities.

Prerequisite: MIS 201 or permission of department chair.

MIS 350. Accounting Information Systems. 3 Credit Hours.

This course will examine the design, control and operation of accounting information systems with a strong emphasis on integration. The course will present a thorough introduction to basic information systems theory, provide a working knowledge of systems analysis and design techniques, databases and enterprise systems. Understanding and appreciation of accounting information systems is critical to successfully managing, auditing and developing systems to support today's evolving business environment. This course offers a focused look at accounting information systems as part of enterprise resource planning systems, with a focus on SAP and other comparable enterprise systems to demonstrate concepts. Prerequisite(s): Grade of C or above in MIS 201, and in either ACT 203 and ACT 204, or in ACT 201 and ACT 202.

Cross-listed Courses: ACT 350

MIS 375. Applied Systems Analysis. 3 Credit Hours.

This course introduces the nature and techniques of information systems analysis, design and implementation. The course topics include requirements definition, analysis and design of information systems; system implementation and evaluation; object-oriented analysis and design; and current trends in systems analysis and design. Students demonstrate their knowledge by completing a systems analysis and design project.

Prerequisite: MIS 201 or permission of the instructor.

MIS 385. Programming in Visual Basic With Visual Basic. 3 Credit Hours.

This class covers the basics of structured programming using Visual Basic to develop decision support systems or management science applications. The theory and practice of structured programming, logic, systems development are covered in a series of iterative hands-on assignments, which are designed based on practical decision support systems or management science applications. Students can expect to learn how to create and program advanced Excel applications or other equivalent applications. A term project involving the development and documentation of a Visual basic program is required.

Cross-listed Courses: CSC 165

MIS 399. Independent Study in Information Systems. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and the number of credits sought. The proposal must be approved by the supervising faculty member, the program director and Dean of the Madden School. The proposal will be kept on file in the office of the Dean of the Madden School. The hours and credit are to be determined by the student and the program director.

MIS 411. Crowds, Social Media & Digital Collaboration. 3 Credit Hours.

Over the past years, crowds, social media, and digital collaborations have emerged as important topics in the IS field. Social media and other social information systems not only support communications and collaborations among the general crowd but also harness collective intelligence for innovation. This course covers the basic concepts and theories of social media, crowdsourcing, remixing, and sharing economy. Students will also learn analytics and applications around these trending topics.

Prerequisite: MIS 201.

Cross-listed Courses: CTS 411

MIS 415. Business Intelligence. 3 Credit Hours.

This course provides an introduction to Business Intelligence, including the processes, methodologies, infrastructure, and current practices used to transform business data into useful information and support business decision-making. Business Intelligence requires foundation knowledge in data storage and retrieval, thus this course will review logical data models for both database management systems and data warehouses. Students will learn to extract and manipulate data from these systems and assess security-related issues. Data mining, visualization, and statistical analysis along with reporting options such as management dashboards and balanced scorecards will be covered. Technologies utilized in the course included SAP Business Warehouse, SAP Business Objects, Crystal Reports, and RapidMiner.

Prerequisite: MIS 201 or permission of the instructor.

Cross-listed Courses: MKT 415, ANL 415, CTS 415

MIS 420. Marketing Analytics. 3 Credit Hours.

With the increased use of big data creating a paradigm shift in how marketers make decisions, the need to be able to extract meaningful information from this voluminous amount of data to make smarter decisions is becoming more important than ever. The course will provide students with the tools to develop a systematic, analytical approach to marketing decision making. The course aims at preparing students to (1) understand the value of competitive advantages leveraged by analytics; (2) understand the existence, advantages and limitations of different analytical approaches; and (3) to apply, interpret the input, and communicate the output from these tools and models, and apply them to help make fact-based decisions. The course takes on a hands-on experiential approach with real-world databases to facilitate the comprehension of the different analytical approaches discussed in class.

Prerequisites: MKT 301, STA 202.

Cross-listed Courses: MKT 420, ANL 425

MIS 425. Distributed Enterprise Systems. 3 Credit Hours.

This course serves as an introduction to the cloud computing environment, discussing both fundamental concepts of how and why cloud systems work, as well as cloud technologies that manifest these concepts, such as Amazon AWS, Microsoft, Azure, and Open Stack. Students will learn about virtualizations, data parallelisms, security and privacy, cloud storage mechanisms, and cloud design architectures in the context of distributed systems. This course will be taught in a lab lecture style utilizing Amazon Web Services (AWS) as a learning platform. Recommended predecessor courses: MIS-478, MIS-455.

Prerequisite: MIS-201, or permission of the instructor.

MIS 430. Human Resource Information Systems. 3 Credit Hours.

This course will offer an understanding of how human resource information systems are applied in organizations to support organizational strategy, improve efficiency and flexibility, increase productivity and performance, enhance retention and ensure compliance with employment law. The focus will be on merging information systems with a strategic human resource perspective. This course provides students with the knowledge, skills and abilities to identify, assess, develop and maintain an effective HR system. Students will develop a thorough understanding of the plan, design/acquisition, implementation and applications of a human resource information system (HRIS). Prerequisite(s): MIS 201 and HRM 301 or permission of the instructor.

Cross-listed Courses: HRM 430

MIS 435. Introduction to Government Systems. 3 Credit Hours.

This course focuses on introductory government systems concepts, processes and functions, utilizing the Federal Acquisition Regulations (FAR). Students will examine FAR regulations, processes and nomenclature, utilizing existing and proposed regulations and industry case studies, and appropriate support technology. Guest speakers and field research provide students with access and information from industry and academia.

Prerequisites: ACT 202 or ACT 204.

MIS 440. Machine Learning for Business Applications. 3 Credit Hours.

Machine learning, a subset of artificial intelligence, gives computers the capability to learn from data, identify patterns, and make decisions without being explicitly programmed. This course will cover different supervised and unsupervised machine learning algorithms, and their applications to structured and unstructured data including financial, marketing, health care, social media, entertainment, and socio-economic data. Four main problem domains will be covered (i) regression, (ii) classification, (iii) clustering, and (iv) association. Using machine learning to transform data into business decisions and communication of the results and insights from the analysis will be emphasized throughout the course. This course does not assume any prior exposure to machine learning theory or practice. Prerequisite(s): ANL 301 and STA 202, or permission of department chair.

Cross-listed Courses: ANL 440

MIS 445. Mobile Applications and Business Strategies. 3 Credit Hours.

The course explores the important challenges and connect with their stakeholders. Students will learn the technical, managerial and marketing aspects of mobile applications. Technically, they will learn the development process and technical infrastructure of mobile applications. Managerially, students will learn how to develop business strategies to exploit mobile applications for the advancing and repositioning of organizations. For marketing, students will learn to market the newly developed mobile applications and at the same time to use mobile applications to market and promote the organizations and their products or services.

Prerequisites: MIS 201 or permission of instructor.

MIS 450. Health Information Systems. 3 Credit Hours.

This course provides students with the knowledge of the design, use, and evaluation issues of health informatics applications. The topics include: (1) health informatics as a discipline; (2) career options for health informatics; (3) major health applications and commercial vendors; (4) strategic information systems planning; and (5) new opportunities and emerging trends.

Prerequisites: MIS 201 or permission of instructor.

Cross-listed Courses: NSG 387, NSG 697, MIS 710

MIS 455. Managing the Technological Enterprise. 3 Credit Hours.

This course covers the requirements, management and performance of enterprises engaged in the use of technology. Requirements determination, analysis, design and cost management activities for technological enterprises are covered; a focus on the management of life cycle costs is emphasized. The management of third party organizations, outsourcing and project management activities are also covered. The legal, environmental and ethical issues associated with the management and performance of technological enterprises are important components of this course. Guest speakers and case studies from local, national and international technological enterprises, agencies and regulatory organizations are employed in this course.

Prerequisites: MIS 201 or permission of instructor.

Cross-listed Courses: RMI 455

MIS 460. Managing Systems Projects. 3 Credit Hours.

This course focuses on introductory project management processes, technology and tools, utilizing the Project Management Institute's (PMI) Project Management Body of Knowledge (PMBOK) and the Software Engineering Institute's (SEI's) Capability Maturity Model Integration (CMMI) processes and nomenclature. Students examine the processes and theory of project management as well as industry case studies, and will utilize project management software in support of their management activities. Guest speakers and field research provide students with access and information from industry and academia. Students are engaged in a semester-long project. Initially, they are required to identify the project scope and team charter for their project; subsequent assignments require them to prepare a business case, work breakdown structure, cost estimate, and final project documentation for their project.

Prerequisite(s): MIS 201 or permission of instructor.

Cross-listed Courses: CSC 460, MGT 460, RMI 462

MIS 471. Information Systems Research Methods. 3 Credit Hours.

Information systems, composed of technology, people, information, systems, organizations, policies, and society, contain many complex and interdependent elements. The large-scale systems within which many information systems reside, including organizations, technology systems, communities, nations, and even human biological systems, can be similarly complex, with interdependent elements. Information systems researches study technology, people, information, organizations and systems in order to understand information systems, and the interactions between and the impacts of those elements and information systems, on individuals, groups, organizations, and other systems. Research design is the process of formulating a research plan that addresses research questions of interest. A sound research design ensures that the data and evidence obtained assists in effectively addressing the research questions under study. Key to good research design are research methods, approaches and techniques used to carry out research, which are facilitated by the collection of meaningful and useful data and evidence, and by analysis, assessment and interpretation of that data and evidence. This course provides an overview of the fundamentals of research design and research methods, including research question and hypothesis formulation; data and evidence collection and analysis; and the challenges of research design and methods. Students in this seminar course work closely with a Le Moyne faculty mentor while conducting research in Information Systems, either on campus at Le Moyne or in the field. McDevitt Information Systems Research Scholars who have gone through a year-long faculty research mentoring process in previous years and have prepared and published their own research also serve as mentors to students in this class. Students and their mentors participate in bi-monthly research seminars led by the Le Moyne faculty mentor, at which they present their research, collaborate on their findings and discuss their progress. Open to students eligible for Departmental Honors, Honors in Information Systems, and Independent Study Research. Junior or Senior standing; or permission of instructor. Prerequisite(s): MIS 201.

MIS 478. Financial Telecomm & Cybersecurity. 3 Credit Hours.

This course provides an overview of the concepts and principles of telecommunications systems and networks, blending technical with managerial topics. Students will focus on the challenges inherent in securing financial telecommunications networks, particularly the challenges of insider threats. Students will local area networks, wide area networks, wireless networks, value-added networks, as well as other networks. Students will complete a series of network installation and test projects, and will analyze network design cases throughout the semester. Guest speakers from industry and case studies from on-going research will provide a real-world context for the topics discussed in class. Students may sit for network certification following completion of the course.

Prerequisites: MIS 201, or permission of the instructor.

MIS 480. Database Management Systems. 3 Credit Hours.

This course provides an overview of the concepts and principles of database management systems, blending technical with managerial topics. Students will study the principles of database structures, the database development process, entity-relationship and object-oriented database models, logical and physical database designs, SQL, as well as distributed and object-oriented databases. Students will also examine data warehouses, as well as the challenges of global electronic data management, electronic commerce and ethical issues associated with the increasing integration and complexity of large-scale data sets. Students will complete a database design project during the semester. Prerequisites: MIS 201 or permission of the instructor.

Cross-listed Courses: CSC 480

MIS 490. Information Systems Internship. 1-6 Credit Hours.

Participation in a real-world learning experience is provided in internship opportunities. The intern reports as required to a faculty member, and both student and faculty member assesses the internship as it relates to the student's academic program and desired organizational experiences. Prerequisite: permission of the program director.

MIS 495. Special Topic in Information Systems Research Methods. 3 Credit Hours.

Information systems, composed of technology, people, information, systems, organizations, policies, and society, contain many complex and interdependent elements. The large-scale systems within which many information systems reside, including organizations, technology systems, communities, nations, and even human biological systems, can be similarly complex with interdependent elements. Information systems researchers study technology, people, information, organizations and systems in order to understand information systems, and the interactions between and the impacts of those elements and information systems, on individuals, groups, organizations, and other systems. Prerequisite: MIS 201; Junior or Senior standing; or permission of instructor.

MIS 499. Independent Study in Info Systems (Honors). 3 Credit Hours.

This course is intended for honors students and is required for the honors degree in Information Systems. The student conducts an independent research project under the guidance of at least one faculty member in the program. The Honors Committee evaluates a written and oral presentation of the research project. This course may only be taken by permission of the program director.

MIS 501. Management Information Systems. 3 Credit Hours.

An overview of management information systems (MIS) and their structure is provided through case analysis. Topics covered include the underlying concept of information, decision-making, management and how organizations affect the design of information systems. The impact of information systems on human behavior, organizations and societies is analyzed. Information resources management models underlie the technical and management focus of the course. Students are expected to complete group and individual projects using commercially available spreadsheet, database and systems analysis software packages.

MIS 525. Introduction to Java Programming Programming. 3 Credit Hours.

This course will introduce you to programming and object oriented programming using Java. General programming topics include program design, testing strategies, and control structures such as conditionals, iteration. Object oriented topics include creating and using classes, inheritance and interfaces. Students will also learn about basic data structures such as arrays and strings. Students will solve programming problems in weekly lab sessions. Graduate students in the course will also be introduced to event-driven programming using a graphical user interface (GUI), recursion, and 2-dimensional arrays.

MIS 535. Intro to Government Systems. 3 Credit Hours.

This course focuses on introductory government systems concepts, processes and functions, utilizing the Federal Acquisition Regulations (FAR). Students will examine FAR regulations, processes and nomenclature, utilizing existing and proposed regulations and industry case studies, and appropriate support technology. Guest speakers and field research provide students with access and information from industry and academia.

Prerequisites: MIS 201 or permission of instructor.

MIS 550. Accounting Information Systems. 3 Credit Hours.

This course will examine the design, control and operation of accounting information systems with a strong emphasis on integration. The course will present a thorough introduction to basic information systems theory, provide a working knowledge of systems analysis and design techniques, databases and enterprise systems. Understanding and appreciation of accounting information systems is critical to successfully managing, auditing and developing systems to support today's evolving business environment. This course offers a focused look at accounting information systems as part of enterprise resource planning systems, with a focus on SAP and other comparable enterprise systems to demonstrate concepts. Prerequisite(s): Grade of C or above in MIS 201 (or MIS 501), and in either ACT 203 and ACT 204, or in ACT 201 and ACT 202.

Cross-listed Courses: ACT 550

MIS 601. Information Strategy and Management. 3 Credit Hours.

This course covers the management, strategies and performance of enterprises engaged in the use of information for competitive advantage. IT alignment with business goals and enterprise resource planning (ERP) tools, techniques and processes are introduced. Modeling and managing life cycle costs, and the impact on competitive advantage, are covered in the course. The management of third party organizations, vendors, outsourcing, and the legal, ethical and environmental impacts of such activities, are important components of this course. Students will complete and present a semester-long project in enterprise resource planning. Guest speakers and case studies from local, national and international technological enterprises, agencies, and regulatory organizations are employed in this course.

Prerequisite: MIS 501.

MIS 611. Crowds, Social Media & Digital Collaboration. 3 Credit Hours.

Over the past years, crowds, social media, and digital collaborations have emerged as important topics in the IS field. Social media and other social information systems not only support communications and collaborations among the general crowd but also harness collective intelligence for innovation. This course covers the basic concepts and theories of social media, crowdsourcing, remixing, and sharing economy. Students will also learn analytics and applications related to these trending topics. (Please note that students who have taken MIS 411 should not take this course).

Prerequisites: MIS 501 or permission of IS Department Chair.

MIS 635. Client Side Web Applications Development. 3 Credit Hours.

As more and more businesses and individuals turn to the Web for sharing information and conducting commercial activities, a quality web site can provide competitive advantage and invite users for repetitive visits. The key to a quality and successful web site lies in both the content and usability of the site. To increase understanding of web usability, this course will engage students in an exploration of fundamental concepts in web design and development processes with hands-on exercises. This course explores the factors influencing web site usability throughout the design process, including requirements analysis, conceptual design, mockups and prototypes, production, and web site evaluation. Students will also learn to use client-side scripting techniques to enhance web usability.

MIS 690. Graduate Information Systems Independent Study. 3 Credit Hours.

This course provides an opportunity for graduate students to conduct independent research under the direction of a faculty member. Since the study of Information Systems is interdisciplinary, research linking business, technology and social and organizational science in explorations of how systems that convey information work can be studied independent study format—whether those systems are human, technological, natural, economic, social or other. Research in Information Systems thus explores technical and business topics, along with ethical questions that arise in business applications of technology in organizations. Open to students eligible for graduate Business of Information Systems research. Prerequisite(s): MIS-501; or permission of instructor.

MIS 701. Database Management Systems. 3 Credit Hours.

This course develops the framework for database systems analysis and design. Course topics focus on database design, data modeling, data integrity, security, database management approaches and techniques and distributed databases. Students are expected to complete a database project using commercially available software packages.

Prerequisite: MIS 501.

MIS 703. Systems Analysis and Design. 3 Credit Hours.

This course provides the building blocks for analysis and design of management information systems. The systems development life cycle, information gathering techniques, data and process modeling techniques and management of the systems analysis and design processes are covered. Students apply the concepts introduced using computer-aided software engineering (CASE) tools.

Prerequisite: MIS 501.

MIS 705. Advanced Business Analytics. 3 Credit Hours.

Data is useful if relevant and insightful information can be extracted from it to better understand the past (descriptive analytics), anticipate future events (predictive analytics), and direct the course of the best decision (prescriptive analytics). This course will cover different supervised and unsupervised machine learning algorithms, and their applications to structured and unstructured data including financial marketing, health care, social media, entertainment, and socio-economic data. An effective communication of the results and insights from the analysis, including via well-designed visualizations will be emphasized throughout the course. This course does not assume any prior exposure to machine learning theory or practice.

Prerequisite: ANL 601.

Cross-listed Courses: ANL 705

MIS 707. Risk Mgmt in Large Scale Systems. 3 Credit Hours.

This course focuses on the challenges associated with risk management in large-scale systems. It considers the nature of social, organizational and technological risk and discusses the role of risk analytic, risk management and risk communications. It also discusses several analytic approaches to risk management and mitigation and analyzes case studies of risk in several large-scale systems: aerospace, biomedical, global networks, healthcare, transportation and safety-critical domains such as firefighting and oil spill response. Using several strategic models, students discuss the importance of tactical and strategic risk management and employ several of the models in case analyses.

Prerequisite: MIS 501.

MIS 710. Health Information Systems. 3 Credit Hours.

This course provides students with the knowledge of the design, use, and evaluation issues of health informatics applications. The topics include: (1) health informatics as a discipline; (2) career options for health informatics; (3) major health applications and commercial vendors; (4) strategic information systems planning; and (5) new opportunities and emerging trends.

Cross-listed Courses: NSG 387, NSG 697, MIS 450

MIS 711. Managing Systems Projects. 3 Credit Hours.

This course focuses on introductory project management processes, technology and tools, utilizing the Project Management Institute's (PMI) Project Management Body of Knowledge (PMBOK) and the Software Engineering Institute's (SEI's) Capability Maturity Model Integration (CMMI) processes and nomenclature. Students examine the processes and theory of project management as well as industry case studies, and will utilize project management software in support of their management activities. Guest speakers and field research provide students with access and information from industry and academia. Students are engaged in a semester-long project. Initially, they are required to identify the project scope and team charter for their project; subsequent assignments require them to prepare a business case, work breakdown structure, cost estimate, and final project documentation for their project.

Cross-listed Courses: NSG 611

MIS 712. Information Systems and Network Security Cybersecurity. 3 Credit Hours.

This course provides an overview of the concepts and principles of telecommunications systems and networks, blending technical with managerial topics. Students will focus on the challenges inherent in securing financial telecommunications networks, particularly the challenges of insider threats. Students will local area networks, wide area networks, wireless networks, value-added networks, as well as other networks. Students will complete a series of network installation and test projects, and will analyze network design cases throughout the semester. Guest speakers from industry and case studies from on-going research will provide a real-world context for the topics discussed in class. Students may sit for network certification following completion of the course.

Prerequisites: MIS 501, or permission of the instructor.

MIS 715. Mobile Applications & Business Strategies. 3 Credit Hours.

The course explores the important challenges and needs of today's organizations to go mobile to connect with their stakeholders. Students will learn the technical, managerial and marketing aspects of mobile applications. Technically, they will learn the development process and technical infrastructure of mobile applications. Managerially, students will learn how to develop business strategies to exploit mobile applications for the advancing and repositioning of organizations. For marketing, students will learn to market the newly developed mobile applications and at the same time to use mobile applications to market and promote the organizations and their products or services.

MIS 716. Business Intelligence. 3 Credit Hours.

This course provides an introduction to Business Intelligence, including the processes, methodologies, infrastructure, and current practices used to transform business data into useful information and support business decision-making. Business Intelligence requires foundation knowledge in data storage and retrieval, thus this course will review logical data models for both database management systems and data warehouses. Students will learn to extract and manipulate data from these systems and assess security-related issues. Data mining, visualization, and statistical analysis along with reporting options such as management dashboards and balanced scorecards will be covered. Technologies utilized in the course included SAP Business Warehouse, SAP Business Objects, Crystal Reports, and RapidMiner.

Prerequisite: MIS 501 or permission of the instructor.

Cross-listed Courses: ANL 716

MIS 717. Managing the Technological Enterprise. 3 Credit Hours.

This course covers the requirements, management and performance of enterprises engaged in the use of technology. Requirements determination, analysis, design and cost management activities for technological enterprises are covered; a focus on the management of life cycle costs is emphasized. The management of third party organizations, outsourcing and project management activities are also covered. The legal, environmental and ethical issues associated with the management and performance of technological enterprises are important components of this course. Guest speakers and case studies from local, national and international technological enterprises, agencies and regulatory organizations are employed in this course.

Prerequisites: MIS 501 or permission of instructor.

MIS 719. Marketing Analytics. 3 Credit Hours.

In a world where data is more valuable than oil, the need to apply cutting-edge computational analyses, in addition to conventional statistical approaches, to derive meaning from large noisy databases and provide insight into understanding the outcome of marketing strategies is becoming more important than ever. This course will teach students how to leverage data and use analytics to form impactful marketing strategies. By learning the different analytical approaches and how to apply them to make marketing decisions, students enhance their understanding of the importance of marketing analytics.

Prerequisites: MKT 601, STA 501, and MIS 501.

Cross-listed Courses: MKT 719, ANL 719

MIS 725. Distributed Enterprise Systems. 3 Credit Hours.

This course serves as an introduction to the cloud computing environment, discussing both fundamental concepts of how and why cloud systems work, as well as cloud technologies that manifest these concepts, such as Amazon AWS, Microsoft, Azure, and Open Stack. Students will learn about virtualizations, data parallelisms, security and privacy, cloud storage mechanisms, and cloud design architectures in the context of distributed systems. This course will be taught in a lab lecture style utilizing Amazon Web Services (AWS) as a learning platform. Recommended predecessor courses: MIS-712, MIS-717.

Prerequisite: MIS-501, or permission of the instructor.

MIS 730. Human Resource Information Systems. 3 Credit Hours.

This course will offer an understanding of how human resource information systems are applied in organizations to support organizational strategy, improve efficiency and flexibility, increase productivity and performance, enhance retention and ensure compliance with employment law. The focus will be on merging information systems with a strategic human resource perspective. This course provides students with the knowledge, skills and abilities to identify, assess, develop and maintain an effective HR system. Students will develop a thorough understanding of the plan, design/acquisition, implementation and applications of a human resource information system (HRIS).

Prerequisites: MIS 501 and HRM 601 or permission of department chair.

Cross-listed Courses: HRM 730

MIS 740. Data Science. 3 Credit Hours.

This course will provide you the knowledge and techniques to approach phenomena analytically. Specially, you will learn the role and process of the data science lifecycle in understanding and gaining insight about phenomena, including how to ask the appropriate questions, identify the appropriate data and information needed, use the appropriate tools to analyze a large volume of data, evaluate the findings effectively with parameters, find the appropriate answers, and present the answers and compellingly. In the business context such knowledge can enable organizations to make quality decisions and develop important business strategies that can enhance organizational performance and that can contribute to significant financial gains. You will proficiently acquire such knowledge and techniques through class discussion, lectures, readings, as well as hand-on exercises. Prerequisite(s): STA 501.

Cross-listed Courses: ANL 740

MIS 771. Information Systems Research Methods. 3 Credit Hours.

Information systems, composed of technology, people, information, systems, organizations, policies, and society, contain many complex and interdependent elements. The large-scale systems within which many information systems reside, including organizations, technology systems, communities, nations, and even human biological systems, can be similarly complex, with interdependent elements. Information systems researchers study technology, people, information, organizations and systems in order to understand information systems, and the interactions between and the impacts of those elements and information systems, on individuals, groups, organizations, and other systems. Research design is the process of formulating a research plan that addresses research questions of interest. A sound research design ensures that the data and evidence obtained assists in effectively addressing the research questions under study. Key to good research design are research methods, approaches and techniques used to carry out research, which are facilitated by the collection of meaningful and useful data and evidence, and by analysis, assessment and interpretation of that data and evidence. This course provides an overview of the fundamentals of research design and research methods, including research question and hypothesis formulation; data and evidence collection and analysis; and the challenges of research design and methods. Students in this seminar course work closely with a Le Moyne faculty mentor while conducting research in Information Systems, either on campus at Le Moyne or in the field. McDevitt Information Systems Research Scholars who have gone through a year-long faculty research mentoring process in previous years and have prepared and published their own research also serve as mentors to students in this class. Students and their mentors participate in bi-monthly research seminars led by the Le Moyne faculty mentor, at which they present their research, collaborate on their findings and discuss their progress. Open to students eligible for Master's Thesis research. Prerequisite(s): MIS 501.

MIS 785. Programming in Visual Basic With Visual Basic. 3 Credit Hours.

This class covers the basics of structured programming using Visual Basic to develop decision support systems or management science applications. The theory and practice of structured programming, logic, systems development are covered in a series of iterative hands-on assignments, which are designed based on practical decision support systems or management science applications. Students can expect to learn how to create and program advanced Excel applications or other equivalent applications. A term project involving the development and documentation of a Visual basic program is required.

MIS 790. Special Topics in Mgmt Info Syst. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of management information systems, as well as topics of current interest to students and instructors.

MIS 795. Special Topics in Information Systems Research Methods. 3 Credit Hours.

Information systems, composed of technology, people, information, systems, organizations, policies, and society, contain many complex and interdependent elements. The large-scale systems within which many information systems reside, including organizations, technology systems, communities, nations, and even human biological systems, can be similarly complex with interdependent elements. Information systems researchers study technology, people, information, organizations and systems in order to understand information systems, and the interactions between and the impacts of those elements and information systems, on individuals, groups, organizations, and other systems.

Prerequisite: MIS 501; or permission of instructor.

MIS 796. Information Systems Internship. 1-6 Credit Hours.

Participation in a real-world learning experience is provided in internship opportunities. The intern reports as required to a faculty member, and both student and faculty member assess the internship as it relates to the student's academic program and desired organizational experiences. Six hours of approved work experience is required to generate one credit. Prerequisite: permission of the program director.

MIS 799. Master's Thesis Research Project. 1-6 Credit Hours.

This course provides an opportunity for graduate students to conduct independent research under the direction of a faculty member. Since the study of Information Systems is interdisciplinary, research linking business, technology and social and organizational science in explorations of how systems that convey information work can be studied in a student's master's thesis—whether those systems are human, technological, natural, economic, social or other. Research in Information Systems thus explores technical and business topics, along with ethical questions that arise in business applications of technology in organizations.

Information Systems Major (B.S.)

Students majoring in Information Systems are required to enroll in the following courses:

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non-Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
MTH 120	Mathematics for Business Majors	3
MIS 201	Introduction to Management Info Systems	3
LAW 200	Legal Environment of Business	3
MKT 301	Principles of Marketing	3

ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Cultural Requirement		3
Major Requirements		
MIS 455	Managing the Technological Enterprise or MIS 425 Distributed Enterprise Systems	3
MIS 480	Database Management Systems	3
MIS/CSC Electives		9
Electives		
Liberal Arts Electives		9
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Course	Title	Credit Hours
Freshman Year		
First Semester		
STA 201	Statistics I	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
COR 100	First Year Seminars: Transitions	3
Elective		3
Credit Hours		15
Second Semester		
MIS 201	Introduction to Management Info Systems	3
STA 202	Statistics II	3
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
MTH 120	Mathematics for Business Majors	3
Credit Hours		15

Sophomore Year

First Semester		
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ECO 113	Principles of Microeconomics	3
ENG 210	Major Authors	3
MIS/CSC Elective		3
Theology (p. 61)		3
Credit Hours		15
Second Semester		
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
MIS 480	Database Management Systems	3
ECO 114	Principles of Macroeconomics	3

PHL 210	Moral Philosophy	3
Natural Science (p. 61)		3
Credit Hours		15

Junior Year

First Semester		
MGT 301	Organizational Behavior	3
FIN 301	Principles of Finance	3
MKT 301	Principles of Marketing	3
ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
VPA Visual and Performing Arts (p. 61)		1
Credit Hours		16

Second Semester

Elective		3
Liberal Arts Elective		3
LAW 200	Legal Environment of Business	3
MIS 455	Managing the Technological Enterprise or MIS 425 or Distributed Enterprise Systems	3
MIS/CSC Elective		3
Credit Hours		15

Senior Year

First Semester		
ANL 301	Business Analytics	3
Liberal Arts Elective		3
Select one of the following:		3
MIS 499	Independ Study in Info Systems (Honors)	
MIS 490	Information Systems Internship	
MIS Elective		
EAC Encountering Another Culture/Language (p. 61)		3
Religion (p. 61)		3
Credit Hours		15

Second Semester

BUS 470	Business Policy	3
EAC Encountering Another Culture/Language (p. 61)		3
Elective		3
Elective		3
COR 400	Senior Studies: Transformations	3
Credit Hours		15
Total Credit Hours		121

Information Systems Dual Majors (B.S.)

Students majoring in Finance, Human Resource Management, Marketing, Management and Leadership, Business Analytics, Risk Management, or Computer Science may pursue a dual major in Information Systems and their primary major. Students majoring in Accounting may pursue a concentration in Information Systems. Information Systems courses tailored for each major enhance the students' knowledge of their primary business discipline, and integrate the use of information systems and technology with study of the business disciplines.

Students pursuing a dual major in Information Systems and Finance, Human Resource Management, Marketing, Management and Leadership,

Business Analytics, Risk Management, or Computer Science are required to enroll in the following courses:

Dual Major (B.S.) in Finance and Information Systems

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
FIN 401	Investments	3
FIN 405	Corporate Finance	3
Finance elective		6
MIS 455	Managing the Technological Enterprise or MIS 425 Distributed Enterprise Systems	3
MIS 480	Database Management Systems	3
Two MIS electives ⁴		6
Electives		
Liberal Arts Electives		6

Electives	3
Total Credit Hours	120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Can be waived by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.
- ³ Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ⁴ Recommended MIS electives: ACT 350 Accounting Information Systems/MIS 350 Accounting Information Systems, MIS 375 Applied Systems Analysis, MIS 340 Data Science, MIS 415 Business Intelligence, MIS 478 Financial Telecomm & Cybersecurity.

Dual Major (B.S.) in Management and Leadership and Information Systems

Management & Leadership majors interested in pursuing a dual major in Information Systems need to complete the following courses:

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3

ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
MIS 455	Managing the Technological Enterprise	3
	or MIS 425 Distributed Enterprise Systems	
MIS 480	Database Management Systems	3
Select two MIS Electives ⁴		6
Select four BUS/MGT Electives (only two Entrepreneurship options allowed)		12
BUS 400	International Business	
HRM 301	Human Resource Management	
ENI 210	Entrepreneurship I: What's the Big Idea?	
ENI 311	Entrepreneurship II: Idea to Startup	
ENI 312	Entrepreneurship 3: Le Moyne Student Sandbox	
MGT 450	Personal & Interpersonal Dimensions of Leadership	
MGT 451	Group Skills and Team Leadership	
MGT 452	Organizational Development	
MGT 454	Effective Supervision	
MGT 455	Leadership: Classic Perspectives from Literature/Film	
MGT 458	Effective Presentation and Facilitation	
Liberal Arts Electives		6
Free Elective		3
Total Credit Hours		120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ³ Can be waived by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.
- ⁴ Recommended MIS electives: MIS 375 Applied Systems Analysis, MIS 460 Managing Systems Projects, MIS 415 Business Intelligence.

Dual Major (B.S.) in Marketing and Information Systems

Marketing majors interested in pursuing a dual major in information systems need to complete the following courses:

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6

ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
STA 201	Statistics I	3
Major Requirements		
MKT 401	Marketing Research	3
MKT 402	Marketing Management	3
Select two marketing electives		6
MIS 455	Managing the Technological Enterprise	3
	or MIS 425 Distributed Enterprise Systems	
MIS 480	Database Management Systems	3
Select two MIS electives ⁴		6
Electives		
Liberal Arts Electives		6
Electives		3
Total Credit Hours		120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ³ Can be waived by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.
- ⁴ Recommended MIS electives: MIS 335 Client Side Web Applications Development, MIS 411 Crowds, Social Media & Digital Collaboration, MIS 415 Business Intelligence, MIS 340 Data Science, MIS 350 Accounting Information Systems, MIS 420 Marketing Analytics, and MIS 445 Mobile Applications and Business Strategies.

Dual Major (B.S.) in Business Analytics and Information Systems

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
MIS 455	Managing the Technological Enterprise	3
or MIS 425	Distributed Enterprise Systems	
MIS 480	Database Management Systems	3
Choose any four of the following ANL courses:		12
ANL 400	Applied Forecasting Analysis	
ANL 410	Supply Chain Analysis	
ANL 415	Business Intelligence	
ANL 420	Strategic Management Analysis	
ANL 425	Marketing Analytics	
ANL 430	Simulation and Risk Analysis	
ANL 435	Data Science	

ANL 440 Machine Learning for Business Applications

Two information systems courses (one of which will count as a business analytics elective) ⁴	6
Electives	
Liberal Arts Electives	6
Electives	3
Total Credit Hours	120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.
- ⁴ MIS 340 Data Science, MIS 375 Applied Systems Analysis, MIS 415 Business Intelligence, MIS 420 Marketing Analytics and are recommended.

Dual Major (B.S.) in Information Systems and Software Applications & Systems Development

This program's strength is in the liberal arts tradition – students receive broad exposure to other disciplines with a solid foundation in developing software applications and systems. This dual major combines the strengths of Le Moyne's computer science and information systems programs, along with the management core requirements, in a complementary way while adhering to the latest curriculum guidelines for software engineering.

The software applications and systems development (SASD) program combines software programming and software design from the computer science (CS) program with business analysis and project planning from the information systems (IS) program. A significant difference between the SASD and CS programs are in the mathematics requirements. The SASD program requires a student to take either Mathematics for Business Majors or Brief Calculus while the CS program requires a student to take Calculus I. A significant difference between the SASD and IS programs is that the SASD program requires a student to earn a minor in any academic discipline, while the IS program requires a student to take the Business core courses (which is similar to earning a minor in business administration).

Le Moyne College expects its software applications and systems development graduates:

- Can demonstrate critical thinking skills, apply problem solving techniques, and construct various software artifacts as prescribed by a software development process.
- Are prepared for continued growth as a computing professional, are able to apply what they have learned, and can communicate their knowledge to others in an ethically responsible manner.
- Are prepared to work individually or in a collaborative environment.

Software Applications & Systems Development/ Information Systems

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
Select one of the following:		4-5
CSC 175	Introduction to Algorithms and Program Design	
Any 3 or 4 credit intro programming course which does not use Python and CSC 179 Transition to Python		
CSC 185	Data Structures & Algorithms	4
CSC 276	Object Oriented Software Design	4
One CSC elective:		3-4
CSC 346	Software Operating Environments	
CSC 355	Programming Languages & Paradigms	
CSC 411	Introduction of Artificial Intelligence	
CSC 425	Introduction to Graphics	

CSC 431	Introduction to Robotics	
CSC 441	Secure Software Development in Mobile And Cloud Environments, Web & Mobile Secure Software Development	
CSC 445	Networks & Cloud Secure Software Development	
One CSC capstone experience course (CSC 496, CSC 497, CSC 490, CSC 498)		
MIS 375	Applied Systems Analysis	3
MIS 460	Managing Systems Projects	3
MIS 480	Database Management Systems	3
MIS 455	Managing the Technological Enterprise or MIS 425 Distributed Enterprise Systems	3
Electives		
Free Electives		6
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Can be waived by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Please see the Department of Computer Science page (p. 326) for further details and a typical program for the Dual Major in S.A.S.D. and I.S.

Accounting Major/Information Systems Concentration

Students majoring in accounting may pursue a concentration in information systems. Information systems courses tailored for this concentration enhance the students' knowledge of their primary accounting discipline, and integrate the use of information systems and technology with accounting. Accounting students pursuing a concentration in information systems are required to enroll in the following courses:

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3

COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 201	Introductory Accounting for Accounting Majors	3
ACT 202	Introductory Accounting II for Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Cultural Requirement		3
Major Requirements		
ACT 301	Intermediate Accounting I	4
ACT 302	Intermediate Accounting II	4
ACT 303	Cost Accounting	3
ACT 310	Federal Income Tax for Individuals	3
ACT 401	Advanced Accounting	3
ACT 405	Auditing	3
ACT 410	Taxation of Business Entities	3
Select one of the following:		3-4
MTH 120	Mathematics for Business Majors	
MTH 122	Brief Calculus	
MTH 123	Mathematics for Act Majors	
MTH 145	Calculus I	
MTH 146	Calculus II	
Electives		
Liberal Arts Electives		6
Concentration Requirements		
MIS 350	Accounting Information Systems	3
MIS 455	Managing the Technological Enterprise	3
	or MIS 425 Distributed Enterprise Systems	
Choose two of the following:		4
MIS 375	Applied Systems Analysis	
MIS 460	Managing Systems Projects	
MIS 480	Database Management Systems	
CSC 165	Programming in Visual Basic With Visual Basics	
Total Credit Hours		122-126

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

⁴ If students take CSC 165 Programming in Visual Basic With Visual Basics instead of the other MIS courses, they can use their liberal art elective. In this case, their liberal art elective will have only 3 remaining credits left, but their total number of credits will remain as 122-123. But if students take other MIS courses other than CSC 165 Programming in Visual Basic With Visual Basics, their liberal art elective will have 6 remaining credits left, but their total number of credits will be 125-126.

Dual Major in Management Information Systems and Human Resource Management

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Business Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
HRM 301	Human Resource Management	3

HRM 403	Total Rewards: Compensation & Benefits	3
HRM 404	Talent Management: Performance and Retention	3
HRM elective		3
MIS/HRM 430	Human Resource Information Systems	3
MIS 455	Managing the Technological Enterprise	3
or MIS 425	Distributed Enterprise Systems	
MIS 480	Database Management Systems	3
Select two MIS Electives ⁴		6
Electives		
Liberal Arts electives		6
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

⁴ Recommended MIS electives: MIS 335 Client Side Web Applications Development, MIS 415 Business Intelligence, MIS 340 Data Science, MIS 350 Accounting Information Systems, MIS 420 Marketing Analytics, MIS 445 Mobile Applications and Business Strategies, and MIS 460 Managing Systems Projects.

Dual Major (B.S.) in Risk Management and Information Systems

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
IDS Interdisciplinary Studies (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3

ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3

Risk Management Requirements

RMI 210	Introduction to Risk Management and Insurance	3
RMI 320	Enterprise Risk Management	3
RMI 350	Insurance & Reinsurance Company Operations	3

Select one of the following Risk Management or Insurance related electives:

RMI 370	Property and Casualty Insurance	
RMI 380	Life, Health and Annuities	
RMI 450	Underwriting and Brokerage	
RMI 460	Claims Processing	
RMI 470	Risk and Insurance Analytics and Trends	
RMI 167	Introduction to Cybersecurity	
RMI 250	Intermed Microeconomic Theory	
RMI 360	Intermediate Managerial Finance	
RMI 385	Risk Financing	
RMI 420	Strategic, Operational, Environmental Risk Management	

Information Systems Requirements

MIS 455	Managing the Technological Enterprise	3
MIS 460	Managing Systems Projects	3
MIS 480	Database Management Systems	3

Select one Information Systems elective from:

MIS 350	Accounting Information Systems	
MIS 450	Health Information Systems	
MIS 478	Financial Telecomm & Cybersecurity	

Liberal Arts Requirement

Applied Ethics Course		
Students majoring in Risk Management and Insurance (RMI) must take one of the following courses to meet the Applied Ethics course requirement. Additional Applied Ethics courses may be added to the list of options in the future.		3

PHL 344	Environmental Ethics	
PHL 347	Crisis Ethics: War, Pandemic and Social Collapse	
PHL 349	Ethics and Public Policy	
PHL 359	Ethics of Medical Technology	
Liberal Arts Electives		5

Total Credit Hours		120
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- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Management Information Systems (M.I.S.) Minor

Students who wish to pursue a minor in Management Information Systems must have a major other than Business Administration or Accounting. Students pursuing a minor in Management Information Systems must complete the following course requirements:

Code	Title	Credit Hours
Minor Requirements		
MIS 201	Introduction to Management Info Systems	3
MIS 480	Database Management Systems	3
MIS/CSC Electives		6
Total Credit Hours		12

Health Information Systems (H.I.S.) Minor

Health care in the 21st century requires secure and effective information technology systems to meet two of its most significant challenges: improving the quality of care while also controlling the costs of care. Developing, deploying, managing and using information technology that is effective in complex clinical, organizational and economic settings is a significant challenge. This minor is designed to address these challenges while preparing students for the world of work in technology and medical settings.

Health information systems is a discipline at the intersection of information science, computer science and health care that focuses on the systems, technology, policies, procedures and human capital required to optimize the use of information in health and biomedicine.

Code	Title	Credit Hours
Minor Requirements		
MIS 460	Managing Systems Projects	3
MIS 450	Health Information Systems	3
MIS 480	Database Management Systems	3
Select one of the following:		3
BIO 427	Bioinformatics	
MIS 375	Applied Systems Analysis	
MIS 415	Business Intelligence	
MIS 435	Introduction to Government Systems	
MIS 455	Managing the Technological Enterprise or MIS 478 Distributed Enterprise Systems	
MIS 478	Financial Telecomm & Cybersecurity	
Total Credit Hours		12

MANAGEMENT AND LEADERSHIP

Chair: Renée V. Downey

Professor: Bernard A. Arogyaswamy

Assistant Professor: Jared Law-Penrose

Professor of Practice: Renée V. Downey, Michael D'Eredita, John Hunter

Visiting Assistant Professor: Tracy Couto

Adjunct Faculty: David Barletta, Alison Brzenchek, Kerry Carney, Edward Catto, Dana Hart, Anthony Kumiega, Philip Mazza, Anne Orr

Professor Emeritus: Dennis O'Connor

The mission of the management and leadership major is to prepare young students for both the people and leadership challenges inherent in modern organizations. We believe that leadership is primarily an art, rather than a science, and involves the exercise of substantial judgment, creativity, and style. Educating leaders requires significant attention to both general principles and theories, and the development of the individual. This development includes building interpersonal and small group skills, gaining awareness of one's strengths, weaknesses and values, and becoming motivated to learn continuously from experience.

Each offering in the leadership major is designed to address the issues of leadership, ethics, system dynamics and cultural diversity as it focuses on its primary content area. Additionally, to build the behavioral competencies central to leadership, the courses in this major will employ a variety of engaging and interactive activities including case studies, role plays, simulations, group projects and presentations and class discussions. In the Ignatian tradition, students will also learn to carefully reflect on these experiences.

Finally, it is our view that students' growth as leaders does not begin, nor does it end at Le Moyne College; the seeds were planted long ago and their maturity will occur decades after college. Our transitional role is to create a context where students can safely acquire the requisite theory, values, skills and sense of self that will sustain their specific leadership journeys.

Students may choose any five of the approved electives (only 2 entrepreneurship options are allowed.)

The list of BUS/MGT electives includes:

Code	Title	Credit Hours
BUS 400	International Business	3
MGT 450	Personal & Interpersonal Dimensions of Leadership	3
MGT 451	Group Skills and Team Leadership	3
MGT 452	Organizational Development	3
MGT 454	Effective Supervision	3
MGT 455	Leadership: Classic Perspectives from Literature/Film	3
MGT 457	Managing Multicultural Connections	3
MGT 458	Effective Presentation and Facilitation	3

MGT 460	Managing Systems Projects	3
HRM 301	Human Resource Management	3
ENI 210	Entrepreneurship I: What's the Big Idea?	3
ENI 311	Entrepreneurship II: Idea to Startup	3
ENI 312	Entrepreneurship 3: Le Moyne Student Sandbox	3

Student Learning Outcomes in Management and Leadership

Students who graduate from this program will be able to:

- Understand relevant **theories** that underlie organizational actions.
- Become active, morally **responsible agents** in choosing pathways and creating outcomes in life and work.
- Understand the importance of **interpersonal relationships and teams**, as participants, leaders and change agents.
- Identify and evaluate the usefulness and **relevance of resources** to support their professional work.
- Management and Leadership Major (B.S.) (p. 405)
- Management and Leadership Dual Majors (B.S.) (p. 406)
- Business Administration Minor (p. 409)
- Entrepreneurship Minor (p. 409)

Business Administration (BUS)

BUS 150. Globalization in World of Differences. 3 Credit Hours.

The course provides an overview of the process underlying globalization, its impact on different nations, and the role technology, national policies, and corporate strategies play in a world of increasing interdependencies and coverage. Local customs and identities, however, continue to thrive. These are studied with special attention paid to certain regions, thus grappling with the paradox of simultaneous globalization and localization. Case studies, role-plays and guest speakers help cast light on the breathtaking diversity in the "global village".

Fulfills Core Requirement(s): DIV (Diversity) and CE (Cultural Elective).

BUS 399. Independent Study. 1-3 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the dean of management. It will be kept on file in the office of the dean of management. Ten hours work per week for each credit. Hours and credit to be determined by the student and department chair.

BUS 400. International Business. 3 Credit Hours.

The purpose of this course is to provide students with a foundation of the basic concepts and tools for the conduct of international business. Consideration is given to the managerial and operational opportunities and problems of the company operating internationally. Emphasis is on behavioral aspects and environmental factors influencing and affecting the use of international business strategies, the development of an international orientation. The role of international business as a contributor to the company's overall business objective achievement is stressed.

Prerequisite: senior standing in business or permission of the instructor.

Cross-listed Courses: PGS 400

BUS 430. Government Contract Accounting. 3 Credit Hours.

Basic cost accounting concepts and the cost accumulation process are presented. This course provides guidance on accounting for, recovering and monitoring costs at each step of government contract performance, from bidding to closeout. An understanding of the Federal Acquisition Regulation (FAR), the Truth in Negotiations Act (TINA), the treatment of unallowable costs and the Defense Contract Audit Agency (DCAA) auditing standards will be provided. Current topics on special and emerging issues, including new TINA and FAR requirements; rules applicable to nonprofit associations, universities, hospitals, and state and local governments; incurred cost-electric (ICE); cost accounting issues in privatization projects and commercial item acquisitions; and the impact of procurement reform and streamlining will also be covered.

Prerequisite: Intro Accounting.

Cross-listed Courses: BUS 530

BUS 435. Introduction to Government Systems. 3 Credit Hours.

This course focuses on introductory government systems concepts, processes and functions, utilizing the Federal Acquisition Regulations (FAR). Students will examine FAR regulations, processes and nomenclature, utilizing existing and proposed regulations and industry case studies, and appropriate support technology. Guest speakers and field research provide students with access and information from industry and academia.

Prerequisites: ACT 202 or ACT 204.

BUS 436. Introduction to Government Contracting Law, Compliance, Ethics. 3 Credit Hours.

This course provides an introduction to the legal and regulatory framework for doing business with the federal government. The course of study will center on the requirements of the Federal Acquisition Regulations, and will include a study of several related statutes, as well as the regulatory compliance and business ethics requirements of doing business with the federal government. Guest speakers and case studies provide students with access and information from industry and academia.

Prerequisites: ACT 201 or ACT 203 or LAW 200 or permission of the instructor.

Cross-listed Courses: LAW 436, BUS 536, LAW 536

BUS 437. Capstone Course: Cases in Government Contracting Law, Compliance, and Ethics. 3 Credit Hours.

This course is the capstone course in the Government Systems Contracting certificate at Le Moyne. It requires the student to synthesize knowledge about the legal and regulatory framework for doing business with the federal government through a series of case studies of law, compliance and ethics. Course material focuses on cases derived from requirements of the Federal Acquisition Regulations, and related statutes. Guest speakers from industry and government will discuss regulatory compliance and business ethics requirements topics with students during class.

Prerequisites: BUS 436, ACT 436, LAW 436 or permission of instructor.

Cross-listed Courses: LAW 437, BUS 537, LAW 537

BUS 470. Business Policy. 3 Credit Hours.

This is a capstone course and studies the management planning functions, integrating principles and operating philosophies; strategy formulation and implementation. The case study method is used, and a computerized management game is introduced.

Prerequisite: senior business or accounting majors only.

BUS 490. Business Internship. 1-12 Credit Hours.

Participation in a real-world learning experience. The intern reports as required to a faculty member and evaluates the experience and relates it to his or her academic program. Forty-two hours of approved work experience is required to generate one credit.

Prerequisite: permission of the department chair.

BUS 499. Independent Study (Honors). 3 Credit Hours.

This course is intended for honors students and is required for the honors degree in business administration. The student conducts an independent research project under the guidance of one member of the faculty in the department. A written and oral presentation of the research project is evaluated by the Honors Committee. This course may be taken only by permission of the department.

BUS 501. Business Communications. 3 Credit Hours.

This course provides students with the technical skills and necessary theoretical knowledge of communication arts as applied to specific business situations. Topics include use of presentation formats, appropriate rhetorical constructions, communications theory, technical writing and documentation.

BUS 530. Government Contract Accounting. 3 Credit Hours.

Basic cost accounting concepts and the cost accumulation process are presented. This course provides guidance on accounting for, recovering and monitoring costs at each step of government contract performance, from bidding to closeout. An understanding of the Federal Acquisition Regulation (FAR), the Truth in Negotiations Act (TINA), the treatment of unallowable costs and the Defense Contract Audit Agency (DCAA) auditing standards will be provided. Current topics on special and emerging issues, including new TINA and FAR requirements; rules applicable to nonprofit associations, universities, hospitals, and state and local governments; incurred cost-electric (ICE); cost accounting issues in privatization projects and commercial item acquisitions; and the impact of procurement reform and streamlining will also be covered.

Prerequisite: Intro Accounting.

Cross-listed Courses: BUS 430

BUS 536. Introduction to Government Contracting Law, Compliance, Ethics. 3 Credit Hours.

This course provides an introduction to the legal and regulatory framework for doing business with the federal government. The course of study will center on the requirements of the Federal Acquisition Regulations, and will include a study of several related statutes, as well as the regulatory compliance and business ethics requirements of doing business with the federal government. Guest speakers and case studies provide students with access and information from industry and academia.

Prerequisites: ACT 201 or ACT 203 or LAW 200 or permission of the instructor.

Cross-listed Courses: BUS 436, LAW 436, LAW 536

BUS 537. Capstone Course: Cases in Government Contracting Law, Compliance, and Ethics. 3 Credit Hours.

This course is the capstone course in the Government Systems Contracting certificate at Le Moyne. It requires the student to synthesize knowledge about the legal and regulatory framework for doing business with the federal government through a series of case studies of law, compliance and ethics. Course material focuses on cases derived from requirements of the Federal Acquisition Regulations, and related statutes. Guest speakers from industry and government will discuss regulatory compliance and business ethics requirements topics with students during class.

Prerequisites: BUS 536, ACT 536, LAW 536 or permission of instructor.

Cross-listed Courses: BUS 437, LAW 437, LAW 537

BUS 601. Business Ethics. 3 Credit Hours.

This course will be conducted in seminar style. It will explore and analyze ethical considerations involved in managerial decision making. Topics to be considered are the ethical dimension in managerial dilemmas in such topics as advertising, working conditions, environmental pollution, work force reduction and supplier relations. The relationship of management to the rule of law will be considered in such topics as business involvement in the formation of law as well as business use of the legal and political process. Managerial response to such personal ethical and legal issues as affirmative action, product safety and sexual harassment will be considered. The ethical and social responsibility of management and employees will be explored in the context of profit motive and the implementation of ethical change in a business setting.

BUS 602. Business Law. 3 Credit Hours.

This course will survey the legal techniques used to control business behavior. The role of courts, legislatures and regulatory agencies, as well as common, statutory and regulatory law, will be viewed both from the historical and the current perspective. Specific topics will include contracts, commercial paper, agency, partnerships, corporations, antitrust and securities.

BUS 603. International Business. 3 Credit Hours.

This course seeks to provide an in-depth understanding of diverse aspects of international business including international politics, culture, economics, finance, technology, marketing, ethical decision-making, strategic planning and management, and human resource development in a global environment. Decision-making in, and challenges facing multinational enterprises are given special attention.

BUS 750. Strategic Management. 3 Credit Hours.

The content and process of the capstone course have been designed to provide a rigorous, integrative experience of all areas of management in a variety of environments. Through lectures and discussions of articles, students are exposed to seminal theory on a given topic. In addition, topic specific, integrative thinking and communication skills are developed throughout the discussions of the articles and cases. Among others, topics will include competitive strategy and formulation, industry analysis, globalization or management, manufacturing as a competitive strategy, horizontal and vertical integration, computer integrated manufacturing and capacity expansion.

BUS 790. Special Topics in Business. 3 Credit Hours.

Courses in this series (BUS 790-794) offer an in-depth exploration of specific issues within the field of business, as well as topics of current interest to students and instructors.

Prerequisite: Permission of instructor.

BUS 795. Internship. 1-6 Credit Hours.

This designates credit for approved experiential programs in consultation with the MBA committee.

BUS 799. Independent Study. 1-6 Credit Hours.

This designates individual study programs approved by the MBA committee.

Entrepreneurship & Innovation (ENI)

ENI 120. Starting A Business. 3 Credit Hours.

This course will cover the most important topics to consider when starting or operating a business. These topics include formulating an idea, writing a business plan, accounting/finance issues, organizing the business, required licenses/permits, communication tools, marketing/sales strategies, best management practices, operations and sustainability issues. The instructor will be an individual experienced in creating a new business. This course is intended as an introduction to those topics, and students do NOT need to be business majors. This course will not count towards business major requirements.

ENI 210. Entrepreneurship I: What's the Big Idea?. 3 Credit Hours.

This introductory course focuses heavily on Customer Discovery, understanding the fundamentals of entrepreneurship and how to appropriately test and assess new entrepreneurial opportunities. It is designed to help students answer the following four fundamental questions: So What? Who Cares? Why You? and Why Now? Whether you aspire to start your own entrepreneurial effort with a team, work in a community library or school, or within a large business (such as a Google or Twitter), or small business, you have an important role to play in our economy as an innovator. No ideas are required to register for this course.

ENI 311. Entrepreneurship II: Idea to Startup. 3 Credit Hours.

This course is designed to help students complete the exploratory phase of their entrepreneurial endeavor. That is, students will learn how to transition from Customer Discovery to Customer Validation and, when appropriate, to Customer Growth. This will include a more refined business model and the development of a minimal viable product or service. It will provide students with the tools needed to launch the business and/or become a strong applicant for the Student Sandbox. The only requirements for this course are the answers to the following four questions regarding your idea: So What? Who Cares? Why You? and Why Now?

Prerequisites: ENI 210 or MGT 310.

ENI 312. Entrepreneurship 3: Le Moyne Student Sandbox. 3 Credit Hours.

The purpose of this course is to learn how to manage early-stage companies and innovation based firms by doing it. Various types of innovation, such as Product, Process, Managerial, Business Model, and Technological innovation (and the appropriate timing for each) are learned through the effort of trying to launch and/or grow one's own business.. The formation of forward looking teams, the development of a flexible structure, and fostering a creative culture are brought into focus. Agility of response while maintaining stability in ongoing operations is emphasized. This course seeks to provide an effective framework for use by innovative managers in early stage organizations or in mature firms that are seeking to be innovative.

Management (MGT)

MGT 301. Organizational Behavior. 3 Credit Hours.

An introductory study of the individual, group and organizational determinants of behavior in organizations. Topics include motivation, individual differences, group dynamics, organizational design and structure, leadership, power and influence, and managing conflict and change. Cases and experiential exercises will be key vehicles for the students to apply the concepts and to discover which ones will be personally valid and useful.

MGT 450. Personal & Interpersonal Dimensions of Leadership. 3 Credit Hours.

An advanced course aimed at the in-depth analysis of small group behavior and interpersonal relationships as they occur in organizations. Experiential exercises, cases and group work will help in building the skills to effectively deal with the dynamics of small groups and work relationships. Not open to students who have taken IRL 360.
Prerequisite: MGT 301.

MGT 451. Group Skills and Team Leadership. 3 Credit Hours.

Students will integrate sociological and social psychological theory and research with experimental learning on the dynamics of groups and the behavior of individuals in those groups. The focus is on how individuals can facilitate interpersonal communication to enhance their own effectiveness and that of the group. The goal is to create a learning laboratory where students become participants in learning how to make a group work.
Prerequisite: MGT 301 or permission of instructor.

MGT 452. Organizational Development. 3 Credit Hours.

This course explores the goals, values and processes of bringing about change for the individual, the group and the large system. Students will explore the meaning of change for themselves, as well as study a range of techniques such as action research, team building and appreciative inquiry. Small groups also will design and conduct a change project in order to better grasp the complexities of personal and organizational development.
Prerequisite: MGT 301.

MGT 454. Effective Supervision. 3 Credit Hours.

Effective Supervision is a practical course in how to lead others in organizations. From delegation and performance measurement to correcting unwanted behaviors, you will learn how to address workplace issues with efficiency and effectiveness. Course topics include interpersonal communications, motivation, delegation and negotiating conflict. The class is highly experiential, and will provide useful tools for your first supervisory experience.
Prerequisite: MGT 301.

Cross-listed Courses: HRM 454

MGT 455. Leadership: Classic Perspectives from Literature/Film. 3 Credit Hours.

Our greatest texts and films have much to teach us about the theory and practice of managerial leadership. In this course, an understanding of managerial leadership is developed by comparing, contrasting and ultimately connecting the leadership themes in classic pieces of literature and film with the themes facing leaders in contemporary business organizations.
Prerequisite: MGT 301.

MGT 457. Managing Multicultural Connections. 3 Credit Hours.

This course will explore the Human Resources implications of culture and multicultural communication from the conceptual, practical and human resources perspective. Students will inquire into their own culture and values, explore case studies, and engage in rich discussions with a number of speakers who have experience doing business outside our borders.
Prerequisite: MGT 301.

Cross-listed Courses: HRM 457

MGT 458. Effective Presentation and Facilitation. 3 Credit Hours.

This class will offer the skills to develop, design and deliver presentations using a model of competency assuring the diverse skills necessary for success. The second part of the class will expand the model and explore facilitation skills, offering tools and tactics to facilitate a positive group process to achieve desired results. The class will also cover presentation media, handling challenging participants and in depth audience analysis. The course will be rich with examples, and opportunities to present to a supportive and critical audience.
Prerequisite: Senior standing or permission of instructor.

MGT 459. The Case for Leadership. 3 Credit Hours.

The case-study method encourages students to think through the largest issues in leadership-everything from ethics to new business models to conflict resolution, they are also particularly useful when considering the application of leadership theory. Learning about leadership should not just be reading about what others have done but reflecting on their experiences and examining moments in our lives when we have been faced with similar inflection points. This course examines leadership through teaching cases focused on effective communication, values-based decision-making, reflection and conflict resolution in order to gain application of a case study approach and related theories of leadership. through guided discussion, in-class exercises and establishing a practice of weekly reflective writing, we will explore hard decisions to help refine our own values and standards and to expand our understanding of leadership that today's world demands.
Prerequisite: Senior standing.

MGT 460. Managing Systems Projects. 3 Credit Hours.

This course focuses on introductory project management processes, technology and tools, utilizing the Project Management Institute's (PMI) Project Management Body of Knowledge (PMBOK) and the Software Engineering Institute's (SEI's) Capability Maturity Model Integration (CMMI) processes and nomenclature. Students examine the processes and theory of project management as well as industry case studies, and will utilize project management software in support of their management activities. Guest speakers and field research provide students with access and information from industry and academia. Students are engaged in a semester-long project. Initially, they are required to identify the project scope and team charter for their project; subsequent assignments require them to prepare a business case, work breakdown structure, cost estimate, and final project documentation for their project. Prerequisite(s): MIS 201 or permission of instructor.

Cross-listed Courses: MIS 460, CSC 460, RMI 462

MGT 471. Organizational Learning. 3 Credit Hours.

The purpose of this course is for the students to identify, organize and prioritize essential theories, concepts, knowledge and skills related to organizational learning and knowledge management. using modeling, discussion, and other active strategies, students will apply knowledge and skill to develop and present practical assessments, plans, and evaluations used in the learning and development profession.

Cross-listed Courses: HRM 471

MGT 495. Leadership Dialogue. 3 Credit Hours.

Since early humans began forming tribes, leadership has been seen as a gift, a talent, a product of happenstance or birth. We create theories of great leadership in the hopes that one day we will find the magic formula for The Great Leader and be able to replicate it for a better community, a better business, a better world. This course offers students a unique opportunity to engage with leaders in the Greater Le Moyne community of alumni, board members, and friends. each week, a senior leader from across sectors will share their story, and students will have the opportunity to engage with them with questions and conversation. Senior hospital administrators, government officials, CEO's and not for profit leaders are among those who will be sharing ideas and counsel. Prerequisite: Senior Standing.

MGT 601. Org Dynamics: Leadership. 3 Credit Hours.

A study of the individual, interpersonal, group and organizational and environmental factors that interact with the culture of an organization and together determine the quality of life and performance. Readings, cases, experiential exercises and group projects will be used to help students understand the concepts and discover which are personally valid for them.

Cross-listed Courses: LDR 601

MGT 703. Leadership and Culture. 3 Credit Hours.

The course studies the variations in management and leadership styles across national settings. Factors such as political and economic systems, technology, history and social forces are examined for their relationship to leadership style. Case studies on leadership are extensively used.

Cross-listed Courses: LDR 703

MGT 705. International Business Leadership. 3 Credit Hours.

Given today's extensive and intensive global interaction, a lack of understanding or misunderstanding of why our trading partners (or antagonists) behave as they do makes it difficult to successfully deal with them. A key to such an understanding (or avoidance of misunderstanding) is to obtain a better grasp of their antecedents and of how their business systems evolved. This course seeks to address that need. It traces the history of the business systems of Britain, Germany, Japan, and where relevant, those of emerging nations such as China, India and Mexico. We attempt to place matters in proper perspective and to gain a greater awareness of what our implicit and explicit beliefs are, why we espouse them, often unshakably, and in what light our ideologies, policies and actions might be perceived by the Japanese, Germans, Britons or Chinese.

Prerequisite: MGT 601.

MGT 706. Leadership, Management & Humanities. 3 Credit Hours.

This course will examine models of leadership drawn from classic works of literature and film. Leadership topics will include charisma, crisis management, cultural diversity, ethics, female leadership, goalsetting, the language of leadership, motivation, servant leadership, strategy, team building and transformation leadership. We will discuss the practical and theoretical foundations for these leadership models by examining cases based on the following literary and film texts: All the King's Men, Antigone, The Bridge Over the River Kwai, Citizen Kane, Gandhi, Glengarry Glen Ross, Glory, Heart of Darkness, Henry V, The Iliad, A Jury of Her Peers, The Major of Casterbridge, Moby Dick, Norma Rae, The Odyssey, Twelve O'Clock High and Twelve Angry Men.

Cross-listed Courses: LDR 706

MGT 708. Lessons in Leadership. 3 Credit Hours.

This course explores the primary ideas, values and competencies required for modern corporate and community leadership. This course will also challenge students to use what they have learned in readings and discussions to analyze both themselves and well known leaders. Prerequisite: MGT 601.

MGT 711. Leading Organizational Change. 3 Credit Hours.

This course will tackle three basic questions: What is an organization? What is change? and How to lead organizational change? We will explore the evolving role of leadership, various metaphoric and systems views of organizations and the values and methods of organizational change and development. Student teams will also design and conduct organizational inquiries.

Prerequisite: MGT 501.

Cross-listed Courses: LDR 711

MGT 712. Career Self-Assessment. 3 Credit Hours.

This course will cover a wide range of issues and theories of adult and career development and will involve the students in small group and class discussion as they process an extensive set of self assessment instruments and activities intended to culminate in both short- and long-term career and life plans.

MGT 715. The Emotionally Intelligent Leader : Exploring Emotional and Social Competence in Leaders. 3 Credit Hours.

The concept of Leadership has been examined and dissected since ancient times, in search of a replicable process which could be somehow infused to create great leaders. From classic theories to situational explorations, the power to lead can create a better town, a more successful company, a more equitable world. In the 1990's a new voice joined the chorus of Leadership influence as Daniel Goleman spoke to the ideas of emotional intelligence- the ability to identify, assess and control emotions. This course will explore the writings, papers and presentations of Daniel Goleman in a blended format, inviting students to assess their own strategies as colleagues and leaders have a better understanding of the human side of leadership.

Prerequisite: MGT 601 or permission of instructor.

Cross-listed Courses: LDR 715

MGT 721. Chaos in Health Care: Directing the Evolution. 3 Credit Hours.

This introductory course explores the interconnectedness of the Health Care System in America. The class uses a multi approach system to investigate the business and social forces that generate the need for creative and revolutionary approaches to healthcare, exploring the field both within the traditional walls of healthcare institutions; and in the outpatient and home care settings. The class will explore emerging trends which are changing this landscape. Attention will be paid to the new practices in health care insurance, and how it impacts delivery systems.

MGT 722. The Strategic and Creative Leader. 3 Credit Hours.

This course is one of two leadership courses in the certificate program which invite students to explore the practices of exceptional leaders in the Health Care field. The design of the course supports and guides the student's ability to discover, explore and assess issues in their field and to recognize opportunities which will continue to maximize their strengths as health care leaders. Conversations with numerous leaders in the health care community highlight this unique class which will enhance the student's network and introduce a diverse palette of leadership thought and action.

Cross-listed Courses: LDR 722

MGT 723. Making Leadership Contagious. 3 Credit Hours.

This course is one of two leadership courses in the certificate program which invite students to explore the practices of exceptional leaders in the Health Care field. The design offers a highly introspective approach to each student's leadership style, capacity and development opportunities. Through a series of leadership instruments, highlighted by the Situational Leadership Assessment, students will take part in a reflective journey of what it means to be a leader in the health care field.

MGT 724. The Process of Health Care: Patient Centered Management. 3 Credit Hours.

This course surveys the unique, systematic directives and outcomes within the process of Health Care delivery. Students will explore focus, alignment, expectations, evaluation and incentives which lead to optimum patient care. Leaders must drive the vision which promises timely access, quality care and patient satisfaction in a turbulent environment.

MGT 725. The Business of Healthcare: Connecting the Dots. 3 Credit Hours.

The concept of healthcare within a business model was foreign until recent decades, when costs of health services came to the forefront for organizations committed to providing the best possible care in the face of diminishing resources. This course seeks to explore ethical principles, sound personal and company values, and socially responsible management practices in the interests of responsible and feasible health care delivery as students build a business model for the health care organization.

Management and Leadership Major (B.S.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements ^{Select from the following electives (limit of 2 entrepreneurship courses):}		15
ENI 210	Entrepreneurship I: What's the Big Idea?	

ENI 311	Entrepreneurship II: Idea to Startup	
ENI 312	Entrepreneurship 3: Le Moyne Student Sandbox	
BUS 400	International Business	
MGT 450	Personal & Interpersonal Dimensions of Leadership	
MGT 451	Group Skills and Team Leadership	
MGT 452	Organizational Development	
MGT 454	Effective Supervision	
MGT 455	Leadership: Classic Perspectives from Literature/Film	
MGT 457	Managing Multicultural Connections	
MGT 458	Effective Presentation and Facilitation	
MGT 460	Managing Systems Projects	
HRM 301	Human Resource Management	
Electives		
Electives		18
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Can be waived by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Course	Title	Credit Hours
Freshman Year		
First Semester		
HST 110	World Civilization I	3
STA 201	Statistics I	3
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
BUS 150	Globalization in World of Differences (or a World Language)	3
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
MTH 120	Mathematics for Business Majors	3
STA 202	Statistics II	3
Natural Science (p. 61)		3
Credit Hours		15
Sophomore Year		
First Semester		
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ECO 113	Principles of Microeconomics	3
ENG 210	Major Authors	3
Theology (p. 61)		3
MGT 301	Organizational Behavior (or MKT 301 or MIS 201)	3
Credit Hours		15

Second Semester

ACT 204	Principles of Accounting II for Non-Accounting Majors	3
PHL 210	Moral Philosophy	3
MKT 301	Principles of Marketing	3
ECO 114	Principles of Macroeconomics	3
MIS 201	Introduction to Management Info Systems	3
Credit Hours		15

Junior Year**First Semester**

ENG 310	Literature and Culture	3
FIN 301	Principles of Finance	3
BUS/MGT Elective		3
LAW 200	Legal Environment of Business	3
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		15

Second Semester

BUS/MGT Elective		3
Free Elective		3
ANL 301	Business Analytics	3
Free Elective		3
EAC Encountering Another Culture/Language (second-sequenced language) (p. 61)		3
Credit Hours		15

Senior Year**First Semester**

BUS/MGT Elective		3
Free Elective		3
Free Elective		3
BUS/MGT Elective		3
Religion (p. 61)		3
Credit Hours		15

Second Semester

BUS/MGT Elective		3
Free Elective		3
Free Elective		3
COR 400	Senior Studies: Transformations	3
BUS 470	Business Policy	3
Credit Hours		15
Total Credit Hours		120

Management and Leadership Dual Majors (B.S.)

Dual Major (B.S.) in Management and Leadership and Information Systems

Management & Leadership majors interested in pursuing a dual major in Information Systems need to complete the following courses:

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non-Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
MIS 455	Managing the Technological Enterprise	3
or MIS 425	Distributed Enterprise Systems	
MIS 480	Database Management Systems	3
Select two MIS Electives ⁴		6
Select four BUS/MGT Electives (only two Entrepreneurship options allowed)		12
BUS 400	International Business	
HRM 301	Human Resource Management	
ENI 210	Entrepreneurship I: What's the Big Idea?	
ENI 311	Entrepreneurship II: Idea to Startup	
ENI 312	Entrepreneurship 3: Le Moyne Student Sandbox	
MGT 450	Personal & Interpersonal Dimensions of Leadership	
MGT 451	Group Skills and Team Leadership	

MGT 452	Organizational Development	
MGT 454	Effective Supervision	
MGT 455	Leadership: Classic Perspectives from Literature/Film	
MGT 458	Effective Presentation and Facilitation	
Liberal Arts Electives		6
Free Elective		3
Total Credit Hours		120

- ¹ Some Core requirements may be fulfilled by major requirements.
- ² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.
- ³ Can be waived by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.
- ⁴ Recommended MIS electives: MIS 375 Applied Systems Analysis, MIS 460 Managing Systems Projects, MIS 415 Business Intelligence.

Dual Major in Marketing and Management and Leadership (B.S.)

This dual degree offering will create a highly marketable and crucial career path for business students seeking a career in marketing with a foundation in leadership. Students will gain competency in the knowledge and tools of marketing, the process of getting goods and services to the consumer, along with the people skills for managing individuals and teams toward a successful enterprise.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non-Accounting Majors	3

ACT 204	Principles of Accounting II for Non-Accounting Majors	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
LAW 200	Legal Environment of Business	3
MGT 301	Organizational Behavior	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3

Major Requirements

MKT 401	Marketing Research	3
MKT 402	Marketing Management	3

Choose two of the following MKT Electives: **6**

MKT 310	Advertising	
MKT 330	Consumer Behavior	
MKT 407	Social Media Marketing	
MKT 410	Brand Management	
MKT 415	Business Intelligence	
MKT 417	Digital Marketing	
MKT 420	Marketing Analytics	
MKT 435	Green Marketing	
MKT 335	Client Side Web Applications Development	
MKT 405	Sports Marketing	
MKT 406	Nonprofit Marketing	
MKT 440	Sports Consortium	

Choose four of the following M&L Electives (only 2 entrepreneurship courses can count): **12**

HRM 301	Human Resource Management	
MGT 451	Group Skills and Team Leadership	
MGT 454	Effective Supervision	
MGT 458	Effective Presentation and Facilitation	
MGT 460	Managing Systems Projects	
MGT 450	Personal & Interpersonal Dimensions of Leadership	
MGT 452	Organizational Development	
MGT 455	Leadership: Classic Perspectives from Literature/Film	
HRM 301	Human Resource Management	
ENI 210	Entrepreneurship I: What's the Big Idea?	
ENI 311	Entrepreneurship II: Idea to Startup	
ENI 312	Entrepreneurship 3: Le Moyné Student Sandbox	

Liberal Arts Electives 6

Free Elective 3

Total Credit Hours 120¹ Some Core requirements may be fulfilled by major requirements.² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.³ Can be waived by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Human Resource Management/ Management and Leadership Dual Major

The most successful organizations of the future will be those who understand how to invite, engage and retain the best employees. This dual degree offering will create a highly career path for business students seeking a career in management, with a pathway through the human resources field. Students will explore talent acquisition and engagement, with a foundation in management and leadership to optimize outcomes and ensure success.

Code	Title	Credit Hours
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Core Requirements (p. 61) ¹

COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0

Management Core Requirements

STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non-Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
LAW 200	Legal Environment of Business	3
MGT 301	Organizational Behavior	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3

Major Requirements

HRM 301	Human Resource Management	3
HRM 403	Total Rewards: Compensation & Benefits	3

HRM 404	Talent Management: Performance and Retention	3
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Electives

Choose one of the following HR Electives: 3

HRM 457	Managing Multicultural Connections	
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Choose 4 of the following M&L Electives: 12

MGT 451	Group Skills and Team Leadership	
MGT 452	Organizational Development	
MGT 454	Effective Supervision	
MGT 458	Effective Presentation and Facilitation	
MGT 450	Personal & Interpersonal Dimensions of Leadership	
MGT 455	Leadership: Classic Perspectives from Literature/Film	
MGT 460	Managing Systems Projects	

Only 2 of the following 3 entrepreneurship courses can count towards M&L major 6

ENI 210	Entrepreneurship I: What's the Big Idea?	
ENI 311	Entrepreneurship II: Idea to Startup	
ENI 312	Entrepreneurship 3: Le Moyne Student Sandbox	

Liberal Arts Electives 6

Free Elective 3

Total Credit Hours 120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Business Administration Minor

The division offers a minor in business administration for students who major in one of the liberal arts or sciences. Although the minor does not offer the breadth or depth that a major course of study provides, it introduces and acclimates students to the world of business.

Students minoring in business administration are required to complete the following courses and their prerequisites for a letter grade.

Code	Title	Credit Hours
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Minor Requirements

ACT 203	Principles of Accounting I for Non Accounting Majors	3
MGT 301	Organizational Behavior	3
MKT 301	Principles of Marketing	3
Select two of the following:		6
ACT 204	Principles of Accounting II for Non-Accounting Majors	
ANL 301	Business Analytics ¹	
FIN 201	Personal Finance	
FIN 301	Principles of Finance ¹	
HRM 301	Human Resource Management	

LAW 200	Legal Environment of Business
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MIS 201	Introduction to Management Info Systems
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STA 201	Statistics I
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Total Credit Hours 15

¹ ANL 301 Business Analytics and FIN 301 Principles of Finance have additional course prerequisites.

Entrepreneurship Minor

Innovation has been at the heart of economic growth and increased levels of prosperity for nearly three centuries. The entrepreneur has, through this extended period of ideational ferment and business expansion, (by seeking new opportunities, launching new, perhaps risky ventures, and mapping out new domains) been central to the innovative process. The role of entrepreneurship in American economic growth is probably more significant than it is in the case of any other country. It is a tradition worth fostering, and we would like to encourage students to act entrepreneurially and to acquire an innovative mindset.

The intent underlying the minor is to stimulate students to start their own new ventures by giving them the analytical, applied, conceptual, and reflective skills necessary to do. Combined with this practical intent, is a larger goal of fostering an entrepreneurial mindset, by dint of which students become opportunity-seekers, and problem-solvers, constantly looking for ways to deal with life's challenges.

Code	Title	Credit Hours
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Minor Requirements For all business majors except Management & Leadership

ENI 210	Entrepreneurship I: What's the Big Idea?	3
ENI 311	Entrepreneurship II: Idea to Startup	3
ENI 312	Entrepreneurship 3: Le Moyne Student Sandbox	3
2 courses from an approved list		6

Total Credit Hours 15

MARKETING

Chair: George E. Kulick

Program Director: Magdoleen T. Ierlan (of Marketing)

Associate Professor: Magdoleen T. Ierlan, Dipankar Rai

Assistant Professor: John Yi

Adjunct Faculty: Daniel J. Arno

Professor Emerita: Mary Ann Donnelly

Marketing is a vital link between the organization and the consumer. All organizations need to successfully market themselves. Marketing is the bridge between all other departments and the consumer. It is the process through which goods and services move from concept to the customer. Rapidly changing business landscapes create new challenges for companies. Marketing strategies provide the tools by which firms identify and analyze customers' needs and create solutions which benefit all stakeholders. Students studying marketing will be given a thorough education in how economics, psychology, sociology, and statistics contribute to the marketers' decision making process.

The marketing program at Le Moyne is cutting edge, continuously adding new courses and programs to meet the changing needs of marketing professionals. Recently, Social media marketing and marketing analytics were introduced to help student better prepare for their future marketing careers. A student run marketing firm, Heights Global Marketing, is the first student run organization on campus. HGM gives students real world experiences in creating marketing solutions for local and global organizations.

The marketing major is centered on two required capstone courses beyond the introductory course: MKT 401 Marketing Research and MKT 402 Marketing Management. Students in these two courses work on a year long marketing research project for a local organization. During this period, students will meet with a representative(s) of the firm to first help identify the information that will enable the organization to more effectively make strategic decisions. The students will develop a questionnaire to address the identified information needs and then collect and analyze the data. Finally, the students will make a presentation to the organization and present their findings and recommendations. This year-long project has been well-received by the business community and is an excellent "hands-on" experience for the students.

Beyond the two required courses, a marketing major student must select three more electives. Possible offerings include MKT 310 Advertising, MKT 405 Sports Marketing, MKT 435 Green Marketing, MKT 407 Social Media Marketing, MKT 420 Marketing Analytics, MKT 330 Consumer Behavior, MKT 410 Brand Management, MKT 417 Digital Marketing and MKT 450 Pro Selling & Sales Management. Internships are strongly encouraged as they provide excellent real-world experience and also help enhance the student's resume.

Marketing major graduates will be prepared for broad and promising career options, which might include advertising and promotion management, business-to-business marketing, consumer marketing management, marketing research, new product development, retailing and wholesaling, sales management, sports marketing or transportation and logistics.

Student Learning Outcomes in Marketing

Students who graduate will be able to:

Understand Marketing Concepts

Identify core concepts of marketing and the role of marketing in business and society.

Evaluate Problems and Formulate Solutions

Analyze marketing problems and provide solutions based on a critical examination of marketing information.

Communicate Effectively

Communicate the unique marketing mixes and selling propositions for specific product offerings.

Ethical and Moral Behavior

Know the social, legal, ethical and technological forces on marketing decision-making.

- Marketing Major (B.S.) (p. 413)
- Dual Major in Marketing and Business Analytics (B.S.) (p. 414)
- Dual Major in Marketing and Information Systems (B.S.) (p. 415)
- Dual Major in Marketing and Management and Leadership (B.S.) (p. 416)
- Marketing Minor (p. 416)
- Sports Marketing Minor (p. 416)

Law (LAW)

LAW 200. Legal Environment of Business. 3 Credit Hours.

This course provides an introduction to the various ways in which laws and the legal system affect the conduct of business. Students will be encouraged to use their understanding of law and the legal system as a tool in ethical business decision making. Some reference to the impact of law in the international sphere will be included.

Cross-listed Courses: LGS 250

LAW 436. Introduction to Government Contracting Law, Compliance, Ethics. 3 Credit Hours.

This course provides an introduction to the legal and regulatory framework for doing business with the federal government. The course of study will center on the requirements of the Federal Acquisition Regulations, and will include a study of several related statutes, as well as the regulatory compliance and business ethics requirements of doing business with the federal government. Guest speakers and case studies provide students with access and information from industry and academia.

Prerequisites: ACT 201 or ACT 203 or LAW 200 or permission of the instructor.

Cross-listed Courses: BUS 436, BUS 536, LAW 536

LAW 437. Capstone Course: Cases in Government Contracting Law, Compliance and Ethics. 3 Credit Hours.

This course is the capstone course in the Government Systems Contracting certificate at Le Moyne. It requires the student to synthesize knowledge about the legal and regulatory framework for doing business with the federal government through a series of case studies of law, compliance and ethics. Course material focuses on cases derived from requirements of the Federal Acquisition Regulations, and related statutes. Guest speakers from industry and government will discuss regulatory compliance and business ethics requirements topics with students during class.

Prerequisites: BUS 436, ACT 436, LAW 436 or permission of instructor.

Cross-listed Courses: BUS 437, BUS 537, LAW 537

LAW 536. Introduction to Government Contracting Law, Compliance, Ethics. 3 Credit Hours.

This course provides an introduction to the legal and regulatory framework for doing business with the federal government. The course of study will center on the requirements of the Federal Acquisition Regulations, and will include a study of several related statutes, as well as the regulatory compliance and business ethics requirements of doing business with the federal government. Guest speakers and case studies provide students with access and information from industry and academia.

Prerequisites: ACT 201 or ACT 203 or LAW 200 or permission of the instructor.

Cross-listed Courses: BUS 436, LAW 436, BUS 536

LAW 537. Capstone Course: Cases in Government Contracting Law, Compliance, and Ethics. 3 Credit Hours.

This course is the capstone course in the Government Systems Contracting certificate at Le Moyne. It requires the student to synthesize knowledge about the legal and regulatory framework for doing business with the federal government through a series of case studies of law, compliance and ethics. Course material focuses on cases derived from requirements of the Federal Acquisition Regulations, and related statutes. Guest speakers from industry and government will discuss regulatory compliance and business ethics requirements topics with students during class.

Prerequisites: BUS 536, ACT 536, LAW 536 or permission of instructor.

Cross-listed Courses: BUS 437, LAW 437, BUS 537

Marketing (MKT)

MKT 301. Principles of Marketing. 3 Credit Hours.

An introductory study of the basic principles and problems of marketing. Its relationship to the consumer as well as its role in the operation of profit and non-profit seeking organizations. Emphasis is on an integration of the marketing "mix": product, price, place, promotion as the logical approach to the marketplace.

MKT 310. Advertising. 3 Credit Hours.

A basic course dealing with the function, theory and principles of advertising. Covers the significance of advertising, its relation to marketing, advertising research, the consumer and the application of the planning and preparation of an advertising campaign.

Prerequisite: MKT 301.

MKT 320. Transportation. 3 Credit Hours.

This course is a study of domestic transportation in the United States and the role of transportation in physical distribution systems. The course deals with rates, regulations, national transportation policy, carrier operations, transport in the area of physical distribution and current issues in the field.

Prerequisites: marketing concentration major; MKT 301.

MKT 330. Consumer Behavior. 3 Credit Hours.

The study of consumer behavior variables and their impact on marketing. Includes consumer behavior models, motivation, perception, attitudes, the influences of family, society and culture.

Fulfills Core Requirement(s): Interdisciplinary Studies (IDS).

MKT 335. Client Side Web Applications Development. 3 Credit Hours.

As more and more businesses and individuals turn to the Web for sharing information and conducting commercial activities, a quality web site can provide competitive advantage and invite users for repetitive visits. The key to a quality and successful web site lies in both the content and usability of the site. To increase understanding of web usability, this course will engage students in an exploration of fundamental concepts in web design and development processes with hands-on exercises. This course explores the factors influencing web site usability throughout the design process, including requirements analysis, conceptual design, mockups and prototypes, production, and web site evaluation. Students will also learn to use client-side scripting techniques to enhance web usability.

Cross-listed Courses: MIS 335

MKT 401. Marketing Research. 3 Credit Hours.

An investigation of the information requirements of marketing managers in the management of marketing activities. Topics include design of the research, methods of data collection and analysis, as well as interpretation of the data and its limitations. Actual research is conducted by the student.

Prerequisites: marketing concentration major; MKT 301 and STA 201.

MKT 402. Marketing Management. 3 Credit Hours.

This course involves the practical application of the theories and concepts discussed in the other marketing offerings. Actual case studies are used so the student may investigate the process of planning, organizing, directing and controlling the marketing function in the modern organization.

Prerequisites: marketing concentration major; MKT 401.

MKT 405. Sports Marketing. 3 Credit Hours.

This course examines the field of sports marketing. A strategic marketing perspective is utilized in an examination of sports products and their pricing, promotion and distribution. Both sports participants and spectators are examined in their roles as consumers. Prerequisite or corequisite: MKT 301.

MKT 406. Nonprofit Marketing. 3 Credit Hours.

This course explores the role of marketing strategy used by nonprofit organizations. While the number of non-profits continues to grow, many face significant declines in traditional sources of revenue, dramatic changes in their customer mix, and bold new competition. Many non-profits need help in rethinking where they are going and what broad strategies they should be using to get there. Marketing strategy is quickly becoming the most critical discipline needed by nonprofit organizations.

Prerequisite: MKT 301.

MKT 407. Social Media Marketing. 3 Credit Hours.

This course examines the ways in which interactive technologies are changing the rule and processes for customer engagement. The course will survey the landscape of social media tools with an eye towards critically analyzing their role as effective means for delivering and receiving marketing messages and communications. Special emphasis will be placed upon cornerstone digital marketing techniques that feature utilization of technologies that depend upon customer participation. The social media tools to be analyzed include Google, Facebook, LinkedIn, Twitter, Vine, Instagram, Pinterest, YouTube, \$Square, Tumblr, BlogSpot, and Yelp! The course will introduce students to the above commonly used social media tools in the marketing and business context by critically examining the functionality and technological underpinnings that enhance their utility as functionality and technological underpinnings that enhance their utility as marketing devices as well as the risks that might be associated with their use. This course will challenge students to look at social media in a new and more expansive way by requiring them to examine social media's potential benefits and limitations, as well as appropriate ethical concerns, when used professionally for the purposes of marketing. Prerequisite(s): MKT 301 and STA 201.

MKT 410. Brand Management. 3 Credit Hours.

Brands are one of the most valuable assets of a company. A strong brand can have a significant impact on consumer purchase decisions and company profitability. Therefore, effective brand management is crucial in maintaining the long-term profitability of any organization. Consequently, it has become one of the top priorities for companies. This course provides students with insights into how profitable brand strategies can be created and managed. In doing so, students will learn how to build and manage brands successfully. The course blends marketing theory and practice to provide students with a comprehensive perspective on brand management strategies. Prerequisite(s): MKT 301.

MKT 415. Business Intelligence. 3 Credit Hours.

This course provides an introduction to Business Intelligence, including the processes, methodologies, infrastructure, and current practices used to transform business data into useful information and support business decision-making. Business Intelligence requires foundation knowledge in data storage and retrieval, thus this course will review logical data models for both database management systems and data warehouses. Students will learn to extract and manipulate data from these systems and assess security-related issues. Data mining, visualization, and statistical analysis along with reporting options such as management dashboards and balanced scorecards will be covered. Technologies utilized in the course included SAP Business Warehouse, SAP Business Objects, Crystal Reports, and RapidMiner.

Prerequisite: MIS 201 or permission of the instructor.

Cross-listed Courses: MIS 415, ANL 415, CTS 415

MKT 417. Digital Marketing. 3 Credit Hours.

The increased consumption of digital technologies has led to a dramatic increase in the amount of time and money consumers spend online. As a result, it is becoming crucial for marketers to develop a digital marketing strategy to build meaningful customer relationships. This course provides students with insights into how profitable digital marketing strategies can be created and managed. In doing so, students will learn how to develop effective digital marketing strategies that connect with consumers. Prerequisite(s): MKT 301.

MKT 420. Marketing Analytics. 3 Credit Hours.

With the increased use of big data creating a paradigm shift in how marketers make decisions, the need to be able to extract meaningful information from this voluminous amount of data to make smarter decisions is becoming more important than ever. The course will provide students with the tools to develop a systematic, analytical approach to marketing decision making. The course aims at preparing students to (1) understand the value of competitive advantages leveraged by analytics; (2) understand the existence, advantages and limitations of different analytical approaches; and (3) to apply, interpret the input, and communicate the output from these tools and models, and apply them to help make fact-based decisions. The course takes on a hands-on experiential approach with real-world databases to facilitate the comprehension of the different analytical approaches discussed in class. Prerequisites: MKT 301, STA 202.

Cross-listed Courses: MIS 420, ANL 425

MKT 425. Industrial Marketing. 3 Credit Hours.

This course analyzes the strategic and operational decisions faced by industrial marketing managers. Emphasis is on the marketing management implications of market segmentation strategies, market planning, innovation/new product development, overall marketing strategy formulation and the substrategies of product, price, promotion and physical distribution.

Prerequisites: marketing concentration major; MKT 301.

MKT 435. Green Marketing. 3 Credit Hours.

This course explores the core principles necessary to create competitive advantages in the marketplace by implementing innovative green marketing strategies. As business becomes more aware of the need to be sustainable, marketers need to help companies with this effort. Today's marketing professional needs to do more than sell products, they need to be part of the cultural shift and move toward a more sustainable marketing practice. Topics include green marketing core principles, corporate responsibility, green sales strategies, green marketing matrix, sustainable business alliances, green marketing vs. market share, green marketing creative writing and how to create a green marketing strategy plan. Students should leave the course with a comprehensive understanding of the core principles of green marketing and how to integrate sustainable strategies into marketing practices that will improve a brand's bottom line.

Fulfills Core Requirement: Interdisciplinary Studies (IDS).

MKT 440. Sports Consortium. 3 Credit Hours.

This course brings in professionals from the sports industry to share their experiences with the students. Students will be introduced to many facets of the sports industry. Professionals from sports marketing, sports management, facilities management, sports information, sports law, sponsorship, sports operations, sports events coordination, and sporting goods will introduce students to their respective fields. The objective of this course is to engage students in a meaningful manner with alumni in fields of interest to them. Prerequisite(s): MKT 301 and MKT 405.

MKT 445. Mobile Applications & Business Stratgs. 3 Credit Hours.

The course explores the important challenges and needs of today's organizations to go mobile to connect with their stakeholders. Students will learn the technical, managerial and marketing aspects of mobile applications. Technically, they will learn the development process and technical infrastructure of mobile applications. Managerially, students will learn how to develop business strategies to exploit mobile applications for the advancing and repositioning of organizations. For marketing, students will learn to market the newly developed mobile applications and at the same time to use mobile applications to market and promote the organizations and their products or services.

MKT 450. Professional Selling & Sales Management. 3 Credit Hours.

This course will acquaint students with the basic processes of buying and selling, how professional selling is linked to building customer relationships, the role of ethical behavior in sales, how the sales effort should be organized, and the strategic role of information in sales management. It will introduce students to aspects of salesperson performance such as behavior, role perceptions and job satisfaction, motivation of the sales force and analysis of the various personal characteristics of sales aptitude, criteria for selecting, recruiting, training, compensation and incentives for salespeople. Student will learn how to determine and control costs of a sales force, specific criteria for evaluation and control of salesperson performance, vital management factors affecting accomplishments of sales force goals. Prerequisite(s): MKT 301.

MKT 601. Marketing Management. 3 Credit Hours.

Introduces the role of marketing in organizations, including customer analysis and buyer behavior, market segmentation and research, distribution channel and product policy, strategy, pricing and marketing communications. Case studies provide an opportunity for analytical approaches to problems both orally and in writing.

MKT 706. Nonprofit Marketing. 3 Credit Hours.

This course focuses upon the concept of "social enterprise," an increasingly prominent way of thinking about ventures that both social and commercial entities are undertaking. Students will be introduced to this emerging intersection between the nonprofit sector and the business world.

MKT 710. Judgment in Managerial Decision Making. 3 Credit Hours.

This course is an MBA elective that will explore key topics in managerial decision making. Particular attention will be paid to the ways that people often stray from rational or ethical standards of conduct, with important implications for firms and individuals alike. Through an interdisciplinary lens, we will consider the business implications of decision-making insights drawn from contemporary research across domains including behavioral economics, behavioral finance, consumer behavior, marketing, negotiation, organizational behavior, and psychology.

MKT 715. Mobile Applications & Business Stratgs. 3 Credit Hours.

The course explores the important challenges and needs of today's organizations to go mobile to connect with their stakeholders. Students will learn the technical, managerial and marketing aspects of mobile applications. Technically, they will learn the development process and technical infrastructure of mobile applications. Managerially, students will learn how to develop business strategies to exploit mobile applications for the advancing and repositioning of organizations. For marketing, students will learn to market the newly developed mobile applications and at the same time to use mobile applications to market and promote the organizations and their products or services.

MKT 717. Digital Marketing I. 3 Credit Hours.

people are regularly consuming content through different forms of digital media to interact with the world. As a result, it is becoming increasingly important for marketers to develop meaningful content to connect with consumers. This course teaches students how to create engaging digital stories grounded in sound marketing principles. By learning how to create digital content to build meaningful connections with consumers, students enhance their understanding of digital marketing strategies. Prerequisite: MKT 601.

MKT 719. Marketing Analytics. 3 Credit Hours.

In a world where data is more valuable than oil, the need to apply cutting-edge computational analyses, in addition to conventional statistical approaches, to derive meaning from large noisy databases and provide insight into understanding the outcome of marketing strategies is becoming more important than ever. this course will teach students how to leverage data and use analytics to form impactful marketing strategies. By learning the different analytical approaches and how to apply them to make marketing decisions, students enhance their understanding of the importance of marketing analytics. Prerequisites: MKT 601, STA 501, and MIS 501.

Cross-listed Courses: ANL 719, MIS 719

MKT 790. Special Topics in Marketing. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of marketing, as well as topics of current interest to students and instructors.

MKT 799. Strategic Marketing. 3 Credit Hours.

Marketing Major (B.S.)

Students majoring in marketing are required to enroll in the following courses:

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3

STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non-Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
MKT 401	Marketing Research	3
MKT 402	Marketing Management	3
MKT Electives		9
Electives		
Liberal Arts Electives		6
Electives		12
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Course	Title	Credit Hours
Freshman Year		
First Semester		
HST 110	World Civilization I	3
STA 201	Statistics I	3
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
BUS 150	Globalization in World of Differences	3
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
Mathematics (p. 61)		3
STA 202	Statistics II	3
Natural Science (p. 61)		3
Credit Hours		15
Sophomore Year		
First Semester		
ACT 203	Principles of Accounting I for Non-Accounting Majors	3
ENG 210	Major Authors	3
Theology (p. 61)		3
ECO 113	Principles of Microeconomics	3

MKT 301	Principles of Marketing	3
Credit Hours		15
Second Semester		
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
PHL 210	Moral Philosophy	3
ANL 301	Business Analytics	3
ECO 114	Principles of Macroeconomics	3
MIS 201	Introduction to Management Info Systems	3
Credit Hours		15
Junior Year		
First Semester		
ENG 310	Literature and Culture	3
FIN 301	Principles of Finance	3
MKT Elective		3
LAW 200	Legal Environment of Business	3
IDS Interdisciplinary Studies (p. 61)		3
Credit Hours		15
Second Semester		
MKT Elective		3
EAC Encountering Another Culture/Language (p. 61)		3
Liberal Arts Elective		3
MGT 301	Organizational Behavior	3
Elective		3
Credit Hours		15
Senior Year		
First Semester		
MKT 401	Marketing Research	3
Liberal Arts Elective		3
Elective		3
MKT Elective		3
Religion (p. 61)		3
Credit Hours		15
Second Semester		
MKT 402	Marketing Management	3
Elective		3
Elective		3
COR 400	Senior Studies: Transformations	3
BUS 470	Business Policy	3
Credit Hours		15
Total Credit Hours		120

Dual Major in Marketing and Business Analytics (B.S.)

Dual Major (B.S.) in Marketing and Business Analytics

Marketing majors interested in pursuing a dual major in business analytics need to complete the following courses:

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non-Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
MKT 401	Marketing Research	3
MKT 402	Marketing Management	3
Select two MKT Electives (one will count as a business analytics elective)		6
Choose any four of the following ANL courses:		12
ANL 400	Applied Forecasting Analysis	
ANL 410	Supply Chain Analysis (which will also count as a marketing elective)	
ANL 415	Business Intelligence	
ANL 420	Strategic Management Analysis	
ANL 425	Marketing Analytics	
ANL 430	Simulation and Risk Analysis	
ANL 435	Data Science	
ANL 440	Machine Learning for Business Applications	

Electives

Liberal Arts Electives	6
Electives	3
Total Credit Hours	120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Dual Major in Marketing and Information Systems (B.S.)

Dual Major (B.S.) in Marketing and Information Systems

Marketing majors interested in pursuing a dual major in information systems need to complete the following courses:

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non-Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3

BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
STA 201	Statistics I	3
Major Requirements		
MKT 401	Marketing Research	3
MKT 402	Marketing Management	3
Select two marketing electives		6
MIS 455	Managing the Technological Enterprise	3
or MIS 425 Distributed Enterprise Systems		
MIS 480	Database Management Systems	3
Select two MIS electives ⁴		6
Electives		
Liberal Arts Electives		6
Electives		3
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Can be waived by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

⁴ Recommended MIS electives: MIS 335 Client Side Web Applications Development, MIS 411 Crowds, Social Media & Digital Collaboration, MIS 415 Business Intelligence, MIS 340 Data Science, MIS 350 Accounting Information Systems, MIS 420 Marketing Analytics, and MIS 445 Mobile Applications and Business Strategies.

Marketing Minor

Students from any major interested in pursuing a minor in marketing need to complete the following courses:

Code	Title	Credit Hours
Minor Requirements		
MKT 301	Principles of Marketing	3
MKT 401	Marketing Research	3
MKT 402	Marketing Management	3
Select two of the following:		6
MKT 310	Advertising	
MKT 320	Transportation	
MKT 330	Consumer Behavior	
MKT 405	Sports Marketing	
MKT 406	Nonprofit Marketing	
MKT 407	Social Media Marketing	
MKT 410	Brand Management	
MKT 417	Digital Marketing	
MKT 420	Marketing Analytics	
MKT 425	Industrial Marketing	
MKT 435	Green Marketing	
Total Credit Hours		15

Sports Marketing Minor

Students from any major interested in pursuing a minor in sports marketing need to complete the following courses:

Code	Title	Credit Hours
Minor Requirements		
MKT 301	Principles of Marketing	3
MKT 405	Sports Marketing	3
ECO 350	The Economic of Sports	3
MKT 440	Sports Consortium	3
Internship in a sports related field		3
Total Credit Hours		15

Dual Major in Marketing and Management and Leadership (B.S.)

Dual Major in Marketing and Management and Leadership (B.S.)

This dual degree offering will create a highly marketable and crucial career path for business students seeking a career in marketing with a foundation in leadership. Students will gain competency in the knowledge and tools of marketing, the process of getting goods and services to the consumer, along with the people skills for managing individuals and teams toward a successful enterprise.

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3

ACT 204	Principles of Accounting II for Non-Accounting Majors	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
LAW 200	Legal Environment of Business	3
MGT 301	Organizational Behavior	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
MKT 401	Marketing Research	3
MKT 402	Marketing Management	3
Choose two of the following MKT Electives:		6
MKT 310	Advertising	
MKT 330	Consumer Behavior	
MKT 407	Social Media Marketing	
MKT 410	Brand Management	
MKT 415	Business Intelligence	
MKT 417	Digital Marketing	
MKT 420	Marketing Analytics	
MKT 435	Green Marketing	
MKT 335	Client Side Web Applications Development	
MKT 405	Sports Marketing	
MKT 406	Nonprofit Marketing	
MKT 440	Sports Consortium	
Choose four of the following M&L Electives (only 2 entrepreneurship courses can count):		12
HRM 301	Human Resource Management	
MGT 451	Group Skills and Team Leadership	
MGT 454	Effective Supervision	
MGT 458	Effective Presentation and Facilitation	
MGT 460	Managing Systems Projects	
MGT 450	Personal & Interpersonal Dimensions of Leadership	
MGT 452	Organizational Development	
MGT 455	Leadership: Classic Perspectives from Literature/Film	
HRM 301	Human Resource Management	
ENI 210	Entrepreneurship I: What's the Big Idea?	
ENI 311	Entrepreneurship II: Idea to Startup	
ENI 312	Entrepreneurship 3: Le Moyne Student Sandbox	
Liberal Arts Electives		6
Free Elective		3
Total Credit Hours		120

³ Can be waived by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics .

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

MASTER OF BUSINESS ADMINISTRATION (MBA)

The Le Moyne College Master of Business Administration (MBA) programs are distinctive because of their emphasis on developing decision-making managers for an increasingly complex world, who combine the art and science of leadership in a global perspective. Today's manager must be able to analyze everything from balance sheets to socio-cultural diversity. But analysis is hardly enough. Today's manager must be able to coach, teach, negotiate and communicate. He or she must think through a plan of action, then implement it. Le Moyne's Jesuit tradition stresses ethical and value analysis as well as oral and written communication.

The MBA program is self-sufficient in the sense that all of the academic coursework needed is contained in the program. Applicants with little or no prior background in business, without a business or accounting undergraduate degree, or whose skills need updating, will find course work available to meet their needs.

Small classes, meeting once a week in the evening and occasional Saturday offerings, encourage close working relationships among faculty, students and staff. All faculty are doctorally qualified and publish research or consult in their respective fields. As a result, students will participate in state-of-the-art discussions, addressing the management issues of the next decade.

Admission Criteria

Applications for matriculation are reviewed by the respective Program Director and Graduate Admission Committee. Admission applications are evaluated for an applicant's intellectual abilities, needs, leadership qualities and ability to complete the program.

Applicants will be assessed according to the following criteria:

- Transcripts showing proof of an earned bachelor's degree from an accredited college or university must be submitted by the time of enrollment. A baccalaureate degree with a 3.0 or higher GPA. Official transcripts from all previous colleges will be required for admission. Those who do not meet this particular GPA requirement may be admitted on a conditional basis in foundation or prerequisite courses. Two courses may be taken on this basis in consultation with the appropriate Program Director.
- Two letters of recommendation are required. Recommendations must be from professionals, faculty members and/or academic advisors who can attest to the prospective student's ability to be successful in a graduate program.
- Resume or C.V. to include relevant work experience, examples of professional achievement or other information that might be used to assess the prospective student's personal qualities and ability to successfully complete graduate level work.
- Personal Statement. A brief essay stating, as specifically as possible, the applicant's educational and career goals and what the applicant plans to accomplish by enrolling in the graduate program of choice.
- Interview, by invitation only.

- A GMAT or GRE exam. Waivers for the GMAT/GRE requirement are considered and automatically applied for competitive applicants. This includes students with:
 - Undergraduate GPAs of 3.0 or above, or;
 - Applicants with 5+ years of professional work experience, or;
 - Those with other terminal degrees, or;
 - Students who have taken other graduate level entrance exams (i.e. LSAT, MCAT) within the last five years.

Requests for consideration of GMAT/GRE waivers or further advice on this exam can be directed to gradadmission@lemoyne.edu.

Code	Title	Credit Hours
Completion of Prerequisite Courses ¹		
The following prerequisite graduate courses, or the undergraduate equivalent coursework, must be completed by the time the program begins. Generally, six credit hours of undergraduate introductory coursework completed in recent years with a grade of B or better are considered equivalent to the respective prerequisite graduate coursework in each required area of accounting, economics, management information systems, and quantitative decision making. Please consult with the Program Director regarding acceptable undergraduate equivalencies.		
Prerequisite Courses and Credit Hours		
ACT 501	Intro Fin & Managerial Act	3
ECO 501	Economics for Managers	3
MIS 501	Management Information Systems	3
STA 501	Quantitative Decision Making	3

¹ Prerequisite courses serve as foundation courses in the MBA, Management Degree Program.

Academic Awards

The following award is presented to graduate students at the Honors Convocation: The Michael D. Madden Graduate Award for Excellence in Strategic Management. It is awarded to a graduate student team for the most outstanding project in strategic management.

Academic Criteria

Each student must complete a minimum of 30 of the 36 credits in the Le Moyne MBA Program, as approved by the MBA director. All students must take the capstone course. Successful completion of the Le Moyne MBA program requires a minimum cumulative G.P.A. of 3.0 and a minimum residency of 30 credit hours.

Transfer Credit/Policy

The acceptance of transfer credit will be considered based on the following:

Waivers of foundation courses could be granted to those who have completed the equivalent academic requirements in their undergraduate program. Typically, two undergraduate courses, in the appropriate area and at the appropriate level, completed in recent years with a grade of B

or better, could be used to waive an MBA foundation course. Because of the highly diverse nature of undergraduate education, all waivers will be considered by the MBA director on a case-by-case basis.

For most courses, equivalent content level graduate courses from AACSB accredited institutions with a grade of B or better may be accepted as transfer credit. Transfer courses must be approved by the MBA director. Transfer credits are not included in the quality point index.

Term Limit for Completion

When an MBA candidate becomes matriculated, he/she has a total of six years to complete program requirements. If, however, an MBA candidate is within three courses of completing the degree by the end of the six-year period, he/she may petition the MBA director to request an extension not to exceed one calendar year or three consecutive semesters.

Probation and Termination

Matriculated MBA students with a cumulative G.P.A. of less than 3.0 are immediately placed on academic probation. The student will be notified and must meet with the director before continuing with further study. Until the student meets with the director, a hold will be placed on his or her registration. The director, in consultation with the student, will specify a time and course schedule after which the student is expected to have raised his or her cumulative G.P.A. to the required 3.0 level. If the student does not meet the requirement by the specified time schedule, he or she will not be allowed to continue with the MBA program.

Withdrawal or Leave of Absence

MBA students who anticipate not being able to attend the MBA Program during two consecutive semesters should request a formal leave of absence in writing from the director in order to maintain matriculated status. Forms are located in the forms library link on the MBA website.

- MBA, Analytics (p. 428)
- MBA, Leadership (p. 429)
- MBA, Management (p. 430)
- MBA, Marketing (p. 432)

Accounting (ACT)

ACT 501. Intro Fin & Managerial Act. 3 Credit Hours.

An examination of objectives, concepts and principles of financial statements prepared for users external and internal to the business organization. Topics include financial statement analysis, measurement of income and capital, accounting for fixed assets, measuring and accounting for corporate debt and other selected financial reporting issues, planning and control of operations.

ACT 550. Accounting Information Systems. 3 Credit Hours.

This course will examine the design, control and operation of accounting information systems with a strong emphasis on integration. The course will present a thorough introduction to basic information systems theory, provide a working knowledge of systems analysis and design techniques, databases and enterprise systems. Understanding and appreciation of accounting information systems is critical to successfully managing, auditing and developing systems to support today's evolving business environment. This course offers a focused look at accounting information systems as part of enterprise resource planning systems, with a focus on SAP and other comparable enterprise systems to demonstrate concepts. Prerequisite(s): Grade of C or above in MIS 201/MIS 501, and in either ACT 203 and ACT 204, or in ACT 201 and ACT 202. Cross-listed Courses: MIS 550

ACT 701. Advanced Federal Income Taxation. 3 Credit Hours.

An analysis of the federal income tax laws relating to individuals. Income, deductions, credits and special tax computations are studied as they relate to individuals. Income tax returns are prepared with an introduction to tax research methods. Prerequisite: Must be enrolled in MTAX program or permission of Accounting Chair or Director required.

ACT 702. Taxes & Business Strategy. 3 Credit Hours.

This course applies principals of corporate tax law, corporate finance and microeconomics to examine the contests giving rise to tax-planning opportunities which arise in the broader setting of corporate decision making. With an emphasis on economic consequences and explicit and implicit trade-offs between various alternative contracting arrangements, rather than on the minutia of corporate tax law, the primary course focus is on how taxes affect asset prices, equilibrium returns and firm structure both financially and operationally. Topics include basic fundamentals of corporate income taxation and strategy, optimal organizational forms, compensation and retirement planning, multinational tax planning and investing considerations, along with an introduction to corporate formation, mergers and acquisitions. Prerequisite: Must be enrolled in MTAX program or permission of Accounting Chair or Director required.

ACT 704. Strategic Cost Management. 3 Credit Hours.

This course concerns using accounting information for strategic, tactical and operating decisions. It extends the perspective of cost management/analysis from a primary focus on tactical short-run concerns to an emphasis on strategic long-run issues. The linkage between cost management/analysis and strategy is made possible by utilizing three powerful strategic management tools: value chain analysis, strategic positioning analysis, and cost driver analysis. The purpose of Strategic Cost Management (SCM) is to support decision-makers as they develop, communicate, implement, evaluate and modify organizational strategy. This course is designed for MBA students who have completed ACT 303 (Undergraduate), ACT 501 (Graduate), or the equivalent.

ACT 705. Business Valuation. 3 Credit Hours.

Students will use a variety of tools to analyze financial reports into meaningful units for analysis, forecasting and valuation of a complex firm. Provides the knowledge and skills necessary to analyze, interpret, understand, and use financial information to make informed decisions. Students may not earn credit for both ACT 404 and ACT 705. Prerequisite(s): Minimum grade of B in ACT 501.

ACT 721. Taxation of Corporations. 3 Credit Hours.

Introduction to the fundamental concepts and strategy of the federal income taxation of corporations, and how the strategies influence business decisions. While the course focuses on learning and applying the current tax laws, emphasis is placed on the research skills necessary to determine the current state of the law and special emphasis is placed on integrating tax rules into planning decisions. Prerequisite(s): ACT 701 or equivalent per permission of Chair/Program Director.

ACT 723. Tax Research and Practice. 3 Credit Hours.

This course explores the methods and techniques of federal tax research. In addition, students will learn the rules and procedures for representing clients before the Internal Revenue Service and tax courts.

Prerequisite: ACT 701 and permission of Accounting Chair or Director.

ACT 724. Advanced Taxation of Pass-Through Entities. 3 Credit Hours.

The course will relate to a lifecycle of a partnership and cover such topics as formation, operations, allocations, distributions, sales, liquidations and retirements. The Internal Revenue Code, Treasury Regulations, Case Law, and IRS Rulings will be used as a foundation for understanding these topics. Students will be expected to use these resources in conducting tax research and preparing for class. Prerequisite(s): ACT 721 (Taxation of Corporations) or equivalent per permission of Chair/Program Director.

ACT 725. Advanced Estate and Gift Tax. 3 Credit Hours.

In depth exploration of the federal taxation of gratuitous transfers during a taxpayer's lifetime and property transfers at death. A study is made of relevant statutes and regulations.

Prerequisite: ACT 701 and permission of Accounting Chair or Director.

ACT 726. Tax Accounting for Income Taxes. 3 Credit Hours.

This course will focus on the initial elections for new taxpayers such as the selection of an accounting method and period (particularly in cases where the accounting and tax records differ), special elections available to taxpayers, installment reporting, inventory methods, and long-term contract accounting. We will also deal with the ways, effect, procedures as well as the IRS rules for a change of accounting method. From there the course will focus on the accounting/tax treatment accorded current and deferred income tax liabilities and expenses with their reporting requirements. Our discussion will include the reporting of uncertain positions under Fin ASC 740 and the IRS. Prerequisite(s): ACT 701 (Federal Tax Issues and Analysis) or equivalent with permission of Chair/Program Director.

ACT 727. International Taxation. 3 Credit Hours.

This course provides a comprehensive overview of tax issues concerning the taxation of international transactions from a United States perspective. Examines the various complex issues in partnership, individual and corporate tax planning, and the tax issues involved with joint ventures.

Prerequisite: ACT 701 or equivalent with permission of Chair/Program Director.

ACT 730. Forensic Analytics. 3 Credit Hours.

This course examines the nature of occupational fraud and abuse in organizations. Students will learn how and why occupational fraud is committed, how fraud can be detected, how fraud can be deterred, and how to proceed if fraud is suspected. Emphasis is placed on asset misappropriation schemes, corruption, and financial statement fraud. Students will also learn how "big data" and the use of analytic techniques have changed fraud detection, investigation, and prevention.

Cross-listed Courses: ANL 730

ACT 740. Advanced Taxation Capstone Seminar. 3 Credit Hours.

This is a research-based capstone course to the Certification in Taxation. Students will spend a predominant amount of time researching code law, regulations, and case law. The instructor will spend considerable time with students in order to ascertain that students are including appropriate subject and reference material, conducting the fullest possible analysis of the selected tax law/case subject area, and completing the research at a satisfactory progress level. Prerequisite(s): ACT 701, ACT 721 and ACT 723 or equivalents with Accounting Chair or Director permission.

ACT 790. Special Topics in Accounting. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of accounting, as well as topics of current interest to students and instructors.

Business Analytics (ANL)

ANL 601. Supply Chain Management. 3 Credit Hours.

This course provides the analytical experience for modeling manufacturing and service systems, and the understanding of how they utilize limited resources to provide goods and services. The course introduces students to different quantitative techniques and decision-making approaches and their applications to operations management problems. The problem-solving approach also involves the use of several personal computer packages containing management science and operations research programs. Topics include forecasting, facility layout, production processes, planning, scheduling, resource allocation, inventory systems, project management, decision analysis and quality control. Recommended prerequisites: STA 501 and MIS 501.

ANL 701. Forecasting. 3 Credit Hours.

This course provides techniques for the parsimonious description of univariate time-ordered data. Various models are discussed for purposes of estimation and predication, including Box-Jenkins models, dynamic regression models, and other selected models in multivariate time series analysis and forecasting. Techniques of analysis are illustrated using actual data sets with emphasis on using the computer as an exploratory tool.

Prerequisite: ANL 601.

ANL 702. Cases in Business Analytics. 3 Credit Hours.

This course is designed to provide students with problem-solving skills in the field of quantitative management. The case approach is adopted to introduce complex real life examples to student-teams in a competitive environment. The course also introduces theoretical grounds for some analytical models emphasizing the assumptions and limitations of these models. The assigned cases include applications of regression, networking, linear programming, PERT, queuing theory, decision making under uncertainty and simulation. The students are required to use available computer packages as problem-solving tools and are encouraged to conduct sensitivity (what-if) analysis in their decision making approaches.

Prerequisite: ANL 601.

ANL 705. Advanced Business Analytics. 3 Credit Hours.

Data is useful if relevant and insightful information can be extracted from it to better understand the past (descriptive analytics), anticipate future events (predictive analytics), and direct the course of the best decision (prescriptive analytics). This course will cover different supervised and unsupervised machine learning algorithms, and their applications to structured and unstructured data including financial marketing, health care, social media, entertainment, and socio-economic data. An effective communication of the results and insights from the analysis, including via well-designed visualizations will be emphasized throughout the course. This course does not assume any prior exposure to machine learning theory or practice.

Prerequisite: ANL 601.

Cross-listed Courses: MIS 705

ANL 716. Business Intelligence. 3 Credit Hours.

This course provides an introduction to Business Intelligence, including the processes, methodologies, infrastructure, and current practices used to transform business data into useful information and support business decision-making. Business Intelligence requires foundation knowledge in data storage and retrieval, thus this course will review logical data models for both database management systems and data warehouses. Students will learn to extract and manipulate data from these systems and assess security-related issues. Data mining, visualization, and statistical analysis along with reporting options such as management dashboards and balanced scorecards will be covered. Technologies utilized in the course included SAP Business Warehouse, SAP Business Objects, Crystal Reports, and RapidMiner.

Prerequisite: MIS 501 or permission of the instructor.

Cross-listed Courses: MIS 716

ANL 719. Marketing Analytics. 3 Credit Hours.

In a world where data is more valuable than oil, the need to apply cutting-edge computational analyses, in addition to conventional statistical approaches, to derive meaning from large noisy databases and provide insight into understanding the outcome of marketing strategies is becoming more important than ever. This course will teach students how to leverage data and use analytics to form impactful marketing strategies. By learning the different analytical approaches and how to apply them to make marketing decisions, students enhance their understanding of the importance of marketing analytics.

Prerequisites: MKT 601, STA 501, and MIS 501.

Cross-listed Courses: MKT 719, MIS 719

ANL 720. Cases in Business Analytics. 3 Credit Hours.

This course is designed to provide students with problem-solving skills in the field of quantitative management. The case approach is adopted to introduce complex real-life examples to student-teams in a competitive environment. The course also introduces theoretical grounds for some analytical models emphasizing the assumptions and limitations of these models. The assigned cases include applications of simulation. The students are required to use available computer packages as problem-solving tools and are encouraged to conduct sensitivity (what-if) analysis in their decision-making approaches.

Prerequisite: ANL 601.

ANL 730. Forensic Analytics. 3 Credit Hours.

This course examines the nature of occupational fraud and abuse in organizations. Students will learn how and why occupational fraud is committed, how fraud can be detected, how fraud can be deterred, and how to proceed if fraud is suspected. Emphasis is placed on asset misappropriation schemes, corruption, and financial statement fraud. Students will also learn how "big data" and the use of analytic techniques have changed fraud detection, investigation, and prevention.

Cross-listed Courses: ACT 730

ANL 740. Data Science. 3 Credit Hours.

This course will provide you the knowledge and techniques to approach phenomena analytically. Specially, you will learn the role and process of the data science lifecycle in understanding and gaining insight about phenomena, including how to ask the appropriate questions, identify the appropriate data and information needed, use the appropriate tools to analyze a large volume of data, evaluate the findings effectively with parameters, find the appropriate answers, and present the answers and compellingly. In the business context such knowledge can enable organizations to make quality decisions and develop important business strategies that can enhance organizational performance and that can contribute to significant financial gains. You will proficiently acquire such knowledge and techniques through class discussion, lectures, readings, as well as hand-on exercises. Prerequisite(s): STA 501.

Cross-listed Courses: MIS 740

ANL 790. Special Topics in Business Analytics. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of operations management, as well as topics of current interest to students and instructors.

ANL 799. Strategic Analytics. 3 Credit Hours.

Strategic Analytics calls for viewing organizations as a whole and as entities adapting to and acting upon their external environments. Understanding external environments, articulating an inspiring mission, developing an appreciation for, and building new capabilities are critical to the formulation of strategies that will succeed on the national and global levels. The content and process of the capstone course have been designed to provide a rigorous, integrative experience in analytics theories in a variety of environments. Through lectures and discussions of articles, students are exposed to seminal theory on analytics. In addition, leadership specific, integrative thinking and communication skills are developed throughout the discussions of the articles and cases. This course is project based. Students will develop an organizational strategy based on the knowledge they obtained from their ANL courses, for an organization.

Prerequisite: ANL 601.

Business Administration (BUS)

BUS 501. Business Communications. 3 Credit Hours.

This course provides students with the technical skills and necessary theoretical knowledge of communication arts as applied to specific business situations. Topics include use of presentation formats, appropriate rhetorical constructions, communications theory, technical writing and documentation.

BUS 530. Government Contract Accounting. 3 Credit Hours.

Basic cost accounting concepts and the cost accumulation process are presented. This course provides guidance on accounting for, recovering and monitoring costs at each step of government contract performance, from bidding to closeout. An understanding of the Federal Acquisition Regulation (FAR), the Truth in Negotiations Act (TINA), the treatment of unallowable costs and the Defense Contract Audit Agency (DCAA) auditing standards will be provided. Current topics on special and emerging issues, including new TINA and FAR requirements; rules applicable to nonprofit associations, universities, hospitals, and state and local governments; incurred cost-electric (ICE); cost accounting issues in privatization projects and commercial item acquisitions; and the impact of procurement reform and streamlining will also be covered. Prerequisite: Intro Accounting.

Cross-listed Courses: BUS 430

BUS 536. Introduction to Government Contracting Law, Compliance, Ethics. 3 Credit Hours.

This course provides an introduction to the legal and regulatory framework for doing business with the federal government. The course of study will center on the requirements of the Federal Acquisition Regulations, and will include a study of several related statutes, as well as the regulatory compliance and business ethics requirements of doing business with the federal government. Guest speakers and case studies provide students with access and information from industry and academia.

Prerequisites: ACT 201 or ACT 203 or LAW 200 or permission of the instructor.

Cross-listed Courses: BUS 436, LAW 436, LAW 536

BUS 537. Capstone Course: Cases in Government Contracting Law, Compliance, and Ethics. 3 Credit Hours.

This course is the capstone course in the Government Systems Contracting certificate at Le Moyne. It requires the student to synthesize knowledge about the legal and regulatory framework for doing business with the federal government through a series of case studies of law, compliance and ethics. Course material focuses on cases derived from requirements of the Federal Acquisition Regulations, and related statutes. Guest speakers from industry and government will discuss regulatory compliance and business ethics requirements topics with students during class.

Prerequisites: BUS 536, ACT 536, LAW 536 or permission of instructor.

Cross-listed Courses: BUS 437, LAW 437, LAW 537

BUS 601. Business Ethics. 3 Credit Hours.

This course will be conducted in seminar style. It will explore and analyze ethical considerations involved in managerial decision making. Topics to be considered are the ethical dimension in managerial dilemmas in such topics as advertising, working conditions, environmental pollution, work force reduction and supplier relations. The relationship of management to the rule of law will be considered in such topics as business involvement in the formation of law as well as business use of the legal and political process. Managerial response to such personal ethical and legal issues as affirmative action, product safety and sexual harassment will be considered. The ethical and social responsibility of management and employees will be explored in the context of profit motive and the implementation of ethical change in a business setting.

BUS 602. Business Law. 3 Credit Hours.

This course will survey the legal techniques used to control business behavior. The role of courts, legislatures and regulatory agencies, as well as common, statutory and regulatory law, will be viewed both from the historical and the current perspective. Specific topics will include contracts, commercial paper, agency, partnerships, corporations, antitrust and securities.

BUS 603. International Business. 3 Credit Hours.

This course seeks to provide an in-depth understanding of diverse aspects of international business including international politics, culture, economics, finance, technology, marketing, ethical decision-making, strategic planning and management, and human resource development in a global environment. Decision-making in, and challenges facing multinational enterprises are given special attention.

BUS 750. Strategic Management. 3 Credit Hours.

The content and process of the capstone course have been designed to provide a rigorous, integrative experience of all areas of management in a variety of environments. Through lectures and discussions of articles, students are exposed to seminal theory on a given topic. In addition, topic specific, integrative thinking and communication skills are developed throughout the discussions of the articles and cases. Among others, topics will include competitive strategy and formulation, industry analysis, globalization or management, manufacturing as a competitive strategy, horizontal and vertical integration, computer integrated manufacturing and capacity expansion.

BUS 790. Special Topics in Business. 3 Credit Hours.

Courses in this series (BUS 790-794) offer an in-depth exploration of specific issues within the field of business, as well as topics of current interest to students and instructors.

Prerequisite: Permission of instructor.

BUS 795. Internship. 1-6 Credit Hours.

This designates credit for approved experiential programs in consultation with the MBA committee.

BUS 799. Independent Study. 1-6 Credit Hours.

This designates individual study programs approved by the MBA committee.

Economics (ECO)

ECO 501. Economics for Managers. 3 Credit Hours.

This course provides an introduction of economics for managers. It applies macroeconomic methods to business decision making and current global policy issues as well as microeconomic models to consumer, producer and market behavior. Topics include interest rates, inflation, monetary and fiscal policy, and labor markets, as well as demand and cost analysis, industry performance, and market structure.

Finance (FIN)

FIN 601. Financial Management. 3 Credit Hours.

Introduction to the theory and practice of real and financial asset decision making. Topics include short and long term financial planning, capital budgeting, capital structure, option pricing and hedging financial risk, domestic and global financial markets, financial ethics. Case analysis, group and individual projects and use of commercially available financial software packages provide students with ample opportunities to implement financial decisions. Recommended prerequisites: ACT 501 and STA 501.

FIN 665. Distress Investing. 3 Credit Hours.

The purpose of this course is to provide the student with the needed tools to understand and learn the discipline of distress investing. Distress investing is one of the areas of "Fundamental Finance". Other areas of "Fundamental Finance" include Value Investing, Control Investing, Credit Analysis, and First and Second Stage Venture Capital Investing. This is a course about business valuation, corporate finance, bankruptcy law and security analysis with an emphasis on analyzing public companies that are in financial distress, from the bottom up. This is in sharp contrast to traditional academic finance, which is heavily top down and assumes there is substantive consolidation between the company and its constituencies (managements, stockholders, bondholders, trade vendors, etc.).

Prerequisites: FIN 301 or FIN 601 or equivalent.

FIN 667. Modern Security Analysis. 3 Credit Hours.

The purpose of the course is to provide the student with the needed knowledge and analytical tools to understand and learn the discipline of modern security analysis. The course will focus on business valuation, advanced corporate finance and security analysis with an emphasis on analyzing public companies from the bottom up (as stand-alone, separate and distinct from shareholders, managements, creditors, regulators). The course is centered on the valuation of businesses and how corporate values are reflected or not reflected in public security prices and why. Secondary topics discussed include elements of corporate law, securities law, credit analysis, and financial accounting as related to security analysis.

Prerequisite: FIN 301 or FIN 601 or equivalent.

Cross-listed Courses: FIN 467

FIN 701. Investment Management. 3 Credit Hours.

A survey of investment theory, security analysis and portfolio management with applications to domestic and international markets. Efficient capital markets, development of innovative financial instruments and portfolio hedging topics are emphasized. Cases and projects are required.

Prerequisite: FIN 601.

FIN 790. Special Topics in Finance. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of finance, as well as topics of current interest to students and instructors.

Human Resource Management (HRM)

HRM 601. Human Resource Management. 3 Credit Hours.

This course focuses on the relationship between personnel and labor policies and the practices and the objectives of the organization. Theories developed from the behavioral sciences will be used in analyzing the potential impact of changes in policies or practices. Emphasis will also be placed on evaluating the human resource function in terms of meeting the organizational goals. Topics include staffing, training, compensation, performance evaluation and labor relations.

HRM 701. Current Issues in Human Resources. 3 Credit Hours.

As the Human Resource field evolves, so do the challenges presented by the process of recruitment, selection, retention and release. This hybrid course explores in-depth contemporary human resource philosophies, policies and practices that focus on unique areas of talent management in a variety of organizational settings. The class offers students the opportunity to explore online and in-depth research in quality of work life, second career decisions and mid-life change, incentive systems and talent retention. The impact of healthcare changes on organizations, the effects of the recession on the workforce and current issues such as workplace violence and employee privacy will also be explored. Prerequisites: MGT 601 and HRM 601, or permission of instructor.

HRM 707. Staffing. 3 Credit Hours.

This course is an investigation into the empirical and theoretical research which allows for a full understanding of the staffing process. The staffing process will be illustrated by using a comprehensive case-based model of both individual choice and organization needs in order to allow the student a grasp of the staffing process.

Prerequisite: HRM 601.

HRM 708. Compensation. 3 Credit Hours.

This course focuses on managing compensation in contemporary organizations. The major objectives are: a) to examine the current state of compensation decision-making, b) to examine the implications of recent theoretical and research developments related to compensation decisions and c) to offer an opportunity to develop competencies in making compensation decisions.

Prerequisite: HRM 601.

HRM 730. Human Resource Information Systems. 3 Credit Hours.

This course will offer an understanding of how human resource information systems are applied in organizations to support organizational strategy, improve efficiency and flexibility, increase productivity and performance, enhance retention and ensure compliance with employment law. The focus will be on merging information systems with a strategic human resource perspective. This course provides students with the knowledge, skills and abilities to identify, assess, develop and maintain an effective HR system. Students will develop a thorough understanding of the plan, design/acquisition, implementation and applications of a human resource information system (HRIS).

Prerequisites: MIS 501 and HRM 601 or permission.

Cross-listed Courses: MIS 730

HRM 790. Special Topics in Human Resource Management. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of human resources management, as well as topics of current interest to students and instructors.

Management (MGT)

MGT 601. Org Dynamics: Leadership. 3 Credit Hours.

A study of the individual, interpersonal, group and organizational and environmental factors that interact with the culture of an organization and together determine the quality of life and performance. Readings, cases, experiential exercises and group projects will be used to help students understand the concepts and discover which are personally valid for them.

Cross-listed Courses: LDR 601

MGT 703. Leadership and Culture. 3 Credit Hours.

The course studies the variations in management and leadership styles across national settings. Factors such as political and economic systems, technology, history and social forces are examined for their relationship to leadership style. Case studies on leadership are extensively used.

Cross-listed Courses: LDR 703

MGT 705. International Business Leadership. 3 Credit Hours.

Given today's extensive and intensive global interaction, a lack of understanding or misunderstanding of why our trading partners (or antagonists) behave as they do makes it difficult to successfully deal with them. A key to such an understanding (or avoidance of misunderstanding) is to obtain a better grasp of their antecedents and of how their business systems evolved. This course seeks to address that need. It traces the history of the business systems of Britain, Germany, Japan, and where relevant, those of emerging nations such as China, India and Mexico. We attempt to place matters in proper perspective and to gain a greater awareness of what our implicit and explicit beliefs are, why we espouse them, often unshakably, and in what light our ideologies, policies and actions might be perceived by the Japanese, Germans, Britons or Chinese.

Prerequisite: MGT 601.

MGT 706. Leadership, Management & Humanities. 3 Credit Hours.

This course will examine models of leadership drawn from classic works of literature and film. Leadership topics will include charisma, crisis management, cultural diversity, ethics, female leadership, goalsetting, the language of leadership, motivation, servant leadership, strategy, team building and transformation leadership. We will discuss the practical and theoretical foundations for these leadership models by examining cases based on the following literary and film texts: All the King's Men, Antigone, The Bridge Over the River Kwai, Citizen Kane, Gandhi, Glengarry Glen Ross, Glory, Heart of Darkness, Henry V, The Iliad, A Jury of Her Peers, The Major of Casterbridge, Moby Dick, Norma Rae, The Odyssey, Twelve O'Clock High and Twelve Angry Men.

Cross-listed Courses: LDR 706

MGT 708. Lessons in Leadership. 3 Credit Hours.

This course explores the primary ideas, values and competencies required for modern corporate and community leadership. This course will also challenge students to use what they have learned in readings and discussions to analyze both themselves and well known leaders.

Prerequisite: MGT 601.

MGT 711. Leading Organizational Change. 3 Credit Hours.

This course will tackle three basic questions: What is an organization? What is change? and How to lead organizational change? We will explore the evolving role of leadership, various metaphoric and systems views of organizations and the values and methods of organizational change and development. Student teams will also design and conduct organizational inquiries.

Prerequisite: MGT 501.

Cross-listed Courses: LDR 711

MGT 712. Career Self-Assessment. 3 Credit Hours.

This course will cover a wide range of issues and theories of adult and career development and will involve the students in small group and class discussion as they process an extensive set of self assessment instruments and activities intended to culminate in both short- and long-term career and life plans.

MGT 715. The Emotionally Intelligent Leader : Exploring Emotional and Social Competence in Leaders. 3 Credit Hours.

The concept of Leadership has been examined and dissected since ancient times, in search of a replicable process which could be somehow infused to create great leaders. From classic theories to situational explorations, the power to lead can create a better town, a more successful company, a more equitable world. In the 1990's a new voice joined the chorus of Leadership influence as Daniel Goleman spoke to the ideas of emotional intelligence- the ability to identify, assess and control emotions. This course will explore the writings, papers and presentations of Daniel Goleman in a blended format, inviting students to assess their own strategies as colleagues and leaders have a better understanding of the human side of leadership.

Prerequisite: MGT 601 or permission of instructor.

Cross-listed Courses: LDR 715

MGT 721. Chaos in Health Care: Directing the Evolution. 3 Credit Hours.

This introductory course explores the interconnectedness of the Health Care System in America. The class uses a multi approach system to investigate the business and social forces that generate the need for creative and revolutionary approaches to healthcare, exploring the field both within the traditional walls of healthcare institutions; and in the outpatient and home care settings. The class will explore emerging trends which are changing this landscape. Attention will be paid to the new practices in health care insurance, and how it impacts delivery systems.

MGT 722. The Strategic and Creative Leader. 3 Credit Hours.

This course is one of two leadership courses in the certificate program which invite students to explore the practices of exceptional leaders in the Health Care field. The design of the course supports and guides the student's ability to discover, explore and assess issues in their field and to recognize opportunities which will continue to maximize their strengths as health care leaders. Conversations with numerous leaders in the health care community highlight this unique class which will enhance the student's network and introduce a diverse palette of leadership thought and action.

Cross-listed Courses: LDR 722

MGT 723. Making Leadership Contagious. 3 Credit Hours.

This course is one of two leadership courses in the certificate program which invite students to explore the practices of exceptional leaders in the Health Care field. The design offers a highly introspective approach to each student's leadership style, capacity and development opportunities. Through a series of leadership instruments, highlighted by the Situational Leadership Assessment, students will take part in a reflective journey of what it means to be a leader in the health care field.

MGT 724. The Process of Health Care: Patient Centered Management. 3 Credit Hours.

This course surveys the unique, systematic directives and outcomes within the process of Health Care delivery. Students will explore focus, alignment, expectations, evaluation and incentives which lead to optimum patient care. Leaders must drive the vision which promises timely access, quality care and patient satisfaction in a turbulent environment.

MGT 725. The Business of Healthcare: Connecting the Dots. 3 Credit Hours.

The concept of healthcare within a business model was foreign until recent decades, when costs of health services came to the forefront for organizations committed to providing the best possible care in the face of diminishing resources. This course seeks to explore ethical principles, sound personal and company values, and socially responsible management practices in the interests of responsible and feasible health care delivery as students build a business model for the health care organization.

Management Information Systems (MIS)

MIS 501. Management Information Systems. 3 Credit Hours.

An overview of management information systems (MIS) and their structure is provided through case analysis. Topics covered include the underlying concept of information, decision-making, management and how organizations affect the design of information systems. The impact of information systems on human behavior, organizations and societies is analyzed. Information resources management models underlie the technical and management focus of the course. Students are expected to complete group and individual projects using commercially available spreadsheet, database and systems analysis software packages.

MIS 525. Introduction to Java Programming Programming. 3 Credit Hours.

This course will introduce you to programming and object oriented programming using Java. General programming topics include program design, testing strategies, and control structures such as conditionals, iteration. Object oriented topics include creating and using classes, inheritance and interfaces. Students will also learn about basic data structures such as arrays and strings. Students will solve programming problems in weekly lab sessions. Graduate students in the course will also be introduced to event-driven programming using a graphical user interface (GUI), recursion, and 2-dimensional arrays.

MIS 535. Intro to Government Systems. 3 Credit Hours.

This course focuses on introductory government systems concepts, processes and functions, utilizing the Federal Acquisition Regulations (FAR). Students will examine FAR regulations, processes and nomenclature, utilizing existing and proposed regulations and industry case studies, and appropriate support technology. Guest speakers and field research provide students with access and information from industry and academia.

Prerequisites: MIS 201 or permission of instructor.

MIS 550. Accounting Information Systems. 3 Credit Hours.

This course will examine the design, control and operation of accounting information systems with a strong emphasis on integration. The course will present a thorough introduction to basic information systems theory, provide a working knowledge of systems analysis and design techniques, databases and enterprise systems. Understanding and appreciation of accounting information systems is critical to successfully managing, auditing and developing systems to support today's evolving business environment. This course offers a focused look at accounting information systems as part of enterprise resource planning systems, with a focus on SAP and other comparable enterprise systems to demonstrate concepts. Prerequisite(s): Grade of C or above in MIS 201 (or MIS 501), and in either ACT 203 and ACT 204, or in ACT 201 and ACT 202.

Cross-listed Courses: ACT 550

MIS 601. Information Strategy and Management. 3 Credit Hours.

This course covers the management, strategies and performance of enterprises engaged in the use of information for competitive advantage. IT alignment with business goals and enterprise resource planning (ERP) tools, techniques and processes are introduced. Modeling and managing life cycle costs, and the impact on competitive advantage, are covered in the course. The management of third party organizations, vendors, outsourcing, and the legal, ethical and environmental impacts of such activities, are important components of this course. Students will complete and present a semester-long project in enterprise resource planning. Guest speakers and case studies from local, national and international technological enterprises, agencies, and regulatory organizations are employed in this course.

Prerequisite: MIS 501.

MIS 611. Crowds, Social Media & Digital Collaboration. 3 Credit Hours.

Over the past years, crowds, social media, and digital collaborations have emerged as important topics in the IS field. Social media and other social information systems not only support communications and collaborations among the general crowd but also harness collective intelligence for innovation. This course covers the basic concepts and theories of social media, crowdsourcing, remixing, and sharing economy. Students will also learn analytics and applications related to these trending topics. (Please note that students who have taken MIS 411 should not take this course).

Prerequisites: MIS 501 or permission of IS Department Chair.

MIS 635. Client Side Web Applications Development. 3 Credit Hours.

As more and more businesses and individuals turn to the Web for sharing information and conducting commercial activities, a quality web site can provide competitive advantage and invite users for repetitive visits. The key to a quality and successful web site lies in both the content and usability of the site. To increase understanding of web usability, this course will engage students in an exploration of fundamental concepts in web design and development processes with hands-on exercises. This course explores the factors influencing web site usability throughout the design process, including requirements analysis, conceptual design, mockups and prototypes, production, and web site evaluation. Students will also learn to use client-side scripting techniques to enhance web usability.

MIS 690. Graduate Information Systems Independent Study. 3 Credit Hours.

This course provides an opportunity for graduate students to conduct independent research under the direction of a faculty member. Since the study of Information Systems is interdisciplinary, research linking business, technology and social and organizational science in explorations of how systems that convey information work can be studied independent study format—whether those systems are human, technological, natural, economic, social or other. Research in Information Systems thus explores technical and business topics, along with ethical questions that arise in business applications of technology in organizations. Open to students eligible for graduate Business of Information Systems research. Prerequisite(s): MIS-501; or permission of instructor.

MIS 701. Database Management Systems. 3 Credit Hours.

This course develops the framework for database systems analysis and design. Course topics focus on database design, data modeling, data integrity, security, database management approaches and techniques and distributed databases. Students are expected to complete a database project using commercially available software packages.

Prerequisite: MIS 501.

MIS 703. Systems Analysis and Design. 3 Credit Hours.

This course provides the building blocks for analysis and design of management information systems. The systems development life cycle, information gathering techniques, data and process modeling techniques and management of the systems analysis and design processes are covered. Students apply the concepts introduced using computer-aided software engineering (CASE) tools.

Prerequisite: MIS 501.

MIS 705. Advanced Business Analytics. 3 Credit Hours.

Data is useful if relevant and insightful information can be extracted from it to better understand the past (descriptive analytics), anticipate future events (predictive analytics), and direct the course of the best decision (prescriptive analytics). This course will cover different supervised and unsupervised machine learning algorithms, and their applications to structured and unstructured data including financial marketing, health care, social media, entertainment, and socio-economic data. Effective communication of the results and insights from the analysis, including via well-designed visualizations will be emphasized throughout the course. This course does not assume any prior exposure to machine learning theory or practice.

Prerequisite: ANL 601.

Cross-listed Courses: ANL 705

MIS 707. Risk Mgmt in Large Scale Systems. 3 Credit Hours.

This course focuses on the challenges associated with risk management in large-scale systems. It considers the nature of social, organizational and technological risk and discusses the role of risk analytic, risk management and risk communications. It also discusses several analytic approaches to risk management and mitigation and analyzes case studies of risk in several large-scale systems: aerospace, biomedical, global networks, healthcare, transportation and safety-critical domains such as firefighting and oil spill response. Using several strategic models, students discuss the importance of tactical and strategic risk management and employ several of the models in case analyses.

Prerequisite: MIS 501.

MIS 710. Health Information Systems. 3 Credit Hours.

This course provides students with the knowledge of the design, use, and evaluation issues of health informatics applications. The topics include: (1) health informatics as a discipline; (2) career options for health informatics; (3) major health applications and commercial vendors; (4) strategic information systems planning; and (5) new opportunities and emerging trends.

Cross-listed Courses: NSG 387, NSG 697, MIS 450

MIS 711. Managing Systems Projects. 3 Credit Hours.

This course focuses on introductory project management processes, technology and tools, utilizing the Project Management Institute's (PMI) Project Management Body of Knowledge (PMBOK) and the Software Engineering Institute's (SEI's) Capability Maturity Model Integration (CMMI) processes and nomenclature. Students examine the processes and theory of project management as well as industry case studies, and will utilize project management software in support of their management activities. Guest speakers and field research provide students with access and information from industry and academia. Students are engaged in a semester-long project. Initially, they are required to identify the project scope and team charter for their project; subsequent assignments require them to prepare a business case, work breakdown structure, cost estimate, and final project documentation for their project.

Cross-listed Courses: NSG 611

MIS 712. Information Systems and Network Security Cybersecurity. 3 Credit Hours.

This course provides an overview of the concepts and principles of telecommunications systems and networks, blending technical with managerial topics. Students will focus on the challenges inherent in securing financial telecommunications networks, particularly the challenges of insider threats. Students will local area networks, wide area networks, wireless networks, value-added networks, as well as other networks. Students will complete a series of network installation and test projects, and will analyze network design cases throughout the semester. Guest speakers from industry and case studies from on-going research will provide a real-world context for the topics discussed in class. Students may sit for network certification following completion of the course.

Prerequisites: MIS 501, or permission of the instructor.

MIS 715. Mobile Applications & Business Strategies. 3 Credit Hours.

The course explores the important challenges and needs of today's organizations to go mobile to connect with their stakeholders. Students will learn the technical, managerial and marketing aspects of mobile applications. Technically, they will learn the development process and technical infrastructure of mobile applications. Managerially, students will learn how to develop business strategies to exploit mobile applications for the advancing and repositioning of organizations. For marketing, students will learn to market the newly developed mobile applications and at the same time to use mobile applications to market and promote the organizations and their products or services.

MIS 716. Business Intelligence. 3 Credit Hours.

This course provides an introduction to Business Intelligence, including the processes, methodologies, infrastructure, and current practices used to transform business data into useful information and support business decision-making. Business Intelligence requires foundation knowledge in data storage and retrieval, thus this course will review logical data models for both database management systems and data warehouses. Students will learn to extract and manipulate data from these systems and assess security-related issues. Data mining, visualization, and statistical analysis along with reporting options such as management dashboards and balanced scorecards will be covered. Technologies utilized in the course included SAP Business Warehouse, SAP Business Objects, Crystal Reports, and RapidMiner.

Prerequisite: MIS 501 or permission of the instructor.

Cross-listed Courses: ANL 716

MIS 717. Managing the Technological Enterprise. 3 Credit Hours.

This course covers the requirements, management and performance of enterprises engaged in the use of technology. Requirements determination, analysis, design and cost management activities for technological enterprises are covered; a focus on the management of life cycle costs is emphasized. The management of third party organizations, outsourcing and project management activities are also covered. The legal, environmental and ethical issues associated with the management and performance of technological enterprises are important components of this course. Guest speakers and case studies from local, national and international technological enterprises, agencies and regulatory organizations are employed in this course.

Prerequisites: MIS 501 or permission of instructor.

MIS 719. Marketing Analytics. 3 Credit Hours.

In a world where data is more valuable than oil, the need to apply cutting-edge computational analyses, in addition to conventional statistical approaches, to derive meaning from large noisy databases and provide insight into understanding the outcome of marketing strategies is becoming more important than ever. This course will teach students how to leverage data and use analytics to form impactful marketing strategies. By learning the different analytical approaches and how to apply them to make marketing decisions, students enhance their understanding of the importance of marketing analytics.

Prerequisites: MKT 601, STA 501, and MIS 501.

Cross-listed Courses: MKT 719, ANL 719

MIS 725. Distributed Enterprise Systems. 3 Credit Hours.

This course serves as an introduction to the cloud computing environment, discussing both fundamental concepts of how and why cloud systems work, as well as cloud technologies that manifest these concepts, such as Amazon AWS, Microsoft, Azure, and Open Stack. Students will learn about virtualizations, data parallelisms, security and privacy, cloud storage mechanisms, and cloud design architectures in the context of distributed systems. This course will be taught in a lab lecture style utilizing Amazon Web Services (AWS) as a learning platform. Recommended predecessor courses: MIS-712, MIS-717.

Prerequisite: MIS-501, or permission of the instructor.

MIS 730. Human Resource Information Systems. 3 Credit Hours.

This course will offer an understanding of how human resource information systems are applied in organizations to support organizational strategy, improve efficiency and flexibility, increase productivity and performance, enhance retention and ensure compliance with employment law. The focus will be on merging information systems with a strategic human resource perspective. This course provides students with the knowledge, skills and abilities to identify, assess, develop and maintain an effective HR system. Students will develop a thorough understanding of the plan, design/acquisition, implementation and applications of a human resource information system (HRIS).

Prerequisites: MIS 501 and HRM 601 or permission of department chair.

Cross-listed Courses: HRM 730

MIS 740. Data Science. 3 Credit Hours.

This course will provide you the knowledge and techniques to approach phenomena analytically. Specially, you will learn the role and process of the data science lifecycle in understanding and gaining insight about phenomena, including how to ask the appropriate questions, identify the appropriate data and information needed, use the appropriate tools to analyze a large volume of data, evaluate the findings effectively with parameters, find the appropriate answers, and present the answers and compellingly. In the business context such knowledge can enable organizations to make quality decisions and develop important business strategies that can enhance organizational performance and that can contribute to significant financial gains. You will proficiently acquire such knowledge and techniques through class discussion, lectures, readings, as well as hand-on exercises. Prerequisite(s): STA 501.

Cross-listed Courses: ANL 740

MIS 771. Information Systems Research Methods. 3 Credit Hours.

Information systems, composed of technology, people, information, systems, organizations, policies, and society, contain many complex and interdependent elements. The large-scale systems within which many information systems reside, including organizations, technology systems, communities, nations, and even human biological systems, can be similarly complex, with interdependent elements. Information systems researchers study technology, people, information, organizations and systems in order to understand information systems, and the interactions between and the impacts of those elements and information systems, on individuals, groups, organizations, and other systems. Research design is the process of formulating a research plan that addresses research questions of interest. A sound research design ensures that the data and evidence obtained assists in effectively addressing the research questions under study. Key to good research design are research methods, approaches and techniques used to carry out research, which are facilitated by the collection of meaningful and useful data and evidence, and by analysis, assessment and interpretation of that data and evidence. This course provides an overview of the fundamentals of research design and research methods, including research question and hypothesis formulation; data and evidence collection and analysis; and the challenges of research design and methods. Students in this seminar course work closely with a Le Moyne faculty mentor while conducting research in Information Systems, either on campus at Le Moyne or in the field. McDevitt Information Systems Research Scholars who have gone through a year-long faculty research mentoring process in previous years and have prepared and published their own research also serve as mentors to students in this class. Students and their mentors participate in bi-monthly research seminars led by the Le Moyne faculty mentor, at which they present their research, collaborate on their findings and discuss their progress. Open to students eligible for Master's Thesis research. Prerequisite(s): MIS 501.

MIS 785. Programming in Visual Basic With Visual Basic. 3 Credit Hours.

This class covers the basics of structured programming using Visual Basic to develop decision support systems or management science applications. The theory and practice of structured programming, logic, systems development are covered in a series of iterative hands-on assignments, which are designed based on practical decision support systems or management science applications. Students can expect to learn how to create and program advanced Excel applications or other equivalent applications. A term project involving the development and documentation of a Visual basic program is required.

MIS 790. Special Topics in Mgmt Info Syst. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of management information systems, as well as topics of current interest to students and instructors.

MIS 795. Special Topics in Information Systems Research Methods. 3 Credit Hours.

Information systems, composed of technology, people, information, systems, organizations, policies, and society, contain many complex and interdependent elements. The large-scale systems within which many information systems reside, including organizations, technology systems, communities, nations, and even human biological systems, can be similarly complex with interdependent elements. Information systems researchers study technology, people, information, organizations and systems in order to understand information systems, and the interactions between and the impacts of those elements and information systems, on individuals, groups, organizations, and other systems.

Prerequisite: MIS 501; or permission of instructor.

MIS 796. Information Systems Internship. 1-6 Credit Hours.

Participation in a real-world learning experience is provided in internship opportunities. The intern reports as required to a faculty member, and both student and faculty member assess the internship as it relates to the student's academic program and desired organizational experiences. Six hours of approved work experience is required to generate one credit. Prerequisite: permission of the program director.

MIS 799. Master's Thesis Research Project. 1-6 Credit Hours.

This course provides an opportunity for graduate students to conduct independent research under the direction of a faculty member. Since the study of Information Systems is interdisciplinary, research linking business, technology and social and organizational science in explorations of how systems that convey information work can be studied in a student's master's thesis—whether those systems are human, technological, natural, economic, social or other. Research in Information Systems thus explores technical and business topics, along with ethical questions that arise in business applications of technology in organizations.

Marketing (MKT)

MKT 601. Marketing Management. 3 Credit Hours.

Introduces the role of marketing in organizations, including customer analysis and buyer behavior, market segmentation and research, distribution channel and product policy, strategy, pricing and marketing communications. Case studies provide an opportunity for analytical approaches to problems both orally and in writing.

MKT 706. Nonprofit Marketing. 3 Credit Hours.

This course focuses upon the concept of "social enterprise," an increasingly prominent way of thinking about ventures that both social and commercial entities are undertaking. Students will be introduced to this emerging intersection between the nonprofit sector and the business world.

MKT 710. Judgment in Managerial Decision Making. 3 Credit Hours.

This course is an MBA elective that will explore key topics in managerial decision making. Particular attention will be paid to the ways that people often stray from rational or ethical standards of conduct, with important implications for firms and individuals alike. Through an interdisciplinary lens, we will consider the business implications of decision-making insights drawn from contemporary research across domains including behavioral economics, behavioral finance, consumer behavior, marketing, negotiation, organizational behavior, and psychology.

MKT 715. Mobile Applications & Business Stratgs. 3 Credit Hours.

The course explores the important challenges and needs of today's organizations to go mobile to connect with their stakeholders. Students will learn the technical, managerial and marketing aspects of mobile applications. Technically, they will learn the development process and technical infrastructure of mobile applications. Managerially, students will learn how to develop business strategies to exploit mobile applications for the advancing and repositioning of organizations. For marketing, students will learn to market the newly developed mobile applications and at the same time to use mobile applications to market and promote the organizations and their products or services.

MKT 717. Digital Marketing I. 3 Credit Hours.

people are regularly consuming content through different forms of digital media to interact with the world. As a result, it is becoming increasingly important for marketers to develop meaningful content to connect with consumers. This course teaches students how to create engaging digital stories grounded in sound marketing principles. By learning how to create digital content to build meaningful connections with consumers, students enhance their understanding of digital marketing strategies. Prerequisite: MKT 601.

MKT 719. Marketing Analytics. 3 Credit Hours.

In a world where data is more valuable than oil, the need to apply cutting-edge computational analyses, in addition to conventional statistical approaches, to derive meaning from large noisy databases and provide insight into understanding the outcome of marketing strategies is becoming more important than ever. This course will teach students how to leverage data and use analytics to form impactful marketing strategies. By learning the different analytical approaches and how to apply them to make marketing decisions, students enhance their understanding of the importance of marketing analytics. Prerequisites: MKT 601, STA 501, and MIS 501.

Cross-listed Courses: ANL 719, MIS 719

MKT 790. Special Topics in Marketing. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of marketing, as well as topics of current interest to students and instructors.

MKT 799. Strategic Marketing. 3 Credit Hours.

Statistics (STA)

STA 501. Quantitative Decision Making. 3 Credit Hours.

This course provides the principles of statistical inference. Probability, random variables, univariate distribution theory, hypothesis testing and estimation theory will be the focus of the first part of the course. Additional topics are selected from decision theory, nonparametric methods and linear modeling. Emphasis is placed on the use of statistical software packages to handle practical statistical analyses.

MBA, Analytics Degree Program

The MBA Analytics Program strives to develop analytical leaders capable of making sound decisions in an increasingly complex world, and who combine the art and science of analytics in a global perspective. Today's business leaders need to understand and utilize analytics to ensure they have the data-driven insights for effective strategic planning, for informed business decisioning, to solve increasingly complex business problems, and to maximize the benefits from its business value chain; thus, creating competitive advantage. Core learning outcomes of the MBA Analytics Program revolve around analytical effectiveness, ethical awareness and reflection, development of a global perspective, and effective communication.

Graduate Program Schedule (Full-Time)

The 36-credit hour MBA Analytics Program requires completion of core courses (18 credit hours), Jesuit value core courses (3 credit hours), Analytics specific course requirements (12 credit hours) and a capstone research/project course (3 credit hours) as follows:

Code	Title	Credit Hours
Core Courses		
Required (12 credits):		
BUS 601	Business Ethics	3
BUS 603	International Business	3
FIN 601	Financial Management	3
LDR 601	Org Dynamics: Leadership	3
Required: (3 credits) (Quantitative)		
MIS 601	Information Strategy and Management	3
Choose one: (3 credits) (Qualitative)		
MKT 601	Marketing Management	3
HRM 601	Human Resource Management	3
BUS 602	Business Law	3
Jesuit Value Core Courses: (1 credit each)		
JVC 601	Individual and Collective Discernment	1
JVC 602	Sustainability Strategies	1
JVC 603	Corporate Social Responsibility Strategies	1
MBA Analytics Specific Courses		
Foundational Course (3 credit hours)		
ANL 601	Supply Chain Management	3
Analytics Electives (9 credit hours)		
Students will choose three of the following six courses:		
ANL 701	Forecasting	3
ANL 702	Cases in Business Analytics	3
ANL 705	Advanced Business Analytics	3
ANL 716	Business Intelligence	3
ANL 720	Cases in Business Analytics	3
ANL 740	Data Science	3
Capstone Research / Project Course		
ANL 799	Strategic Analytics	3

MBA, Leadership Degree Program

The MBA Leadership Program builds on the traditional MBA by providing more in-depth study into the tools that leaders use to make informed and competent decisions to the betterment of all stakeholders as well as the organization as a whole. The MBA Leadership will focus on effective leadership at the individual, team and organizational level and the addition of significant value towards organizational objectives. Students will identify and analyze a wide spectrum of information from balance sheets to socio-cultural diversity and practice using real-world inputs to think through and implement a plan of action to lead organizations forward. Studies and analysis will include the importance of ethical values and decision making as well as an understanding of the forces of globalization and cross-cultural knowledge in today's complex business world.

Graduate Program Schedule (Full-Time)

The 36-credit hour MBA Leadership Program requires completion of core courses (18 credit hours), Jesuit value core courses (3 credit hours), leadership specific course requirements (12 credit hours) and a capstone research/project course (3 credit hours) as follows:

Code	Title	Credit Hours
Core Courses		
Required (9 credits):		
BUS 601	Business Ethics	3
BUS 603	International Business	3
FIN 601	Financial Management	3
Choose One: (3 credits) (Quantitative)		
ANL 601	Supply Chain Management	3
MIS 601	Information Strategy and Management	3
Choose two: (6 credits) (Qualitative)		
MKT 601	Marketing Management	3
HRM 601	Human Resource Management	3
BUS 602	Business Law	3
Jesuit Value Core Courses: (1 credit each)		
JVC 601	Individual and Collective Discernment	1
JVC 602	Sustainability Strategies	1
JVC 603	Corporate Social Responsibility Strategies	1
MBA Leadership Specific Courses		
Foundational Course (3 credit hours)		
LDR 601	Org Dynamics: Leadership	3
Leadership Electives (9 credit hours)		
Students will choose three of the following six courses:		
LDR 703	Leadership and Culture	3
LDR 706	Leadership, Management & Humanities	3
LDR 708	Lessons in Leadership	3
LDR 711	Leading Organizational Change	3
LDR 715	The Emotionally Intelligent Leader : Exploring Emotional and Social Competence in Leaders	3
LDR 722	The Strategic and Creative Leader	3
Capstone Research / Project Course		
LDR 799	Strategic Leadership	3

Jesuit Values Core (JVC)

JVC 601. Individual and Collective Discernment. 1 Credit Hour.

This course provides an overview of a model of Ignatian Leadership where students gain insight into both individual and collective discernment practices for effective decision-making.

JVC 602. Sustainability Strategies. 1 Credit Hour.

The focus of the course is on Sustainability, and the ways in which economic success can be balanced alongside Social need, and preservation of the Environment. Specifically, Innovations in, and Corporate Strategies for, Sustainability are studied in detail so students will be equipped to deal with the pressing needs of firms worldwide in the years to come. Case discussions and team presentations are integral to developing innovative solutions and will be used in this course.

JVC 603. Corporate Social Responsibility Strategies. 1 Credit Hour.

The focus of the course is on Corporate Social Responsibility (CSR), and the ways in which economic success can be balanced alongside Social needs. Specifically, Innovations in, and Corporate Strategies for, CSR are studied in detail so students will be equipped to deal with the pressing needs of firms worldwide in the years to come. Social Entrepreneurship is integral to the course content. Case discussions and team presentations are integral to developing innovative solutions and will be used in this course.

JVC 604. Principles of Social Entrepreneurship. 1 Credit Hour.

This course is designed to help students better understand and appreciate the concept of Social Entrepreneurship, as well as the major opportunities and challenges facing social entrepreneurs, their ventures and their communities, including how to map, imagine, screen/evaluate and act for desired social and economic change. It will enable them to see how important and possible it is to begin to actualize their Social Entrepreneur potential and make a "People, Profit, Planet and Place" impact. It is designed to culminate in brainstorming/exploration of possible Le Moyne social ventures that can be launched in the future.

Leadership (LDR)

LDR 601. Org Dynamics: Leadership. 3 Credit Hours.

A study of the individual, interpersonal, group and organizational and environmental factors that interact with the culture of an organization and together determine the quality of life and performance. Readings, cases, experiential exercises and group projects will be used to help students understand the concepts and discover which are personally valid for them.

Cross-listed Courses: MGT 601

LDR 703. Leadership and Culture. 3 Credit Hours.

The course studies the variations in management and leadership styles across national settings. Factors such as political and economic systems, technology, history and social forces are examined for their relationship to leadership style. Case studies on leadership are extensively used.

Cross-listed Courses: MGT 703

LDR 706. Leadership, Management & Humanities. 3 Credit Hours.

This course will examine models of leadership drawn from classic works of literature and film. Leadership topics will include charisma, crisis management, cultural diversity, ethics, female leadership, goalsetting, the language of leadership, motivation, servant leadership, strategy, team building and transformation leadership. We will discuss the practical and theoretical foundations for these leadership models by examining cases based on the following literary and film texts: All the King's Men, Antigone, The Bridge Over the River Kwai, Citizen Kane, Gandhi, Glengarry Glen Ross, Glory, Heart of Darkness, Henry V, The Iliad, A Jury of Her Peers, The Major of Casterbridge, Moby Dick, Norma Rae, The Odyssey, Twelve O'Clock High and Twelve Angry Men.

Cross-listed Courses: MGT 706

LDR 708. Lessons in Leadership. 3 Credit Hours.

This course explores the primary ideas, values and competencies required for modern corporate and community leadership. This course will also challenge students to use what they have learned in readings and discussions to analyze both themselves and well known leaders.

Prerequisite: MGT 601 OR LDR 601.

LDR 711. Leading Organizational Change. 3 Credit Hours.

This course will tackle three basic questions: What is an organization? What is change? and How to lead organizational change? We will explore the evolving role of leadership, various metaphoric and systems views of organizations and the values and methods of organizational change and development. Student teams will also design and conduct organizational inquiries.

Cross-listed Courses: MGT 711

LDR 715. The Emotionally Intelligent Leader : Exploring Emotional and Social Competence in Leaders. 3 Credit Hours.

The concept of Leadership has been examined and dissected since ancient times, in search of a replicable process which could be somehow infused to create great leaders. From classic theories to situational explorations, the power to lead can create a better town, a more successful company, a more equitable world. In the 1990's a new voice joined the chorus of Leadership influence as Daniel Goleman spoke to the ideas of emotional intelligence- the ability to identify, assess and control emotions. This course will explore the writings, papers and presentations of Daniel Goleman in a blended format, inviting students to assess their own strategies as colleagues and leaders have a better understanding of the human side of leadership.

Prerequisite: MGT 601 or permission of instructor.

Cross-listed Courses: MGT 715

LDR 722. The Strategic and Creative Leader. 3 Credit Hours.

This course is one of two leadership courses in the certificate program which invite students to explore the practices of exceptional leaders in the Health Care field. The design of the course supports and guides the student's ability to discover, explore and assess issues in their field and to recognize opportunities which will continue to maximize their strengths as health care leaders. Conversations with numerous leaders in the health care community highlight this unique class which will enhance the student's network and introduce a diverse palette of leadership thought and action.

Cross-listed Courses: MGT 722

LDR 799. Strategic Leadership. 3 Credit Hours.

The content and process of the capstone course have been designed to provide a rigorous, integrative experience in leadership theories in a variety of environments. Through lectures and discussions of articles, students are exposed to seminal theory on leadership. In addition, leadership specific, integrative thinking, and communication skills are developed throughout the discussions of the articles and cases. This course is project-based. Students will develop a leadership strategy for an organization.

MBA, Management Degree Program

Graduates of the MBA Management Program will be effective managers and leaders at the individual, team and/or organizational level and will be able to add significant value towards the achievement of both project and organizational objectives. They will apply analytical and cross-disciplinary thinking to business decisions while understanding the forces of globalization. Additionally, the program seeks to prepare graduates to apply a global and cross-cultural perspective in business analysis and decision making through a lens of ethical awareness and reflective reasoning as they analyze ethical and corporate responsibility issues.

The Le Moyne MBA program consists of four levels:

Foundation Level

Five courses encompassing the elements of initial knowledge and skills required in management.

Code	Title	Credit Hours
Other Requirements		
ACT 501	Intro Fin & Managerial Act	3
BUS 501	Business Communications	3
ECO 501	Economics for Managers	3
MIS 501	Management Information Systems	3
STA 501	Quantitative Decision Making	3
Total Credit Hours		15

Core Level

Nine courses which explore each of the functional areas of business separately. Each course includes values and communications in a global management environment.

Code	Title	Credit Hours
Other Requirements		
ANL 601	Supply Chain Management	3
BUS 601	Business Ethics	3
BUS 602	Business Law	3
BUS 603	International Business	3
FIN 601	Financial Management	3
HRM 601	Human Resource Management	3
MGT 601	Org Dynamics: Leadership	3
MKT 601	Marketing Management	3
MIS 601	Information Strategy and Management	3
Total Credit Hours		27

Elective Level

Two courses from the following, intended to provide in-depth understanding of functional and interdependent areas of management (partial listing).

Code	Title	Credit Hours
Other Requirements		
ACT 550	Accounting Information Systems	3
ACT 701	Advanced Federal Income Taxation	3
ACT 702	Taxes & Business Strategy	3
ACT 704	Strategic Cost Management	3
ACT 721	Taxation of Corporations	3
ACT 723	Tax Research and Practice	3
ACT 724	Advanced Taxation of Pass-Through Entities	3
ACT 725	Advanced Estate and Gift Tax	3
ACT 726	Tax Accounting for Income Taxes	3
ACT 727	International Taxation	3
ACT 740	Advanced Taxation Capstone Seminar	3
ACT 790	Special Topics in Accounting	3

ANL 702	Cases in Business Analytics	3
ANL 790	Special Topics in Business Analytics	3
BUS 530	Government Contract Accounting	3
BUS 536	Introduction to Government Contracting Law, Compliance, Ethics	3
BUS 537	Capstone Course: Cases in Government Contracting Law, Compliance, and Ethics	3
BUS 790 - BUS 798	Special Topics in Management	3
BUS 795	Internship	1-6
BUS 799	Independent Study	1-6
FIN 665	Distress Investing	3
FIN 667	Modern Security Analysis	3
FIN 701	Investment Management	3
FIN 790	Special Topics in Finance	3
HRM 701	Current Issues in Human Resources	3
HRM 707	Staffing	3
HRM 708	Compensation	3
HRM 790	Special Topics in Human Resource Management	3
MGT 703	Leadership and Culture	3
MGT 705	International Business Leadership	3
MGT 706	Leadership, Management & Humanities	3
MGT 708	Lessons in Leadership	3
MGT 711	Leading Organizational Change	3
MGT 712	Career Self-Assessment	3
MGT 715	The Emotionally Intelligent Leader : Exploring Emotional and Social Competence in Leaders	3
MGT 721	Chaos in Health Care: Directing the Evolution	3
MGT 722	The Strategic and Creative Leader	3
MGT 723	Making Leadership Contagious	3
MGT 724	The Process of Health Care: Patient Centered Management	3
MGT 725	The Business of Healthcare: Connecting the Dots	3
MIS 525	Introduction to Java Programming Programming	3
MIS 535	Intro to Government Systems	3
MIS 550	Accounting Information Systems	3
MIS 635	Client Side Web Applications Development	3
MIS 701	Database Management Systems	3
MIS 703	Systems Analysis and Design	3
MIS 707	Risk Mgmt in Large Scale Systems	3
MIS 710	Health Information Systems	3
MIS 711	Managing Systems Projects	3
MIS 712	Information Systems and Network Security Cybersecurity	3
MIS 716	Business Intelligence	3
MIS 717	Managing the Technological Enterprise	3
MIS 785	Programming in Visual Basic With Visual Basic	3
MIS 790	Specil Topics in Mgmt Info Syst	3

MIS 796	Information Systems Internship	1-6
MIS 799	Master's Thesis Research Project	1-6
MKT 706	Nonprofit Marketing	3
MKT 715	Mobile Applications & Business Stratgs	3
MKT 790	Special Topics in Marketing	3

Capstone Level

One management course that integrates various aspects of managerial decision-making, values analysis, quality corporate culture, leadership and global management: BUS 750 Strategic Management.

MBA, Marketing Degree Program

The MBA Marketing Program strives to develop leaders who are able to execute successful marketing strategies while considering the societal implications of such strategies. The program immerses students in a cutting-edge academic environment through innovative curricula that prepares them for the evolving world of marketing. Core learning outcomes center on analytical effectiveness, ethical awareness and reflection, development of a global perspective, and effective communication.

Code	Title	Credit Hours
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Core Courses

Students pursuing this degree will complete the following core courses:

Required (12 credits):

BUS 601	Business Ethics	3
BUS 603	International Business	3
FIN 601	Financial Management	3
LDR 601	Org Dynamics: Leadership	3

Required (3 credits) (Quantitative)

MIS 601	Information Strategy and Management	3
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Choose one: (3 credits) (Qualitative)

HRM 601	Human Resource Management	3
BUS 602	Business Law	3

Jesuit Value Core Courses (1 credit each)

JVC 601	Individual and Collective Discernment	1
JVC 602	Sustainability Strategies	1
JVC 603	Corporate Social Responsibility Strategies	1

MBA Marketing Specific Courses

Foundational Course (3 credits)

MKT 601	Marketing Management	3
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Marketing Electives (9 credits)

Students complete three of the following of five courses (additional electives may be developed over time):

MKT 706	Nonprofit Marketing	3
MKT 710	Judgment in Managerial Decision Making	3
MKT 715	Mobile Applications & Business Stratgs	3
MKT 717	Digital Marketing I	3
MKT 719	Marketing Analytics	3

Capstone Research/Project Course (3 credits)

MKT 799	Strategic Marketing	3
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MASTER OF SCIENCE IN INFORMATION SYSTEMS

Chair: Renée V. Downey

Program Director: Shin-Jeng Lin

Professor: Martha Grabowski, Shin-Jeng Lin

Assistant Professor: Yue Han, Mehmet Kilinc

Adjunct Faculty: Aaron Luke, Philip Mazza, Shawn O'Reilly, Aaron Przylibski, Shane Stockhauer

The M.S., Information Systems (MSIS) program is 30-credit, part-time or full-time program designed to develop highly educated information and computer systems professionals, particularly those responsible for information systems development and management. The program serves a diverse student body, including people with previous degrees in business and information systems, people with degrees in related fields and professional experience, and people who seek to enter the field without previous knowledge about information systems. Le Moyne's Jesuit tradition emphasizes ethical, global and corporate social responsibility analyses, as well as written and oral communication.

Admission Criteria

Applications for matriculation are reviewed by the respective Program Director and Graduate Admission Committee. Admission applications are evaluated for an applicant's intellectual abilities, needs, leadership qualities and ability to complete the program.

Applicants will be assessed according to the following criteria:

- Transcripts showing proof of an earned bachelor's degree from an accredited college or university must be submitted by the time of enrollment. A baccalaureate degree with a 3.0 or higher GPA. Official transcripts from all previous colleges will be required for admission. Those who do not meet this particular GPA requirement may be admitted on a conditional basis in foundation or prerequisite courses. Two courses may be taken on this basis in consultation with the appropriate Program Director.
- Two letters of recommendation are required. Recommendations must be from professionals, faculty members and/or academic advisors who can attest to the prospective student's ability to be successful in a graduate program.
- Resume or C.V. to include relevant work experience, examples of professional achievement or other information that might be used to assess the prospective student's personal qualities and ability to successfully complete graduate level work.
- Personal Statement. A brief essay stating, as specifically as possible, the applicant's educational and career goals and what the applicant plans to accomplish by enrolling in the graduate program of choice.
- Interview, by invitation only.
- A GMAT or GRE exam. Waivers for the GMAT/GRE requirement are considered and automatically applied for competitive applicants. This includes students with:

- Undergraduate GPAs of 3.0 or above, or;
- Applicants with 5+ years of professional work experience, or;
- Those with other terminal degrees, or;
- Students who have taken other graduate level entrance exams (i.e. LSAT, MCAT) within the last five years.

Requests for consideration of GMAT/GRE waivers or further advice on this exam can be directed to gradadmission@lemoyne.edu.

Application Requirements

- Completed application
- Official GMAT or GRE scores (unless your undergraduate GPA is greater than or equal to 3.30 (without rounding))
- Official transcripts from all undergraduate and graduate institutions attended
- Two letters of recommendation from professionals or academic advisors who can attest to your ability to be successful in a graduate program
- Professional resumé
- Advising appointment with the MSIS program director

Academic Criteria

Successful completion of the Le Moyne MSIS program requires a minimum cumulative G.P.A. of 3.0 and a minimum residency of 21 credit hours.

Transfer Credit/Waiver Policy

Waivers of courses or the acceptance of transfer credit will be considered based on the following:

Waivers of foundation courses could be granted to those who have completed the equivalent academic requirements in their undergraduate program. Typically, two undergraduate courses, in the appropriate area and at the appropriate level, completed in recent years with a grade of B or better, could be used to waive an MSIS foundation course. Because of the highly diverse nature of undergraduate education, all waivers will be considered by the MBA director on a case-by-case basis.

For most courses, equivalent content level graduate courses from AACSB accredited institutions with a grade of B or better may be accepted as transfer credit. Transfer courses must be approved by the MSIS director. Transfer credits are not included in the quality point index.

Term Limit for Completion

When an MSIS candidate becomes matriculated, he/she has a total of six years to complete program requirements. If, however, an MSIS candidate is within three courses of completing the degree by the end of the six-year period, he/she may petition the MSIS director to request an extension not to exceed one calendar year or three consecutive semesters.

Probation and Termination

Matriculated MSIS students with a cumulative G.P.A. of less than 3.0 are immediately placed on academic probation. The student will be notified and must meet with the director before continuing with further study. Until the student meets with the director, a hold will be placed on his or her registration. The director, in consultation with the student, will specify

a time and course schedule after which the student is expected to have raised his or her cumulative G.P.A. to the required 3.0 level. If the student does not meet the requirement by the specified time schedule, he or she will not be allowed to continue with the MSIS program.

Withdrawal or Leave of Absence

MSIS students who anticipate not being able to attend the MSIS Program during two consecutive semesters should request a formal leave of absence in writing from the director in order to maintain matriculated status. Forms are located in the forms library link on the MSIS website.

Student Learning Outcomes in Master of Science in Information Systems

Students who graduate from the MS Information Systems program will be able to:

Core Knowledge:

Demonstrate analytical thinking and core information systems, management, and technology knowledge.

Analytical Integration:

Apply analytical and cross-disciplinary thinking, integrating information systems and business knowledge in evaluating strategic information systems and business decisions.

Ethical Awareness:

Integrate business, ethical and corporate social responsibility knowledge to analyze and resolve ethical and corporate social responsibility issues and problems.

4+1 Express Path to Master's Degree in Information Systems

The College's new MSIS express path program allows students to earn their undergraduate degree in any field in four years and their MSIS in just one additional year of study. When they graduate, our alumni are distinguished by their ability to lead and to tackle complex issues as they respond to the needs of an ever-changing world.

March 1 of the junior year - complete the MSIS application process for admission by providing: application form, two letters of recommendation, and a personal statement. Students must have a 3.30 grade-point average (without rounding). Neither the GMAT nor the GRE are required. (Notification of pre-approved admission to the express path will be made on a rolling basis. Final admission to the MSIS program will be conditional on completion of your undergraduate program.)

Upon completion of the junior year - Students will show fulfillment, or will fulfill, the two foundation graduate course requirements with a grade of "B" or better (or their undergraduate equivalents: see below) for the MSIS Program: MIS 501 Management Information Systems and MIS 601 Information Strategy and Management. This may be achieved in several ways. A maximum of 9 graduate credit hours (i.e., three graduate level courses) may be taken upon completion of a student's junior year.

Summer or Fall after completing undergraduate requirements - The remainder of the 30 MSIS credit hours can be completed in 12 months if the student is enrolled full time during the fall, spring, and summer

semesters, as well as during the J-mester. Students may also complete the program on a part-time basis.

Please go to the MSIS Program page (p. 437) to view requirements. For more information, please contact Dr. Shin-Jeng Lin, Information Systems Program Director.

- Information Systems (M.S.) (p. 437)
- Graduate Enterprise Systems Certificate (p. 438)
- Graduate Health Information Systems Certificate (p. 438)

Management Information Systems (MIS)

MIS 501. Management Information Systems. 3 Credit Hours.

An overview of management information systems (MIS) and their structure is provided through case analysis. Topics covered include the underlying concept of information, decision-making, management and how organizations affect the design of information systems. The impact of information systems on human behavior, organizations and societies is analyzed. Information resources management models underlie the technical and management focus of the course. Students are expected to complete group and individual projects using commercially available spreadsheet, database and systems analysis software packages.

MIS 525. Introduction to Java Programming Programming. 3 Credit Hours.

This course will introduce you to programming and object oriented programming using Java. General programming topics include program design, testing strategies, and control structures such as conditionals, iteration. Object oriented topics include creating and using classes, inheritance and interfaces. Students will also learn about basic data structures such as arrays and strings. Students will solve programming problems in weekly lab sessions. Graduate students in the course will also be introduced to event-driven programming using a graphical user interface (GUI), recursion, and 2-dimensional arrays.

MIS 535. Intro to Government Systems. 3 Credit Hours.

This course focuses on introductory government systems concepts, processes and functions, utilizing the Federal Acquisition Regulations (FAR). Students will examine FAR regulations, processes and nomenclature, utilizing existing and proposed regulations and industry case studies, and appropriate support technology. Guest speakers and field research provide students with access and information from industry and academia.

Prerequisites: MIS 201 or permission of instructor.

MIS 550. Accounting Information Systems. 3 Credit Hours.

This course will examine the design, control and operation of accounting information systems with a strong emphasis on integration. The course will present a thorough introduction to basic information systems theory, provide a working knowledge of systems analysis and design techniques, databases and enterprise systems. Understanding and appreciation of accounting information systems is critical to successfully managing, auditing and developing systems to support today's evolving business environment. This course offers a focused look at accounting information systems as part of enterprise resource planning systems, with a focus on SAP and other comparable enterprise systems to demonstrate concepts. Prerequisite(s): Grade of C or above in MIS 201 (or MIS 501), and in either ACT 203 and ACT 204, or in ACT 201 and ACT 202.

Cross-listed Courses: ACT 550

MIS 601. Information Strategy and Management. 3 Credit Hours.

This course covers the management, strategies and performance of enterprises engaged in the use of information for competitive advantage. IT alignment with business goals and enterprise resource planning (ERP) tools, techniques and processes are introduced. Modeling and managing life cycle costs, and the impact on competitive advantage, are covered in the course. The management of third party organizations, vendors, outsourcing, and the legal, ethical and environmental impacts of such activities, are important components of this course. Students will complete and present a semester-long project in enterprise resource planning. Guest speakers and case studies from local, national and international technological enterprises, agencies, and regulatory organizations are employed in this course.

Prerequisite: MIS 501.

MIS 611. Crowds, Social Media & Digital Collaboration. 3 Credit Hours.

Over the past years, crowds, social media, and digital collaborations have emerged as important topics in the IS field. Social media and other social information systems not only support communications and collaborations among the general crowd but also harness collective intelligence for innovation. This course covers the basic concepts and theories of social media, crowdsourcing, remixing, and sharing economy. Students will also learn analytics and applications related to these trending topics. (Please note that students who have taken MIS 411 should not take this course).

Prerequisites: MIS 501 or permission of IS Department Chair.

MIS 635. Client Side Web Applications Development. 3 Credit Hours.

As more and more businesses and individuals turn to the Web for sharing information and conducting commercial activities, a quality web site can provide competitive advantage and invite users for repetitive visits. The key to a quality and successful web site lies in both the content and usability of the site. To increase understanding of web usability, this course will engage students in an exploration of fundamental concepts in web design and development processes with hands-on exercises. This course explores the factors influencing web site usability throughout the design process, including requirements analysis, conceptual design, mockups and prototypes, production, and web site evaluation. Students will also learn to use client-side scripting techniques to enhance web usability.

MIS 690. Graduate Information Systems Independent Study. 3 Credit Hours.

This course provides an opportunity for graduate students to conduct independent research under the direction of a faculty member. Since the study of Information Systems is interdisciplinary, research linking business, technology and social and organizational science in explorations of how systems that convey information work can be studied independent study format—whether those systems are human, technological, natural, economic, social or other. Research in Information Systems thus explores technical and business topics, along with ethical questions that arise in business applications of technology in organizations. Open to students eligible for graduate Business of Information Systems research. Prerequisite(s): MIS-501; or permission of instructor.

MIS 701. Database Management Systems. 3 Credit Hours.

This course develops the framework for database systems analysis and design. Course topics focus on database design, data modeling, data integrity, security, database management approaches and techniques and distributed databases. Students are expected to complete a database project using commercially available software packages.

Prerequisite: MIS 501.

MIS 703. Systems Analysis and Design. 3 Credit Hours.

This course provides the building blocks for analysis and design of management information systems. The systems development life cycle, information gathering techniques, data and process modeling techniques and management of the systems analysis and design processes are covered. Students apply the concepts introduced using computer-aided software engineering (CASE) tools.

Prerequisite: MIS 501.

MIS 705. Advanced Business Analytics. 3 Credit Hours.

Data is useful if relevant and insightful information can be extracted from it to better understand the past (descriptive analytics), anticipate future events (predictive analytics), and direct the course of the best decision (prescriptive analytics). This course will cover different supervised and unsupervised machine learning algorithms, and their applications to structured and unstructured data including financial marketing, health care, social media, entertainment, and socio-economic data. Effective communication of the results and insights from the analysis, including via well-designed visualizations will be emphasized throughout the course. This course does not assume any prior exposure to machine learning theory or practice.

Prerequisite: ANL 601.

Cross-listed Courses: ANL 705

MIS 707. Risk Mgmt in Large Scale Systems. 3 Credit Hours.

This course focuses on the challenges associated with risk management in large-scale systems. It considers the nature of social, organizational and technological risk and discusses the role of risk analytic, risk management and risk communications. It also discusses several analytic approaches to risk management and mitigation and analyzes case studies of risk in several large-scale systems: aerospace, biomedical, global networks, healthcare, transportation and safety-critical domains such as firefighting and oil spill response. Using several strategic models, students discuss the importance of tactical and strategic risk management and employ several of the models in case analyses.

Prerequisite: MIS 501.

MIS 710. Health Information Systems. 3 Credit Hours.

This course provides students with the knowledge of the design, use, and evaluation issues of health informatics applications. The topics include: (1) health informatics as a discipline; (2) career options for health informatics; (3) major health applications and commercial vendors; (4) strategic information systems planning; and (5) new opportunities and emerging trends.

Cross-listed Courses: NSG 387, NSG 697, MIS 450

MIS 711. Managing Systems Projects. 3 Credit Hours.

This course focuses on introductory project management processes, technology and tools, utilizing the Project Management Institute's (PMI) Project Management Body of Knowledge (PMBOK) and the Software Engineering Institute's (SEI's) Capability Maturity Model Integration (CMMI) processes and nomenclature. Students examine the processes and theory of project management as well as industry case studies, and will utilize project management software in support of their management activities. Guest speakers and field research provide students with access and information from industry and academia. Students are engaged in a semester-long project. Initially, they are required to identify the project scope and team charter for their project; subsequent assignments require them to prepare a business case, work breakdown structure, cost estimate, and final project documentation for their project.

Cross-listed Courses: NSG 611

MIS 712. Information Systems and Network Security Cybersecurity. 3 Credit Hours.

This course provides an overview of the concepts and principles of telecommunications systems and networks, blending technical with managerial topics. Students will focus on the challenges inherent in securing financial telecommunications networks, particularly the challenges of insider threats. Students will local area networks, wide area networks, wireless networks, value-added networks, as well as other networks. Students will complete a series of network installation and test projects, and will analyze network design cases throughout the semester. Guest speakers from industry and case studies from on-going research will provide a real-world context for the topics discussed in class. Students may sit for network certification following completion of the course.

Prerequisites: MIS 501, or permission of the instructor.

MIS 715. Mobile Applications & Business Strategies. 3 Credit Hours.

The course explores the important challenges and needs of today's organizations to go mobile to connect with their stakeholders. Students will learn the technical, managerial and marketing aspects of mobile applications. Technically, they will learn the development process and technical infrastructure of mobile applications. Managerially, students will learn how to develop business strategies to exploit mobile applications for the advancing and repositioning of organizations. For marketing, students will learn to market the newly developed mobile applications and at the same time to use mobile applications to market and promote the organizations and their products or services.

MIS 716. Business Intelligence. 3 Credit Hours.

This course provides an introduction to Business Intelligence, including the processes, methodologies, infrastructure, and current practices used to transform business data into useful information and support business decision-making. Business Intelligence requires foundation knowledge in data storage and retrieval, thus this course will review logical data models for both database management systems and data warehouses. Students will learn to extract and manipulate data from these systems and assess security-related issues. Data mining, visualization, and statistical analysis along with reporting options such as management dashboards and balanced scorecards will be covered. Technologies utilized in the course included SAP Business Warehouse, SAP Business Objects, Crystal Reports, and RapidMiner.

Prerequisite: MIS 501 or permission of the instructor.

Cross-listed Courses: ANL 716

MIS 717. Managing the Technological Enterprise. 3 Credit Hours.

This course covers the requirements, management and performance of enterprises engaged in the use of technology. Requirements determination, analysis, design and cost management activities for technological enterprises are covered; a focus on the management of life cycle costs is emphasized. The management of third party organizations, outsourcing and project management activities are also covered. The legal, environmental and ethical issues associated with the management and performance of technological enterprises are important components of this course. Guest speakers and case studies from local, national and international technological enterprises, agencies and regulatory organizations are employed in this course.

Prerequisites: MIS 501 or permission of instructor.

MIS 719. Marketing Analytics. 3 Credit Hours.

In a world where data is more valuable than oil, the need to apply cutting-edge computational analyses, in addition to conventional statistical approaches, to derive meaning from large noisy databases and provide insight into understanding the outcome of marketing strategies is becoming more important than ever. This course will teach students how to leverage data and use analytics to form impactful marketing strategies. By learning the different analytical approaches and how to apply them to make marketing decisions, students enhance their understanding of the importance of marketing analytics.

Prerequisites: MKT 601, STA 501, and MIS 501.

Cross-listed Courses: MKT 719, ANL 719

MIS 725. Distributed Enterprise Systems. 3 Credit Hours.

This course serves as an introduction to the cloud computing environment, discussing both fundamental concepts of how and why cloud systems work, as well as cloud technologies that manifest these concepts, such as Amazon AWS, Microsoft, Azure, and Open Stack. Students will learn about virtualizations, data parallelisms, security and privacy, cloud storage mechanisms, and cloud design architectures in the context of distributed systems. This course will be taught in a lab lecture style utilizing Amazon Web Services (AWS) as a learning platform. Recommended predecessor courses: MIS-712, MIS-717.

Prerequisite: MIS-501, or permission of the instructor.

MIS 730. Human Resource Information Systems. 3 Credit Hours.

This course will offer an understanding of how human resource information systems are applied in organizations to support organizational strategy, improve efficiency and flexibility, increase productivity and performance, enhance retention and ensure compliance with employment law. The focus will be on merging information systems with a strategic human resource perspective. This course provides students with the knowledge, skills and abilities to identify, assess, develop and maintain an effective HR system. Students will develop a thorough understanding of the plan, design/acquisition, implementation and applications of a human resource information system (HRIS).

Prerequisites: MIS 501 and HRM 601 or permission of department chair.

Cross-listed Courses: HRM 730

MIS 740. Data Science. 3 Credit Hours.

This course will provide you the knowledge and techniques to approach phenomena analytically. Specially, you will learn the role and process of the data science lifecycle in understanding and gaining insight about phenomena, including how to ask the appropriate questions, identify the appropriate data and information needed, use the appropriate tools to analyze a large volume of data, evaluate the findings effectively with parameters, find the appropriate answers, and present the answers and compellingly. In the business context such knowledge can enable organizations to make quality decisions and develop important business strategies that can enhance organizational performance and that can contribute to significant financial gains. You will proficiently acquire such knowledge and techniques through class discussion, lectures, readings, as well as hand-on exercises. Prerequisite(s): STA 501.

Cross-listed Courses: ANL 740

MIS 771. Information Systems Research Methods. 3 Credit Hours.

Information systems, composed of technology, people, information, systems, organizations, policies, and society, contain many complex and interdependent elements. The large-scale systems within which many information systems reside, including organizations, technology systems, communities, nations, and even human biological systems, can be similarly complex, with interdependent elements. Information systems researchers study technology, people, information, organizations and systems in order to understand information systems, and the interactions between and the impacts of those elements and information systems, on individuals, groups, organizations, and other systems. Research design is the process of formulating a research plan that addresses research questions of interest. A sound research design ensures that the data and evidence obtained assists in effectively addressing the research questions under study. Key to good research design are research methods, approaches and techniques used to carry out research, which are facilitated by the collection of meaningful and useful data and evidence, and by analysis, assessment and interpretation of that data and evidence. This course provides an overview of the fundamentals of research design and research methods, including research question and hypothesis formulation; data and evidence collection and analysis; and the challenges of research design and methods. Students in this seminar course work closely with a Le Moyne faculty mentor while conducting research in Information Systems, either on campus at Le Moyne or in the field. McDevitt Information Systems Research Scholars who have gone through a year-long faculty research mentoring process in previous years and have prepared and published their own research also serve as mentors to students in this class. Students and their mentors participate in bi-monthly research seminars led by the Le Moyne faculty mentor, at which they present their research, collaborate on their findings and discuss their progress. Open to students eligible for Master's Thesis research. Prerequisite(s): MIS 501.

MIS 785. Programming in Visual Basic With Visual Basic. 3 Credit Hours.

This class covers the basics of structured programming using Visual Basic to develop decision support systems or management science applications. The theory and practice of structured programming, logic, systems development are covered in a series of iterative hands-on assignments, which are designed based on practical decision support systems or management science applications. Students can expect to learn how to create and program advanced Excel applications or other equivalent applications. A term project involving the development and documentation of a Visual basic program is required.

MIS 790. Special Topics in Mgmt Info Syst. 3 Credit Hours.

Courses in this series offer an in-depth exploration of specific issues within the field of management information systems, as well as topics of current interest to students and instructors.

MIS 795. Special Topics in Information Systems Research Methods. 3 Credit Hours.

Information systems, composed of technology, people, information, systems, organizations, policies, and society, contain many complex and interdependent elements. The large-scale systems within which many information systems reside, including organizations, technology systems, communities, nations, and even human biological systems, can be similarly complex with interdependent elements. Information systems researchers study technology, people, information, organizations and systems in order to understand information systems, and the interactions between and the impacts of those elements and information systems, on individuals, groups, organizations, and other systems.

Prerequisite: MIS 501; or permission of instructor.

MIS 796. Information Systems Internship. 1-6 Credit Hours.

Participation in a real-world learning experience is provided in internship opportunities. The intern reports as required to a faculty member, and both student and faculty member assess the internship as it relates to the student's academic program and desired organizational experiences. Six hours of approved work experience is required to generate one credit. Prerequisite: permission of the program director.

MIS 799. Master's Thesis Research Project. 1-6 Credit Hours.

This course provides an opportunity for graduate students to conduct independent research under the direction of a faculty member. Since the study of Information Systems is interdisciplinary, research linking business, technology and social and organizational science in explorations of how systems that convey information work can be studied in a student's master's thesis—whether those systems are human, technological, natural, economic, social or other. Research in Information Systems thus explores technical and business topics, along with ethical questions that arise in business applications of technology in organizations.

Information Systems (M.S.)

The M.S., Information Systems program is 30-credit, part-time or full-time program designed to develop highly educated information and computer systems professionals, particularly those responsible for information systems development and management. The program serves a diverse student body, including people with previous degrees in business and information systems, people with degrees in related fields and professional experience, and people who seek to enter the field without previous knowledge about information systems.

Prerequisites: MIS 501 Management Information Systems and MIS 601 Information Strategy and Management

Code	Title	Credit Hours
Major Requirements		
MIS 701	Database Management Systems	3
MIS 703	Systems Analysis and Design	3
MIS 707	Risk Mgmt in Large Scale Systems	3
MIS 711	Managing Systems Projects	3
MIS 712	Information Systems and Network Security Cybersecurity	3
MIS 715	Mobile Applications & Business Strategies	3
	or MIS 716 Business Intelligence	
MIS 717	Managing the Technological Enterprise	3
	or MIS 725 Distributed Enterprise Systems	
Choose two of the following:		6
MIS 525	Introduction to Java Programming Programming	
MIS 535	Intro to Government Systems	
MIS 550	Accounting Information Systems	
MIS 611	Crowds, Social Media & Digital Collaboration	
MIS 635	Client Side Web Applications Development	
MIS 690	Graduate Information Systems Independent Study	
MIS 705	Advanced Business Analytics	
	or ANL 71 Advanced Business Analytics	

MIS 710	Health Information Systems	
MIS 715	Mobile Applications & Business Strategies	
MIS 716	Business Intelligence	
MIS 730	Human Resource Information Systems	
MIS 740	Data Science	
MIS 771	Information Systems Research Methods	
MIS 785	Programming in Visual Basic With Visual Basic	
Choose one of the following Integrated Capstone Experiences:		3
MIS 690	Graduate Information Systems Independent Study	
MIS 790	Spec'l Topics in Mgmt Info Syst	
MIS 796	Information Systems Internship	
MIS 799	Master's Thesis Research Project	
BUS 790	Special Topics in Business	
BUS 799	Independent Study	
Total Credit Hours		30

Graduate Enterprise Systems Certificate

The graduate Enterprise Systems certificate provides certification for individuals with a bachelor's degree interested in advancing their knowledge of enterprise systems and technology. Market drivers for the Graduate Enterprise Systems certificate program include employment trends and demographics as well as partner requests from national, international and regional employers and academic institutions, and from the Le Moyne College Information Systems Advisory Board.

Code	Title	Credit Hours
Five graduate courses (15 credits) are required for successful completion of the graduate Enterprise Systems certificate:		
MIS 701	Database Management Systems	3
MIS 717	Managing the Technological Enterprise	3
	or MIS 725 Distributed Enterprise Systems	
MIS 707	Risk Mgmt in Large Scale Systems	3
	or MIS 712 Information Systems and Network Security Cybersecurity	
MIS 711	Managing Systems Projects	3
And choose one of the following:		3
MIS 550	Accounting Information Systems	
MIS 710	Health Information Systems	
MIS 716	Business Intelligence	
MIS 740	Data Science	
MIS 796	Information Systems Internship	
Total Credit Hours		15

An introductory graduate MIS course, MIS 501, is a prerequisite for each of the courses above. In addition, MIS 716 and MIS 740 require an introductory graduate statistics class, STA 501.

Graduate Health Information Systems Certificate

Health information systems professionals are responsible for managing health information systems, people and organizations, ensuring the quality, accuracy, accessibility, and security of electronic health information, in line with federal requirements for patient information, privacy, security, insurance reimbursement, and financial reporting. Le Moyne College's graduate Health Information Systems Certificate Program is designed to prepare students to manage this complex system and setting, address challenging health care issues throughout their careers. People with advanced knowledge in health information systems are a scarce resource. It is the objective of the graduate Health IS certificate program to fill this gap by providing needed education and certification for those managing information technology, people and organizations in the health care field.

Code	Title	Credit Hours
Major Requirements		
MIS 710	Health Information Systems	3
MIS 711	Managing Systems Projects	3
MIS 701	Database Management Systems ¹	3
MIS 703	Systems Analysis and Design ¹	3
Select one of the following: ¹		3
MIS 535	Intro to Government Systems	
MIS 712	Information Systems and Network Security Cybersecurity	
MIS 716	Business Intelligence	
MIS 717	Managing the Technological Enterprise	
	or MIS 712 Distributed Enterprise Systems	
MIS 740	Data Science	
Total Credit Hours		15

¹ Students who choose to take only one of MIS 701 Database Management Systems and MIS 703 Systems Analysis and Design must also select one of these courses.

RISK MANAGEMENT AND INSURANCE

Chair: George E. Kulick

Program Director: Frank Marullo

Assistant Professor: Jingshu Luo

Professor of Practice: Frank Marullo

Organizations are facing increasing levels of uncertainty and risk that need to be effectively managed. New and increasing risks are resulting from expansion into new markets; new and innovative product and solution offerings; rapidly changing technological innovations; the need to address environmental sustainability; the continuing threat of cybersecurity attacks; and other growing complexities. Most recently, we are all seeing and experiencing the many risk impacts of a global pandemic, including the effects on people, businesses, and the economy.

Students who graduate with a degree in Risk Management and Insurance are in high demand due to the increasing importance that organizations and society are placing on effectively managing risks. The most successful organizations are those whose leaders and managers understand the risks they are facing and can effectively manage risks so they can respond quickly and capitalize on opportunities. The Risk Management and Insurance program provides students with the knowledge and essential skills needed to effectively manage risks and devise and execute strategies to optimize business objectives.

Effective risk management requires knowledge and understanding of insurance products that are available to mitigate certain key risks, the services provided by insurance companies, and the benefits of and costs of insurance to society. Managing risk is an important skillset for any business and successful leaders are creating partnerships with professionals who understand how to identify, evaluate, measure and respond to risks. The Risk Management and Insurance program provides the critical skills organizations need to thrive in today's challenging operational environment, including the importance of making ethical decisions that promote socially responsible leadership. Students interested in these opportunities may pursue a dual major in Risk Management and Information Systems (p. 444).

The risk management and insurance fields are growing, exciting, and provide graduates with a diverse range of career opportunities across a broad range of organizations, including insurance, actuarial services, financial services, healthcare, technology, not-for-profit, governmental, and others.

Student Learning Outcomes in Risk Management and Insurance

Students who graduate will be able to:

- Identify, analyze, and appropriately treat commonly encountered risks to a firm.
- Solve problems by applying quantitative methods used in finance and the insurance industry.
- Correctly apply appropriate tools to assess and manage risk and uncertainty in the operational and financial management of business firms and the insurance industry.

- Communicate risk and insurance related information effectively orally and in writing, in a variety of settings pertinent to a firm.
- Make ethical decisions that promote socially responsible leadership within the insurance industry and/or in the allocation and management of risk pertinent to a firm.

• Business: Risk Management and Insurance (B.S.) (p. 441)

• Risk Management and Insurance (B.S.) (p. 443)

• Dual Major in Risk Management and Information Systems (B.S.) (p. 444)

• Risk Management and Insurance Minor (p. 445)

• Risk Management Minor (p. 445)

Risk Management and Insurance (RMI)

RMI 167. Introduction to Cybersecurity. 3 Credit Hours.

This course introduces cybersecurity and the NIST Framework from three different perspectives: technology, societal dynamics in cybercrime, and policy and law. Cybersecurity principles including confidentiality, integrity and availability as well as assurance, authenticity and anonymity are demonstrated via examples from each perspective. Students gain awareness of the broad scope of cybersecurity through readings, discussions, and hands-on exercises.

RMI 210. Introduction to Risk Management and Insurance. 3 Credit Hours.

This course introduces risk management and insurance and provides an overall approach to risk management, including risk identification and analysis, risk evaluation, and approaches to risk treatment and mitigation, with particular emphasis on the use of insurance to treat and mitigate risks. The course will cover the importance of managing risks across the enterprise, the benefits of effective enterprise risk management, loss forecasting, and financial analysis in risk management decisioning. The course will examine the basic characteristics of insurance, the types and forms of insurance that are available covering individuals and commercial enterprises, and the benefits of and costs of insurance to society. The course also covers insurance delivery systems and introduces insurance company operations. Legal principles related to insurance, government regulation of insurance, and insurance contracts will also be examined.

RMI 250. Intermed Microeconomic Theory. 3 Credit Hours.

Microeconomics studies the behavior of individual participants within the economic system. Models are developed and evaluated which explain the choices of consumers, producers and government agents related to consumption, production, and distribution of goods and services within the economy. Significant attention is paid to market theory, pricing policies, and incentive facing firms in different market environments ranging from the very competitive to the monopoly. Concepts covered include profit maximization and methods of optimization, indifference curves, economic efficiency, market failure, resource markets, monopolistic competition, oligopoly, externalities and public goods.

Prerequisites: ECO 113 and ECO 114.

Cross-listed Courses: ECO 250

RMI 320. Enterprise Risk Management. 3 Credit Hours.

This course focuses on the culture capabilities and practices, integrated with strategy setting and performance, that organizations rely on to manage risks in creating, preserving and realizing value. The course focuses on the role of risk identification, risk analysis and evaluation, risk treatment and monitoring, and risk communication as key components of effective risk management. Also, the course discusses several analytic approaches to risk management and mitigation. Using several strategic models, students discuss the importance of tactical and strategic risk management, and employ several of the models in case analysis. Management of strategic, financial, operational, technological, reputational, social, environmental, and legal and regulatory risks will be explored. Students will complete and present a semester-long project in risk management. Guest speakers and case studies from local, national and international business enterprises will be employed in this course.

Prerequisites: RMI 210.

RMI 350. Insurance & Reinsurance Company Operations. 3 Credit Hours.

This course provides an overview and analysis of insurance and reinsurance company operations, including the issues and challenges faced by management, in the areas of marketing, sales, underwriting, rate-making, distribution, claims, customer service, and regulation. Key insurance and reinsurance company operational functions and how they work together to create and deliver insurance products efficiently and effectively will be examined. The importance of aligning information technology strategy with the strategy and goals of the insurance organization will also be examined, along with the impact that innovative technologies, such as InsurTech, digital insurance, robotics process automation and artificial intelligence are having on operations.

Prerequisite: RMI 210.

RMI 360. Intermediate Managerial Finance. 3 Credit Hours.

Advanced coverage of corporate finance issues, including capital budgeting, capital structure, dividend policy, corporate governance, merger and acquisition, public and private offerings and bankruptcy and reorganization.

Prerequisite: FIN 301.

RMI 370. Property and Casualty Insurance. 3 Credit Hours.

This course covers property and casualty risks facing commercial businesses and individuals; the effective management of these risks through both risk mitigation strategies and insurance products.

Commercial insurance covers for-profit businesses and not-for-profit businesses against the adverse financial effects of property and liability losses. The risk exposures addressed by commercial property and liability insurance will be examined, along with the respective insuring agreements, coverage limits, and exclusions. Also personal lines insurance covering property and liability risks facing individuals will also be examined.

Prerequisite: RMI 210.

RMI 380. Life, Health and Annuities. 3 Credit Hours.

This course provides an in-depth analysis of life, health and annuity insurance products and their role in personal financial planning. Life insurance will be examined in a broad context to encompass insurance that pays on the death of an insured (i.e., mortality risks), promises to pay while an insured is alive (i.e., longevity risks), and promised payment or services to insureds in the event of incapacity, disability, or losses of health (i.e., morbidity risks). The course will examine how life insurance products fit within an individual's personal financial plans, retirement plans, and estate plans. The course will examine the technical details of how various types of annuities operate, how and when they should be used in an individual's financial plans, and the structure, costs, benefits and risks that come with the different types of annuities. Also, the course will examine health insurance products, managed care, health plan provisions, and regulations affecting health insurance.

Prerequisite: RMI 210.

RMI 385. Risk Financing. 3 Credit Hours.

This course provides an analysis of processes for providing funding to cover the financial effects of unexpected losses, including identification and analysis of exposures; analysis of alternative financing techniques; and selection, implementation, and monitoring of selected techniques. The course will address how risk financing alternatives should be examined in light of an organization's risks and the techniques for estimating losses arising from such risks. The purpose, intended use, and administration of alternative financing techniques including insurance, self-insurance, retrospective rating, reinsurance, captive insurance, and contractual risk transfer will be addressed, as well as various methods of transferring financial risk and hazard risk to the capital markets.

Prerequisite: RMI 210.

RMI 420. Strategic, Operational, Environmental Risk Management. 3 Credit Hours.

This course provides students with an in-depth analysis of the risks and the mitigation and management approaches related to an organization's business strategy and objectives; operational processes and systems, including outsourcing and use of third-party service providers; and environmental impacts and sustainability. Operational risk, which refers to the risk of loss resulting from inadequate or failed internal processes, people and systems, including technology, or from external events, will be examined, along with the controls and procedures that can be implemented to mitigate and manage such risk. Strategic risk will be examined related to an organization's strategy selection, execution, and modification over time that results in business objectives not being achieved. Also, environmental risk management and sustainability will be examined; this is a topic that is gaining increased attention and deals with the impacts to an organization from environmental incidents, and failure to use energy efficiently, protect the environment, prevent global warming, and portray social responsibility.

Prerequisite: RMI 320.

RMI 450. Underwriting and Brokerage. 3 Credit Hours.

This course provides an in-depth analysis of the underwriting process of assessing the risks and exposures of insurance applicants in determining whether to accept the risks on behalf of the insurance company, the amount of coverage to be provided, and pricing; and brokerage processes of soliciting, negotiating and selling of insurance. The course will examine the legal liability associated with underwriting, the activities that comprise the underwriting process, including the establishment of underwriting policy and related constraints, and the pricing processes, including ratemaking methods and factors that affect ratemaking. Also, the course will examine the specific underwriting processes and differences for general liability, business auto, workers compensation, professional liability, property, and business income insurance products. Also, the processes and activities comprising insurance brokerage will be examined in detail.

Prerequisite: RMI 350.

RMI 455. Managing the Technological Enterprise. 3 Credit Hours.

This course covers the requirements, management and performance of enterprises engaged in the use of technology. Requirements determination, analysis, design and cost management activities for technological enterprises are covered; a focus on the management of life cycle costs is emphasized. The management of third party organizations, outsourcing and project management activities are also covered. The legal, environmental and ethical issues associated with the management and performance of technological enterprises are important components of this course. Guest speakers and case studies from local, national and international technological enterprises, agencies and regulatory organizations are employed in this course.

Prerequisites: MIS 201 or permission of department chair.

Cross-listed Courses: MIS 455

RMI 460. Claims Processing. 3 Credit Hours.

This course provides an in-depth analysis of claims processing, including claims intake, member and provider verification, claims adjudication, and claims payment processes; the use of automation in claims processing; and the processes for minimizing fraud and errors. The claim handling process will be examined in detail, including the processes for investigating and documenting the claim and determining the cause of the loss, the liability, and the loss amount across specific categories of claims; bodily injury liability claims, property claims, workers compensation claims, medical claims, and auto claims. The importance of detecting and preventing insurance fraud, and effective communication and negotiation skills in the handling of claims will also be covered. Lastly, we will examine how technology and artificial intelligence is being used in the claims management process to increase the quality in claims assessment management and administration.

Prerequisite: RMI 350.

RMI 461. Financial Derivatives. 3 Credit Hours.

This course introduces various derivative securities such as options, forward contracts, futures contracts, and swaps. The key focus of the course will be how to use these derivatives in financial risk management by institutions and investors. The course will focus on both theoretical models and their applications in financial markets. Emphasis will be given to application of derivatives in hedging and recent developments in the practice of financial risk management using derivatives.

Prerequisite: FIN 301.

Cross-listed Courses: FIN 460

RMI 462. Managing Systems Projects. 3 Credit Hours.

This course focuses on introductory project management processes, technology and tools, utilizing the Project Management Institute's (PMI) Project Management Body of Knowledge (PMBOK) and the Software Engineering Institute's (SEI's) Capability Maturity Model Integration (CMMI) processes and nomenclature. Students examine the processes and theory of project management as well as industry case studies, and will utilize project management software in support of their management activities. Guest speakers and field research provide students with access and information from industry and academia. Students are engaged in a semester-long project. Initially, they are required to identify the project scope and team charter for their project; subsequent assignments require them to prepare a business case, work breakdown structure, cost estimate, and final project documentation for their project.

Prerequisite(s): MIS 201 or permission of instructor.

Cross-listed Courses: MIS 460, CSC 460, MGT 460

RMI 470. Risk and Insurance Analytics and Trends. 3 Credit Hours.

This course explores the use of applied analytics in the analysis of risk and insurance data to enable more effective decision making across the industry and examines future trends that will impact risk management and insurance companies and the industry going forward. An analytics strategy and execution framework will be examined, along with a business intelligence strategy framework, insurance industry data flows, and commonly used analytics to support key processes. Students will gain experience in planning and executing analytics applications to analyze data supporting insurance company processes. Also, we will examine how the use of AI in the insurance value stream can increase quality and provide information that can lead to more informed business decisioning. In addition to AI, we will examine how the increasing use of digital, InsurTech, other technological innovations, and other industry disruptions are impacting the insurance industry.

Prerequisites: RMI 210 and RMI 350.

Business: Risk Management and Insurance (B.S.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
	Theology (p. 61)	3
	EAC Encountering Another Culture/Language (p. 61)	6
ENG 310	Literature and Culture	3
	Mathematics (p. 61) ²	3
	Social Science (p. 61) ³	3
	Natural Science (p. 61)	3
	IDS Interdisciplinary Studies (p. 61)	3
	Religion (p. 61)	3
COR 400	Senior Studies: Transformations	3
	VPA Visual & Performing Arts (p. 61)	1
	DIV Diversity (p. 61)	0

Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non-Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
RMI 210	Introduction to Risk Management and Insurance	3
RMI 320	Enterprise Risk Management	3
RMI 350	Insurance & Reinsurance Company Operations	3
Applied Ethics Course		3
Select two of the following electives:		6
RMI 167	Introduction to Cybersecurity	
RMI 250	Intermed Microeconomic Theory	
RMI 360	Intermediate Managerial Finance	
RMI 370	Property and Casualty Insurance	
RMI 380	Life, Health and Annuities	
RMI 385	Risk Financing	
RMI 420	Strategic, Operational, Environmental Risk Management	
RMI 450	Underwriting and Brokerage	
RMI 455	Managing the Technological Enterprise	
RMI 460	Claims Processing	
RMI 461	Financial Derivatives	
RMI 462	Managing Systems Projects	
RMI 470	Risk and Insurance Analytics and Trends	
Electives		
Electives		14
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either **MTH 120** Mathematics for Business Majors, **MTH 122** Brief Calculus, **MTH 123** Mathematics for Act Majors, or **MTH 145** Calculus I.

³ Fulfilled by either **ECO 113** Principles of Microeconomics or **ECO 114** Principles of Macroeconomics.

Course	Title	Credit Hours
Freshman Year		
First Semester		
HST 110	World Civilization I	3

ECO 113	Principles of Microeconomics	3
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
BUS 150	Globalization in World of Differences	3

Credit Hours **15**

Second Semester		
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
ECO 114	Principles of Macroeconomics	3
Select one of the following:		3
MTH 120	Mathematics for Business Majors	
MTH 122	Brief Calculus	
MTH 123	Mathematics for Act Majors	
MTH 145	Calculus I	
Natural Science (p. 61)		3

Credit Hours **15**

Sophomore Year		
First Semester		
ACT 203	Principles of Accounting I for Non-Accounting Majors	3
ENG 210	Major Authors	3
Theology (p. 61)		3
STA 201	Statistics I	3
RMI 210	Introduction to Risk Management and Insurance	3

Credit Hours **15**

Second Semester		
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
PHL 210	Moral Philosophy	3
STA 202	Statistics II	3
VPA Visual & Performing Arts (p. 61)		3
RMI 320	Enterprise Risk Management	3

Credit Hours **15**

Junior Year		
First Semester		
ENG 310	Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)		3
MIS 201	Introduction to Management Info Systems	3
LAW 200	Legal Environment of Business	3
RMI 350	Insurance & Reinsurance Company Operations	3

Credit Hours **15**

Second Semester		
MKT 301	Principles of Marketing	3
FIN 301	Principles of Finance	3
ANL 301	Business Analytics	3
EAC Encountering Another Culture/Language (p. 61)		3
RMI Specialization Elective		3

Credit Hours **15**

Senior Year		
First Semester		
Religion (p. 61)		3

MGT 301	Organizational Behavior	3
Applied Ethics Elective		3
RMI Specialization Elective		3
Free Elective		3
Credit Hours		15
Second Semester		
COR 400	Senior Studies: Transformations	3
BUS 470	Business Policy	3
Liberal Arts and Sciences Elective		3
Free Elective		3
Free Elective		3
Credit Hours		15
Total Credit Hours		120

Risk Management and Insurance (B.S.)

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		6
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
Natural Science (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3

ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Major Requirements		
RMI 210	Introduction to Risk Management and Insurance	3
RMI 320	Enterprise Risk Management	3
RMI 350	Insurance & Reinsurance Company Operations	3
RMI 370	Property and Casualty Insurance	3
Applied Ethics Course		3
Select five of the following electives:		15
RMI 167	Introduction to Cybersecurity	
RMI 250	Intermed Microeconomic Theory	
RMI 360	Intermediate Managerial Finance	
RMI 380	Life, Health and Annuities	
RMI 385	Risk Financing	
RMI 420	Strategic, Operational, Environmental Risk Management	
RMI 455	Managing the Technological Enterprise	
RMI 460	Claims Processing	
RMI 461	Financial Derivatives	
RMI 462	Managing Systems Projects	
RMI 470	Risk and Insurance Analytics and Trends	
Electives		
Electives		2
Total Credit Hours		120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either **MTH 120** Mathematics for Business Majors, **MTH 122** Brief Calculus, **MTH 123** Mathematics for Act Majors, or **MTH 145** Calculus I.

³ Fulfilled by either **ECO 113** Principles of Microeconomics or **ECO 114** Principles of Macroeconomics.

Course	Title	Credit Hours
Freshman Year		
First Semester		
HST 110	World Civilization I	3
ECO 113	Principles of Microeconomics	3
WRT 101	Critical Writing	3
COR 100	First Year Seminars: Transitions	3
BUS 150	Globalization in World of Differences	3
Credit Hours		15
Second Semester		
PHL 110	Introduction to Philosophy	3
HST 111	World Civilization II	3
ECO 114	Principles of Macroeconomics	3
Select one of the following:		3
MTH 120	Mathematics for Business Majors	
MTH 122	Brief Calculus	
MTH 123	Mathematics for Act Majors	
MTH 145	Calculus I	

Natural Science (p. 61)	3
Credit Hours	15
Sophomore Year	
First Semester	
ACT 203 Principles of Accounting I for Non-Accounting Majors	3
ENG 210 Major Authors	3
Theology (p. 61)	3
STA 201 Statistics I	3
RMI 210 Introduction to Risk Management and Insurance	3
Credit Hours	15
Second Semester	
ACT 204 Principles of Accounting II for Non-Accounting Majors	3
PHL 210 Moral Philosophy	3
STA 202 Statistics II	3
VPA Visual & Performing Arts (p. 61)	3
RMI 320 Enterprise Risk Management	3
Credit Hours	15
Junior Year	
First Semester	
ENG 310 Literature and Culture	3
IDS Interdisciplinary Studies (p. 61)	3
MIS 201 Introduction to Management Info Systems	3
LAW 200 Legal Environment of Business	3
RMI 350 Insurance & Reinsurance Company Operations	3
Credit Hours	15
Second Semester	
MKT 301 Principles of Marketing	3
FIN 301 Principles of Finance	3
ANL 301 Business Analytics	3
EAC Encountering Another Culture/Language (p. 61)	3
RMI 370 Property and Casualty Insurance	3
Credit Hours	15
Senior Year	
First Semester	
Religion (p. 61)	3
MGT 301 Organizational Behavior	3
Applied Ethics Elective ¹	3
RMI Specialization Elective	3
RMI Specialization Elective	3
Credit Hours	15
Second Semester	
COR 400 Senior Studies: Transformations	3
BUS 470 Business Policy	3
RMI Specialization Elective	3
RMI Specialization Elective	3
RMI Specialization Elective	3
Credit Hours	15
Total Credit Hours	120

¹ Applied Ethics course counts towards a Liberal Arts elective.

Dual Major (B.S.) in Risk Management and Information Systems

Dual Major (B.S.) in Risk Management and Information Systems

Code	Title	Credit Hours
Core Requirements (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
Theology (p. 61)		3
EAC Encountering Another Culture/Language (p. 61)		3
ENG 310	Literature and Culture	3
Mathematics (p. 61) ²		3
Social Science (p. 61) ³		3
IDS Interdisciplinary Studies (p. 61)		3
IDS Interdisciplinary Studies (p. 61)		3
Religion (p. 61)		3
COR 400	Senior Studies: Transformations	3
VPA Visual & Performing Arts (p. 61)		1
DIV Diversity (p. 61)		0
Management Core Requirements		
STA 201	Statistics I	3
STA 202	Statistics II	3
ACT 203	Principles of Accounting I for Non-Accounting Majors	3
ACT 204	Principles of Accounting II for Non-Accounting Majors	3
LAW 200	Legal Environment of Business	3
MIS 201	Introduction to Management Info Systems	3
MKT 301	Principles of Marketing	3
ANL 301	Business Analytics	3
FIN 301	Principles of Finance	3
MGT 301	Organizational Behavior	3
BUS 470	Business Policy	3
ECO 113	Principles of Microeconomics	3
ECO 114	Principles of Macroeconomics	3
Risk Management Requirements		
RMI 210	Introduction to Risk Management and Insurance	3
RMI 320	Enterprise Risk Management	3
RMI 350	Insurance & Reinsurance Company Operations	3

Select one of the following Risk Management or Insurance related electives: 3

RMI 370	Property and Casualty Insurance	
RMI 380	Life, Health and Annuities	
RMI 450	Underwriting and Brokerage	
RMI 460	Claims Processing	
RMI 470	Risk and Insurance Analytics and Trends	
RMI 167	Introduction to Cybersecurity	
RMI 250	Intermed Microeconomic Theory	
RMI 360	Intermediate Managerial Finance	
RMI 385	Risk Financing	
RMI 420	Strategic, Operational, Environmental Risk Management	

Information Systems Requirements

MIS 455	Managing the Technological Enterprise	3
MIS 460	Managing Systems Projects	3
MIS 480	Database Management Systems	3

Select one Information Systems elective from: 3

MIS 350	Accounting Information Systems	
MIS 450	Health Information Systems	
MIS 478	Financial Telecomm & Cybersecurity	

Liberal Arts Requirement
Applied Ethics Course

Students majoring in Risk Management and Insurance (RMI) must take one of the following courses to meet the Applied Ethics course requirement. Additional Applied Ethics courses may be added to the list of options in the future.

PHL 344	Environmental Ethics	
PHL 347	Crisis Ethics: War, Pandemic and Social Collapse	
PHL 349	Ethics and Public Policy	
PHL 359	Ethics of Medical Technology	

Liberal Arts Electives 5
Total Credit Hours 120

¹ Some Core requirements may be fulfilled by major requirements.

² Fulfilled by either MTH 120 Mathematics for Business Majors, MTH 122 Brief Calculus, MTH 123 Mathematics for Act Majors, or MTH 145 Calculus I.

³ Fulfilled by either ECO 113 Principles of Microeconomics or ECO 114 Principles of Macroeconomics.

Risk Management and Insurance Minor

The Risk Management and Insurance minor complements a student's major discipline with the knowledge and essential skills needed to effectively manage risks and devise and execute strategies to optimize business objectives; and to understand the insurance products that are available to mitigate certain key risks, the services provided by insurance companies, and the benefits of and costs of insurance to society. A risk management and insurance minor coupled with a student's major will provide graduates with a key differentiator and a more diverse range of career opportunities across a broad range of organizations.

The Risk Management and Insurance minor requires 15 hours of course work, plus two prerequisite courses for those students outside the Madden School. The prerequisite courses are ECO 113 Principles of Microeconomics and FIN 200 or 301 Introduction to Finance. These two courses are required as part of the Madden Core curriculum.

Code	Title	Credit Hours
Minor Requirements		
RMI 210	Introduction to Risk Management and Insurance	3
RMI 320	Enterprise Risk Management	3
RMI 350	Insurance & Reinsurance Company Operations	3
	Applied Ethics Course	3
Select one of the following electives:		3
RMI 167	Introduction to Cybersecurity	
RMI 250	Intermed Microeconomic Theory	
RMI 360	Intermediate Managerial Finance	
RMI 370	Property and Casualty Insurance	
RMI 380	Life, Health and Annuities	
RMI 385	Risk Financing	
RMI 420	Strategic, Operational, Environmental Risk Management	
RMI 450	Underwriting and Brokerage	
RMI 455	Managing the Technological Enterprise	
RMI 460	Claims Processing	
RMI 461	Financial Derivatives	
RMI 462	Managing Systems Projects	
Total Credit Hours		15

Risk Management Minor

The Risk Management Minor represents an interdisciplinary and multi-disciplinary approach that combines risk management courses across many of the disciplines in the College of Arts and Sciences. This unique blend of diverse risk management related courses allows students to obtain highly in-demand skills that help organizations manage crisis.

Students who obtain this minor will be able to demonstrate that they have the skills needed to plan and positively respond to future disasters. A risk management minor combined with the student's major will provide graduates with a key differentiator and a more diverse range of career opportunities.

Students desiring to earn a minor in Risk Management will need to complete three RM program common requirement courses and two RM specialization elective courses. These courses teach students how to identify risks, determine how risks get mitigated and the overall management of risks.

Code	Title	Credit Hours
Minor Requirements		
RMI 210	Introduction to Risk Management and Insurance	3
RMI 320	Enterprise Risk Management	3
RMI 420	Strategic, Operational, Environmental Risk Management	3

Select two of the following electives: 6

ANT 102	World Cultures
ANT 203	Anthropology of War
ANT 223	Global Crime
ANT 304	Anthropology of Refugees
BIO 225	The Poisoning of a Planet
BIO 365	Criminalistics for Biologists
BIO 409	Virology
BIO 410	Toxicology
BIO 412	Immunology
BIO 470	Seminar: Environmental Topics
BIO 481	Seminar: Endocrine Disruptors
CHM 311	Analytical Chemistry
CHM 320	Instrumental Methods of Analysis
CHM 322	Instrumental Analysis Lab
CHM 340	Environmental Chemistry
CHM 460	Biochemistry I
& CHM 462 and Biochemistry Laboratory	
CJS 101	Introduction to Criminology
CJS 220	The Criminal Justice System
CJS 223	Global Crime
CJS 226	Extreme Murder
CJS 225	Gangs and Criminal Community
CJS 305	Criminological Theory
CJS 351	Victimology
CMM 224	Environmental Journalism
CMM 250	Mass Media and Society
CMM 274	Reporting and Writing
CMM 320	Documentary Film
CMM 353	Government and the Mass Media
CMM 377	Introduction to Public Relations
CSC 346	Software Operating Environments
CSC 411	Introduction of Artificial Intelligence
CSC 441	Secure Software Development in Mobile And Cloud Environments
CSC 445	Networks & Cloud Secure Software Development
CYS 167	Introduction to Cybersecurity
CYS 421	Ethical Hacking and Digital Forensics
CYS 263	Introduction to Cybersecurity Risk and Protection Strategies
CYS 269	Introduction to Detection, Response, & Recovery Strategies
ECO 250	Intermediate Microeconomic Theory
FIN 405	Corporate Finance
FIN 460	Financial Derivatives
MIS 455	Managing the Technological Enterprise
MIS/MGT/ CSC 460	Managing Systems Projects
PSY 230	Motivation and Emotion
PSY 250	Cognition
PSY 315	Childhood Disorders
PSY 350	Health Psychology

PSY 404	Psychology of Decision Making
RMI 350	Insurance & Reinsurance Company Operations
SOC 101	Introductory Sociology
SOC 220	The Criminal Justice System
SOC 225	Gangs and Criminal Community
SOC 240	Social Welfare
SOC 241	Social Inequality
SOC 244	Race and Ethnic Relations
SOC 344	Gender and Society

Total Credit Hours 15

PURCELL SCHOOL OF PROFESSIONAL STUDIES

The Purcell School of Professional Studies offers outstanding programs at the undergraduate and graduate level in Nursing, Education, Physician Assistant Studies, Occupational Therapy, and an Ed.D. in Executive Leadership. The School also serves adult students and veterans through its Center for Continuing Education. Look closely at our offerings and discover a rich and successful future at Le Moyne College.

Mission

In alignment with the Le Moyne College vision and mission, Purcell prepares students with foundational and advanced knowledge and skills to serve others at the highest capacity in their chosen profession. Graduates are well educated to lead meaningful lives as individuals who are committed to lifelong learning, professional leadership, community engagement, respect for diversity and public service in the Jesuit tradition of excellence.

EDUCATION - UNDERGRADUATE

Chair: Wen Ma

Professor: Stephen Fleury, Cathy Leogrande, Wen Ma

Associate Professor: Cynthia C. Choi, Diane Zigo

Assistant Professor: Andrea L. Tochelli-Ward

Professor of Practice: Jennifer Kirchoff

Adjunct Faculty: Angela M. Alessandro, Kimberly Amidon, Thomas A. Bersani, Julie Blumer, Lauri P. Bousquet, Yaroslava D. Fichera, Jennifer Fragola, Lillivette Garcia, Lauren Massa, Kevin L. Michaud, Jennifer Olden, Maureen Patterson, Lisa E. Phinney, MaryBeth Piazza, Jeffery Sterly, Christine M. Wenk

Professor Emerita: Mary L. Collins, Patricia R. Schmidt

Professor Emeritus: Antonio M. Eppolito

The Education Department administers New York state registered programs for initial certification in TESOL (grades PreK-12, Childhood and Special Education (grades 1-6) and Adolescent Education (grades 7-12 in content areas and Special Education.

Le Moyne preservice teachers select a major in a subject matter, content area, while concurrently completing a rigorous program of teacher education. The workload is equivalent to that of a double major.

Mission Statement

The Le Moyne College Teacher Education Program prepares candidates to be skilled professionals willing to take risks and change in order to meet current and future demands of teaching. Le Moyne educators envision a better self and more just world and work locally and globally through our teaching for equity and success for all students. Our candidates and completers recognize that becoming and remaining highly qualified as educators requires curiosity and commitment to effort and inquiry as the basis for continuous growth.

The Le Moyne Teacher Education Program prepares and develops highly effective educators who use research-based knowledge and skills to help students learn. Le Moyne teachers frame their practice by understanding students and their learning. They develop, document, and teach lessons, and reflect upon the cyclical relationship among planning, instruction, and assessment with a focus on students' learning needs.

Applying To The Program

Students must formally declare education as part of their degree program by the end of sophomore year in order to complete the program in a timely manner. Application forms will be distributed through EDU 200.

Additional Academic Criteria for Education Students

1. Education students must earn a grade of B or better in all education courses in order to remain in the program.
2. If a grade of B- or lower is earned in any education course, a student must repeat the course. When this situation arises, the student will

be notified in writing regarding their status in the program. In certain cases the student will meet with the education chair to develop a plan for improvement.

3. A student will be allowed to repeat a course only once.
4. If a student receives a grade of B- or lower in any two education courses, he/she will be dropped from the education program.
5. All teacher candidates must have a minimum 3.0 cumulative average in their education courses, 3.0 cumulative average in their major and a minimum cumulative 3.0 G.P.A. at the time of application for student teaching.
6. All teacher candidates must earn 6 credits in each of the following: mathematics, science, history, world language and English. Students must earn a grade of C or better in each course.
7. All TESOL teacher candidates must also earn at least 12 credits of world language. Students must earn a grade of C or better in each course.
8. These certification programs and requirements are subject to change if modifications occur in New York State Education Department regulations.

New York State Initial Teacher Certification Requirements

For initial certification, students are required to earn passing scores on each New York State Teacher Certification Examination (NYSTCE):

- Educating All Students Test (EAS) *
- Content Specialty Test (CST) for each certification area *

*** Students in our initial certification programs must have passed EAS and all CSTs in order to be eligible to student teach.**

- Teacher Performance Test (edTPA) **

**** Must be completed during the student teaching semester.**

For initial certification, students are required to complete the following workshops:

- Childhood Abuse Identification
- Schools Violence Intervention & Prevention/SAV
- Autism Training
- Dignity for All Students Act (DASA)

Students must take complete responsibility for preparing for and complying with New York State Education Department mandated certification requirements.

Upon successful completion of all degree requirements, students will be eligible for recommendation by the Education Department Credentials Officer.

Certification programs and requirements are subject to change as modifications occur in New York State Education Department regulations.

Pass Rate

- 2019-2020 pass rate is 97%
- 2018-2019 pass rate is 92%

Procedures for Addressing Student Academic and/or Professionalism Concerns

Reasons for concerns include but are not limited to:

1. The students' GPA is below a 3.0 in education course work, 3.0 in major and/or below 3.0 overall.
2. The student has demonstrated evidence of unsatisfactory content knowledge.
3. The student has missed a deadline for turning in required program paperwork.
4. The student has demonstrated behaviors and/or dispositions that do not meet the expectations of the departmental Professionalism Standards as listed in each course syllabus.
5. The student has not completed the required number of practicum hours per semester.
6. The student received a grade B- or lower in an education course.
7. The process for student concerns is provided in the program's handbook, received through Taskstream.

Professional Practice Practicum

Each semester, Le Moyne students are required to complete field observation/practicum as a component of the teacher certification program. Students are required to complete fieldwork hours per New York State teacher certification regulations in urban, rural, and suburban settings.

Le Moyne College Education Department will arrange all practicum placements. Students are NOT allowed to make their own arrangements for observation/practicum.

The goal of the observation/practicum is to serve as a bridge between the educational theory and practice taught in courses and the reality of public and private school classrooms. With guidance of the host teacher, the Le Moyne student will experience aspects of classroom instruction.

Student Teaching

Student teaching candidates are required to complete an application prior to taking their methods course. During the methods semester, student teaching candidates are required to schedule time in both of their assigned field sites for a minimum of 20 hours at each site.

Le Moyne College Education department will arrange ALL student teaching placements. Students are NOT allowed to make their own arrangements for student teaching.

Students are required to student teach for one full semester. Candidates must successfully complete 2 **unpaid** student teaching sites in order to earn credit for both sites.

Student teachers follow the schedule of the schools in which they are placed.

No other courses may be taken during student teaching. Students are discouraged from participating in other activities, including employment and athletics, during the student teaching semester. If a student must participate in any outside activity, they must meet with the Department Chair before student teaching begins.

A Le Moyne College supervisor will be assigned to observe each student teacher on a weekly basis during the student teaching semester.

In order to be eligible to student teach, students must meet the following minimum criteria:

1. A G.P.A. of 3.0 or better in the Major, Education concentration, and overall respectively, at the time of application for student teaching
2. Grade of B or better in all education courses
3. Demonstrate evidence of professional commitment

Students who do not meet the criteria listed above must meet with the Department Chair in order to determine the course of action to be taken.

Le Moyne College Teacher Education Program Outcomes

Upon completion of the program, students will be able to:

1. Apply content, pedagogical and professional knowledge and skills to plan, enact, and reflect on differentiated and culturally responsive instruction and assessment in diverse learning environments.
2. Engage and adapt professional practices in a variety of education, cultural and community settings.
3. Implement a cycle of continuous growth by establishing goals, acting to implement and refine these goals and reflecting on outcomes in order to improve practice.
 - Childhood and Special Education (Grades 1-6) (p. 453)
 - Adolescence Education (Grades 7-12) (p. 453)
 - Inclusive Adolescence Education (Grades 7-12) (p. 454)
 - Teaching English to Speakers of Other Languages (TESOL) (p. 454)

Education (EDU)

EDU 200. Teaching in a Diverse Society. 3 Credit Hours.

This course provides an introduction to education and the profession of teaching in a democratic society. Teacher candidates explore historical, philosophical and sociological approaches to the study of education in the United States while examining cultural pluralism and its impact on the American system of education. teaching English to speakers of other languages, teaching students with disabilities and other aspects of our diverse society will be discussed. NOTE: Clinical field experiences are required. Only open to students seeking teacher certification. Fulfills Core Requirement(s): Diversity (DIV).

EDU 205. Childhood Learning and Special Needs. 3 Credit Hours.

This course is required of all students seeking New York state teacher certification in Childhood/Students with Disabilities. Students will view all children within a continuum of diversity for child learning, with acceptance for differences in learning styles and rates. A focus of the course will be on the history of special education within the larger context of American public schools. The course will also address characteristics and intervention strategies for students with special needs across the curriculum. Understanding family perspectives in child learning will be examined from an educational framework. Multiple intelligence theory will be explored. A required two-hour per week field experience in a local school will provide the setting to observe and work with students from diverse backgrounds.

Prerequisite: EDU 200.

EDU 215. Learning in a Sociocultural Context. 3 Credit Hours.

This is a required course for all teacher candidates preparing for the New York state certificate in Middle Childhood Specialist, Adolescence or Adolescence/Students with Disabilities, T.E.S.O.L., K-12, and Theatre Arts, K-12. The course will provide an overview of current knowledge on individuals with disabilities within the context of human growth and development across the lifespan. It will examine how children and youth develop and learn, and learn about the common delays in the normal mastery sequence of developmental skills as well as motivation and cognitive learning theories. The course will also cover a broad range of topics related to teaching students with disabilities including but not limited to: the various theoretical models and perspectives in the field of teaching special education; the kinds and nature of exceptionalities and special needs of children and youth; cultural and socioeconomic factors and their impact on eligibilities and programming for children and youth with disabilities; and the role of the family in the special education process. Students observe the application of these ideas in a required 20 hour field experience which will provide the setting to view and work with students from diverse backgrounds in either a local middle or high school.

Prerequisite: EDU 200.

EDU 300. Integrating STEM Research and STEM Instruction. 1 Credit Hour.

This class is designed to transform STEM research projects into appropriate secondary school lessons, and also teach pre-service teachers a variety of STEM discipline-specific instructional models and best practices. Through presentation of their research findings and lesson plans, aligned with the relevant Common Core State Standards and research-based teaching approaches, students in the course will be able to integrate discipline-specific research and standards-based school curriculum in their future teaching.

Prerequisite: Completion of discipline-specific research project, completion of student-teaching requirements, and approval by the instructors.

EDU 301. Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs. 3 Credit Hours.

This course prepares teacher candidates to integrate technologies in inclusive classrooms to provide differentiation and accommodations for students with special needs and culturally and linguistically diverse students. Teacher candidates will gain knowledge and skills related to integrate technology for culturally and linguistically diverse students in inclusive educational settings. The course will address the continuum of assistive technology devices, universal design for learning, use of technology for curriculum adaptation strategies, and alternatives for classrooms with limited technology. Note: Clinical field experience is required.

Prerequisite: EDU 205 or EDU 215.

EDU 302. Special Education Processes and Assessment for Equity & Inclusion. 3 Credit Hours.

The focus of this course is the legal procedures regarding the special education process. Teacher candidates at all grade levels and content areas are required to create inclusive classrooms in which all students can succeed. Activities and reading focus on Response to Intervention, multidisciplinary evaluations, Individualized Education Programs, 504 plans, and legal requirements for meeting the needs of all students through accommodations and modifications. Methods of formal and informal assessments and school-based intervention teams will be discussed. Note: Clinical field experience is required.

Prerequisite: EDU 205 or EDU 215.

EDU 303. Multicultural Literacy Methods. 3 Credit Hours.

The purpose of this course is to inform students about the foundations of literacy methods for adolescent literacy development in all secondary schools. The role of basic skills, such as phonics, vocabulary development, fluency, comprehension and the reading/writing connection will be analyzed in terms of adolescent literacy development. Additionally, the theoretical framework for the course is the sociocultural perspective, a perspective that sees home, school, and community as interrelated components that inform the development of reading, writing, listening, speaking, and viewing. As a result, there will be an emphasis on a clear understanding of diverse physical, cognitive, economic, linguistic, ethnic, and cultural diversity in rural, urban, and suburban schools. Furthermore, students will complete cultural self-analyses and cross-cultural analyses to learn the meanings of ethnocentrism, cultural conflict, and the importance of authentic literacy learning assignments. This course is also designed to assist students as they participate in service learning (tutoring and classroom observations), particularly in impoverished rural and urban schools. Finally, students will gather a bibliography of multicultural literature, materials, and resources, and create strategic plans for establishing classroom content area environments that connect home, school, and community for literacy learning. This course is required for students seeking New York state teacher certification in Adolescence (7-12), Adolescence/Students with Disabilities (7-12), and T.E.S.O.L. (Teachers of English to Students of Other Languages)(K-12).

Prerequisite: EDU 215.

Corequisite: EDU 315.

EDU 305. Principles & Methods of Multicultural Literacy. 3 Credit Hours.

This course is required of all students seeking New York state teacher certification in Childhood/Students with Disabilities, Middle Childhood Specialist and T.E.S.O.L. This course is designed to prepare preservice teacher (grades 1-12) for the implementation of culturally relevant literacy instruction for inclusive urban, suburban and rural settings. It also offers a training process for reading, writing, listening, speaking and viewing instruction for diverse learners, such as those students with physically handicapping conditions, students with special cognitive and emotional needs, and students learning English as a second language. Studies will alternate between the college classroom and two hours of weekly observations and participation in school classrooms. During the time in the college classroom, the focus will be on the learning and teaching of reading, writing, listening, speaking and viewing in light of theoretical perspectives and belief systems. In the school classrooms, the focus will be on students and teachers during the literacy learning process. In both settings, the preservice teacher/researcher, will explore and observe effective methods and materials including electronic texts and literacy learning computer programs; discussion and reflection will be encouraged and reported. Finally, there will be an emphasis on the use of multicultural literature across the curriculum.

Prerequisite: EDU 205.

Corequisite: EDU 315.

EDU 315. Plan, Assessing, Managing Inclusive Clsrm. 3 Credit Hours.

This course is required of all students seeking New York state teacher certification. Teacher candidates will become proficient in designing and analyzing curriculum, assessment techniques and curriculum materials with special emphasis on developing units of instruction and lesson plans. Students will learn to demonstrate effective instructional methods for students in inclusive settings. Specific teaching strategies that foster success along with strategies for management of behavior in inclusive classrooms will be presented. Field work experience in a school is an integral part of this course and students are expected to spend time each week in a school setting. Successful demonstration of teaching skills on a final videotape is required for formal acceptance into the Childhood and Special Education certification program.

Corequisites: EDU 205 or EDU 215.

EDU 325. Teach/Adapt Curric Content Specialists. 3 Credit Hours.

This course is required for all students seeking New York state certification in Adolescence and Dual Adolescence/Special Education. The focus of the course is on tools and strategies that can be used by special educators and general educators at the secondary levels to ensure appropriate curriculum planning, instruction and assessment for all students. The goal of this information is that strategies will be integrated in order to meet the various needs of all students in both general and special education settings. Emphasis will be placed on cooperative planning with a multidisciplinary team and on developmentally appropriate teaching strategies that are consistent with a student's cultural and ethnic environment. Various types of special needs will be addressed including disabling conditions; gifted, talented and creative children; limited English-proficient children; and cultural and ethnic minority children. Specific teaching strategies that foster success along with strategies for management of behavior in inclusive classrooms will be presented. Attention will be given to working with parents and ancillary personnel and making appropriate referrals. A required field experience in a local school will provide the setting to observe and work with students from diverse backgrounds. Recommended co-requisite: EDU 315.

EDU 335. Literacy Development in the Content Area. 3 Credit Hours.

This course is required of all students seeking New York state teacher certification in Middle Childhood Specialist, Adolescent, Adolescent/Students with Disabilities. Teachers in today's content area classrooms not only prepare and guide their students to learn key concepts and information, through reading, writing, listening, speaking, and viewing, but also, lead their students toward independent learning. These content area classroom settings, based on the constructivist approach, encourage inquiry learning and cooperative learning. In this course, using the constructivist perspective, future content area teachers will learn how to encourage students to learn through literacy activities. They will analyze the processes of connecting known information to new information, formulating questions, discussing issues, and discovering unique perspectives and possibilities. Diagnosis, evaluation and assessment of all students will be discussed especially through content area resources and materials including electronic texts and computer programs.

Prerequisites: EDU 303 and EDU 315.

EDU 345. Collabor&Transition Plan Stu Spec Needs. 3 Credit Hours.

This is a required course for all teacher candidates preparing for the New York state dual certificate in Adolescence/Students with Disabilities. The focus of the course is on the transition of individuals with mild and moderate disabilities to all aspects of adult life. Preservice teachers will be placed in a field placement.

Prerequisite: EDU 325 and EDU 335.

Corequisite: EDU 401.

EDU 355. Cultural Perspect Teach Lang Aquisition. 3 Credit Hours.

This is a required course for all teacher candidates preparing for the New York state certificate in Teaching English to Speakers of Other Languages. Using ethnographic research in education, preservice teachers will study classroom settings, (K-12), which are responsive to linguistically diverse groups of students. A major focus will be the observations, models and discussions of effective strategies for teaching the language arts to students learning English as a second language. Additionally, psychological, linguistic and cultural foundations for teaching linguistically diverse students will be examined in light of current trends in the education of language minority students. Finally, traditional materials and resources, as well as electronic texts and computer programs will be examined in light of their contributions to language acquisition.

Prerequisite: EDU 215.

EDU 365. Adapting Literacy Lrn Stu W/Spec Needs. 3 Credit Hours.

This course is required of all students seeking New York state teacher certification in Childhood/Students with Disabilities. This course will offer some of the approaches to the instruction of reading for students with disabilities. Principles of reading development will be explored as a foundation for all students followed by a sequence of instructional techniques for students with disabilities. Assessment and diagnosis of reading will be included. Students will become familiar with current research and practices in the field of reading instruction. A required two-hour per week field experience in a local school will provide the setting to observe and work with students from diverse backgrounds.

Prerequisites: EDU 305 and EDU 315.

EDU 375. Strategies for Teaching Content in Inclusive Classrooms (1-6). 3 Credit Hours.

This course instructs teacher candidates on how to transform the mandated standards in elementary content areas into instructional units. Teacher candidates review and apply current materials and research-based best practices to effectively plan, instruct and assess student learning in content areas in Grades 1-6. Clinical field experience in the two sites in which student teaching will occur is required.

Prerequisite: EDU 315; Corequisites: EDU 365 and EDU 376.

EDU 376. Managing Environ for Stu W/ Disabilities. 3 Credit Hours.

This course provides participants with research and best practices so as teachers they can best manage learning environments and student behaviors in the special education classroom as well as the inclusive classroom setting. Course content and assignments will include the theoretical foundations of classroom management, and effective techniques to provide physical, emotional, and social environments that are safe, supportive, and conducive to learning.

Prerequisite: EDU 315.

Corequisites: EDU 375 and EDU 365.

EDU 400. Middle School Strategies and Technology. 4 Credit Hours.

This course is required of all students seeking New York state certification as a Middle Childhood Specialist teacher. The course is designed to cover curriculum, instruction and assessment for students in various middle school content areas: English, mathematics, science, social studies, and languages other than English. It will focus on organization of content, assessment and management to effectively assist all students in meeting the New York state learning standard for their particular subject areas. Students will also attend a technology lab to assist them in integrating appropriate aspects of technology across their curriculum.

Prerequisite: EDU 326.

EDU 401. Adolescent Education Strategies & Technology. 4 Credit Hours.

This course is required of all students seeking New York state certification in Adolescent or Dual Adolescent/Students with Disabilities. The course is designed to cover curriculum, instruction and assessment for students in various high school content areas: English, mathematics, science, social studies, and languages other than English. It will focus on organization of content, assessment and management to effectively assist all students in meeting the New York state learning standard for their particular subject areas. Students will also attend a technology lab to assist them in integrating appropriate aspects of technology across their curriculum.

Prerequisites: EDU 315, EDU 325.

EDU 402. Meth Tch Esol Through Math/Sci/Soc Stud. 4 Credit Hours.

This is a required course for all teacher candidates preparing for the New York state certificate in Teaching English to Speakers of Other Languages. This course is designed to help preservice teachers learn the theoretical foundations and methods of communication necessary for the teaching and learning of English to speakers of other languages in the major content areas of mathematics, science, and social studies. Preservice teachers will write units of study in the content areas as well as practice writing and presenting lessons. Finally they will compile materials and resources that include electronic texts and computer programs which assist in the learning of English through content area material.

Prerequisites: EDU 303, EDU 305 and EDU 315.

EDU 405. Preservice Clinical Teaching Seminar. 3 Credit Hours.

This is a required course for all teacher candidates preparing for New York state teacher certification. The focus of this course is on reflection on field experiences prior to and during student teaching in order to raise tacit intuitive knowledge to a more conscious level. Classes will consist of discussions and group work, including analysis and discussion of case studies.

Prerequisite: EDU 375 or EDU 400 or EDU 401 or EDU 402.

EDU 430. Supervised Preservice Teaching (grades 1-6). 6 Credit Hours.

Teacher candidates who have successfully completed the prerequisite courses will begin teaching full-time in area schools. Each teacher candidate will fulfill a teaching experience in Grades 1-6. Teacher candidates will gradually assume all duties of the cooperating teacher, including instructional and non-instructional duties. Weekly evaluations will be completed by both the cooperating teacher, the college supervisor, and the preservice teacher.

Prerequisite: EDU 375 Corequisite: EDU 405.

EDU 431. Supervised Preservice Teaching (spe 1-6). 6 Credit Hours.

Teacher candidates who have successfully completed the prerequisite courses will begin teaching full-time in area schools. Each teacher candidate will fulfill a teaching experience in a special education setting Grades 1-6. Teacher candidates will gradually assume all duties of the cooperating teacher, including instructional and non-instructional duties. Weekly evaluations will be completed by both the cooperating teacher, including instructional and non-instructional duties. Weekly evaluations will be completed by both the cooperating teacher, the college supervisor, and the preservice teacher.

Prerequisite: EDU 375.

Corequisite: EDU 405.

EDU 450. Supervised Preservice Teaching (7-9). 6 Credit Hours.

Teacher candidates who have successfully completed the prerequisite courses will begin teaching full-time in area schools. Each teacher candidate will fulfill a teaching experience in Grades 7-9. Teacher candidates will gradually assume all duties of the cooperating teacher, including instructional and non-instructional duties. Weekly evaluations will be completed by both the cooperating teacher, the college supervisor, and the preservice teacher.

Prerequisite: EDU 401 or Corequisite: EDU 405.

EDU 451. Supervised Preserv Teaching (SPE 7-12). 6 Credit Hours.

Teacher candidates who have successfully completed the prerequisite courses will begin teaching full-time in area schools. Each teacher candidate will fulfill a teaching experience in a special education setting grades 7-12. teacher candidates will gradually assume all duties of the cooperating teacher, including instructional and non-instructional duties. Weekly evaluations will be completed by both the cooperating teacher, the College supervisor, and the preservice teacher.

Prerequisite: EDU 345 Corequisite: EDU 405.

EDU 460. Supervised Preservice Teaching (10-12). 6 Credit Hours.

Teacher candidates who have successfully completed the prerequisite courses will begin teaching full-time in area schools. Each teacher candidate will fulfill a teaching experience in Grades 10-12. Teacher candidates will gradually assume all duties of the cooperating teacher, including instructional and non-instructional duties. Weekly evaluations will be completed by both the cooperating teacher, the College supervisor, and the preservice teacher.

Prerequisite: EDU 401.

Corequisite: EDU 405.

Cross-listed Courses: EDU 460

EDU 470. Supervised Preservice Teaching TESOL (PreK - Grade 6). 6 Credit Hours.

Teacher candidates who have successfully completed the prerequisite courses will begin teaching full-time in area schools. Each teacher candidate will fulfill a teaching experience in TESOL settings (PreK-Grade 6). Teacher candidates will gradually assume all duties of the cooperating teacher, including instructional, and non-instructional duties. Weekly evaluations will be completed by both the cooperating teacher, the College supervisor, and the preservice teacher.

Prerequisite: EDU 402.

Corequisite: EDU 405.

EDU 471. Supervised Preservice Teaching TESOL (Grades 7-12). 6 Credit Hours.

Teacher candidates who have successfully completed the prerequisite courses will begin teaching full-time in area schools. Each teacher candidate will fulfill a teaching experience in TESOL settings (Grades 7-12). Teacher candidates will gradually assume all duties of the cooperating teacher, including instructional, and non-instructional duties. Weekly evaluations will be completed by both the cooperating teacher, the College supervisor, and the preservice teacher.

Prerequisite: EDU 402.

Corequisite: EDU 405.

Childhood and Special Education (Grades 1-6)

Le Moyne College offers students the opportunity to pursue a concentration in Childhood and Special Education (Grades 1-6) teacher certification within the following major programs:

- Biology
- Chemistry
- Social Studies: Economics, History, Political Science, or Sociology
- English (p. 228)
- French
- Math
- Philosophy
- Physics
- Psychology (p. 300)
- Religious Studies
- Spanish

For education course requirements for the Adolescent (Grades 7-12) program, please see the Typical Program. Contact the Education Department and the major's Department Chair for more information.

Course	Title	Credit Hours
Sophomore Year		
Fall		
Field experience required/minimum 20 hours		
EDU 200	Teaching in a Diverse Society	3
Credit Hours		3
Spring		
Field experience required/minimum 20 hours		
EDU 205	Childhood Learning and Special Needs	3
EDU 315	Plan, Assessing, Managing Inclusive Clsm	3
Credit Hours		6
Junior Year		
Fall		
Field experience required/minimum 20 hours		
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
Credit Hours		6

Spring

Field experience required/minimum 20 hours		
EDU 305	Prin & Methods of Multicultural Literacy	3
Credit Hours		3

Senior Year**Fall**

Field experience required/minimum 40 hours		
EDU 365	Adapting Literacy Lrn Stu W/Spec Needs	3
EDU 375	Strategies for Teaching Content in Inclusive Classrooms (1-6)	3
EDU 376	Managing Environ for Stu W/ Disabilities	3
Credit Hours		9

Spring

EDU 405	Preservice Clinical Teaching Seminar	3
EDU 430	Supervised Preservice Teaching (grades 1-6)	6
EDU 431	Supervised Preservice Teaching (spe 1-6)	6
Credit Hours		15
Total Credit Hours		42

Adolescence Education (Grades 7-12)

Le Moyne College offers students the opportunity to pursue the Adolescence Education (Grades 7-12) program in conjunction with the following major programs:

- Biology
- Chemistry (p. 168)
- Social Studies: Economics, History, Political Science, or Sociology (p. 122)
- English (p. 228)
- French
- Math (p. 239)
- Physics
- Spanish

For education course requirements for the Adolescence Education (Grades 7-12) program, please see the Typical Program. Contact the Education Department and the major's Department Chair for more information.

Course	Title	Credit Hours
Sophomore Year		
Fall		
Field experience required/minimum 20 hours		
EDU 200	Teaching in a Diverse Society	3
Credit Hours		3
Spring		
Field experience required/minimum 20 hours		
EDU 215	Learning in a Sociocultural Context	3
EDU 315	Plan, Assessing, Managing Inclusive Clsm	3
Credit Hours		6
Junior Year		
Fall		
Field experience required/minimum 20 hours		

EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
Credit Hours		3
Spring		
Field experience required/minimum 20 hours		
EDU 303	Multicultural Literacy Methods	3
EDU 325	Teach/Adapt Curric Content Specialists	3
Credit Hours		6
Senior Year		
Fall		
Field experience required/minimum 40 hours		
EDU 335	Literacy Development in the Content Area	3
EDU 401	Adolescent Education Strategies & Technology	4
Credit Hours		7
Spring		
EDU 405	Preservice Clinical Teaching Seminar	3
EDU 450	Supervised Preservice Teaching (7-9)	6
EDU 460	Supervised Preservice Teaching (10-12)	6
Credit Hours		15
Total Credit Hours		40

Inclusive Adolescence Ed (Grades 7-12)

Le Moyne College offers students the opportunity to pursue the Inclusive Adolescence Education (Grades 7-12) program in conjunction with the following major programs:

- Biology
- Social Studies: Economics, History, Political Science, or Sociology
- English (p. 228)
- French
- Math
- Spanish

For education course requirements for the Inclusive Adolescence Education (Grades 7-12) program, please see the Typical Program. Contact the Education Department and the major's Department Chair for more information.

Course	Title	Credit Hours
Sophomore Year		
Fall		
Field experience required/minimum 20 hours		
EDU 200	Teaching in a Diverse Society	3
Credit Hours		3
Spring		
Field experience required/minimum 20 hours		
EDU 215	Learning in a Sociocultural Context	3
EDU 315	Plan, Assessing, Managing Inclusive Clsrm	3
Credit Hours		6

Junior Year

Fall

Field experience required/minimum 20 hours		
EDU 301	Instructional Technology to Support Students With Cultural, Linguistic & Special Education Needs	3
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
Credit Hours		6

Spring

Field experience required/minimum 20 hours		
EDU 303	Multicultural Literacy Methods	3
EDU 325	Teach/Adapt Curric Content Specialists	3
Credit Hours		6

Senior Year

Fall

Field experience required/minimum 40 hours		
EDU 335	Literacy Development in the Content Area	3
EDU 345	Collabor&Transition Plan Stu Spec Needs	3
EDU 401	Adolescent Education Strategies & Technology	4
Credit Hours		10

Spring

EDU 405	Preservice Clinical Teaching Seminar	3
EDU 451	Supervised Preserv Teaching (SPE 7-12)	6
EDU 450 or EDU 460	Supervised Preservice Teaching (7-9) or Supervised Preservice Teaching (10-12)	6
Credit Hours		15
Total Credit Hours		46

Teaching English to Speakers of Other Languages (TESOL)

Le Moyne College offers students the opportunity to pursue a concentration in Childhood and Special Education (Grades 1-6) teacher certification within the following major programs:

- Biology
- Chemistry
- Social Studies: Economics, History, Political Science, or Sociology
- English (p. 228)
- French
- Math
- Philosophy
- Physics
- Psychology (p. 300)
- Religious Studies
- Spanish

For education course requirements for the Adolescent (Grades 7-12) program, please see the Typical Program. Contact the Education Department and the major's Department Chair for more information.

Course	Title	Credit Hours
Sophomore Year		
Fall		
Field experience required/minimum 20 hours		
EDU 200	Teaching in a Diverse Society	3
Credit Hours		3
Spring		
Field experience required/minimum 20 hours		
EDU 215	Learning in a Sociocultural Context	3
EDU 315	Plan,Assessing,Managing Inclusive Clsrm	3
Credit Hours		6
Junior Year		
Fall		
Field experience required/minimum 20 hours		
EDU 302	Special Education Processes and Assessment for Equity & Inclusion	3
Credit Hours		3
Spring		
Field experience required/minimum 20 hours		
EDU 305	Prin & Methods of Multicultural Literacy	3
EDU 325	Teach/Adapt Curric Content Specialists	3
or EDU 355	or Cultural Perspect Teach Lang Aquisition	
ENG 301	Advanced Grammar and Usage	3
ANT 300	Anthropological Linguistics	3
or WLC 301	or Anthropological Linguistics	
Credit Hours		12
Senior Year		
Fall		
Field experience required/minimum 40 hours		
EDU 335	Literacy Development in the Content Area	3
EDU 402	Meth Tch Esol Through Math/Sci/Soc Stud	4
Credit Hours		7
Spring		
EDU 405	Preservice Clinical Teaching Seminar	3
EDU 430	Supervised Preservice Teaching (grades 1-6)	6
EDU 450	Supervised Preservice Teaching (7-9)	6
or EDU 460	or Supervised Preservice Teaching (10-12)	
Credit Hours		15
Total Credit Hours		46

EDUCATION - GRADUATE

Chair: Wen Ma

Program Director: Linda S. Cerio (Education), Maureen Patterson (of Educational Leadership)

Professor: Stephen Fleury, Cathy Leogrande, Wen Ma

Associate Professor: Cynthia C. Choi, Diane Zigo

Assistant Professor: Andrea L. Tochelli-Ward

Professor of Practice: Jennifer Kirchoff

Adjunct Faculty: Angela M. Alessandro, Robert Anderson, Thomas A. Bersani, Lauri P. Bousquet, Linda S. Cerio, Mary Colagiovanni, Elizabeth Connors, Daniel Dupee, Robert Edwards, James Evans, Yaroslava D. Fichera, Mary Beth Fierro, Elizabeth Fleury, Jennifer Fragola, Lillivette Garcia, Geri Geitner, Jeffrey Gordon, Jeff Hendrickson, Douglas Kazacos, David Lunden, Lauren Massa, Kevin L. Michaud, Donna Marie Norton, Colleen A. O'Connor, Jennifer Olden, Maureen Patterson, Karl Seckner, Michele Traynor, Donna M. Zeolla

Professor Emerita: Mary L. Collins, Patricia R. Schmidt

Professor Emeritus: Antonio M. Eppolito

Through scholarship, teaching and service, the education department at Le Moyne College is a learning community in the Jesuit tradition dedicated to preparing and inspiring teacher leaders who practice participatory democracy and social justice in their classrooms and schools.

Admission Criteria for Teacher Preparation Programs

After completion of the admission file, application materials will be evaluated by the Graduate Education Admission Committee. The committee will review and evaluate the application based on a combination of the following criteria:

1. Academic achievement (minimum GPA of 3.0 in undergraduate studies)
2. Submission of Graduate Record Examination (GRE) scores OR Miller Analogies Test (MAT)
3. International students should submit TOEFL or IELTS scores.
4. Potential to be successful in graduate study
5. Potential to meet the Le Moyne program standards.
6. Six credit hours of appropriate content preparation to fulfill New York state teacher certification requirements in each of the following: mathematics, science, social studies, English and foreign languages.
7. Proof of initial certification prior to the end of their first semester (for students applying to the **M.S.Ed.** program). Students may not continue taking courses until such documentation is provided.

Application Requirements

Prospective Masters of Science for Teachers (M.S.T.) students:

- seek a pre-admission advisement meeting with Education department **prior** to applying to the program

Prerequisites for all three MST programs:

- 6 credits in each: English, foreign language, history/social studies, mathematics, and science

Prerequisites for: Inclusive Adolescent/student with disabilities grades 7-12

- 30 credits in content certification credits

Prerequisites for: Teaching English to Speakers of Other Languages (TESOL)

- 12 credits foreign language

Prospective graduate students must submit:

- an application packet online (<http://www.lemoyne.edu/Apply/Graduate-and-Professional-Admission/Application-Checklist-Education/>)
- two letters of recommendation from two professionals and/or academic advisors who can attest to your ability to be successful in a graduate program
- current resume
- a statement of purpose for undertaking graduate work in education, criteria will be provided on the application.
- official transcripts of **all** previous academic work be sent to the Office of Graduate Admission. The Office of Graduate Admission will include a transcript for current Le Moyne students and alumni
- students **entering a M.S.Ed. program** are required to have earned a passing score on each New York State Teacher Certification Examination (NYSTCE) for initial certification
- advisement appointment with Education department

New York State Initial Teacher Certification Requirements

For initial certification, students are required to earn passing scores on each New York State Teacher Certification Examination (NYSTCE):

- Teacher Performance Test (edTPA)
- Educating All Students Test (EAS)
- Content Specialty Test (CST) for each certification area

Pass Rate

- 2019-2020 pass rate is 97%
- 2018-2019 pass rate is 92%
-

Workshops:

- Childhood Abuse Identification
- Schools Violence Intervention & Prevention/SAVE
- Autism Training
- Dignity for All Students Act (DASA)

It is the student's responsibility to prepare for and comply with New York State Education Department certification requirements.

Upon successful completion of all academic degree requirements, students will be recommendation by the Education Department to New York State. It is the student's responsibility, however, to successfully

complete all New York State workshops, tests and fingerprinting in order to become certified in New York State.

Certification program requirements are subject to change as modifications occur in New York State Education Department regulations.

Student Classifications

Admitted – graduate students who have fulfilled all the entry requirements and have been accepted as candidates for a master's degree with full graduate status as described in the official letter of acceptance.

Conditionally admitted – in some cases, students whose application does not meet the criteria for full admission, but can otherwise demonstrate the potential to successfully complete graduate courses, may be conditionally admitted for up to six credits at the discretion of the department Chair. Their status will be reviewed and a decision will be made regarding their full admission.

Non-degree – Teachers who hold a valid New York State teaching certificate may also take graduate courses for professional development following advisement with the department Chair or Director.

Academic Criteria

Transfer Credit Policy

The director of the graduate education program has the authority to transfer courses, and accept substitute courses within the degree program. Under no circumstance will more than nine credits be accepted.

Term Limit for Completion

Master's degree students must complete all requirements within five calendar years from the date of matriculation. Students must complete a minimum of six credits per academic year to maintain their matriculated status.

Students may request in writing an extension for extenuating circumstances.

Probation and Termination

Graduate students earning a quality point index of less than 3.0 are placed on academic probation.

M.S.T. students earning below a B in an education course must meet with the Director of Graduate Education and Chair to determine continuation within the program.

M.S.Ed. students who earn a C in more than two courses must meet with the Director of Graduate Education and Chair to determine continuation within the program.

Withdrawal or Leave of Absence

For personal or medical reasons, a student may voluntarily discontinue enrollment at the College by requesting either a leave of absence (temporary) or a withdrawal from the College (permanent).

A leave of absence is a temporary hiatus from the College with the intent to return after a specified period of time. Students requesting a leave of absence must indicate when they plan to return to their studies. The total time away from the College cannot exceed two consecutive semesters. A student may not take matriculated coursework at another institution while on a leave of absence. To be eligible to return from a leave of absence, the student must demonstrate readiness to return by satisfying

all requirements for return. If a student does not return from a leave of absence at the scheduled time, the student will be administratively withdrawn from the College and must apply for readmission.

A withdrawal is a permanent separation from the College. A student who has withdrawn must apply for readmission to the College if the student wishes to re-enroll. Students withdrawing from a graduate Purcell program will be contacted by a Purcell administrator for a brief exit interview.

A student may request a personal or medical leave of absence or a withdrawal by completing the Purcell Graduate Leave of Absence/ Withdrawal Form available through their department. A student requesting a leave of absence or withdrawal will meet with a designated program official to discuss the academic and financial implications of their decision. The designated program official will also discuss the requirements for return if a student is taking a leave of absence.

If the request for a personal or medical leave of absence/withdrawal is approved for a future semester, then the student may remain enrolled in and receive grades for the current semester. The student will have a hold on future registration until the conditions of return have been met. If the request for a personal or medical leave of absence/withdrawal is approved for a current semester, then depending on the academic calendar and personal circumstance the program director or chair can determine the most appropriate resolution for the student's enrollment. The student may not take a leave of absence and remain enrolled in the students coursework if the leave of absence is for the current semester.

The College may require a student to take a medical leave of absence or withdrawal if, in the judgment of the College, the student poses an imminent threat to the lives, safety or well-being of themselves or other members of the college community (including preceptor and internship settings).

Except in unusual circumstances where safety is of immediate concern, the College will make a decision to involuntarily withdraw a student only after providing the student with advance notice and an opportunity to meet with Purcell officials.

In cases of both medical leaves of absence and withdrawals, the tuition refund policies specified in the Le Moyne College Catalog apply.

Education Programs

The following graduate education programs are available at Le Moyne College: Master of Science for Teachers (M.S.T), Master of Science in Education (M.S.Ed.).

The Master of Science for Teachers (M.S.T.) is designed for students who have completed baccalaureate degrees, but who did not pursue teacher education as an undergraduate student. For these graduate students, the M.S.T. will provide both a preservice teacher competency program and a graduate level program leading to in-service teacher proficiency. The program (M.S.T.) will graduate highly effective teachers in inclusive childhood (grades 1-6), adolescent/special education (grades 7-12), and TESOL (teaching English to speakers of other languages Pre K-12).

In all phases of the M.S.T. program, students will increase their knowledge; acquire skills and competencies in teaching and research; master educational theory and practice; gain understanding of the interaction among schools, community and social agencies and gain competence in using technology to enhance learning.

The Master of Science in Education I (M.S.Ed.) is designed for students who currently hold a valid certification and are seeking professional certification in the same field. This program will extend and increase the competence of the graduate teacher in education, provide effective preparation for the specialized teacher and establish a foundation for continued research and study in education throughout the career of a teacher. This degree program will fulfill one of the requirements for professional certification in New York state in the following areas: childhood education, adolescent education and special education.

The Master of Science in Education II (M.S.Ed.) is designed for students who currently hold a valid certification and are seeking professional certification in a different certification area. This degree program will fulfill one of the requirements for professional certification in the following areas: childhood education, adolescent education, special education, literacy and TESOL (Teaching English to Speakers of Other Languages).

The Master of Science in Education I (General Professional Education) degree is available to students who are seeking advanced study in education but not K-12 certification. The degree program is individualized based on student career goals. This program may also prepare students to apply for professional certification for individuals who currently hold initial certification in special content areas (such as music, art and physical education).

The M.S.Ed. program is committed to the following outcomes: demonstrated mastery in the breadth and depth of content; increased knowledge of the teaching/learning process; advanced skill in teaching strategies; sophisticated use of technological resources and recognition of the need for, and demonstrated effectiveness of, research to improve schools.

Requirements for completing the courses in the M.S.Ed. degree programs will include:

1. texts/readings using original sources;
2. written work that will emphasize research, model programs, etc.;
3. requirements that include developing model programs, restructuring curriculum, reorganizing a class/school and
4. in-depth readings of futures studies with additional original ideas.

Professional Practice Clinically Rich Field Experience Requirement (Practicum)

Preservice teachers in the Le Moyne College NYSED registered teacher preparation programs that lead to initial certification are required to complete clinical field experiences/practicum in classrooms during each semester. Certification regulations require 100 hours of field work in the content areas and grade levels related to the specific certifications sought.

In addition to certification requirements, practicum is also a program requirement. Each course includes assignments that are directly related to field experience so students can develop professional knowledge and skills over time.

Practicum placements serve as opportunities for preservice teachers to connect content and skills from courses to realities of classrooms and K-12 students. All practicum placements are made through Le Moyne College. Every attempt is made to provide a range of experiences in

urban, suburban and rural schools. Students may not make their own practicum arrangements.

During the semester preceding student teaching, students are placed in their two student teaching sites and must complete 20-25 hours in each site (40-50 hours total) regardless of their total number of hours already completed. Student who work during the day must make arrangements to complete this requirement.

Student Teaching

M.S.T. students are required to student teach for one full semester. Candidates must successfully complete 2 **unpaid** student teaching sites in order to earn credit for both sites.

Student teachers follow the schedule of the schools in which they are placed. Students are discouraged from participating in other activities, including employment and athletics, during the student teaching semester. If a student must participate in any outside activity, the student must meet with the director of the graduate education program and chair of the Education department prior to the student teaching semester.

No other courses may be taken during student teaching semester.

The Le Moyne College Education department will arrange all student teaching placements. Students are not allowed to make their own arrangements for student teaching. Every effort is made for student teachers to experience urban, suburban and rural settings. A Le Moyne College supervisor will observe the student teachers weekly and mentor their development.

Student teaching candidates are required to complete an application prior to taking their methods course. During the methods semester, student teaching candidates must complete a minimum of 20* hours of clinical practice at each site. This will provide the student teaching candidates with an opportunity to familiarize themselves with the buildings in which they will teach and to forge a collaborative relationship with their cooperating teachers and students in preparation for the student teaching semester (that may or may not extend beyond the College's academic calendar).

- * subject to change - NYSED has proposed an increase in the number of clinical practice hours required

In order to be eligible to student teach, students must meet the following criteria:

1. Overall graduate G.P.A. of 3.0 or better at the time of application for student teaching
2. Meet the application deadline for student teaching; distributed end of spring semester
3. Demonstrate evidence of professional commitment
4. Earn a grade of B or better in all education courses

Students who do not meet the criteria listed above must meet with the Chair of the Education department in order to determine the course of action to be taken.

Internships

Internships are required for students who hold a valid New York State certificate and wish to add one or more additional certificate. Internships allow students to better prepare for the professional demands of the new certification areas. For the Literacy programs, two internships of 25 hours are required in specific settings. All internships are arranged through Le

Moyné College in consultation with students. Students who work during the day must make arrangements to complete this requirement.

Le Moyne College Teacher Education Program Outcomes

Upon completion of the program, students will be able to:

1. Apply content and pedagogical and professional knowledge and skills to plan, enact, and reflect on differentiated and culturally responsive instruction and assessment in diverse learning environments.

2. Engage in and adapt professional practices in a variety of education, cultural and community settings.

3. Implement a cycle of continuous growth by establishing goals, acting to implement and refine these goals and reflecting on outcomes in order to improve practice.

- Master of Science in Education I (p. 470)
- Master of Science in Education II (p. 471)
- Master of Science for Teachers (p. 472)
- Educational Leadership Programs (p. 473)

American Sign Language (ASL)

ASL 330. American Sign Language I. 3 Credit Hours.

This course is designed for those with no previous knowledge of American Sign Language (ASL). It will introduce learners to the basics of grammatically correct ASL and communication techniques used within the Deaf community. Conversational skills will focus on asking and answering questions, exchanging personal information and talking about everyday activities. This course will present an overview of the various customs, norms, and traditions within Deaf culture. This course may not satisfy foreign language requirements at Le Moyne College. However, this course can be applied toward the language requirements for New York State teacher certification.

ASL 331. American Sign Language(ASL)II. 3 Credit Hours.

This course expands the principles mastered in ASL I. It provides a more complete understanding of the language as it is used in conversation with an emphasis on vocabulary, grammar, and syntax. It will introduce the use of discourse strategies in ASL including: classifiers, use of space, appropriate choice of register and clear transitions between ideas. ASL II teaches the learners to use cultural protocols, ASL grammar for giving direction, describing family, occupations and attributing qualities to others. This course may not satisfy the foreign language requirements at Le Moyne College. However, this course can be applied toward the language requirements for New York State teacher certification.

Graduate Education (EDG)

EDG 504. Crit Issues/Teach Diverse Populations. 3 Credit Hours.

This course provides an overview of major issues and trends in the education of persons with exceptionalities, including the issues associated with special programs, such as educational placement and the national trend of inclusion. The course also discusses critical issues in special education which includes a historical review of policy, law and practice. Emphasis will be placed on current information of educational practices, up to date research on prevalence, current legislation and models of programs.

EDG 505. Found Hum Dev & Lrn in Cultural Contexts. 3 Credit Hours.

This course is required of all students seeking New York State Certification. In this course, we examine, analyze, and develop theories-yours and others-of how humans develop and learn. As we will discover, the predominance of psychological theories in education serving as the "knowledge base" of teacher preparation is partly accountable for the genetic fallacy under girding contemporary beliefs and practices of teaching, learning, and school reform. It is for this reason that our emphasis of study is on the social, cultural, and political context within which learning takes place, and on the rapid changes occurring in our understanding of mind, thinking, and learning, especially as they pertain to students' abilities and needs.

Cross-listed Courses: EDG 520

EDG 508. Connecting Video Games, Teaching, Learn. 3 Credit Hours.

This course will examine the pedagogy of games and the potential applications of the teaching and learning strategies found in these informal, out-of-school settings to the content of classrooms. Participants will examine the concepts of motivation and play, and how it is possible (as game designers have) to make learning so challenging and fun that students spend hours engaging in the activity. Throughout the course, participants will explore board games, card games, video games and online games.

EDG 510. Research Found: Teaching & Sch. 3 Credit Hours.

This initial course establishes an inquiry framework for the students' continuous pedagogical development in the program. Shaping educational dispositions positively towards systematic inquiry, it simultaneously provides experience and guidance with skills and knowledge for effectively analyzing, reflecting upon, and modifying teaching behavior and knowledge of education. Through designing and conducting a series of step-by-step research studies, students examine empirically and conceptually three foundational educational topics--strategic questioning, classroom management, and the sociopolitical purposes of education.

EDG 515. Special Education Process and Legalities. 3 Credit Hours.

Students will gain essential knowledge and skills necessary to appropriately identify, assess and instruct students with educational disabilities in various setting on the continuum of service. Topics include categories of disabilities, components of multidisciplinary evaluations, and development of IEPs and ways to foster positive parent collaboration. Assessments studied include norm-referenced tests, diagnostic and screening instruments, and curriculum-based tools. Students will demonstrate ability to carry out their professional roles and responsibilities related to special education laws, regulations and processes.

EDG 520. Developmental Planning I: Teaching & Planning. 3 Credit Hours.

Two essential questions guide the course. Through what processes and mechanisms do the young (students) become more knowledgeable? How can the old (teachers) most effectively select and order learning experiences to best enable the young to become knowledgeable? It is for this reason that our emphasis of study is on the social, cultural and political contexts within which teaching and learning occur, and on mindfulness as both a prerequisite for teaching and goal for learning. Cross-listed Courses: EDG 505

EDG 521. Teaching Learning Today's Secondary Schl. 3 Credit Hours.

This course is an examination of those principles and practices that have shaped American education and instruction with an emphasis on interdisciplinary study of subject matter for tomorrow's student. Emphasis will be placed on: adolescent development from middle school to senior high perspective, learning theory and current approaches in instruction for a diversified student population.

EDG 525. Development Planning II: Applications. 3 Credit Hours.

Students will learn to demonstrate effective instructional and assessment methodologies for students in inclusive settings. Through weekly analyses, presentations and applications, teacher candidates will become proficient at analyzing educational goals and objectives and in constructing and adapting appropriate and flexible learning experiences for diverse learners to develop intended skills and knowledge. Field work experience in a school is an integral part of this course, with successful demonstration of teaching skills in videotaped lessons required.

EDG 530. Childhood Literacy I. 3 Credit Hours.

Effective literacy instruction requires incisive understanding and precise application of teaching methodologies for reading, writing, listening and speaking. Students will examine and practice research-based methods for teaching literacy with a focus on running records, miscue analysis, classroom literacy environments, writing instruction, and appropriate applications for learners in diverse settings and backgrounds.

EDG 531. Adolescent Literacy I. 3 Credit Hours.

Students will develop a foundational repertoire of research-based instructional strategies for strengthening their adolescent students' literacy skills needed for success in all content areas. Particular attention is paid to the areas of phonemic awareness, decoding, comprehension, and vocabulary instruction in relation to a variety of academic texts and related materials. Students will gain experience in applying these literacy strategies to meet the needs of diverse learners.

EDG 550. Pedagogical Content Knowledge. 3 Credit Hours.

Instructional planning always exists within a larger framework of curricular theory and practice, state and discipline-specific standards, and educational contexts. In this course, students will integrate their developing planning skills with the expectations of larger frameworks of professional practice. They will demonstrate the ability to analyze, evaluate, and design effective instruction and assessments that are fully aligned with learning theory as well as state and national standards. Prerequisite: EDG 525.

EDG 555. Instructional Technology for the Inclusive Classroom. 3 Credit Hours.

This survey course prepares preservice teachers to integrate technologies for educational purposes in inclusive classrooms with a wide variation of abilities and needs. Teacher candidates will consider technology tools that allow higher order thinking, problem solving, and global access to information. Topics include assistive technology devices and software, technology for curricular adaptation and assessment, and strategies to maintain professional learning through technology.

EDG 556. Intensive English Grammar & Usage for Teachers. 3 Credit Hours.

This course enables educators to use the English language to greater effect through the intensive study of its grammar, including the parts of speech and the parts of sentences (syntax). Educators will become proficient in identifying and using grammatical forms as they examine sentences from a variety of contexts, paying close attention to rhetoric and diction. The course includes a research project on a grammatical issue that addresses implications for teaching.

EDG 560. Childhood Literacy II. 3 Credit Hours.

This course continues to develop preservice teacher (Grades 1-6) knowledge of instruction and assessment for inclusive environments. The course's focus is on reading comprehension and implementation of lessons and units of study in classrooms. Assessment data will be evaluated for evidence of student learning and areas for development. Understanding and developing content area reading and writing, specifically social studies and science, is also a focus. The course also discusses instructional approaches for students with disabilities.

EDG 561. Adolescent Literacy II. 3 Credit Hours.

Middle and secondary student success depends on their ability to acquire and demonstrate academic literacy skills across a range of disciplines. In this course, students will develop an expanding professional knowledge base of effective literacy practices in reading, writing, listening, speaking, and viewing. Students will demonstrate the ability to design literacy-rich instructional plans that help adolescents achieve state and national learning standards in diverse academic disciplines and classroom contexts.

EDG 570. Pedagogical Methods Content Areas (grades 1-6). 3 Credit Hours.

This course is required of all students seeking dual New York State certification in Childhood/Students with Disabilities (grades 1-6). In this course, students will learn to transform the core content knowledge in mathematics, science and social studies into teachable instructional units. Students will review and evaluate current materials used to teach these content areas at the elementary level. Students will learn to integrate curriculum and to incorporate skills such as writing and speaking within the instruction and assessment of content. Students in this course are expected to demonstrate scholarship at the graduate level by integrating the topics presented into their ongoing research portfolio. Prerequisite: EDG 525.

Corequisites: EDG 560 and EDG 571.

Cross-listed Courses: EDG 575

EDG 571. Managing Inclusive Environment: Differentiation and Adaptations. 3 Credit Hours.

This course provides participants with research-based strategies to effectively create classrooms in which students with disabilities and other struggling students can achieve academic success. Course content and assignments include implementation of planning, instruction and assessment based on the specific mandated legal procedures of special education regulations. Topics include research-based best practices for differentiation, adaptations and modifications for all aspects of instruction and development and monitoring of IEPs and other required documentation.

EDG 575. Pedagogical Methods for Content Area Teachers (grades 7-12). 3 Credit Hours.

This course emphasizes the development of research-based curriculum, instruction and assessment in specific content areas Grades 7-12. Preparing for full-time teaching, students will work in two clinical field sites to apply and practice techniques to critically evaluate, select and transform core content concepts, knowledge and skills in subject areas into contiguous instructional experiences in so that their learners achieve and exceed mandated learning standards. Topics include student-centered learning activities, curriculum implementation and student learning assessment. Prerequisite: EDG 525.

Cross-listed Courses: EDG 570

EDG 576. Strategies & Methods for Special Educations Services (grades 7-12). 3 Credit Hours.

This course provides participants with research-based strategies to effectively implement IEP-driven instruction across the spectrum of service available for students with disabilities Grades 7-12. Course content and assignments include implementation of planning, instruction and assessment based on the specific mandated legal procedures of special education regulations. Topics will include effective instruction in primary and supplemental settings, as well as diploma options and post-secondary issues. Also addressed are co-teaching, modifications for all aspects of instruction, development and monitoring of IEPs and other required documentation.

EDG 577. Linguistics & Language Acquisition for K-12 Teachers. 3 Credit Hours.

This course focuses on linguistic perspectives for effective teaching of English language learners (ELLs), including phonology, morphology, syntax, semantics, discourse and pragmatics. The course emphasizes a conceptual framework that includes sociolinguistics and psycholinguistics concepts in teaching and learning of English as a second language. Teacher candidates are required to complete a 30-hour field placement in an elementary or secondary school to learn alongside an experienced English as a New Language (ENL) teacher. This course is the second of two required literacy methods courses for all teacher candidates seeking the New York state certification in TESOL.

EDG 578. Pedagogical Methods of Teaching Literacy To English Learners. 3 Credit Hours.

This course examines the adaptation and implementation of specific literacy methods of teaching listening, speaking, reading, and writing to English language learners (PreK-12). The core foundation of this course is a comprehensive integration of practices, principles, and research-based instructional strategies for helping English language learners develop literacy skills in English and across the curriculum (mathematics, science, social studies, language arts, and other appropriate content areas). Teachers will learn how to plan, manage, assess, and implement classroom instruction for English language learners in a sheltered and inclusive classroom setting. Teacher candidates are required to complete a 30-hour field placement in an elementary or secondary school to learn alongside an experienced English as a New Language (ENL) teacher.

EDG 580. Supervised Preservice Teaching (grades 1-6). 3 Credit Hours.

Teacher candidates successfully completing the prerequisite courses and competencies for the New York State certificate in Childhood/Students with Disabilities (1-6) will begin full-time teaching in an area elementary classroom for seven weeks. A signed contract between the candidate and cooperating teacher assures timely and appropriate induction into full-time responsibilities. Support and constructive guidance for professional growth is further enhanced through weekly formative evaluations completed by the cooperating teacher, college supervisor, and teacher candidate.

EDG 581. Supervised Preservice Teaching/SWD (grades 1-6). 3 Credit Hours.

Teacher candidates successfully completing the prerequisite courses and competencies for the New York State certificate in Childhood/Students with Disabilities (1-6) will begin full time teaching in an area elementary classroom with students with disabilities for seven weeks. A signed contract between the candidate and cooperating teacher assures timely and appropriate induction into full-time responsibilities, with professional growth enhanced by weekly formative evaluations completed by the cooperating teacher, college supervisor, and teacher candidate.

EDG 585. Supervised Preservice Teaching (grades 7-12). 3 Credit Hours.

Teacher candidates preparing for the New York State Dual Certificate in Adolescence Students with Disabilities (7-12) undertake full-time teaching in a secondary classroom in their area of content certification for seven weeks. A signed contract between the candidate and cooperating teacher assures timely and appropriate induction into full-time responsibilities and weekly formative evaluations by the cooperating teacher and college supervisor provide supportive, constructive guidance for professional growth.

EDG 586. Supervised Preservice Teaching/Swd (grades 7-12). 3 Credit Hours.

Teacher candidates preparing for the New York State Dual Certificate in Adolescence/Students with Disabilities (7-12) undertake full-time teaching in a secondary classroom with learners with special needs under the supervision of a certified practicing teacher and college supervisor. A contract between the candidate and cooperating teacher assures appropriate induction into full-time responsibilities, and weekly, formative evaluations by the cooperating teacher and college supervisor ensures constructive guidance for the teacher candidate.

EDG 587. Supervised Preservice Teaching/TESOL (grades Prek-6). 3 Credit Hours.

This is a required course for all teacher candidates preparing for the New York State certificate in T.E.S.O.L. (Pre K-12). Teacher candidates who have successfully completed the prerequisite courses and competencies will begin teaching full time in an area school ESL classes. Each teacher candidate will fulfill a teaching experience in an ESL classroom (Grades Pre K-6) A signed contract between the candidate and the supervising teacher ensures a gradual induction into the field of teaching. Weekly evaluations will be completed by both the cooperating teacher, the college supervisor, and the preservice teacher.
Prerequisites: EDG 561, EDG 577 and EDG 578.

EDG 588. Supervised Preservice Teaching TESOL 7-12. 3 Credit Hours.

This is a required course for all teacher candidates preparing for the New York State certificate in T.E.S.O.L. (Pre K-12). Teacher candidates who have successfully completed the prerequisite courses and competencies will begin teaching full time in area school ESL classes. Each teacher candidate will fulfill a teaching experience in an ESL classroom (Grades 7-12). A signed contract between the candidate and the supervising teacher ensures a gradual induction into the field of teaching. Weekly evaluations will be completed by both the cooperating teacher, the college supervisor, and the preservice teacher.
Prerequisite: EDG 561, EDG 577, EDG 578.

Corequisite: EDG 595.

EDG 590. Independent Study. 1-6 Credit Hours.**EDG 595. Preservice Clinical Seminar. 3 Credit Hours.**

This clinically-based seminar accompanies student teaching to provide professional support and direction in establishing the continuing refinement and growth of professional teaching competencies. In addition to completing an in-depth performance-based portfolio analysis of their instructional decision-making, teacher candidates will be provided supplemental certification and job seeking information. Available to Le Moyne student teachers only, this course is necessary for New York State certification/licensure.

EDG 600. Literacy Learning & Composing Process. 3 Credit Hours.

This course is designed to provide educators with a thorough overview of literacy theories and practices as they relate to writing instruction and assessment. The role of literacy development as it relates to the multiple purposes for writing will be experienced first hand. Teachers will study the relationships between reading and writing as a tool for learning, reading as a model for writing, and assignment design. Furthermore, teachers will experience strategies to support all stages of the composing process, approaches to assessment, teaching grammar in the context of writing, publishing student work, and preparing students for high-stakes testing. *Field experiences required.
Cross-listed Courses: EDR 600

EDG 601. Diagnosis, Remediation and Collaboration For Literacy Learning. 3 Credit Hours.

This course begins with the study of theories regarding brain development and literacy learning. Based on this information teachers in teams and pairs will have opportunities to become familiar with a wide variety of literacy testing materials for all ages and stages of human literacy development. Critiques of these materials will be encouraged as they learn to interpret and evaluate. Additionally, they will practice administration of testing materials and attempt to match their interpretations and recommendations with materials and strategies for successful corrective, compensatory, and remedial instruction. Therefore, the goal is to acquire greater proficiencies in creating literacy environments and teaching all aspects of literacy acquisition, such as phonemic awareness, vocabulary skills, study and comprehension strategies, etc. (This course is a prerequisite for the supervised community literacy center internship and enrollment must occur during the semester prior to the supervised community literacy center practice.

EDG 603. Linguistics & Language Acquisition for K-12 Teachers. 3 Credit Hours.

This course introduces the history of linguistics, the nature of discourse analysis, and social theories of mind and meaning. English language development, as well as study of traditional, structural, and transformational grammars, will be discussed in connection with modern English. Additionally, linguistic theory will be introduced with analytic techniques for the study of diverse languages and literacies in communities and schools. Furthermore, first language learning will be analyzed in terms of critical literacy theory. The importance of bilingualism will be emphasized with methods and procedures for teaching that promote first language maintenance while learning other languages. Finally, the course will study specific examples and current debates across the world about education and education reform, the nature of language and communication, and the socio-cultural diversity in schools and the society. Field experience required.

EDG 605. Read/Writ/Lang Tesol Classroom PreK-12. 3 Credit Hours.

Students will study the latest research and model programs in the language arts, writing and reading areas. First, they will practice implementing the methods and strategies for English language learners and demonstrate the ability to integrate these findings in their instruction through various approaches, such as thematic instruction. Students will become competent in diagnosing students' strengths and weaknesses and prescribing appropriate instruction. Materials and procedures for assessment will be analyzed. Field experiences required.

EDG 607. Classroom Assessment Strategies. 3 Credit Hours.

In this course, teachers will develop and evaluate formative and summative assessment strategies for student learning in classroom activities associated with a subject-matter domain. They will learn to design appropriate assessments that are carefully aligned with learning objectives and analyze student assessment data to inform instructional planning.

EDG 609. Cultural Responsive Literacy Methods and Assessment. 3 Credit Hours.

This course examines the adaptation and implementation of specific culturally responsive literacy strategies for English language learners. These strategies will be applied to mathematics, science, social studies, language arts, and other appropriate content areas. The methods of teaching to the standards for English language arts that emerge during studies will be analyzed in terms of meeting individual student's needs. Specific assessments, such as, authentic and standardized tests and testing procedures will be examined with study of scoring interpretations. Teachers will also learn how to make connections between interpretation of data and instructional materials and methods. Furthermore, electronic texts and computer programs will be critically viewed, focusing upon their uses for linguistically and culturally diverse students as well as students with special language and learning disabilities. Field experience required.

EDG 610. Social Justice & Advocacy for Educators. 3 Credit Hours.

In this course, participants will explore diverse theoretical frameworks that support the development of educators as facilitators of social justice and agents for change in schools and society. Participants will examine the relationships among educators, families, agencies, institutions, and diverse cultures within social, economic, and political contexts. They will study, design, and engage in strategies for supporting civil discourse, critical thinking, and meaningful collaborations in diverse classrooms and professional settings. In addition, they will gain knowledge and skills to gather and analyze resources and information to develop a personal action plan outlining strategies to promote social justice/systemic change/advocacy in a context related to their professional lives.

EDG 611. Curriculum Develop & Instruct Mid School. 3 Credit Hours.

This course will focus on contemporary as well as historical curriculum thinking and practice with special emphasis on the requirements of the 2003 Board of Regents Policy on Middle-level Education. We will address how this Policy influences the implementation, planning and evaluation of curriculum at the Middle-Level. We will critically examine the standards movement through varied perspectives, including political, social, cultural and philosophical. These perspectives will be perceived by participants as complimentary and/or contradictory, and will serve as the basis for class discussions and assignments. A major goal of this course is to assist participants in critically examining the traditional American curricula and compare and contrast at the Middle-Level in light of the changing sociopolitical context at that level. To that end, course materials include research, practice and case studies that focus on teaching for equity and social justice. Participants will examine their own personal practical knowledge and its impact on their translation of curriculum.

EDG 612. Curriculum Develop & Instruc Second Schl. 3 Credit Hours.

This course will focus on contemporary as well as historical curriculum thinking and practice. The issues discussed have the potential to influence the implementation, planning, and evaluation of curriculum at the high school level. We will critically examine the standards movement through varied perspectives, including political, social, cultural and philosophical, and the effect of the Regents examination requirement for graduation in NYS. These perspectives will be perceived by participants as complimentary and/or contradictory and will serve as the basis for class discussions and assignments. A major goal of this course is to assist participants in critically examining the traditional American curricula in light of the changing sociopolitical context at that level. To that end, course materials include research, practice and case studies that focus on teaching for equity and social justice. Participants will examine their own personal practical knowledge and its impact on their translation of curriculum.

EDG 615. Decision-Making in Schools. 3 Credit Hours.

This course examines the teacher as decision maker in all aspects of the profession. Focused on contemporary issues, participants will explore teachers' decisions regarding instruction, curriculum, assessment, and other professional facets of the teaching and learning process.

EDG 616. Classroom Management Strategies. 3 Credit Hours.

In this course, teachers will examine different theories and strategies related to creating and maintaining effective classroom environments. They will learn ways to: manage group behavior to reduce disruptions; involve students in the discipline process; have their students realize their capabilities and success; and help students to develop a management plan for their own behavior.

EDG 617. Curric/Instruc Pre-K - Grade 2. 3 Credit Hours.

This course will present current research and best practices related to teaching preschool and primary grades. Innovative methods and techniques will be discussed and applied. The subject matter areas studied are math, science, social studies, music, art, and language arts. The purpose of this course is to examine developmentally appropriate curricula, current issues and practices at the preschool and primary grade levels. This course is designed to be taken by students who may have no specific background in early childhood education.

EDG 618. Co-Teach Strategies Inclusive Classrooms. 3 Credit Hours.

This course provides an in-depth examination of the rationale and strategies for co-teaching partnerships to better meet the learning needs of all students, including students with special needs. Participants will become familiar with the five critical elements of an effective collaborative team and explore different approaches to co-teaching. Strategies will be discussed related to scheduling, role clarification, administrative support, and facilitating student access to the core curriculum by differentiating the content, process, and assessment.

EDG 624. Develop Approp Prac for Responsive Class. 3 Credit Hours.

The Responsive Classroom course is designed to provide students with advanced child development, social interactionist and constructivist theory as well as direct and practical application of the theory to current classrooms. As a result of this course, students will be able to implement the components of the responsive classroom and developmentally appropriate practices.

EDG 625. Teaching Children's Literature. 3 Credit Hours.

Literature written for children PK-6th grades will be identified as to its cultural, racial and gender significance in this course. Students will become familiar with the well known children's authors and their works. They will demonstrate this ability to identify books for children based on interest, age, reading level, and appropriateness of material. Techniques to increase a love for reading in children will be identified and demonstrated.

EDG 629. Emergent Literacy. 3 Credit Hours.

This graduate level course focuses on both the theoretical understandings of emergent readers and writers. The typical progressions in the acquisition of oral language and print literacy in childhood, including the sociocultural, cognition, and motivational influences on literacy development will be a focus of the course. Application of theory to developmentally appropriate practices for the assessment, planning, instruction, and the teaching of children.

EDG 635. Cross-Cult Comm for Tesol Classroom K-12. 3 Credit Hours.

Students will possess a thorough knowledge of how diverse students learn and acquire a second language through study in this course. This knowledge will be inclusive of culture, gender, socio-economic status and race. All forms of communication will be studied including verbal, non-verbal and the written word in the context of appropriate teaching strategies/aids for classroom use. Field experiences required.

EDG 636. Methods/Strat Teach Young Adolescent Lit. 3 Credit Hours.

In this course young adult literature, written for children in fifth grade through high school, will be identified and studied. Special emphasis will be focused on literature for its cultural, racial and gender significances. The purpose of this course is to study young adult literature in conjunction with the developmental and psychological stages of young adults, the nature of the school community, and curriculum planning and implementation. Teachers, through the process of reading, writing, listening, speaking, and viewing, will discover how to use all of these elements to encourage and enhance the individual responses of their students.

EDG 637. Special Edu Adminis & the Law. 3 Credit Hours.

The course will provide a framework for you to build an understanding of and an approach to the laws that affect and assure free and appropriate education of children and adolescents requiring special or related educational services. The goal of this information will be to provide a foundation and strategies for effectively meeting the needs of the classified special education students and those receiving services through Section 504.

Cross-listed Courses: EDL 637

EDG 638. Early Childhood Education. 3 Credit Hours.

In this course students will apply how children learn by identifying appropriate curricula, instructional strategies and assessment procedures for the preschool, kindergarten and primary child. This application will include an understanding of the role culture, socio-economic status, race and gender play in human growth and development. Recent research and model programs for classroom management will also be discussed and demonstrated.

EDG 640. Critical Issues in Educ and Leadership. 3 Credit Hours.

Identification and analysis of current issues in education will be the focus of this course. A study of the reform movements of the 80's and the responses to these reforms by the education community throughout the country and in particular at the New York State level. Selected issues will be discussed and debated in depth: inequality in access to services; the charter schools; authentic assessment; inclusion; financing education; school choice; diversity, etc. Model schools/ programs for the 21st century will be researched, discussed and presented to the class.

Cross-listed Courses: EDL 640

EDG 641. Strat/Curr for Emo Dist Stu. 3 Credit Hours.

This course is designed for graduate students of special education, as well as elementary and secondary, who are striving to understand and provide appropriate instruction for children who have behavioral problems and/or emotional problems. As a one semester course, issues of a theoretical nature will be addressed within the context of actual instructional strategies and the development of curricula to include this special population at the elementary and secondary levels.

EDG 642. Teaching Children & Adolescents W/Autism. 3 Credit Hours.

This course is designed for those interested in the cognitive, social and communication needs of children and adolescents with autism. The course will emphasize the translation of theory into practice as to how students with autism can learn. The many approaches to program development, behavior management and communication will be illustrated by videotapes, class discussion and guest speakers.

EDG 644. Developmental Issues in Adolescent Education (grades 7-12). 3 Credit Hours.

In this course, the focus is theories and aspects of how secondary students develop and learn. The emphasis is on the cognitive and sociocultural development, as well as how that development is situated within the school environment. Participants will examine and discuss current understanding of thinking and learning, especially in relation to the development students with disabilities and learning challenges. Only open to MEd students.

EDG 647. Curric Adapt/Stu With Disabil (7-12). 3 Credit Hours.

Special educators provide modifications and adaptations to curricula, instruction and assessment at the secondary level so that students with disabilities learn effectively. The focus of this course is on those techniques, along with study skills, test taking strategies and other practices designed to help adolescent students become successful independent learners.

EDG 649. Literacy Process & Strategies for Students With Special Needs. 3 Credit Hours.

This course provides direct instruction strategies for students with disabilities who struggle with reading, writing, speaking, and listening. Formal and informal assessment of specific reading problems will be explored, and use of that data to design strategic teaching in comprehension, word analysis, and writing processes. Oral language and listening skills will be developed as alternatives within literacy demands. The focus is increased literacy success for students with special needs through research-based practices. The impact of executive functioning problems on literacy will also be examined.

EDG 650. Digital Lit. for Authentic Lea. 3 Credit Hours.

This course focuses on skills, competencies and tools that enable educators to infuse digital literacies into teaching and learning. Through the lens of digital literacies, participants will examine and practice strategies to leverage emerging technologies to locate and filter, share and collaborate, organize and curate, create and generate, and reuse and repurpose curricular materials for improved practice.

EDG 651. Supervised Preservice Tch Grades 1-6. 4.5 Credit Hours.

This course is required for all prospective teachers seeking the New York State certification in Childhood/Students with Disabilities. In this course, teacher candidates, who have successfully completed the prerequisite courses and competencies, will begin full-time teaching in area elementary classes. Each candidate will fulfill a teaching experience in one elementary classroom (grades 1-6). A signed contract between the candidate and the supervising teacher ensures a gradual induction into the field of teaching. Weekly evaluations will be completed by the cooperating teacher, the college supervisor and the preservice teacher. Prerequisite: EDG 575.

EDG 652. Supervised Preserv Tch/Grd 1-6/Disabil. 4.5 Credit Hours.

This course is required for all prospective teachers seeking the New York State certification in Childhood/Students with Disabilities. In this course, teacher candidates who have successfully completed the prerequisite courses and competencies, will begin full-time teaching in area elementary classes with students with disabilities. Each candidate will fulfill a teaching experience in one elementary classroom (grades 1-6) with students with disabilities. A signed contract between the candidate and the supervising teacher ensures a gradual induction into the field of teaching. Weekly evaluations will be completed by the cooperating teacher, the college supervisor and the preservice teacher. Prerequisite: EDG 575.

Corequisite: EDG 695.

Cross-listed Courses: EDG 652

EDG 654. Superv Preservice Teaching Grades 7-9. 4.5 Credit Hours.

This course is required for all prospective teachers seeking the New York State certification in Adolescence. In this course, teacher candidates preparing for the New York State Adolescence certificate, who have successfully completed the prerequisite courses and competencies, will begin full-time teaching in area middle school classes. Each candidate will fulfill a teaching experience in one middle school classroom (grades 7-9). A signed contract between the candidate and the supervising teacher ensures a gradual induction into the field of teaching. Weekly evaluations will be completed by the cooperating teacher, the college supervisor and the preservice teacher. Prerequisite: EDG 570.

EDG 655. Edu Strat/Students with Disabil. 3 Credit Hours.

This graduate course explores researchbased practice for teaching students with disabilities in academic and functional curriculum areas. Students of all disciplines are invited to register, whether involved in special education, elementary or secondary. The course will include techniques for both remediation and compensation with a focus on independent learning strategies. Both primary and supplemental instruction will be addressed, as well as collaboration and consultation with regular education teachers, parents and paraprofessionals. Strategies for successful integration and inclusion of students with disabilities will also be studied. Practicum experiences are a part of this course, therefore the assignments are designed for application of concepts and skills and reflection on practice for student teaching where this is required.

EDG 656. Superv Preservice Teaching Grades 10-12. 4.5 Credit Hours.

This course is required for all prospective teachers seeking the New York State certification in Adolescence. In this course, teacher candidates preparing for the New York State Adolescence certificate, who have successfully completed the prerequisite courses and competencies, will begin full-time teaching in area high school classes. Each candidate will fulfill a teaching experience in one high school classroom (grades 10-12). A signed contract between the candidate and the supervising teacher ensures a gradual induction into the field of teaching. Weekly evaluations will be completed by the cooperating teacher, the college supervisor and the preservice teacher.

Prerequisite: EDG 570.

EDG 657. Supervised Preservice Teaching Special Education/TESOL (grades 7-12). 4.5 Credit Hours.

This is a required course for all teacher candidates preparing for the NYS Dual Certificate in Adolescence/Students with Disabilities or TESOL. Teacher candidates who have successfully completed the prerequisite courses and competencies must fulfill a teaching experience in an area middle or secondary special education/inclusive or TESOL classroom. A signed contract between the candidate and supervising teacher ensures a gradual induction into the field of teaching. Weekly evaluations will be completed by each of the cooperating teacher, the College supervisor and the preservice teacher.

Prerequisite: EDG 570.

Cross-listed Courses: EDG 657

EDG 660. Adult Learning Theories and Approaches. 3 Credit Hours.

Research regarding the nature of adult learning has grown significantly in recent years. New research in self-directed learning, intelligence and cognition are being linked to adulthood. This course explores these new works, examines various aspects of human development and relates them to enhancing the thinking and learning performance of adults throughout life.

EDG 664. Continuing Professional Education. 3 Credit Hours.

Professionals in every setting are facing escalating pressures to acquire new knowledge and skills. This course examines continuing professional education from the view of both individual professionals and educational providers. Effective continuing education is one important way professionals, associations and service organizations can respond to the needs of their clients.

EDG 668. Instructional Coaching for Student Success. 3 Credit Hours.

This course provides certified teachers with foundational knowledge and skills in their roles as instructional peer coaches. Students will apply adult learning theory and communication skills to essential aspects of the coaching cycle. They will analyze student data, use that data to set specific, attainable instructional goals, and develop strategies for reaching those goals. They will learn techniques for modeling effective instruction and encouraging reflection to build professional learning communities in their schools.

Cross-listed Courses: EDL 668

EDG 670. Curriculum and Technology Strategies. 3 Credit Hours.

This course examines the relationship between curriculum and technology. With a focus on the challenges and potential solutions of educational technology in curriculum design technological environment of various school setting and digital equity issues that impact the effectiveness of technology and pedagogy will be discussed to guide the development of a more responsive curriculum.

EDG 671. Intro & Survey of American Higher Educ. 3 Credit Hours.

This course provides students an overview of contemporary American higher education. The instructor will manage the course, be responsible for course objectives and requirements, and provide the ongoing course content. In addition, Le Moyne College administrators representing the academic environment, financial operations, student development, and institutional mission and advancement will be invited to offer various perspectives highlighting the administrative components and leadership roles in a higher education institution. Students will also be introduced to the major journals, conferences, associations, and research topics of the field.

EDG 672. Principles of Enrollment Management and Marketing in Higher Education. 3 Credit Hours.

Enrollment Management is a key concept in the administration of colleges and universities today. Enrollment Management is both an organizational structure for improving student and institutional outcomes and an organizational structure that typically includes administrative areas related to student access, success and marketing.

EDG 673. Critical & Contemp Issus in Higher Ed. 3 Credit Hours.

This course examines the current issues and challenges facing higher education. Such issues and challenges will be identified and analyzed by students. The course also enables to gain a broad perspective of the issues and factors influencing change. Cultural, demographic, economic, political and social forces will be of particular interest and concern as they impact on administration, faculty, students, and curriculum. Students will have the opportunity to examine critical issues in higher education in depth based on current research, practices and their own experiences as higher educators.

EDG 674. Leadership & Management for High Ed Admn. 3 Credit Hours.

This course is designed for students who aspire to or currently are employed in higher education administrative or leadership roles. This course focuses on the processes of leadership, management, and various levels of administration and explores the methods used for successful organizational change and improvement. The course will explore strategies for effectively planning, organizing, and managing student services, including the design and deployment of programs and services that enable students from diverse backgrounds to achieve their educational goals.

EDG 675. Educational Technology in Special Educ. 3 Credit Hours.

This introductory survey course is designed for educators to integrate an array of productivity tools and strategies with an emphasis on assistive technology, for effective teaching and learning. Students will be introduced to devices and applications, including those used in special education settings for educational, vocational and recreational purposes.

EDG 676. New Literacies in the Inclusive Classroom. 3 Credit Hours.

This course will focus on the possibilities of new literacies that emerge from new technologies. Exploration of strategies that individuals use to bridge digital literacies with print practices will include review of the visual, digital, and information literacies across content areas. Research and best practices around pedagogical approaches to online reading and digital writing will be examined and applied.

EDG 677. Curricular Practices for Virtual Educators. 3 Credit Hours.

This survey course will address theory and practice of technology-supported learning. Participants will develop the necessary knowledge and skills to analyze and evaluate the tools, methods, and environments for content specific instructional strategies. Emphasis will be placed on research-based best practices to meet required curricular guidelines.

EDG 680. Research Methods in Education. 3 Credit Hours.

This course will describe the research process and explore alternative ways to conduct research in education. This includes an emphasis on design, sampling, data collection, analysis and presentation of findings. Teachers will learn techniques to complete "action" research studies in their classes. This course will provide the foundation for completing the master's project.

Prerequisite: Candidates must complete all required courses.

EDG 681. Supervised Internship Childhood (grades 1-6). 3 Credit Hours.

This supervised internship includes a variety of experiences and settings. Students will demonstrate application of professional knowledge and skills in the new area of certification (Grades 1-6). Critical analysis of the student's competency will be conducted through self-assessment and supervisory feedback. Open only to students who already hold a valid certification in another area. Pass/Fail only. Permission of department chair required.

EDG 682. Supervised Internship Special Education (grades 1-6). 3 Credit Hours.

This supervised internship includes a variety of special education experiences and settings. Students will demonstrate application of professional knowledge and skills in the new area of certification (Special Education Grades 1-6). Critical analysis of the student's competency will be conducted through self-assessment and supervisory feedback. Open only to students who already hold a valid certification in another area. Pass/Fail only. Permission of department chair required.

EDG 683. Supervised Internship Adolescent Education (grades 7-12). 3 Credit Hours.

This supervised internship includes a variety of adolescent content area experiences and settings. Students will demonstrate application of professional knowledge and skills in the new area of certification (Grades 7-12). Critical analysis of the student's competency will be conducted through self-assessment and supervisory feedback. Open only to students who already hold a valid certification in another area. Pass/Fail only. Permission of department chair required.

EDG 684. Supv Internship Adolescent Spec Ed 7-12. 3 Credit Hours.

This supervised internship includes a variety of adolescent special education experiences and settings. Students will demonstrate application of professional knowledge and skills in the new area of certification (Special Education Grades 7-12). critical analysis of the student's competency will be conducted through self-assessment and supervisory feedback. open only to students who already hold a valid certification in another area. Pass/Fail only. Permission of department chair required.

EDG 685. Supervised Internship Literacy (B-12). 3 Credit Hours.

This supervised internship includes a variety of experiences and settings. Students will demonstrate application of professional knowledge and skills in literacy, including diagnosis and remediation of concerns related to reading, writing, speaking and listening (B-6 or Grades 5-12) Critical analysis of the student's competency will be conducted through self-assessment and supervisory feedback. Open only to students who already hold a valid certification in another area. Pass/Fail only. Permission of department chair required.

EDG 686. Supervised Internship Dual Childhood/ Special Education (grades 1-6). 3 Credit Hours.

This supervised internship includes a variety of childhood and special education experiences and settings. Students will demonstrate application of professional knowledge and skills in the new area of certification (Childhood and Special Education Grades 1-6). Critical analysis of the student's competency will be conducted through self-assessment and supervisory feedback. Open only to students who already hold a valid certification in another area. Pass/Fail only. Permission of department chair required.

EDG 687. Supervised Internship TESOL (PreK-12). 3 Credit Hours.

This supervised internship includes a variety of experiences and settings. Students will demonstrate application of professional knowledge and skills in teaching English to speakers of other languages (PreK-12). Critical analysis of the student's competency will be conducted through self-assessment and supervisory feedback. open only to students who already hold a valid certification in another area. Pass/Fail only. Permission of department chair required.

EDG 690. Master's Project. 3 Credit Hours.

Classroom teachers are faced with questions that puzzle and concern them in their interaction with students. In this course teachers select their own professor approved topics and conduct research in classrooms. Students must register at regular registration with permission of thesis advisor. This research may be conducted on three levels: 1. Descriptions of processes (what actually happens). 2. Description of relationships (what is associated with what). 3. Research supporting a causative relationship. Degree candidates are required to present their research project to the Department of Education.

EDG 695. Graduate Research Seminar. 3 Credit Hours.

This course is required of all students seeking New York State Teacher certification. This weekly research seminar is designed for the preservice teaching professional semester. The resulting project will serve as a culmination of research and literature produced from previous graduate courses. During the seminar, preservice teachers will analyze past work in order to identify topics for action research to be conducted in their fields. This course must be taken during the student teaching semester.

EDG 701. Advanced Strategies Lang Arts Educ (1-6). 3 Credit Hours.

This course is about reading and writing as a source of pleasure and about new ways in which teachers can convey the sheer joy of doing things with words to younger students, grades 1-6. Using a series of popular and award-winning texts, this class will explore strategies for introducing poetry and prose to young readers, and will help teachers to develop a personal library of teaching materials that can be of immediate use in the teaching of language arts in the elementary school classroom. The course will pay particular attention to the ways in which difference—cultural, racial, and physical— is celebrated in stories and poems.

EDG 702. Content & Strategies Math Teaching 5-8. 3 Credit Hours.

This class is designed to increase mathematical knowledge and skills for middle school teachers in grades 5-8. Concepts that are part of the newly restructured New York State Mathematics curriculum will be explored and examined. These content areas include algebraic thinking, geometric concepts, measurement, proportions and ratios, probability and statistics, data analysis, fractions and decimals. This course will focus on effective strategies and methods pertaining to the teaching of mathematics in grades 5-8.

EDG 705. Content/Strat Prim Math Teaching K-4. 3 Credit Hours.

This class is designed to increase mathematical knowledge and skills of certified elementary teachers. Many of the concepts that are part of the newly restructured New York State mathematics curriculum will be explored and examined. These content areas include algebraic thinking, geometric concepts, measurement, proportions and ratios, probability and statistics, data analysis, fractions and decimals. The course will also focus on effective strategies and methods pertaining to the teaching of mathematics in grades K-4.

EDG 709. Working With At Risk Stu in Class 7-12. 3 Credit Hours.

This course will focus on teaching the non-traditional student. Such a label incorporates a wide variety of students. Typically, alternative education is designed for the adolescent who has not been successful in the traditional school setting. Learning to connect with these students as well as the people associated with them will be the main focus of this course. Learning to create meaningful relationships not only with the student but with parents and/or caregivers, mental health workers, court appointed case workers; school social/guidance counselors, etc. will allow prospective teachers insight into the workings of the alternative education setting. Students will explore how socioeconomic differences and cultural backgrounds affect students. This course will also examine curricula and lesson plans that meet not only the state standards but also the social/emotional well being of the adolescent.

EDG 710. Dev/Imp Community Based Curr-All Student. 3 Credit Hours.

This course is designed to provide a foundational understanding of community-based curriculum planning, development, and teaching strategies for children and youth across a range of disabilities. Community-based experiences develop critical skills which children must learn for success in life. The course will guide graduate students in the development and implementation of a community-based curriculum by using a series of projects created so that children can learn and practice functional and life skills both in their classrooms and in natural community environments. An essential component will be the use of problem solving in the development of a variety of integrated activities that promote membership and learning for both special education and general education students. Our goal is to prepare children to lead productive lives at home, in school, and in their social relationships.

EDG 715. Using Hist Lit in Cross-Cultural Teach. 3 Credit Hours.

This is a course designed to meet the needs of secondary teachers interested in finding additional literature to use as supplemental resources for their curriculum. We will discuss the benefits and challenges to learning history through literature, both fiction and non-fiction, as well as address the needs of today's middle and teen readers. This course will examine both classic literature of the canon as well as contemporary, young adult pieces in order to identify a range of titles suitable for a variety of teenage audiences, reading levels, and course objectives.

EDG 728. Spanish Phonetics/Hst of Lang. 3 Credit Hours.

An analysis of the Spanish sound system (Phonetics) aimed at correcting pronunciation defects of Anglo speakers of Spanish, as well as an overview of the history and evolution of the Spanish language since its origins.

EDG 730. Teens, Tween and New Literacies. 3 Credit Hours.

In this course, participants will examine and discuss current understanding of new literacies and effective use of these strategies with students (ages 8-18). Teachers will learn to integrate strategies related to areas such as popular culture and digital literacies within their curricula.

EDG 731. Harry Potter Acr Curr: Multidisc Approac. 3 Credit Hours.

There is much debate about the Harry Potter books and whether or not they have a place in public school curricula. This course will have focus on three main issues: the debate over the merits and challenges of teaching the Rowling novels; the cultural phenomenon around the novels and the impact on young people; and effective strategies for using the novels as a starting point for other topics required by the New York State Learning Standards. Within the discussions will be issues related to literacy, and the role of children's literature in shaping the next generation's beliefs about gender, social class, race imperialism, capitalism, and spirituality. Teachers will be encouraged to empower students to engage in debates and dialogues around these and other issues.

EDG 732. Teaching Through Baseball: Multidisciplinary Perspectives. 3 Credit Hours.

This course is an elective for students who are certified teachers and enrolled in the Masters of Science in Education programs. The focus of the course will be on issues and aspects connected to the game of baseball, and ways baseball-related content can be embedded in K-12 curricula & instruction. Baseball is woven into the fabric of American life, and it is often connected to key social issues. The globalization of baseball provides opportunities for greater examination of the intersection of culture and sport. Application opportunities will be provided for teaching across grade levels and content areas. Participants will be introduced to the major journals, conferences, associations, and research topics related to baseball, and plan for integration into their professional practice.

EDG 751. Teaching With Comics & Graphic Novels. 3 Credit Hours.

This course provided strategies for selection, evaluation and instruction of comics and graphic novels in elementary and secondary classrooms. Participants will explore way that teachers at all grade levels can integrate Common Core State Standards in English/Language Arts standards across content areas. The focus of the course will be on providing K-12 students with the reading and writing skills through alternate print formats.

EDG 752. Teaching Media Literacy Across Curriculu. 3 Credit Hours.

This course provides a foundation for teaching media literacy in elementary and secondary classrooms. In this course, participants will explore ways that teachers at all grade levels can integrate media literacy skills across content areas. The focus of the course will be on providing K-12 students with the concepts and skills that will allow them to be critical consumers of media. Participants will gain strategies to assist their students in deconstructing media messages, as well as creating their own media based on the core concepts.

EDG 765. Historiography & Methodology. 3 Credit Hours.

This course examines how Western historians from ancient times to the present have constructed historical narratives from primary sources. It shows students how to evaluate historical texts by teaching them to attend to the philosophical, cultural, and political contexts which influence historians. It asks whether history is an art or a science; it raises questions about objectivity; it explores the phenomenon of interpretations; it demonstrates techniques for the verification of evidence; and it confronts the challenges of presentism, relativism and skepticism by introducing students to current trends and debates within the discipline.

EDG 767. Teaching History of Modern Latin America. 3 Credit Hours.

This course is a survey of Latin America since independence in the 1820s. Students will connect issues across time and focus on transmitting material to others in the classroom setting. Each student will be required to research historical themes and to develop written and oral presentations that will be presented to undergraduate students as part of their History of Latin America since 1825 course. The main goal of the course is to prepare students to both understand Latin America and to effectively teach it in the classroom. Not open to students who have taken HST 328 or HST 428.

EDG 790. Social Justice & Democracy for Educators. 3 Credit Hours.

Special Topic Course: In this course, participants will explore diverse theoretical frames that support development of educators as facilitators of social justice, equity, and democracy. Participants will examine the relationships among educators, families, businesses, and other groups within the greater community contexts. Participants will gain knowledge and skills to examine and practice social justice in their personal and professional lives, and develop actions and behaviors that will help bring about change.

Educational Leadership (EDL)

EDL 501. Educational Leadership for Soc Justice. 3 Credit Hours.

This course focuses on an introductory examination of issues relating to school leadership and educational administrative policy and practice. School leadership, as discussed here, encompasses the wide range of job responsibilities and activities that is engaged in by educational administrators as they work collaboratively as a member of a leadership team with other school administrators, teachers, families, students and others within the day-to-day context of schooling. Given this emphasis, the content of the course thus focuses on issues that include, but go beyond the circumstance of the classroom, the primary domain of teachers, and examines leadership responsibilities, issues, duties and activities at the overall school level and beyond.

EDL 502. Leadership/Human Resources Dev in School. 3 Credit Hours.

This course provides a conceptual and technical background in the human resources function in schools. Students have an opportunity to research and practice problem solving and leadership skills as applied to human resources. Classes promote the sharing of professional expertise.

EDL 503. Culturally Responsive Leadership. 3 Credit Hours.

This course provides an opportunity for students to understand diverse perspectives in leadership and management. Students will become familiar with the major frames for analyzing a local school culture, concepts of leadership, and the complexities of organizational analysis and change. Students will gain knowledge, skills, and a disposition toward solving the impediments to school improvement. Leadership is more widely distributed than administrators may have realized. Managing the processes to awaken that leadership is a major responsibility for the organizational leader.

EDL 505. School Finance and Facilities. 3 Credit Hours.

This course provides conceptual and technical understandings of the school business administrative function in New York State public schools. Topics will include examination of the role of a school business manager, developing competencies in areas of budgeting, purchasing, fund accounting, state aid, property taxes, human resources, and long range fiscal planning. This course is required for all students in the Educational Leadership program.

EDL 510. Labor-Mgt Relations in School Setting. 3 Credit Hours.

This course provides a conceptual and skills-based introduction to the area of union representation and collective bargaining in school districts. The classes rely heavily on simulations and experiential exercises based on "real-life" cases involving negotiation, fact finding, and arbitration. Classes promote the sharing of professional expertise.

EDL 515. Assessment & Accountability for Schools. 3 Credit Hours.

This course explores various approaches to assessing student and program performance, interpreting data obtained from these assessments and reporting these results to staff and public. Topics include reliability, validity and measurement error association with assessment strategies; how assessment results are to be interpreted and communicated, and approaches to creating assessment strategies for measuring attainment of school goals.

EDL 520. The Principalship. 3 Credit Hours.

This course examines critical issues and skills related to site management at the elementary, middle or high school. Topics include varying amounts of autonomy, accountability and responsibility among discrete units within school districts; policy implementation, organization and development of curriculum; instructional models; student services and activities; evaluation/supervision of programs and personnel; change/implementation models; and assessment and long-term planning.

EDL 522. Public Relations for School Leaders. 3 Credit Hours.

This course provides future educational leaders with the knowledge and skills to effectively deal with informal and formal forces that impact the image of the school within society. Topics include dealing with public opinion and pressure groups, community dynamics, handling inflammatory issues and relations with the media.

EDL 525. Supervision of Instruction. 3 Credit Hours.

This course examines a variety of supervisory strategies for teaching based on currently proven models. Topics include performance appraisal, professional growth and change, assessing staff needs and analyzing instructional deficiencies.

EDL 533. Communication Btwn School Stakeholders. 3 Credit Hours.

Written and oral communication and interpersonal skills are studied and practiced in detail. Topics include sensitivity to all aspects of the audience targeting the message, identifying power structures and opinion leaders and dealing with conflict and stress. The course addresses the articulation of the vision and mission of schools through the development of a communications plan. A range of community relations issues including working with the media, business partnerships, school councils and parental interactions are covered.

EDL 534. Educational Facilities Management. 3 Credit Hours.

The course explores present and future facility planning and equipment needs of schools. The course examines the efficiency of facilities, operations, housekeeping and maintenance programs. It also reviews the planning process for school construction programs. Plans for financing construction are discussed. The role of educational facilities in the teaching/learning process is a central theme throughout the course. The course will include lecture, discussion, on-site visitation and evaluation of school plant and learner needs. Students will also be expected to complete visitations to sites where renovation and/or new construction has been completed and conduct interviews and discussions with the professionals involved in the process at those sites.

EDL 555. Internship for School Building Leadership. 3-9 Credit Hours.

The educational leadership internship is the capstone experience allowing students to maximize opportunities to practice and refine their knowledge and skills. The internship is a required component of Educational Leadership program leading to NYS certification as a School Building Leader. It provides an opportunity for future educational leaders to work in local schools or other educational agencies. To qualify for an internship, students must be matriculated in the Educational Leadership program. Students must submit an application for an internship experience in the semester prior to the start of the experience. The Director of Graduate Education, the Field Placement Coordinator, and the Credentials Officer must approve all the internships.

EDL 590. Independent Study. 1-3 Credit Hours.

This will provide the opportunity for persons to do an independent leadership study project mutually agreed upon by an Education Department faculty member, the Education Department Chair, and the student.

EDL 601. School Fund Accounting. 3 Credit Hours.

Participants will develop the basic competencies and understanding of school accounting to enable them to record and report activities and events affecting personnel, facilities, materials or money of an administrative unit and its programs. The focus will be on determining the necessary accounts to be maintained and the procedures and forms to be used. The recording, classifying and summarizing activities will be emphasized as well as the preparation and issuing of reports and statements which reflect conditions as of a given date and the results of operations in terms of established objectives.

EDL 602. Financial Mgt for School Bus Leader. 3 Credit Hours.

The theory and practice of real financial decision making of a school administrator in a public school in New York State will be provided, utilizing practical applications. Topics will include an analysis of short and long-term decision making for a school district's general fund, federal funds, capital funds and school lunch fund. Students will analyze the revenue and appropriations accounts of each of these funds and explore alternative strategies for proper decision making. The use of a computer model to develop a long range fiscal plan for a school district will also be utilized.

EDL 606. Supervis & Operation Support Personnel. 3 Credit Hours.

This course provides the students with an conceptual and practical understanding of the school business administrator's role in supervision and evaluating support personnel- director of facilities, director of transportation, school lunch manager, and the director of technology- in a public school in New York State. Strategies for planning, supervising and evaluating the programs and the support staff along with the analysis of labor policies, staffing arrangements and financial planning as they relate to district goals and policies will be explored.

EDL 607. Schl Finance & Decision Mak for Dist Bus. 3 Credit Hours.

This course will focus on developing an in-depth understanding of school business functions. The development of skills and competencies in the areas of property taxes, financial reporting, budgeting, internal controls, staffing, state aid, purchasing and insurance will be explored in detail by students performing practical applications in each of these areas. This course will serve as the bridge to the student's internship program in a public school district.

EDL 610. Issues in Curriculum and Instruction. 3 Credit Hours.

Teaching critical thinking and structured reasoning will be the foundation of this course. Futurists' models of classes and schools will be discussed and analyzed. A study of teaching models, strategies and assessment procedures used in instruction will be identified and demonstrated in the light of supporting research. Community resources will be identified and their programs discussed in reference to the needs of students and school districts. The role of the teacher as counselor with students and their families will be stressed with a special emphasis on counseling with diverse students. This course is cross-listed with EDG 610.

EDL 620. Superintendency & District Level Leader. 3 Credit Hours.

This course provides an in-depth study of the role and responsibilities of the school superintendent. Students examine leadership attributes that are unique to the superintendency, including the skills needed to prosper in the position, and critical issues facing superintendents and school boards. Particular attention will be given to the superintendent's relationship with the board of education and the community, and district leadership for equity and excellence in an era of reform.

EDL 637. Special Edu Adminis & the Law. 3 Credit Hours.

The course will provide a framework for you to build an understanding of and an approach to the laws that affect and assure free and appropriate education of children and adolescents requiring special or related educational services. The goal of this information will be to provide a foundation and strategies for effectively meeting the needs of the classified special education students and those receiving services through Section 504.

Cross-listed Courses: EDG 637

EDL 640. Critical Issues in Educ and Leadership. 3 Credit Hours.

Identification and analysis of current issues in education will be the focus of this course. A study of the reform movements of the 80's and the responses to these reforms by the education community throughout the country and in particular at the New York State level. Selected issues will be discussed and debated in depth: inequality in access to services; the charter schools; authentic assessment; inclusion; financing education; school choice; diversity, etc. Model schools/ programs for the 21st century will be researched, discussed and presented to the class.

Cross-listed Courses: EDG 640

EDL 656. Title I School-Wide Plan. 3 Credit Hours.

This course will provide a framework for construction and implementation of a Title I Comprehensive School-Wide Plan. Students will become familiar with the ten required components of the plan, which are: 1. Comprehensive Needs Assessment 2. School-Wide Reform Strategies 3. Instruction by Highly Qualified Teachers (HQT) 4. Ongoing, High Quality Professional Development 5. Strategies to Attract Highly Qualified Teachers (HQT) to High Needs Schools 6. Strategies to Increase Parental Involvement 7. Transition Plans to Assist Pre-Kindergarten Children From Early Childhood to Elementary Programs 8. Measures to Include Teachers in Decisions Regarding the use of Academic Assessments 9. Activities to Ensure Students Who Experience Difficulty Attaining Proficiency Receive Effective, Timely Additional Assistance 10. Coordination and Integration of State, Federal, and Local Services and Programs The major activity of the course will be studying data that will assist in the assembling of a School-Wide Plan. Students, in teams, will submit a full plan at the conclusion of the course. Students will receive a fictional school with data in which to base their plans.

EDL 665. Legal Issues for School Professionals. 3 Credit Hours.

This course examines federal and state laws affecting the rights, privileges and duties of administrators, teachers, pupils and citizens. Attention is given to structural organization of government, public and private education, finance, collective bargaining and other pertinent factors.

EDL 668. Instructional Coaching for Student Success. 3 Credit Hours.

This course provides certified teachers with foundational knowledge and skills in their roles as instructional peer coaches. Students will apply adult learning theory and communication skills to essential aspects of the coaching cycle. They will analyze student data, use that data to set specific, attainable instructional goals, and develop strategies for reaching those goals. They will learn techniques for modeling effective instruction and encouraging reflection to build professional learning communities in their schools.

Cross-listed Courses: EDG 668

Graduate Education-Literacy Program (EDR)

EDR 600. Literacy Learning & Composing Process. 3 Credit Hours.

This course is designed to provide educators with a thorough overview of literacy theories and practices as they relate to writing instruction and assessment. The role of literacy development as it relates to the multiple purposes for writing will be experienced first hand. Teachers will study the relationships between reading and writing as a tool for learning, reading as a model for writing, and assignment design. Furthermore, teachers will experience strategies to support all stages of the composing process, approaches to assessment, teaching grammar in the context of writing, publishing student work, and preparing students for high-stakes testing. *Field experiences required.

Cross-listed Courses: EDG 600

**Master of Science in Education I
Master of Science in Education I -
Graduate Program in Professional
Education**

This program is designed for students who have completed a baccalaureate degree and are seeking advanced study in professional education. Applicants interested in this program may work in an instructional position or staff development position in other fields, or may work in school settings but not in a certification area. This individualized program will also lead to professional certification in special content areas (such as music, art and physical education). This program is not appropriate for those with certification in Childhood, Adolescent, Special Education or TESOL. This program DOES NOT lead to initial certification in any area.

Code	Title	Credit Hours
Core Requirements		
EDG 695	Graduate Research Seminar	3
EDG 610	Social Justice & Advocacy for Educators	3
EDG 650	Digital Lit. for Authentic Lea	3
EDG 690	Master's Project	3
Other Requirements		

Concentration Requirements	18
Total Credit Hours	30

**Master of Science in Education I -
Childhood Education (Grades 1-6)**

Note: This program is for students who hold a current NYSED initial certification.

Code	Title	Credit Hours
Core Requirements		
EDG 695	Graduate Research Seminar	3
EDG 610	Social Justice & Advocacy for Educators	3
EDG 650	Digital Lit. for Authentic Lea	3
EDG 690	Master's Project	3
Other Requirements		
Content/Pedagogy Requirement (These courses link content and pedagogy in specific content areas.)		12
Graduate Education Electives		6
Total Credit Hours	30	

**Master of Science in Education I - Dual
Childhood/Special Education (Grades 1-6)**

Note: This program is for students who hold a current NYSED initial certification.

Code	Title	Credit Hours
Core Requirements		
EDG 695	Graduate Research Seminar	3
EDG 610	Social Justice & Advocacy for Educators	3
EDG 650	Digital Lit. for Authentic Lea	3
EDG 690	Master's Project	3
Other Requirements		
Content/Pedagogy Requirement (These courses link content and pedagogy in specific content areas.)		12
Graduate Education Electives		6
Total Credit Hours	30	

**Master of Science in Education I -
Adolescent (Grades 7-12)**

Note: This program is for students who hold a current NYSED initial certification.

Code	Title	Credit Hours
Core Requirements		
EDG 695	Graduate Research Seminar	3
EDG 610	Social Justice & Advocacy for Educators	3
EDG 650	Digital Lit. for Authentic Lea	3
EDG 690	Master's Project	3
Other Requirements		
Content/Pedagogy Requirement (These courses link content and pedagogy in specific content areas.)		12

Graduate Education Electives	6
Total Credit Hours	30

Master of Science in Education I - Dual Adolescent/Special Ed (Grades 7-12)

Note: This program is for students who hold a current NYSED initial certification in one of the areas in which Le Moyne College has a registered program.

Code	Title	Credit Hours
Core Requirements		
EDG 695	Graduate Research Seminar	3
EDG 610	Social Justice & Advocacy for Educators	3
EDG 650	Digital Lit. for Authentic Lea	3
EDG 690	Master's Project	3
Other Requirements		
Content/Pedagogy Requirements (These courses link content and pedagogy in specific content areas.)		12
Graduate Education Electives		6
Total Credit Hours		30

Master of Science in Education II

In all phases of the master's degree programs students will increase their knowledge in content areas; acquire skills and competencies in teaching and research, master educational theory and practice; understand the interaction among schools, families, community and social agencies; and be competent in using technology to enhance teaching and learning.

Master of Science in Education II - Childhood Education (Grades 1-6)

This program is for students who are already certified to teach and are seeking an additional certification.

Code	Title	Credit Hours
Core Requirements		
EDG 695	Graduate Research Seminar	3
EDG 610	Social Justice & Advocacy for Educators	3
EDG 650	Digital Lit. for Authentic Lea	3
EDG 690	Master's Project (Courses for New Certification)	3
Courses for New Certification		
EDG 611	Curriculum Develop & Instruct Mid School	3
EDG 616	Classroom Management Strategies	3
EDG 625	Teaching Children's Literature	3
EDG 649	Literacy Process & Strategies for Students With Special Needs	3
EDG 702	Content & Strategies Math Teaching 5-8	3
EDG 681	Supervised Internship Childhood (grades 1-6)	3
Total Credit Hours		30

Master of Science in Education II - Dual Childhood/Special Education (Grades 1-6)

This program is for students who are already certified to teach and are seeking an additional certification.

Code	Title	Credit Hours
Core Requirements		
EDG 695	Graduate Research Seminar	3
EDG 610	Social Justice & Advocacy for Educators	3
EDG 675	Educational Technology in Special Educ	3
EDG 690	Master's Project	3
Courses for New Certification		
EDG 515	Special Education Process and Legalities	3
EDG 571	Managing Inclusive Environment: Differentiation and Adaptations	3
EDG 611	Curriculum Develop & Instruct Mid School	3
EDG 649	Literacy Process & Strategies for Students With Special Needs	3
EDG 702	Content & Strategies Math Teaching 5-8	3
EDG 682	Supervised Internship Special Education (grades 1-6)	3
Total Credit Hours		30

Master of Science in Education II - Adolescent Education (Grades 7-12)

This program is for students who are already certified to teach and are seeking an additional certification.

Code	Title	Credit Hours
Core Requirements		
EDG 695	Graduate Research Seminar	3
EDG 610	Social Justice & Advocacy for Educators	3
EDG 650	Digital Lit. for Authentic Lea	3
EDG 690	Master's Project	3
Courses for New Certification		
EDG 575	Pedagogical Methods for Content Area Teachers (grades 7-12)	3
EDG 611	Curriculum Develop & Instruct Mid School	3
EDG 616	Classroom Management Strategies	3
EDG 618	Co-Teach Strategies Inclusive Classrooms	3
EDG 636	Methods/Strat Teach Young Adolescent Lit	3
EDG 683	Supervised Internship Adolescent Education (grades 7-12)	3
Total Credit Hours		30

Master of Science in Education II - Dual Adolescent/Special Education (Grades 7-12)

This program is for students who are already certified to teach and are seeking an additional certification.

Code	Title	Credit Hours
Core Requirements		
EDG 695	Graduate Research Seminar	3
EDG 610	Social Justice & Advocacy for Educators	3
EDG 675	Educational Technology in Special Educ	3
EDG 690	Master's Project	3
Courses for New Certification		
EDG 515	Special Education Process and Legalities	3
EDG 575	Pedagogical Methods for Content Area Teachers (grades 7-12)	3
EDG 618	Co-Teach Strategies Inclusive Classrooms	3
EDG 647	Curric Adapt/Stu With Disabil (7-12)	3
EDG 649	Literacy Process & Strategies for Students With Special Needs	3
EDG 684	Supv Internship Adolescent Spec Ed 7-12	3
Total Credit Hours		30

Master of Science in Education II - Literacy Education (Birth - grade 6)

This program is for students who are already certified to teach and are seeking additional certification.

Code	Title	Credit Hours
Core Requirements		
EDG 695	Graduate Research Seminar	3
EDG 610	Social Justice & Advocacy for Educators	3
EDG 676	New Literacies in the Inclusive Classroom	3
EDG 690	Master's Project	3
Courses for New Certification		
EDR 600	Literacy Learning & Composing Process	3
EDG 601	Diagnosis, Remediation and Collaboration For Literacy Learning	3
EDG 625	Teaching Children's Literature	3
EDG 629	Emergent Literacy	3
EDG 649	Literacy Process & Strategies for Students With Special Needs	3
EDG 685	Supervised Internship Literacy (B-12)	3
Total Credit Hours		30

Master of Science in Education II - Literacy Education (Grades 5-12)

This program is for students who are already certified to teach and are seeking additional certification.

Code	Title	Credit Hours
Core Requirements		
EDG 695	Graduate Research Seminar	3
EDG 610	Social Justice & Advocacy for Educators	3
EDG 676	New Literacies in the Inclusive Classroom	3
EDG 690	Master's Project	3
Professional Education Requirements		

EDG 636	Methods/Strat Teach Young Adolescent Lit	3
EDG 649	Literacy Process & Strategies for Students With Special Needs	3
EDR 600	Literacy Learning & Composing Process	3
EDG 629	Emergent Literacy	3
EDG 601	Diagnosis, Remediation and Collaboration For Literacy Learning	3
EDG 685	Supervised Internship Literacy (B-12)	3
Total Credit Hours		30

Master of Science in Education II - Teaching English to Speakers of Other Languages (Grades Pre K-12)

This program is for students who are already certified to teach and are seeking additional certification. Prerequisites: 12 credit hours in a world language and three credit hours in English Advance Grammar.

Code	Title	Credit Hours
Core Requirements		
EDG 695	Graduate Research Seminar	3
EDG 610	Social Justice & Advocacy for Educators	3
EDG 650	Digital Lit. for Authentic Lea	3
EDG 690	Master's Project	3
Education Requirements		
EDG 556	Intensive English Grammar & Usage for Teachers	3
EDG 605	Read/Writ/Lang Tesol Classroom PreK-12	3
EDG 635	Cross-Cult Comm for Tesol Classroom K-12	3
EDG 603	Linguistics & Language Acquisition for K-12 Teachers	3
EDG 609	Cultural Responsive Literacy Methods and Assessment	3
EDG 687	Supervised Internship TESOL (PreK-12)	3
Total Credit Hours		30

Master of Science for Teachers (M.S.T.)

Master of Science for Teachers (M.S.T.) **39 credits programs** lead to New York state initial and professional certification. Students will select to pursue an **inclusive childhood, inclusive adolescent, or TESOL program**. These **39 credit hour** programs are completed in twenty-one months (considered five semesters, including summer session). Clinically rich practicum experiences are required throughout the program with a final semester of full time student teaching.

Inclusive Childhood/ Students with Disabilities (Grades 1-6)

The applicant must have a Bachelor's degree, including a minimum of six credit hours in each of the following: English, mathematics, science, world language and social studies (economics, geography, history, political science, anthropology, and sociology).

Code	Title	Credit Hours
Professional Education Requirements		
EDG 510	Research Found: Teaching & Sch (Fall 1)	3
EDG 515	Special Education Process and Legalities (Fall 1)	3
EDG 520	Developmental Planning I: Teaching & Planning (Spring 1)	3
EDG 525	Development Planning II: Applications (Spring 1)	3
EDG 530	Childhood Literacy I (Spring 1)	3
EDG 550	Pedagogical Content Knowledge (Summer)	3
EDG 555	Instructional Technology for the Inclusive Classroom (Summer)	3
EDG 560	Childhood Literacy II (Fall 2)	3
EDG 570	Pedagogical Methods Content Areas (grades 1-6) (Fall 2)	3
EDG 571	Managing Inclusive Environment: Differentiation and Adaptations (Fall 2)	3
EDG 580	Supervised Preservice Teaching (grades 1-6) (Spring 2)	3
EDG 581	Supervised Preservice Teaching/SWD (grades 1-6) (Spring 2)	3
EDG 595	Preservice Clinical Seminar (Spring 2)	3
Total Credit Hours		39

Inclusive Adolescent Education/Students with Disabilities (Grades 7-12)

The applicant must have a Bachelor's degree. The college-level coursework should include at least 30 credits in the content area for secondary schools. Also, general education course work is required, including a minimum of six credit hours in each of the following: English, mathematics, science, foreign language and social studies (economics, geography, history, political science, anthropology, and sociology).

Code	Title	Credit Hours
Professional Education Requirements		
EDG 510	Research Found: Teaching & Sch (Fall 1)	3
EDG 515	Special Education Process and Legalities (Fall 1)	3
EDG 520	Developmental Planning I: Teaching & Planning (Spring 1)	3
EDG 525	Development Planning II: Applications (Spring 1)	3
EDG 531	Adolescent Literacy I (Spring 1)	3
EDG 550	Pedagogical Content Knowledge (Summer)	3
EDG 555	Instructional Technology for the Inclusive Classroom (Summer)	3
EDG 561	Adolescent Literacy II (Fall 2)	3
EDG 575	Pedagogical Methods for Content Area Teachers (grades 7-12) (Fall 2)	3
EDG 576	Strategies & Methods for Special Educations Services (grades 7-12) (Fall 2)	3
EDG 585	Supervised Preservice Teaching (grades 7-12) (Spring 2)	3

EDG 586	Supervised Preservice Teaching/Swd (grades 7-12) (Spring 2)	3
EDG 595	Preservice Clinical Seminar (Spring 2)	3
Total Credit Hours		39

Teaching English to Speakers of Other Languages (Grades Pre K-12)

The applicant must have a Bachelor's degree that includes a major or equivalent in one of the Liberal Arts and Sciences (e.g. mathematics, biology, education, etc.) Undergraduate coursework must include at least 6 credits in each of the following subjects: mathematics, science, history, and English. Applicants must also have completed a minimum of 12 credits in a world language(s).

Code	Title	Credit Hours
Professional Education Requirements		
EDG 510	Research Found: Teaching & Sch (Fall 1)	3
EDG 515	Special Education Process and Legalities (Fall 1)	3
EDG 520	Developmental Planning I: Teaching & Planning (Spring 1)	3
EDG 525	Development Planning II: Applications (Spring 1)	3
EDG 530	Childhood Literacy I (Spring 1)	3
EDG 550	Pedagogical Content Knowledge (Summer)	3
EDG 556	Intensive English Grammar & Usage for Teachers (Summer)	3
EDG 561	Adolescent Literacy II (Fall 2)	3
EDG 577	Linguistics & Language Acquisition for K-12 Teachers (Fall 2)	3
EDG 578	Pedagogical Methods of Teaching Literacy To English Learners (Fall 2)	3
EDG 587	Supervised Preservice Teaching/TESOL (grades Prek-6) (Spring 2)	3
EDG 588	Supervised Preservice Teaching TESOL 7-12 (Spring 2)	3
EDG 595	Preservice Clinical Seminar (Spring 2)	3
Total Credit Hours		39

Educational Leadership Programs

The Le Moyne College Graduate Educational Leadership Programs focus on preparing school leaders who will transform education at a time when difficult decisions are required in the midst of political, social and economic constraints on and challenges in education. It is the goal of the Le Moyne programs to prepare education leaders who not only have the skills and competencies necessary for demanding professional positions, but have the compassion and commitment to ensure that all children receive an excellent and equitable education.

The New York State Education Department regulations sanction school leadership in New York State with three certifications:

- School Building Leadership (SBL)
- School District Leadership (SDL)
- School District Business Leader (SDBL)

Le Moyne College has approval from the New York State Education Department for graduate programs in all three leadership certification areas.

Professional Standards for Educational Leaders (PSEL)

New York State regulations address required content for leadership programs. All candidates must complete studies sufficient to demonstrate, upon program completion, the knowledge and skills necessary to meet the **Professional Standards for Educational Leaders (PSEL) 2015** (formerly known as the *ISLLC Standards*) created by the National Policy Board for Educational Administration <http://npbea.org>. Throughout the coursework, authentic experiences and the internship, candidates must meet the following standards:

Standard 1. Mission, Vision, and Core Values

Effective educational leaders develop, advocate, and enact a shared mission, vision, and core values of high-quality education and academic success and well-being of each student.

Standard 2. Ethics and Professional Norms

Effective educational leaders act ethically and according to professional norms to promote each student's academic success and well-being.

Standard 3. Equity and Cultural Responsiveness

Effective educational leaders strive for equity of educational opportunity and culturally responsive practices to promote each student's academic success and well-being.

Standard 4. Curriculum, Instruction, and Assessment

Effective educational leaders develop and support intellectually rigorous and coherent systems of curriculum, instruction, and assessment to promote each student's academic success and well-being.

Standard 5. Community of Care and Support for Students

Effective educational leaders cultivate an inclusive, caring, and supportive school community that promotes the academic success and well-being of each student.

Standard 6. Professional Capacity of School Personnel

Effective educational leaders develop the professional capacity and practice of school personnel to promote each student's academic success and well-being.

Standard 7. Professional Community for Teachers and Staff

Effective educational leaders foster a professional community of teachers and other professional staff to promote each student's academic success and well-being.

Standard 8. Meaningful Engagement of Families and Community

Effective educational leaders engage families and the community in meaningful, reciprocal, and mutually beneficial ways to promote each student's academic success and well-being.

Standard 9. Operations and Management

Effective educational leaders manage school operations and resources to promote each student's academic success and well-being.

Standard 10. School Improvement

Effective educational leaders act as agents of continuous improvement to promote each student's academic success and well-being.

Education Leadership Program Pathways

There are **5 EDL Pathways** for candidates to follow to earn a Certificate of Advanced Study (CAS) degree and certification in school building and/or school district leadership, or school district business leadership. Each pathway serves a distinct population of students, working at a different pace for each semester, enrolling in some of the same courses, and resulting after passing the courses and the State assessments, New York State certification to serve as a leader in the schools.

Pathway #1 is the traditional **School Building Leadership and School District Leadership Program** that allows students to take the coursework at a pace dependent upon their choices. One or two courses per semester are allowed, and students typically proceed in a continuous fashion through the semesters to complete the required 30 credits for the SBL degree, including the internship. Then they complete the additional 6 credits for the SDL degree. Typically, students complete the first pathway in three years, although they may even take a semester or two off as they advance through the program.

Pathway #2 is a new program for Le Moyne College. **LEADS (Le Moyne Educators Engaged in Accelerated Degree Success)** is a fast-track, cohort-based, mentored model leveraging coursework during summers, academic semesters and J-mester. For SBL certification, students enroll in a two-course Leadership Institute the first summer, two courses in both the fall and spring semesters, one J-mester course, and one course the second summer. The internship can begin in the second summer or after the completion of five courses. SDL certification is then available for an additional 6 credits of coursework taken in the following fall or spring semester. LEADS will be a one-year course of study, plus an education leadership internship. **LEADS @ CNY** will enroll teaching and counseling staff from the region's school districts, and **LEADS @ SCSD** will have an urban leader focus for Syracuse City School District teaching and counseling staff.

Pathway #3 CNY LDP (Central New York Leadership Development Program) at CiTi (Center for Instruction Technology & Innovation) BOCES, is another leadership program. CiTi BOCES is a new partnership at Le Moyne College and continues the original CNY LDP Program for SBL/SDL certification. The students enroll in three courses each year for 2 years, and complete the program at Le Moyne with EDL 520 The Principalship, EDL 525 Supervision of Instruction, and EDL 555 Internship. The program at this pace is generally a 3-year program.

Pathway #4 is the **Aspiring Leaders Institute**, a redesigned program, sponsored by OCM BOCES, a long-time partner with Le Moyne. The program will enroll a select group of 5-20 students from the BOCES component school districts. The 3-credit prequel administrative course leads to student choice of a college (Le Moyne College, SUNY Oswego, SUNY Cortland, or Syracuse University) at which to continue the coursework and earn the SBL and SDL degrees. If selected, students will transfer the prequel course as the required elective in Le Moyne's leadership program, and the student can choose to enter LEADS or the traditional program.

Pathway #5 is the **SDBL Program**, a cohort-based School District Business Leader program, that features a majority of online business courses with additional hybrid offerings to gather students from a distance, and to increase the number of Business Leaders to alleviate the shortage in the field.

Admission Criteria and Application Requirements

Admission to all Education Leadership Programs will be based on the following:

- Completion of a baccalaureate degree from an accredited institution with a minimum G.P.A. of 3.0 (official transcripts required)
- Completion of a master's degree from an accredited institution of higher education (official transcripts required)
- Submission of a resume
- Submission of two letters of written recommendation by individuals who can speak to the candidate's potential as a leader and submission of a letter from Human Resources verifying employment
- Writing statement of intention to be a school leader
- Advisory meeting and interview with the Director of Education Leadership Programs

Applicants to the SBL and SDL programs must also provide the following:

- Evidence of permanent or professional certificate as a classroom teacher and/or pupil personnel service provider (i.e. counselor, social worker, or school psychologist)
- Evidence of a minimum of three years of successful full-time teaching and/or pupil personnel service experience in P-12 schools or substantial equivalent
- Written recommendations from certified school administrators familiar with the applicant's work as a professional educator are required. All recommendations should speak to the candidate's potential as an educational leader.

The culminating course and experiences in each Education Leadership Program is the leadership internship - EDL 555. The internship includes a minimum of 600 hours of participation as a school leader in a designated and approved school setting, enacting the responsibilities of a leader, and under the observation and supervision of two Supervisors, one assigned at the school site, and one assigned by Le Moyne College. An Internship Handbook provides the directions to plan and apply for the internship, establishing the parameters, expectations, and the collaboration between the school and college to provide and monitor a rigorous leadership internship for the candidate. An internship certificate is required by NYS for students to engage in an internship.

In order to become certified, all leadership candidates must pass the New York State leadership certification exams required for the specific leadership program - School Building Leader Assessment, parts 1 and 2, or School District Leadership Assessment, parts 1 and 2, and the Educating All Students Test (EAS), or the School District Business Leader Examination, parts 1 and 2. The candidate must also provide documentation of DASA training.

These certification programs and requirements are subject to change if modifications occur in New York State Education Department (NYSED) regulations.

School Building Leadership (SBL)

School Building Leadership is a class of certification for school administrators that includes building level positions such as principal or assistant principal. <http://eservices.nysed.gov/teach/certhelp/CertRequirementHelp.do>

This 30-credit program includes 24 credits of required coursework plus a 6-credit internship.

Code	Title	Credit Hours
Required Core		
EDL 501	Educational Leadership for Soc Justice	3
EDL 502	Leadership/Human Resources Dev in School	3
or		
EDL 510	Labor-Mgt Relations in School Setting	3
EDL 503	Culturally Responsive Leadership	3
EDL 505	School Finance and Facilities	3
EDL 515	Assessment & Accountability for Schools	3
Professional Specialty		
EDL 520	The Principalship	3
EDL 525	Supervision of Instruction	3
EDL Elective		3
Internship		
EDL 555	Internship for School Building Leadership	6

Transfer credit of leadership courses may be considered for students in this program, as appropriate.

Students who already have an earned master's degree should contact the Director of the Education Leadership Programs for an advisory meeting to discuss the program and create a plan to complete the 30-credit Certificate of Advanced Study (C.A.S.) degree in Education Leadership that, in addition to successful completion of the SBL assessments and DASA training, will lead to New York state certification.

It is highly recommended that students take an additional 6 credits of specified coursework to be eligible for their SDL certification as well, pending successful completion of NYSED assessments. (See below)

School District Leadership (SDL)

School District Leadership is a class of certification for school administrators that includes superintendent of schools, district superintendent, deputy superintendent, associate superintendent, assistant superintendent and any other person having responsibilities involving general district-wide administration. <http://eservices.nysed.gov/teach/certhelp/CertRequirementHelp.do>

This 36 credit program includes 30 credits of courses selected from the SBL professional program specialty courses, or the master's program.

Code	Title	Credit Hours
Additional required courses include the following:		
EDL 533	Communication Btwn School Stakeholders	3
EDL 620	Superintendency & District Level Leader	3
EDL Elective		

A total of 60 graduate credits is required for SDL New York State certification.

Potential candidates who already have an earned master's degree should contact the Director of Education Leadership to discuss the leadership program and the option of earning a Certificate of Advanced Study (C.A.S.) degree in Education Leadership that will lead to New York State certification. A minimum of three years of teaching, an earned master's degree and successful completion of the SDL assessments, parts 1 and 2, and DASA training are required by New York State for certification as a school district leader. If the SBL certificate was earned at Le Moyne College, then two additional courses are necessary to earn the SDL. If the SBL certificate was earned at another institution of higher education, then a plan to complete the SDL will be developed with the Director. Typically five courses will be required to earn the SDL certificate at Le Moyne College.

School District Business Leader (SDBL)

School District Business Leader is a class of certification for the position of deputy superintendent for business, associate superintendent for business, assistant superintendent for business and any other person having professional responsibility for the business operation of the school district. <http://eservices.nysed.gov/teach/certhelp/CertRequirementHelp.do>

In addition to a master's degree, this 39-credit program, includes 24 credits of required coursework.

Code	Title	Credit Hours
Required Core		
EDL 501	Educational Leadership for Soc Justice	3
or EDL 503	Culturally Responsive Leadership	
EDL 502	Leadership/Human Resources Dev in School	3
or EDL 510	Labor-Mgt Relations in School Setting	
EDL 534	Educational Facilities Management	3
EDL 640	Critical Issues in Educ and Leadership	3
or EDL 620	Superintendency & District Level Leader	
EDL 665	Legal Issues for School Professionals	3
EDL Elective		3
School Business Courses		
EDL 505	School Finance and Facilities	3
EDL 601	School Fund Accounting	3
EDL 602	Financial Mgt for School Bus Leader	3
EDL 606	Supervis & Operation Support Personnel	3
EDL 607	Schl Finance & Decision Mak for Dist Bus	3
Internship		
EDL 555	Internship for School Building Leadership	6

An additional 21 credits of electives must be selected from the SBL/SDL professional program specialty area courses or master's. A minimum total of 60 credits is required for New York State school leadership certification, which may include up to 21 graduate credits of transfer credit from student's Master's degree, as appropriate.

Permanent or professional certification in teaching or pupil personnel services work is not required for entry to the SDBL program.

NURSING - UNDERGRADUATE

Chair: Cathy Brownell

Professor: Cathy Brownell, Margaret Wells

Assistant Professor: Samantha Sassone

Professor of Practice: Joanne Coppola, Kara Evans, Sara Gleasman-DeSimone, Kathy Gray-Siracusa, Maria Wheelock

Adjunct Faculty: Therese Brown-Mahoney, Erin Dupree, Dorothy Haag, Katherine Halstead, Karen Hirschman, Brandi Holzhauer, Krista Krause, Davia Moss, Gina Myers, Catherine Prouty, Joshua Purcell, Royce Robertson, Michael Sciarrino, Margaret Wade, Mary Ann Wafer, Kaylyn Woodrick

Professor Emerita: Susan B. Bastable

Clinical Associate Professor: Barbara Carranti

Clinical Coordinator: Brandi Holzhauer

As a highly important field in health care, nursing offers exciting, rewarding, and challenging career options. The bachelor's of science degree program of study in nursing is state approved and nationally accredited by the Commission on Collegiate Nursing Education (CCNE) and prepares nurses to function as generalists in practice when assuming the many excellent and ever-expanding employment opportunities available nationwide.

CCNE Accredited

The baccalaureate degree program in nursing/master's degree program in nursing/post-graduate APRN certificate program) at Le Moyne College is accredited by the Commission on Collegiate Nursing Education (<http://www.ccneaccreditation.org> (<http://www.ccneaccreditation.org/>)).

Mission: The mission of the Department of Nursing, consistent with the vision and mission of Le Moyne College, is to educate nurses at the undergraduate and graduate levels to provide the highest quality nursing service and professional leadership. The nursing curricula, integrating liberal arts and sciences and the culture of Catholic and Jesuit tradition at Le Moyne, aim to prepare nurses to serve as practitioners, leaders, and scholars in a diverse world of health care. Immersed in the environment of academic excellence, graduates are prepared as life-long learners who are future oriented; responsive to the challenges of a dynamic healthcare environment; possess well-developed communication, critical thinking, and technical skills; and demonstrate professional, caring, ethical, and competent behaviors that reflect the standards and values of nursing.

Philosophy: The philosophy of the Department of Nursing at Le Moyne College reflects the belief of the institution and its faculty that each individual possesses inherent personal worth, dignity, and potential, and is worthy of respect and compassion. The philosophy is derived from and is consistent with the vision and mission of the College. By developing a supportive, inclusive learning environment that fosters student-teacher relationships, students are able to explore values, perceptions, cultures, health knowledge, and behaviors of clients from a variety of backgrounds and developmental stages, which enhances the students' appreciation of the human condition and the importance of advocating for social justice. The faculty believes that the nurse's role of service and leadership is best supported and enhanced by a well-rounded, comprehensive education. The nursing curricula reflect the philosophy of educating the whole

person and are designed to foster professionalism, intellectual capacity, and personal growth.

The Department of Nursing has 4 undergraduate programs: Dual Degree Partnership in Nursing (DDPN), Degree in 3 program, Accelerated Dual Degree Partnership in Nursing (A-DDPN), and RN to BS. The DDPN and Degree in 3 programs are designed for high school graduates and transfer students who want to study nursing when they enter Le Moyne College. The A-DDPN program is for students who have a bachelor's in a field other than nursing and want to become a nurse. The RN to BS program is for nurses with an associate's degree who want a bachelor's of science with a major in nursing. (See "Programs" tab above for specific program information.)

Program/Department Goals:

1. Apply and integrate principles from the liberal arts & sciences in the delivery of patient care, utilizing evidenced based research to guide practice.
2. Function as a valued member of an inter-professional team to promote quality improvement and patient safety.
3. Evaluate nursing practice & health policy in relation to health equity and social justice.
4. Provide leadership in nursing practice for delivery of compassionate care to individuals, groups & populations along the continuum of illness to wellness.
5. Demonstrate evidence of professional development and growth by engaging in activities to promote advancement of the profession.

Student Learning Outcomes: (Expected Student Outcomes)

Upon completing the *Bachelor of Science Degree in Nursing*, the graduate will be prepared to:

1. Apply critical thinking skills utilizing the nursing process to guide nursing interventions.
2. Integrate principles of ethical decision making, cultural diversity, and caring in the delivery of healthcare services to individuals, communities and populations.
3. Demonstrate effective communication skills as a member of an inter-professional team, including computer literacy and informatics.
4. Incorporate principles of leadership to enhance the practice environment and improve quality and safety while promoting health equity and social justice.
5. Provide safe and effective care across the life span in a variety of settings; including rural and underserved areas.

Academic Criteria for Undergraduate Nursing Students (DDPN, Degree in 3, ADDPN, and RN-BS)

1. A grade of "C" or better must be achieved in undergraduate nursing courses with a NSG prefix and in courses required by the nursing major - BSC 201|, BSC 202|, WRT 101|, PSY 101|,SOC 101| (not required for Degree in 3), BSC 205|, BSC 345|, BSC 203| (Degree in 3 only), MTH 110|, and a 300 level selected elective. Students who are unsuccessful in a course will be allowed to repeat a course once. A second failure (below "C" or 2.0) in the same course will result in dismissal from the DDPN, Degree in 3, A-DDPN, or RN-BS program. A student will be allowed to repeat ONLY:

- a. one (1) nursing course (any course with an NSG prefix)
 - b. one (1) science course (BSC 201|, BSC 202|, BSC 205|, BSC 345|, BSC 203|)
 - c. one (1) liberal arts course (WRT 101|, PSY 101|, SOC 101|, MTH 110|, PSY 220|)
2. Nursing courses from previous college course work with a grade of C and taken within 10 years prior to the date of matriculation will be considered for transfer credit to meet upper-division BS degree program requirements with the approval of equivalency by the course instructor. Courses taken more than 10 years prior to matriculation may be considered for transfer credit only with approval by the course instructor and department chair if justification of equivalency can be documented, such as the student has significant practice experience relevant to the major content of the course(s).
 3. Successful completion of the clinical hour requirements must be achieved to successfully pass courses with clinical components.
 4. Every student, prior to registering for clinical courses, must be in compliance with the current health requirements of Le Moyne College and of each institution and agency in which they practice for the purpose of fulfilling the clinical component of their course work. Health requirements are subject to change.
 5. Every student is expected to display professional behavior in the classroom, laboratory, clinical, and service setting according to the nursing standards and ethical codes of conduct of the American Nurses Association (see Behavioral Probation policy below).
 6. A part-time student in the upper-division B.S. degree program is expected to complete the program of study within six years of matriculation.

Technical Standards for B.S. Degree in Nursing

The Nursing department's curriculum is designed to provide the general education necessary for the practice of nursing at the baccalaureate level of preparation. Students build on the fundamental principles of nursing, acquire skills of critical judgment based on education and experience, and develop an ability to use principles and skills wisely in decision making and problem solving pertaining to the delivery of high quality nursing services. Students in the program of nursing are expected to fulfill the following technical standards:

- Acquire information from demonstrations and experiences in the basic and applied sciences, including but not limited to information conveyed through lecture, group seminar, small group activities and physical demonstrations.
- Acquire information from written documents and computer-information systems (including literature searches and data retrieval), and identify information presented in images from paper, videos, transparencies and slides.
- Use and interpret information from diagnostic maneuvers (e.g. sphygmomanometer, otoscope, ophthalmoscope, etc.), and other diagnostic representations of physiological phenomena during the course of conducting a comprehensive physical assessment of a client.
- Accurately elicit information, including a medical history and other information, required to adequately and effectively assess and evaluate a client's condition.
- Synthesize information to develop a plan of care.
- Problem solve and think critically to judge which theory and/or strategy of assessment and intervention is most appropriate.

- Use intellectual ability, exercise proper judgment, and timely and accurately complete responsibilities attendant to the delivery of care to clients.
- Maintain effective, mature, and sensitive relationships with clients, students, faculty, staff and other professionals under all circumstances.
- Perform specific procedures and interventions (e.g. basic life support techniques) sufficient to provide safe and effective nursing care according to prescribed therapeutic regimens.
- Communicate effectively and efficiently with faculty, patients, families and all members of the health care team about a patient's condition as called for under the circumstances.
- Practice in a safe manner and respond appropriately to emergencies and urgencies.
- Possess emotional stability to function effectively under stress and adapt to changing environments inherent in the clinical practice of nursing.
- Practice universal precautions against contamination and cross contamination with infectious pathogens (e.g. wearing personal protective equipment, working with sharp objects and hazardous chemicals, treating clients with infectious diseases).
- Demonstrate manual dexterity and motor skills in performing nursing procedures such as giving a bed bath, making an occupied or unoccupied bed, and positioning and transferring clients safely.
- Upon admission, a candidate who discloses a disability and requests accommodation will be asked to provide documentation of his or her disability for the purpose of determining appropriate accommodations, including modification to the program.

The College will provide reasonable accommodations, but is not required to make modifications that would substantially alter the nature or requirements of the program or provide auxiliary aids that present an undue burden to the College. To matriculate or continue in the curriculum, the candidate must be able to perform all the essential functions outlined in these technical standards either with or without accommodation.

Behavioral Probation

The hallmarks of a nursing professional are to exhibit at all times the behaviors that represent the practice standards and norms of ethical conduct expected of undergraduate nursing students. A violation of these expected behaviors may result in a decision by the Chair of Nursing and the Dean of the Purcell School of Professional Studies, in conjunction with the Academic Standards Committee (ASC) of the Department of Nursing, to place a student on behavioral probation for a minimum of at least one semester. The nursing department follows the college grievance policy. (p. 56)

In conjunction with the American Nurses Association's Code of Ethics for Nurses with Interpretative Statements (2001), examples of professional behaviors include, but are not limited to, demonstrating the following:

- caring, sensitivity, compassion, tact, integrity, and tolerance towards others
- written, verbal, and nonverbal communication that conveys respect for clients, self, peers, and faculty
- responsibility and accountability for all actions, including timeliness to classroom, laboratory, and clinical experiences as well as prompt reporting to meetings with administrators, faculty, advisors, and preceptors

- appropriate use of technology to maintain client privacy and confidentiality of medical information and to avoid disruptions in learning environments (class, lab, and clinical) as well as in meetings with students, faculty, staff, and colleagues, and to project a professional image on social media venues
- appearance and conduct that conveys professional demeanor and adheres to institutional policies and procedures
- remaining free of chemical dependency or substance abuse in classroom, laboratory, and clinical settings
- RN-BS Program (p. 480)
- Dual Degree Partnership in Nursing (DDPN) (p. 481)
- Accelerated Dual Degree Partnership in Nursing (A-DDPN) (p. 483)
- Degree in 3 (p. 484)

Nursing (NSG)

NSG 315. Health Assessment. 3 Credit Hours.

This course uses a systems perspective to broaden the student's knowledge of physical, cultural, sociological, and nutritional aspects of health assessment of individuals across the life span. A laboratory setting is used to acquire and refine the techniques of physical assessment and critical thinking skills are emphasized in the identification of risk factors and other variables affecting health patterns. A focus is placed on therapeutic communication skills for effective interviewing and history taking, which are essential in the collection of health assessment data. Students are expected to accurately perform a systematic, comprehensive health assessment and a critical analysis of assessment data. Registration open only to Nursing or with permission of the department Chair.

NSG 315L. Health Assessment Lab. 0 Credit Hour.

NSG 330. Professional Issues and Trends. 3 Credit Hours.

This course focuses on the role of the professional nurse from an evolutionary, present, and future perspective. Educational, organizational, philosophical, and practical trends are explored. Identification of the characteristics of a profession and the qualities of a professional nurse enhances the student's insight into the meaning of professionalism in practice. Selected concepts and issues related to practice standards and modalities, taking into account the diversity of the client populations served, are theoretically applied to the care of individuals, families, and groups in a variety of settings. The impact of interdisciplinary and multidisciplinary approaches on the socialization and re-socialization of the professional nurse in practice is emphasized. The development of a written philosophy of nursing is required, which provides each student with the opportunity for personal reflection on the profession and the role of the professional nurse within the dynamic system of health care delivery.

Fulfills Core Requirement(s): Diversity (DIV).

NSG 350. Research in Nursing. 3 Credit Hours.

This course, which addresses the principles of scientific inquiry, introduces the student to the development of nursing as a science. An understanding of the major steps of the research process fosters the acquisition of analytical thinking, problem solving, and critical appraisal skills. Students are guided in the assessment and evaluation of both quantitative and qualitative research methodologies. The role of the professional nurse as data collector, designer, producer, replicator, and consumer of research is explored. The opportunity to critique selected research studies allows the students to apply knowledge of the research process and to understand how research findings provide the basis for evidenced-based practice. Prerequisite/Corequisite: NSG 330 and MTH 110 or NSG 330 and MTH 111.

NSG 387. Health Information Systems. 3 Credit Hours.

This course provides students with the knowledge of the design, use, and evaluation issues of health informatics applications. The topics include: (1) health informatics as a discipline; (2) career options for health informatics; (3) major health applications and commercial vendors; (4) strategic information systems planning and project management; and (5) new opportunities and emerging trends. A semester-long group will provide students hands-on experience in planning healthcare information systems; associated ethical and legal concerns, software engineering and human-computer interaction issues, and user acceptance and outcomes evaluation methods will also be discussed.

Cross-listed Courses: NSG 697, MIS 450, MIS 710

NSG 390. Independent Study. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration, a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure and number of credits sought. The proposal must be approved by the supervising faculty member, the department chair and the dean of arts and sciences. It will be kept on file in the dean of arts and sciences' office. Pass/fail option.

NSG 410. Management and Leadership in Nursing. 3 Credit Hours.

This course addresses the professional role of the nurse as manager and leader within the health care environment. The multiple and complex factors involved in the management and leadership function of the professional nurse are examined, including employment practices, staffing, institutional development, budgetary and health care financing concerns, accountability, information management, consumer satisfaction, and employee and employer relations. Selected management and leadership models, concepts, and theories are explored as a basis for planning, organizing, directing, changing, and controlling dynamic human resources for the provision of quality nursing care in a variety of health care settings. Particular emphasis is placed on ethical decision making and on the development of communication and interaction skills essential to effectively working with groups and organizations. A clinical practicum experience provides the student with the opportunity to observe the role of the nurse as manager and leader and to apply the principles of management and leadership within a practice setting. Prerequisite or corequisite: NSG 315, NSG 330 and NSG 350.

NSG 411. Nursing and Health Policy. 3 Credit Hours.

This course addresses the impact of health policy, health care financing and economics, and legislative and regulatory authority on nursing practice and the health care delivery system. Societal and professional issues influencing nursing practice will be examined. The role of the nurse as an active participant in developing and influencing policy, legislative and regulatory actions will be addressed.

Prerequisite: NSG 315, NSG 330 and NSG 350.

NSG 421. Global Perspective on Family Health. 3 Credit Hours.

This course focuses on factors that influence the health of populations and families globally. The framework for investigation of families is systems theory combined with an interaction and developmental life-cycle theory. Cultural, ethnic, racial, religious, and socioeconomic variables that strongly influence family life are identified and analyzed globally. A cross-cultural framework is used to compare the health status of populations & families that affect their health in social subgroups. Global health promotion goes far beyond the efforts of individual countries and the humanitarian attempts of more affluent nations to protect and promote health in developing countries, populations and families and can only be solved through global cooperation.

Prerequisites: NSG 315, NSG 330 and NSG 350.

Fulfills Core Requirement(s): Cultural Elective (CE).

NSG 440. Community Health. 4 Credit Hours.

This capstone course focuses on the theory and practice of community health nursing using an open systems framework. It blends the components of public health science, which incorporates the principles of epidemiology, and the art and science of nursing. The emphasis is on the community as client for a population-focused practice of nursing. Students conduct assessments of individuals, families, and groups to identify health needs and commonly encountered health problems within the population. Research-based findings are critically examined and applied in the process of planning, implementing, and evaluating nursing interventions at the primary, secondary, and tertiary levels of prevention.

Using the many community-based resources available for nursing practice, students are provided the opportunity for clinical experience in a wide variety of settings to advance their skills in delivery of care to populations and in communicating and collaborating with clients and health care team members for the overall improvement in the health of the community. Pre/co-requisite: BSC 435 Fulfills Core requirement(s): Diversity (DIV) and Cultural Elective (CE).

Prerequisite: NSG 330.

NSG 461. Principles of Teaching and Learning. 3 Credit Hours.

The focus of this course is on role development of the nurse as educator and is designed to provide students with the knowledge and skills necessary to educate various audiences in a variety of settings with efficiency and effectiveness. It is a comprehensive coverage, both in scope and depth, of the essential components of the education process and the principles of teaching and learning. Designed to increase students' proficiency in educating others, it takes into consideration the needs and characteristics of the learner as well as how to choose and use the most appropriate instructional techniques and strategies by which to optimize learning. Although the theories and concepts addressed in this course can be applied to any audience of learners, the focus is on patient education. An understanding of the basics of teaching and learning allows the educator to function as a "guide by the side" and as a "facilitator" of learning, rather than merely as a "giver of information". This approach enables clients to act as responsible partners in their own health care. Emphasis is placed on preparing students to assess, teach, and evaluate learners at all stages of development based on their learning needs, learning styles, and readiness to learn. Students conduct critical analysis of education materials, apply research findings to patient education, and consider the legal, ethical, economic, and political aspects of health care delivery on patient education.

Prerequisite: NSG 315, NSG 330 and NSG 350.

NSG 475. Transition to Advanced Nursing Practice. 4 Credit Hours.

This course is required of nurses who hold a BA or BS degree in a field other than nursing for progression to the MS in nursing program of study. It is designed to include undergraduate nursing content foundational to graduate level course work. The course includes theories, concepts, and principles related to professional issues and trends, health promotion and protection management and leadership, family health, and community health. Students are expected to gain knowledge, through course discussions, presentations, and other approaches, that is essential for success at an advanced level of educational preparation.

Prerequisite: RNs with BA or BS degree in a non-nursing field.

RN - BS Program

A student not yet licensed as an R.N. but eligible for NYS registered nurse licensure may be conditionally accepted into the B.S. degree program, pending successful completion of the State Board exam (NCLEX) no later than the end of the first semester of matriculation. If the student is not successful at passing the licensing exam by that time, s/he must take a leave of absence from the program until R.N. licensure is granted. Students seeking endorsement for NY State licensure must have proof in hand before the beginning of the second semester of study. All students must maintain an unencumbered license while enrolled.

Undergraduate students who do not possess RN licensure prior to enrollment in clinical courses (**NSG 410** Management and Leadership in Nursing and **NSG 440** Community Health) must communicate their intention to the department chair before the first day of class as to when they plan to take the NCLEX-RN. It is possible for a student without an RN license to participate in **NSG 410** Management and Leadership in Nursing, and in **NSG 440** Community Health as long as they are eligible for the NCLEX-RN.

Every student, prior to registering for clinical courses, must be in compliance with the current health requirements of Le Moyne College and of each institution and agency in which they practice for the purpose of fulfilling the clinical component of their course work. Health requirements

are subject to change. Students will be blocked from course registration until proof of health clearance has been provided.

Students admitted to this program must meet the Le Moyne College standards for transfer admission. There is no time limit for transfer of courses to meet prerequisites for admission. The following are 60 credits of prerequisites for students with associate degrees and diplomas in nursing:

Code	Title	Credit Hours
Pre-requisites		
Biology (microbiology 3-4 credits; anatomy and physiology 6-8 credits)		9
Nursing		30
Math (college algebra or higher)		0-3
Electives in liberal arts and sciences		6-9
English (three credits must be in composition)		6
Social Sciences (three credits must be in psychology)		6
Total Credit Hours		57-63

RN-BS Program

This 64-credit upper-division bachelor's degree nursing education program is open to registered nurses interested in pursuing a higher level of education for professional nursing practice. Graduates of associate degree or diploma programs in nursing are eligible upon admission to transfer in a maximum of 60 credits of lower division prerequisite course work as a foundation for earning a B.S. degree in nursing on a full-time or part-time basis. The pre-admission requirements have been determined to allow prospective R.N. students a seamless transition to the upper-division program.

Students seeking admission to the nursing major may enter in any semester. The curriculum is designed to be completed in two years by a full-time student or within three to four years by a part-time student. To facilitate completion of the curriculum in a timely fashion, many core courses are offered both semesters, with most of them also available in J-mester, May-mester and summer sessions. Both nursing and core courses are provided in three-hour blocks of time in a flexible scheduling mode of day and evening classes to accommodate the needs of the adult learner. Some courses are offered in a hybrid, on-line or condensed format.

Students will be admitted to junior and senior years of this program as transfer students for the bachelor's degree. Students accepted to this program must meet the Le Moyne College standards for transfer admission.

RN-BS with Non-Nursing Bachelor's Degree

Registered nurses with bachelor's degrees in other disciplines can complete this BS in Nursing with 31 credit hours of upper-division Nursing courses completed in residence. Contact Transfer Admission with any questions at (315) 445-4300.

Course	Title	Credit Hours
Junior Year		
First Semester		
BSC 345	Pathophysiology ²	3
NSG 330	Professional Issues and Trends	3
PHL 110	Introduction to Philosophy	3
MTH 110 or MTH 111	Introduction to Statistics I (no Computer Lab) or Introduction to Statistics I (with Computer Lab)	3
HST 110	World Civilization I	3
Visual and Performing Arts (VPA)		1-3
Credit Hours		16-18
Second Semester		
NSG 315	Health Assessment ¹	3
NSG 411	Nursing and Health Policy	3
ENG 210	Major Authors	3
HST 111	World Civilization II	3
PHL 210	Moral Philosophy	3
Credit Hours		15
Senior Year		
First Semester		
NSG 410	Management and Leadership in Nursing ²	3
IDS or Selected Elective 300-400 Level ³		3
NSG 350	Research in Nursing	3
THE Elective		3
ENG 310	Literature and Culture	3
Credit Hours		15
Second Semester		
NSG 421	Global Perspective on Family Health	3
NSG 440	Community Health ²	4
NSG 461	Principles of Teaching and Learning	3
REL Elective		3
COR 400	Senior Studies: Transformations	3
Credit Hours		16
Total Credit Hours		62-64

¹ Includes Laboratory hours.

² Includes Clinical hours.

³ An interdisciplinary studies (IDS) course is a course requirement. If a student has met this requirement, a selected elective should be taken instead.

Dual Degree Partnership in Nursing (DDPN)

The DDPN represents a unique articulation agreement between Le Moyne College and St. Joseph's College of Nursing at St. Joseph's Hospital Health Center. This 1+2+1 DDPN requires two years of fulltime study at Le Moyne College (years one and four) and two years of full-time study at St. Joseph's College of Nursing (years two and three) to satisfy both the associate degree and bachelor degree requirements (see the following DDPN curriculum plan).

In addition to the B.S. program objectives, the purposes of this articulation model are to:

- Provide an innovative approach that contributes to the recruitment and retention of applicants pursuing nursing education.
- Promote the smooth transition of qualified applicants intending to complete the DDPN at Le Moyne College and St. Joseph's College of Nursing.
- Provide students with a dynamic four-year living and learning campus environment at Le Moyne that enhances their personal and educational development.

Admission Criteria for DDPN Students

See admission process and requirements for full-time freshmen under Enrollment Information, General Information in this catalog.

High school seniors are required to apply to both Le Moyne College and St. Joseph's College of Nursing by completing a Le Moyne College application, which serves as a joint application to both institutions. The decision to admit students considered qualified for the DDPN will be at the sole discretion of the appropriate admissions committee of each college. Progression of students to the second year of the DDPN at St. Joseph's College of Nursing will be decided prior to the fall semester of enrollment. Agreement on the number of students accepted each year into the DDPN will be at the discretion of the two institutions.

Admission into the DDPN does not guarantee admission or transfer into any other program option at either institution.

High school seniors who are accepted to the DDPN must meet all of the conditions of their acceptance as required by each individual college. Students already enrolled in their first year of study at Le Moyne College who have not previously applied for and/or been accepted to the DDPN may be considered for acceptance as a change of major internal transfer on an individual basis. Because of limited space, this is a very competitive process based on the pool of applicants. In addition, students who have completed college credits at another institution can be considered on an individual basis for acceptance to the DDPN as an external transfer.

Students admitted to the Dual Degree Partnership in Nursing (DDPN) apply for full-time financial aid from Le Moyne College in years one and four and full-time financial aid from St. Joseph's College of Nursing in years two and three of the program of study. It is important to note the following information in pursuing this curriculum plan:

1. If students are involved in a National Collegiate Athletic Association (NCAA) sport, scholarships can only apply during years one and four of the program.
2. If students are awarded a Le Moyne Scholarship, it will only apply for years one and four while they are full-time at Le Moyne.

Students will be admitted to Le Moyne College as undeclared majors and will declare their major as Nursing at the completion of the third year of study at St. Joseph's College of Nursing and prior to beginning their fourth year of study at Le Moyne College. The registrar at Le Moyne College completes this process after the student's successful completion of the Associate Degree at St. Joseph's College of Nursing. The student will not have to apply for the nursing major.

- Students must meet the academic, health, technical standards and financial requirements of both institutions.

- Students must maintain full-time status while enrolled in the first and fourth years at Le Moyne College and the second and third years at St. Joseph's College of Nursing
- Students must live on the Le Moyne campus or be a commuter student during all four years of study.
- Students must successfully complete all first-year courses at Le Moyne College prior to beginning the second year of study at St. Joseph's College of Nursing.
- It is expected that once a student is accepted into the DDPN, all lower division liberal arts and science courses in the curriculum will be taken and successfully completed through Le Moyne College as per the DDPN program of study plan. If a course needs to be repeated or if an exceptional circumstance exists, a waiver of this policy will be considered on an individual basis. However, please be aware that this waiver, if granted, may have potential financial or other implications.
- To progress to year two, the student must be in good standing with a minimum cumulative G.P.A. of 2.75 by the end of the spring semester prior to progressing to the fall semester at St. Joseph's College of Nursing and also minimum grade of "C" or above must be earned in the five required liberal arts and sciences courses completed during year one as indicated in the program of study.
- If a student is dismissed from either the associate's degree or bachelor's degree portion of the DDPN for academic or integrity issues, the student is automatically withdrawn from the DDPN.

To meet the graduation requirements for the Associate Degree in Applied Science (A.A.S.) from St. Joseph's College of Nursing, students must satisfy the required course work as designed in the DDPN curriculum plan.

Upon successful completion of the St. Joseph's Associate Degree nursing program, students will have earned an A.A.S. degree with a major in nursing and are qualified to sit for the National Council Licensing Examination (NCLEX) for licensure as a Registered Professional Nurse.

Progression into the fourth year of full-time study at Le Moyne College for completion of the Bachelor of Science degree with a major in nursing requires the student to have a minimum G.P.A. of 2.0. Students must have evidence of R.N. licensure before the Bachelor of Science degree is conferred.

Typical Program for Dual Degree Partnership in Nursing (1+2+1 Plan)

Course	Title	Credit Hours
Freshman Year		
First Semester		
BSC 201	Human Anatomy & Physiology I ^{1, 2}	4
WRT 101	Critical Writing (Core) ^{1, 2}	3
HST 110	World Civilization I (Core)	3
PSY 101	Introductory Psychology ^{1, 2}	3
COR 100	First Year Seminars: Transitions	3
Credit Hours		16
Second Semester		
BSC 202	Human Anatomy & Physiology II ^{1, 2}	4
ENG 210	Major Authors (Core)	3
HST 111	World Civilization II (Core)	3
SOC 101	Introductory Sociology ^{1, 2}	3

NSG 330	Professional Issues and Trends ^{2,3}	3
A cumulative GPA of 2.75 must be achieved by the end of the spring semester of Year I to remain enrolled in the DDPN.		

Credit Hours	16
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Intercession

Optional Summer Session

Credit Hours	0
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Sophomore Year**First Semester**

NSG 110	Foundations of Nursing and Health	7
NSG 111	Nursing Assessment and Skills I	2
PSY 220	Human Life Span Development ²	3
PHL 110	Introduction to Philosophy (Core)	3

Credit Hours	15
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Second Semester

NSG 121	Nursing Assessment and Skills II	2
NSG 123	Health & Illness Across the Lifespan for the Individual and the Family	8
BSC 205	Basic Microbiology ²	4
PHL 210	Moral Philosophy (Core)	3

Credit Hours	17
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Intercession

Optional Summer Session

Credit Hours	0
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Junior Year**First Semester**

NSG 209	Holistic Health Care Across the Lifespan	10
NSG 211	Nursing Assessment and Skills III	2
BSC 345	Pathophysiology ²	3

Credit Hours	15
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Second Semester

NSG 213	Transition into Professional Practice	9
NSG 214	Nursing Assessment and Skills IV	1
PHL 346	Ethics and the Nurse (Core) ²	3
NSG 315	Health Assessment ²	3

Study for and take NCLEX exam

Credit Hours	16
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Senior Year**First Semester**

ENG 310	Literature and Culture (Core)	3
NSG 350	Research in Nursing ²	3
NSG 410	Management and Leadership in Nursing ^{2,5}	3
Selected Elective (300 or 400 level and related to health care) PHL 346 fulfills this requirement ²		0

MTH 110	Introduction to Statistics I (no Computer Lab) (or MTH 111) ²	3
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Theology 100-400 level (Core) (p. 61)	3
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VPA Visual & Performing Arts (p. 61)	1
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Credit Hours	16
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Second Semester

NSG 421	Global Perspective on Family Health ²	3
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Religion 100-400 level (Core) (p. 61)	3
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NSG 411	Nursing and Health Policy ²	3
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NSG 440	Community Health (DIV) ^{2,5}	4
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NSG 461	Principles of Teaching and Learning ²	3
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COR 400	Senior Studies: Transformations	3
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Credit Hours	19
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Intercession

Optional Summer Session - 2 courses from Year IV

Credit Hours	0
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Total Credit Hours	130
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- ¹ Course required for progression to St. Joseph's program and a minimum grade of C must be earned.
- ² Course within the nursing major. A minimum grade of "C" must be earned.
- ³ NSG 330 is prerequisite for upper division nursing courses at Le Moyne
- ⁴ MTH 110/111 is pre/co requisite for NSG 350.
- ⁵ Includes clinical hours
- ⁶ These courses are part of St. Joseph's program of study and are taken at St. Joseph's College:
 - NSG 110 Foundations of Nursing and Health
 - NSG 111 Nursing Assessment and Skills I
 - PSY 220 Human Life Span Development
 - NSG 121 Nursing Assessment and Skills II
 - NSG 123 Health and Illness Across the Lifespan for the Individual and Family
 - BSC 205 Microbiology
 - NSG 209 Holistic Health Care Across the Lifespan
 - NSG 211 Nursing Assessment and Skills III
 - NSG 213 Transition into Professional Practice
 - NSG 214 Nursing Assessment and Skills IV
 - PHL 346 Ethics and the Nurse

⁷ (DIV) = Diversity

Accelerated Dual Degree Partnership in Nursing (A-DDPN)

Accelerated Dual Degree Partnership in Nursing (A-DDPN)

This 18-month option is specifically designed for candidates with a bachelor's (BA or BS) degree in another field who are interested in pursuing a career as a registered nurse.

The A-DDPN program of study awards both the associate's degree and bachelor's degree in nursing. The Associate of Applied Science (AAS) degree from St. Joseph's College of Nursing (SJCON) allows students to qualify for NCLEX-RN® examination (National Council Licensure Examination)¹ and professional Registered Nursing (RN) licensure. The Bachelor of Science degree in nursing is awarded from Le Moyne College.²

- ¹ The NCLEX-RN® first time pass rate at SJCON is consistently higher than the state and national averages.
- ² All 28 credits of BS-level nursing courses must be earned at Le Moyne for a student to be granted the BS degree in nursing.

Admission Criteria

- Bachelor’s degree (BA or BS) in another discipline from an accredited school.
- Cumulative GPA of 3.0 from the non-nursing bachelor’s degree preferred (consideration may be given to applicants with a cumulative GPA of 2.8 to 2.99).
- Cumulative GPA of 3.0 in pre-requisite courses.
- Favorable letter of recommendation that addresses academic ability and nursing potential.
- Personal statement.
- Personal interview with Le Moyne College Office of Admission or St. Joseph’s College of Nursing may be required.

Admission into the A-DDPN does not guarantee admission or transfer into any other program option at either institution.

Prerequisite courses with a minimum grade of “C”:

Code	Title	Credit Hours
Prerequisite Courses		
	Human Anatomy and Physiology I and II (including labs)	8
	Microbiology (including lab)	4
	Introduction to Psychology	3
	Introduction to Sociology	3
	Human Growth and Development (also known as Developmental Psychology)	3
	Statistics	3
	Chemistry or Regents Chemistry in High School	3
	Critical Writing	3
	Selected Elective 300-400 Level	3
Total Credit Hours		33

Application Deadline

For a July start date, the application deadline is November 1st of the prior year.

Course	Title	Credit Hours
Year I		
Term I: July-December		
SJCON - Weekend:		
NSG 110	Foundations of Nursing and Health	7
NSG 111	Nursing Assessment and Skills I	2
NSG 123: Health and Illness Across the Lifespan for the Individual and the Family		8
NSG 121	Nursing Assessment and Skills II	2
Credit Hours		19
Summer		
Le Moyne - Weekday:		
NSG 330	Professional Issues and Trends	3
Credit Hours		3
Fall		
Le Moyne - Weekday:		
BSC 345	Pathophysiology	3

NSG 350	Research in Nursing	3
Credit Hours		6
Term II: January-June		
SJCON - Weekend:		
NSG 209: Holistic Health Care Across the Lifespan		10
NSG 211	Nursing Assessment and Skills III	2
Credit Hours		12
J-Mester		
Le Moyne- Weekday:		
NSG 411	Nursing and Health Policy	3
Credit Hours		3
Spring		
Le Moyne - Weekday:		
NSG 421	Global Perspective on Family Health	3
NSG 410	Management and Leadership in Nursing	3
Credit Hours		6
Year II		
Term III: July-December		
SJCON- Weekend:		
NSG 213	Transition Into Professional Practice	9
NSG 214	Nursing Assessment and Skills IV	1
PHL 346	Ethics and the Nurse	3
Credit Hours		13
Summer		
Le Moyne - Weekday:		
NSG 461	Principles of Teaching and Learning	3
NSG 315	Health Assessment	3
Credit Hours		6
Fall		
Le Moyne - Weekday:		
NSG 440	Community Health	4
Credit Hours		4
Total Credit Hours		72

NOTE: All 30 credits must be taken at Le Moyne to meet residency requirements to earn a degree. No transfer credit will be granted for BS-level coursework taken at another institution.

If a student is dismissed from either the associate’s degree or bachelor’s degree portion of the A-DDPN for academic or integrity issues, the student is automatically withdrawn from the A-DDPN.

Degree in 3
Le Moyne College and Pomeroy College of Nursing

The Degree in Three B.S. in Nursing represents a unique partnership between Le Moyne College’s Department of Nursing and the Pomeroy College of Nursing at Crouse Hospital. Students will be dually enrolled at Le Moyne College and Pomeroy College of Nursing, earning both an

associate in applied science and a bachelor's degree with a major in nursing.

With an academically rigorous schedule, students are enrolled for three consecutive fall and spring semesters, three summer and winter terms as well as one Maymester. This program is designed for students who wish to enter the workforce or pursue a graduate degree more quickly than they would with the traditional four-year degree.

Admission Criteria for Degree in Three Students

Admission to the A.A.S./B.S. in Nursing program will be based on the following:

- Minimum high school cumulative average of 87 or college GPA of 3.0
- Minimum 1200 SAT score (Critical Reading and Math only) or minimum 27 ACT score
- Required high school courses. Applicants must graduate from an accredited high school and must complete a minimum of 16 academic units in the following distribution:
 - English (4)
 - Foreign Language (3)
 - Mathematics (3-4)
 - Natural Science (3-4, including chemistry and biology)
 - Social Studies (3-4)
- Recommendations. Applicants are required to submit one letter of recommendation from a school counselor; or two letters of recommendation from teachers, employers, coaches, etc; and one recommendation from a supervisor who can attest to the applicant's demonstrated commitment to the healthcare field.

Course	Title	Credit Hours
Year I		
Fall		
COR 100	First Year Seminars: Transitions	3
BSC 201	Human Anatomy & Physiology I	4
NSG 330	Professional Issues and Trends	3
WRT 101	Critical Writing	3
HST 110	World Civilization I	3
Credit Hours		16
J-Mester		
ENG 210	Major Authors	3
Credit Hours		3
Spring		
BSC 202	Human Anatomy & Physiology II	4
HST 111	World Civilization II	3
PCON 105	Foundations of Nursing Practice	8
PSY 101	Introductory Psychology	3
Credit Hours		18
Summer		
ENG 310	Literature and Culture	3
MTH 110	Introduction to Statistics I (no Computer Lab)	3
Credit Hours		6

Year II

Fall

BSC 205	Basic Microbiology	4
PHL 110	Introduction to Philosophy	3
PCON 132	Homeostasis, Oxygenation & Regulation I	6
PCON 131	Cognition & Maladaptive Behaviors	4
Credit Hours		17

J-Mester

Selected Elective with IDS		3
Credit Hours		3

Spring

BSC 203	Nutrition	3
PHL 210	Moral Philosophy	3
PSY 220	Human Life Span Development	3
PCON 225	Individual and Family Nursing	6
PCON 245	Pharmacology	3
Credit Hours		18

Interession

Theology 100-400 level (p. 61)		3
Credit Hours		3

Summer

BSC 345	Pathophysiology	3
NSG 315	Health Assessment	3
NSG 350	Research in Nursing	3
Credit Hours		9

Year III

Fall

PCON 265	Homeostasis, Oxygen, Reg II	7
PCON 285	Transition Into Nursing Practi	2
Religion 100-300 (p. 61)		3
Credit Hours		12

J-Mester

NCLEX Review		
Credit Hours		0

Spring

NSG 410	Management and Leadership in Nursing	3
NSG 421	Global Perspective on Family Health	3
COR 400	Senior Studies: Transformations	3
NSG 411	Nursing and Health Policy	3
VPA Visual & Performing Arts (p. 61)		1-3
Credit Hours		13-15

Summer

NSG 440	Community Health	4
NSG 461	Principles of Teaching and Learning	3
Credit Hours		7

Total Credit Hours 125-127

NURSING - GRADUATE

Chair: Cathy Brownell

Professor: Cathy Brownell, Margaret Wells

Assistant Professor: Samantha Sassone

Professor of Practice: Joanne Coppola, Kara Evans, Sara Gleasman-DeSimone, Kathy Gray-Siracusa, Maria Wheelock

Adjunct Faculty: Therese Brown-Mahoney, Erin Dupree, Dorothy Haag, Katherine Halstead, Karen Hirschman, Brandi Holzhauer, Krista Krause, Davia Moss, Gina Myers, Catherine Prouty, Joshua Purcell, Royce Robertson, Michael Sciarino, Margaret Wade, Mary Ann Wafer, Kaylyn Woodrick

Professor Emerita: Susan B. Bastable

Clinical Associate Professor: Barbara Carranti

Clinical Coordinator: Brandi Holzhauer

The Department of Nursing offers a Master of Science (M.S.) and three post-master's certificates: family nurse practitioner (FNP), nurse educator (on hold, not currently enrolling into this track), and nurse administrator (on hold, not currently enrolling into this track). The programs are state approved and nationally accredited by the Commission of Collegiate Nursing Education (CCNE) and prepare graduates to function in professional leadership positions as advanced practice registered nurses (APRNs), faculty in schools of nursing, staff development or patient educators, or managers in the challenging marketplace of health care. The post-master's certificates are available to nurses who already hold a master's degree in nursing.

The M.S. program curriculum is designed as a two year program of study for full-time students and a three year program of study for part-time students. Some courses are offered in a hybrid, on-line or condensed format.

CCNE Accredited

The baccalaureate degree program in nursing/master's degree program in nursing/post-graduate APRN certificate program) at Le Moyne College is accredited by the Commission on Collegiate Nursing Education (<http://www.ccneaccreditation.org> (<http://www.ccneaccreditation.org/>)).

Mission: The mission of the Department of Nursing, consistent with the vision and mission of Le Moyne College, is to educate nurses at the undergraduate and graduate levels to provide the highest quality nursing service and professional leadership. The nursing curricula, integrating liberal arts and sciences and the culture of Catholic and Jesuit tradition at Le Moyne, aim to prepare nurses to serve as practitioners, leaders, and scholars in a diverse world of health care. Immersed in the environment of academic excellence, graduates are prepared as life-long learners who are future oriented; responsive to the challenges of a dynamic healthcare environment; possess well-developed communication, critical thinking, and technical skills; and demonstrate professional, caring, ethical, and competent behaviors that reflect the standards and values of nursing.

Philosophy: The philosophy of the Department of Nursing at Le Moyne College reflects the belief of the institution and its faculty that each individual possesses inherent personal worth, dignity, and potential, and is worthy of respect and compassion. The philosophy is derived from and

is consistent with the vision and mission of the College. By developing a supportive, inclusive learning environment that fosters student-teacher relationships, students are able to explore values, perceptions, cultures, health knowledge, and behaviors of clients from a variety of backgrounds and developmental stages, which enhances the students' appreciation of the human condition and the importance of advocating for social justice. The faculty believes that the nurse's role of service and leadership is best supported and enhanced by a well-rounded, comprehensive education.

The nursing curricula reflect the philosophy of educating the whole person and are designed to foster professionalism, intellectual capacity, and personal growth.

Program/Department Goals:

1. Apply and integrate principles from the liberal arts & sciences in the delivery of patient care, utilizing evidenced based research to guide practice.
2. Function as a valued member of an inter-professional team to promote quality improvement and patient safety.
3. Evaluate nursing practice & health policy in relation to health equity and social justice.
4. Provide leadership in nursing practice for delivery of compassionate care to individuals, groups & populations along the continuum of illness to wellness.
5. Demonstrate evidence of professional development and growth by engaging in activities to promote advancement of the profession.

Student Learning Outcomes (Expected Student Outcomes):

Upon completing the *Graduate of Science Degree in Nursing*, the graduate will be prepared to:

1. Demonstrate the ability to integrate scientific theory, nursing theory, and systems theory in the design, delivery and evaluation of nursing care across diverse settings.
2. Practice culturally responsive care, while applying the principles of ethical decision making and advocacy in the delivery of healthcare services to individuals, communities and populations.
3. Collaborate to enhance communication, coordination of care, and improve outcomes as a leader or member of an inter-professional team.
4. Apply leadership theory, organizational skills and decision making in provision of high-quality care while promoting health equity and social justice.
5. Apply research findings within the clinical setting, resolve practice problems, utilize current and emerging technologies in the role of change agent, and disseminate research results.

Technical Standards - Master of Science and Post-Master's Certificates

Each student must be able to meet the technical standards of performance that are necessary to gain the knowledge and skills for advanced nursing practice.

The nursing program's curriculum is designed to provide the education necessary for the advanced practice of nursing at the master's level of preparation. Students build on the fundamental principles of nursing,

acquire skills of critical judgment based on education and experience, and develop an ability to use principles and skills wisely in decision-making and problem solving pertaining to the delivery of safe, high quality nursing services.

Students of the M.S. program in nursing are expected to fulfill the following technical standards:

- Acquire information from demonstrations and experiences in the nursing and elective courses, including but not limited to, information conveyed through lecture, group seminar, small group activities and physical demonstrations.
- Acquire information from written documents and computer-information systems (including literature searches and data retrieval), and identify information presented in images from paper, videos, transparencies and slides.
- Use and interpret information from diagnostic maneuvers (e.g., sphygmomanometer, otoscope, ophthalmoscope, etc.), and other diagnostic representations of physiological phenomena during the course of conducting a comprehensive physical assessment of a client.
- Accurately elicit information, including a medical history and other information required to adequately and effectively evaluate a client's condition.
- Synthesize information, problem solve and think critically to judge which theory and/or strategy of assessment and intervention is most appropriate.
- Use intellectual ability, exercise proper judgment, timely and accurately complete responsibilities attendant to the advanced practice role.
- Maintain effective, mature and sensitive relationships with clients, students, faculty, staff, preceptors and other professionals under all circumstances.
- Communicate effectively and efficiently with faculty, colleagues, preceptors and all members of the health care team during practicum and other learning experiences.
- Possess emotional stability to function effectively under stress and adapt to changing environments inherent in the classroom and practice settings.
- Upon admission, a candidate who discloses a disability and requests accommodation will be asked to provide documentation of his or her disability for the purpose of determining appropriate accommodations, including modification to the program. The College will provide reasonable accommodations, but is not required to make modifications that would substantially alter the nature or requirements of the program or provide auxiliary aids that present an undue burden to the College. To matriculate or continue in the curriculum, the candidate must be able to perform all the essential functions outlined in the Technical Standards either with or without accommodation.

Academic Criteria

1. At least a 3.0 G.P.A. to graduate from the master of science or post-master's certificate program of study.
2. A grade of B or better must be earned in all nursing courses. Any grade lower than a B requires that a course be repeated.
3. Withdrawal from a course for academic reasons will count as having taken the course and being unsuccessful in it. Only one course can be repeated and a course can only be repeated once. A grade of B or P must be earned in theory as well as practicum courses. A student

who fails a P/F course will be placed on academic probation. The course must be repeated.

4. Evidence of an unencumbered RN licensure by the New York State Board of Nursing.
5. Current CPR certification and evidence of recent physical exam (within 12 months), up-to-date immunization status, and PPD status.
6. Professional behavior in the classroom, laboratory and practicum settings according to the American Nurses Association's standards of practice and codes of conduct.
7. Compliance with the technical standards of performance (provided at the time of application and published in this catalog) that are necessary to gain the knowledge and skills for advanced nursing practice.
8. Completion of the program within five years of matriculation.

Behavioral Probation

The hallmarks of a nursing professional are to exhibit at all times the behaviors that represent the practice standards and norms of ethical conduct expected of graduate nursing students. A violation of these expected behaviors may result in a decision by the Chair of Nursing and the Dean of the Purcell School of Professional Studies, in conjunction with the Academic Standards Committee (ASC) of the Department of Nursing, to place a student on behavioral probation for a minimum of at least one semester. The nursing department follows the college grievance policy. (p. 56)

In conjunction with the American Nurses Association's Code of Ethics for Nurses with Interpretative Statements (2001), examples of professional behaviors include, but are not limited to, demonstrating the following:

- caring, sensitivity, compassion, tact, integrity, and tolerance towards others
- written, verbal, and nonverbal communication that conveys respect for clients, self, peers, and faculty
- responsibility and accountability for all actions, including timeliness to classroom, laboratory, and clinical experiences as well as prompt reporting to meetings with administrators, faculty, advisors, and preceptors
- appropriate use of technology to maintain client privacy and confidentiality of medical information and to avoid disruptions in learning environments (class, lab, and clinical) as well as in meetings with students, faculty, staff, and colleagues, and to project a professional image on social media venues
- appearance and conduct that conveys professional demeanor and adheres to institutional policies and procedures
- remaining free of chemical dependency or substance abuse in classroom, laboratory, and clinical settings

Transfer Credit/Waiver Policy

A student may transfer up to 12 credits of equivalent course work to meet master of science program requirements, but must take 27 credits in the program of study to satisfy College residency requirements. A maximum of two courses can be transferred to satisfy major track requirements. A request for transfer credit to meet degree requirements must be made prior to the date of matriculation. All courses considered for transfer or waiver will be evaluated on an individual basis by the Graduate Admissions committee. Courses from previous colleges taken at the graduate level more than seven years prior to matriculation may be considered for transfer credit only with approval by the course instructor

and department chair if justification of equivalency via a written petition is documented, such as the student has significant practice experience relevant to the major content of the course(s).

Requests for transfer credit must be made in writing to the chair of the Department of Nursing.

Completion of at least nine credits in the post-master's certificate program of study must be earned at Le Moyne College to satisfy residency requirements. A maximum of three credits of equivalent course work may be transferred to meet the certificate's program requirements.

Term Limit for Completion

Upon matriculation, a student has five years to complete the degree requirements. A waiver to grant the student extension beyond the five-year limit will be considered on an individual basis depending on the extenuating circumstances.

Probation and Termination

A matriculated student will be placed on academic probation if overall G.P.A. falls below 3.0 during any given semester. A student will be terminated if her/his G.P.A. falls below 3.0 for two consecutive semesters immediately after the student has been placed on probation and/or if a student earns a B- or less in more than one course in the curriculum, or fails a clinical course. A student who has failed two P/F courses may be terminated.

Withdrawal or Leave of Absence

For personal or medical reasons, a student may voluntarily discontinue enrollment at the College by requesting either a leave of absence (temporary) or a withdrawal from the College (permanent).

A leave of absence is a temporary hiatus from the College with the intent to return after a specified period of time. Students requesting a leave of absence must indicate when they plan to return to their studies. The total time away from the College cannot exceed two consecutive semesters. A student may not take matriculated coursework at another institution while on a leave of absence. To be eligible to return from a leave of absence, the student must demonstrate readiness to return by satisfying all requirements for return. If a student does not return from a leave of absence at the scheduled time, the student will be administratively withdrawn from the College and must apply for readmission.

A withdrawal is a permanent separation from the College. A student who has withdrawn must apply for readmission to the College if the student wishes to re-enroll. Students withdrawing from a graduate Purcell program will be contacted by a Purcell administrator for a brief exit interview.

A student may request a personal or medical leave of absence or a withdrawal by completing the Purcell Graduate Leave of Absence/Withdrawal Form available through their department. A student requesting a leave of absence or withdrawal will meet with a designated program official to discuss the academic and financial implications of their decision. The designated program official will also discuss the requirements for return if a student is taking a leave of absence.

If the request for a personal or medical leave of absence/withdrawal is approved for a future semester, then the student may remain enrolled in and receive grades for the current semester. The student will have a hold on future registration until the conditions of return have been met. If the request for a personal or medical leave of absence/withdrawal

is approved for a current semester, then depending on the academic calendar and personal circumstance the program director or chair can determine the most appropriate resolution for the student's enrollment. The student may not take a leave of absence and remain enrolled in the students coursework if the leave of absence is for the current semester.

The College may require a student to take a medical leave of absence or withdrawal if, in the judgment of the College, the student poses an imminent threat to the lives, safety or well-being of themselves or other members of the college community (including preceptor and internship settings).

Except in unusual circumstances where safety is of immediate concern, the College will make a decision to involuntarily withdraw a student only after providing the student with advance notice and an opportunity to meet with Purcell officials.

In cases of both medical leaves of absence and withdrawals, the tuition refund policies specified in the Le Moyne College Catalog apply.

Readmission

A student who has withdrawn from the program in good standing may reapply at any time. Reapplication requires completing all admission requirements with the exception of needing only one additional letter of recommendation. Also, a letter stating the reason for requesting re-acceptance must accompany the application materials. The applicant should check with the registrar to find out if original official transcripts are still on file at the College and also submit new transcripts of any additional course work taken since the date of withdrawal.

Advisement

Advisement is a progressive collaborative process that provides for the exchange of confidential information in an atmosphere of safety, respect and privacy. A student must be in contact (in person, via e-mail or by telephone) with her or his advisor at least once per semester to be unblocked for course registration for the following semester. All matriculated nursing students are assigned a full-time faculty member in the department for academic advisement. Availability of advisors is by posted office hours or by appointment.

Health Clearance

Every student must be in compliance with the health requirements of Le Moyne to maintain matriculation and of each institution or agency in which they fulfill practicum components of their course work.

Admission to Master & Post Master Nursing programs

Master's Program

Applicants must have either a Bachelor of Science in Nursing or must be a registered nurse with a bachelor's degree in another field who have completed the RN Prerequisites for Graduate Admission (p. 489).

Post-Master's Certificates

Registered nurse applicants to the post-master's certificate program must hold a bachelor's degree in nursing or related field and a master's degree in nursing.

Admission Criteria

1. A cumulative Grade Point Average (GPA) of 3.0 or *higher* is required, depending on the program of study (POS).

2. A completed application including a statement of purpose **clearly identifying** why the applicant wants to pursue the particular POS (FNP, Administration, Education); official transcripts of all colleges/universities attended; and three (3) letters of reference from professional colleagues who can speak to your clinical or academic potential as follows:

3. Letters of reference:

For FNP program a letter of reference from (1) a RN peer, (1) a nursing supervisor or faculty member, and (1) a Nurse Practitioner, Physician Assistant, or Physician.

For Administration or Education program (*These programs are currently on hold, not enrolling at this time*) a letter of reference from (1) a RN peer, (1) a nursing supervisor, and (1) a former or current faculty member.

4. Evidence of unencumbered, current licensure to practice as an RN in New York State.

5. Graduation from a state-approved baccalaureate program in nursing, or graduation from an associate degree or diploma program in nursing with a bachelor of arts or bachelor of science in another field¹, or graduation from an accredited master's degree program in nursing for students enrolling in the FNP Post-Master's advanced certificate program.

6. A professional resume listing relevant educational and work experience.

7. Completion of basic statistics course or equivalent and an undergraduate Health Assessment course.

8. **For the FNP POS only:** Prior to the start of **NSG 672 FNP Clinical II**, the applicant must have completed one year or a full time equivalent of RN nursing practice in Medical-Surgical Nursing in an acute care setting.²

Additionally, candidates applying to the FNP POS are strongly encouraged to secure some primary care clinical (e.g. family practice, pediatrics, women's health) preceptors or sites prior to admission.

Note:

An interview with the Director or faculty of the Graduate program, maybe extended by program before decision is made.

The Graduate Record Exam (GRE) is not required but scores may be submitted if they have been taken and the applicant determines that they provide additional evidence of eligibility for graduate study.

Some programs require a fall semester start.

In certain programs, M.S. applicants may begin taking classes (up to six credits) as a non-matriculated student prior to or while in the process of applying to the program. In certain programs, post-master's applicants may begin taking a course (three credits) prior to or while in the process of applying to the program.

¹ RN Prerequisites for Graduate Admission

² Other RN nursing experience may be considered at the discretion of the Director of the Advanced Practice Nursing Program.

prerequisites prepares the students for eligibility to continue their education in the Master of Science Program in Nursing at Le Moyne College. RN candidates may apply to the Master's program and receive a conditional admission while completing these RN Prerequisites. Contact Graduate Admission for specifics.

Completion of these prerequisites does not constitute a BS degree in nursing.

The prerequisites consist of six courses offered on a part-time basis. Applicants must achieve a minimum grade of C in each course. A maximum of two equivalent courses may be transferred in if a grade of C or better was earned. Upon completion of the following 6 courses the student is prepared to continue graduate study in the FNP, nursing education (currently on hold, not accepting applications), or nursing administration (currently on hold, not accepting applications) at Le Moyne College.

Code	Title	Credit Hours
MTH 110	Introduction to Statistics I (no Computer Lab)	3
NSG 315	Health Assessment	3
BSC 345	Pathophysiology	3
NSG 350	Research in Nursing	3
NSG 410	Management and Leadership in Nursing	3
NSG 440	Community Health	4
Total Credit Hours		19

- MS in Nursing: Education or Administration (p. 498) (currently on hold)
- Post-Master's Certificates (p. 499)
- Family Nurse Practitioner (MS) (p. 500)

Nursing (NSG)

NSG 501. Holistic Stress Management. 3 Credit Hours.

This course is designed to introduce undergraduate and graduate students to the field of holistic stress management. Stress will be understood from physiological, psychological, and spiritual dimensions. The impact and role of physical activity, nutrition, sleep, cognitive coping skills, and relaxation techniques will be examined from the perspective of how they support health and prevent and/or alleviate the physical symptoms of stress when caring for self, patients, families, or others. Students will learn comprehensive principles, theories, and skills needed to effectively manage personal stress, and to understand the psychosomatic (mind-body-spirit) relationship. The course will support students to employ a holistic approach to stress management in both their personal and professional lives.

RN Prerequisites for Graduate Admission

This option is designed for the registered nurse (RN) who has a bachelor's degree in a field other than nursing. The completion of these

NSG 531. Advanced Nursing Practice. 3 Credit Hours.

The purpose of this course is to prepare graduate nurses with higher level knowledge and skills in assessment, diagnostic, reasoning, and management of client problems within a society area of clinical practice. This course is a comprehensive coverage of advanced physiological mechanisms and specific pathologies affecting all of the major organ systems of the human body and advanced health assessment skills with an emphasis on concepts of health promotion, risk management, and disease prevention. The focus is on causality of alternations in human physiological functions in the adult population. Strong emphasis is placed on developing sound clinical decision-making abilities based on an understanding advanced pathophysiology. The concepts of normal physiology and pathological phenomena as a result of altered states of health are contrasted. The human physiological responses to various diseases and disorders are examined in detail from the micro (cellular) and macro (organ) level. Diagnostic tests, laboratory values, and treatment methods pertinent to identifying and managing these alterations in health are discussed. Course assignments are laboratory practice activities enhance the student's history taking, physical assessment, and critical thinking skills essential for planning, delivering, and evaluating health care.

NSG 535. Epidemiology. 3 Credit Hours.

This course will serve as an introduction to epidemiology as a basic science for public health and clinical medicine. Epidemiological principles and methods are presented with emphasis on the health status and health needs of a population, on levels of prevention, on susceptibility, communicability, and modes of transmission, and on promotion of health using various strategies. Statistical measures are applied to describe the incidence and prevalence of disease, fertility rates, morbidity and mortality rates, health beliefs and behaviors, socioeconomic, ethnic and racial disparities, causality of disease and disability, and risk factors for the purpose of evidence-based decision making in public health. (Note: This course is not open to students who have taken BSC 435 as undergraduates at Le Moyne College.)

NSG 545. Psych of Grief: Current Under & Interven. 3 Credit Hours.

This course examines the experience of individuals and families in the face of death and loss. The course will focus on the nature and causes of grief as well as strategies for effective counseling interventions. There will be an emphasis on loss due to death however, other types of psychosocial and physical losses will also be considered. Accordingly, we will explore a variety of factors that facilitate or impede the grief process. The course will initially trace the development of dominant models of grief and their historical and theoretical underpinnings. Considerable emphasis will be on examining the grief process as it is played out in the context of family. The family is seen as an interactive system, with a complex mix of actions, perceptions and expectations that influences the experience of grief among family members. This course will also consider a postmodern view of bereavement as a complex phenomenon embedded in a unique context involving social, cultural, philosophical and psychological factors. The second half of the course will have a distinct practitioner emphasis by connecting theoretical understandings to practical applications and interventions. Senior standing required. Prerequisite: PSY 101 and PSY 201 or permission of the chair.

Cross-listed Courses: PSY 445

NSG 561. Principles of Teaching and Learning. 3 Credit Hours.

The focus of this course is to provide students with the knowledge and skills necessary to educate various audiences in a variety of settings with efficiency and effectiveness. It is a comprehensive coverage, both in scope and depth, of the essential components of the education process and the principles of teaching and learning. Designed to increase students' proficiency in educating others, it takes into consideration the needs and characteristics of the learner as well as how to choose and use the most appropriate instructional techniques and strategies by which to optimize learning. The theories and concepts addressed in this course can be applied to any audience of learners, whether they are patients and their families, staff nurses or student nurses. An understanding of the basics of teaching and learning allows the educator to function in the role as a "guide by the side" and as a "facilitator" of learning, rather than merely as a "giver of information". This approach enables the audience of learners to act as responsible partners in the teaching/learning process. Emphasis is placed on preparing students to assess, teach, and evaluate learners of all stages of development based on their learning needs, learning styles, and readiness to learn. If NSG 461 or its equivalent has been completed, a graduate-level 3-credit education elective must be substituted to meet master's degree in nursing requirements.

NSG 566. Contemp Issues in Healthcare Leadership. 3 Credit Hours.

The focus of this course is on the role of the evolving leadership of skills of the master's prepared nurse at various levels of authority and in different practice settings in dealing with a myriad of issues and challenges in a changing and complex world of healthcare delivery. Through a review of leadership paradigms, organizational structure, and current healthcare regulations, students have the opportunity to explore the responsibility and accountability of the master's prepared nurse to internal and external stakeholders. Interprofessional collaboration, development of leadership functions, the influence of technology resources, adherence to ethical and legal standards, advocacy for change or maintaining tradition, and the influence of policy decisions at all levels are considered. Also discussed are issues related to quality improvement, negotiating conflict, personnel and fiscal management, and shared governance models. Skills essential to leadership include communication, collaboration, negotiation, delegation, and coordination.

NSG 590. Independent Study. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure, and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair, and the Dean. It will be kept on file in the office of the Dean.

NSG 591. Independent Study. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure, and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair, and the Dean. It will be kept on file in the office of the Dean.

NSG 592. Independent Study. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure, and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair, and the Dean. It will be kept on file in the office of the Dean.

NSG 593. Independent Study. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure, and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair, and the Dean. It will be kept on file in the office of the Dean.

NSG 594. Independent Study. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure, and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair, and the Dean. It will be kept on file in the office of the Dean.

NSG 595. Independent Study. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure, and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair, and the Dean. It will be kept on file in the office of the Dean.

NSG 596. Independent Study. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure, and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair, and the Dean. It will be kept on file in the office of the Dean.

NSG 597. Independent Study. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure, and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair, and the Dean. It will be kept on file in the office of the Dean.

NSG 598. Independent Study. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure, and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair, and the Dean. It will be kept on file in the office of the Dean.

NSG 599. Independent Study. 1-6 Credit Hours.

A student who wishes to pursue an independent study project for academic credit must submit, prior to registration a proposed plan of study that includes the topic to be studied and the goal to be achieved, the methodology to be followed, schedule of supervision, end product, evaluation procedure, and the number of credits sought. The proposal must be approved by the supervising faculty member, the department chair, and the Dean. It will be kept on file in the office of the Dean.

NSG 609. Clinical Teaching in Nursing Education. 3 Credit Hours.

This course will assist nurse educators to develop skills to teach in the unique environment of the clinical and learning laboratory setting. The student will apply theory of teaching and learning to assess the needs and learning style of students in clinical and learning laboratory settings and design meaningful experiences to meet course and clinical objectives. The course will focus the student on making appropriate assignments, designing pre and post conferences, and evaluating student performance. Special situations including selection of preceptors, working with a culturally diverse student and patient population, and managing agency staff expectations will be explored. Legal, ethical and human resource issues will be discussed.

NSG 611. Managing Systems Projects. 3 Credit Hours.

This course focuses on introductory project management processes, technology and tools, utilizing the Project Management Institute's (PMI) Project Management Body of Knowledge (PMBOK) and the Software Engineering Institute's (SEI's) Capability Maturity Model Integration (CMMI) processes and nomenclature. Students examine the processes and theory of project management as well as industry case studies, and will utilize project management software in support of their management activities. Guest speakers and field research provide students with access and information from industry and academia. Students are engaged in a semester-long project. Initially, they are required to identify the project scope and team charter for their project; subsequent assignments require them to prepare a business case, work breakdown structure, cost estimate, and final project documentation for their project. Cross-listed Courses: MIS 711

NSG 612. Health Issues in an Aging Society. 3 Credit Hours.

This course explores the health and wellness issues encountered by a growing numbers of Americans entering late-life years. Healthy aging as well as common illnesses faced by this population will be explored from physiological, psychological, economic, and spiritual perspectives, including emphasis on end-of-life preparation and care. Individualization of care planning based on cultural norms, ethnicity, and moral concerns of the client and family will be incorporated. Discussion of the capacity of the health care system, in particular the professional knowledge and skills of nurses, to meet the needs of this growing segment of society will be discussed. Also, focus will be placed on policy to support productive and healthy aging, choices in end-of-life care, and the role of nurses and nursing in advancing these goals.

NSG 613. Gross Anatomy. 3 Credit Hours.

Based upon a comprehensive series of regional anatomical dissections, students learn to relate the structure and function of organs and organ systems to their understanding of a wide variety chronic diseases, surgical procedures, and traumatic injuries. The relevance of the distribution and function of blood vessels, lymphatics and nerves to the composition, components and specific roles of the cardiovascular, respiratory, digestive, excretory, reproductive and musculoskeletal systems will be emphasized with respect to common clinical cases and accompanying complications. The laboratory experiences will be supplemented by short didactic summaries of the anatomy related to the dissection and to its clinical application. Only open to FNP students.

NSG 614. Healthcare Politics, Policy and Law. 3 Credit Hours.

This course encompasses the principles of political action. Using analysis of this action to provide knowledge of the structure, process, and outcomes in the development of health policy in the United States. Theories of political socialization, community organization, citizen participation, and political action are examined and applied to the understanding of the healthcare political climate and the development of health politics in the US. Emphasis is placed on health professional/provider group influence and their impact on the development of health policy.

NSG 615. Advanced Research. 3 Credit Hours.

This course reviews the research process and focuses on analyzing and evaluating research at the advanced level of nursing practice. Principles of scientific inquiry, including identification of nursing and multidisciplinary theoretical and conceptual frameworks, are used to delineate research questions and uncover evidence for the continuous improvement of nursing practice. Expected competencies include the identification, analysis, and synthesis of research findings related to clinical practice and health care outcomes. Emphasis is on the translation of research to support and inform practice innovations. A basic understanding by the student of the research process, terminology, and statistics is assumed. Prerequisite of undergraduate research course and basic statistics course.

NSG 616. Research Application. 2 Credit Hours.

This course is a continuation of NSG 615 and further builds on research concepts and skills presented in that course. This course will include in-depth exploration and application of qualitative research methodology, as well as further developing quantitative research and evidence-based practice (EBP) skills. Students will perform data analysis using statistical software, navigate the IRB application process, and critique qualitative research methodology. Students will be required to more fully develop papers initiated in NSG 615 to include qualitative research, approaches to data analysis, and IRB application development. Students will also present and defend their EBP/Research Proposal to faculty and peers. Prerequisite: NSG 615.

NSG 625. Health Care Delivery Systems. 3 Credit Hours.

This course focuses on formal and informal health care systems within American communities by addressing their historical development, the major forces shaping their present status, and emerging directions of these systems. Throughout the course, the implications for the roles and actions of nurses within health care organizations are explored with respect to planning, policy formulation, financing, and evolving methods of delivering services to clients. Within a rapidly changing health care environment, it is imperative that students understand the actual and potential role of nursing at the local, state, and national levels from the perspective of geographic influences, socio-cultural demands, and environmental stressors impacting on communities and on the available health care systems. Current health care reform issues, concepts and models of health care delivery, directions for change, and methods affecting organizational change on individuals, groups, as well as the nursing profession will be examined and discussed. The purpose of this course is to prepare nurses as leaders in managing various resources for the delivery of quality, cost-effective care.

NSG 626. Systems Thinking for Quality Care. 3 Credit Hours.

This course is designed to provide the student with a comprehensive understanding of patient safety and its relationship to quality improvement concepts. The course explores principles of creating and leading a health care team to deliver highly reliable care focused on patient safety. Students will be provided with an awareness of how the elements of quality management, risk management, as well as data management and general leadership skills integrate together to produce an effective and efficient system to monitor and improve care. A particular emphasis is placed on leadership characteristics essential to creating and sustaining a culture of safety within the health care organization.

NSG 635. Curriculum and Program Development. 3 Credit Hours.

The purpose of this role course is to further develop the knowledge and skills of the nurse as educator. Although the emphasis is on preparing faculty for an academic role, the principles are applicable for nurse educators in staff development, in-service, and continuing education. Thus, the competencies and responsibilities of the educator in a variety of settings are explored. Ethical, legal, political, social, economic, and professional standards issues are examined as they impact on the education process and influence curriculum and program development. Students are given the opportunity to design, apply, and critique creative teaching and learning strategies as well as to develop outcome criteria as a measure to evaluate the success of educational programs and curriculum plans. As a culminating aspect of this course, students examine both the entrepreneurial roles of the nurse educator and how to negotiate an educator position through the use of marketing and interviewing techniques. Seminar and other adult learning approaches are used to foster critical thinking and active participation. Prerequisite: NSG 461 or NSG 561.

NSG 636. Palliative Care Concepts. 3 Credit Hours.

The focus of this course is to provide students with the knowledge and skills necessary to provide high quality, specialist-level palliative care to patients and families as they experience life-limiting illness. The students will gain an understanding of the history and practice of palliative care in the United States and other world countries. This course will address advanced communication skills critical in end-of-life care. Symptom management including physical, psychological, social and spiritual distress will be examined, and strategies to manage these issues will be assessed. An understanding of the role of the advanced practice nurse in palliative care will provide students with the ability to function as a critical member of the interdisciplinary team. In addition, students will conduct an analysis of policy factors relevant to palliative care and its future directions.

NSG 637. Ethical Leadership in Nursing. 3 Credit Hours.

The practice of leadership is not confined to those in positions of authority but is required of every member of the profession. Leadership qualities and skills are essential requirements for expert practice in all nursing settings. This class is designed to create an atmosphere of autonomy, personal responsibility, open-mindedness and continuous learning. Emphasis is placed on the values of caring for the whole person, health care equity, and decision-making in moral and ethical issues. This course is designed to offer both theoretical foundations of leadership and application of practical skills for nursing leaders.

NSG 638. Healthcare Economics & Financial Management. 3 Credit Hours.

This course is designed to provide the student with an understanding of the economic and financial realities in health care. An overview of health economics including relationships to supply, demand, price and concepts relevant to payment mechanisms provides a basis for financial management. Understanding the relationship of strategic & operational planning to budget formulation & execution will provide knowledge and insight to guide management and decision-making for improved patient care outcomes and patient satisfaction. A focus on budget preparation and monitoring provides the necessary learning to understand variance and variance analysis. An introduction to the concepts of analyzing financial performance in a health care setting integrates the economic and financial contingencies presented in the course. Successful completion of this course will equip the student with the tools necessary to be able to effectively communicate with finance professionals regarding decisions being made in the organization.

NSG 640. Physiological Changes in Aging. 3 Credit Hours.

This course will focus on the human aging process from a physiological perspective with emphasis on the changes that result in environmental modifications to keep the older adult safe, healthy and productive. Major theories of aging will be explored in relation to common health problems faced by the older adult. Particular emphasis will be placed on concepts of pharmacology and the issues of medications and drug use in the older adult. Special pharmacological problems created by the aging process will be discussed. Students will use the nursing process to develop plans of care to promote healthy behaviors in the older adult and educate the client, family, and significant others on environmental and lifestyle modifications that may assist the older adult to remain independent and healthy.

NSG 650. Educational Assessment & Evaluation. 3 Credit Hours.

This course focuses on the role of the nurse educator in assessing and evaluating the learner (nursing students and nursing staff) from the beginning to the completion of an academic program or other type of education endeavor, such as staff development, in-service, and continuing education programs. A major emphasis is on exploring creative assessment and valuation strategies, using various methodologies to determine learner performance in classroom, laboratory, and clinical settings. The assessment and evaluation processes include exploring topics related to recruitment, admission, progression, retention, and graduation of learners. A major emphasis is on test development, which involves techniques for writing and critiquing different types of examination items as well as scoring, grading, and determining the reliability and validity of tests. Students critically examine issues, policies, procedures, and current research data in education by actively participating in seminars, individual or small group project, class presentations, and other adult learning approaches. Through the development of knowledge and skills, students are expected to gain a broad perspective on the role of the nurse as educator.

Prerequisites: NSG 461 or NSG 561.

NSG 651. Instructional Design. 3 Credit Hours.

This course is designed to teach the fundamentals of instructional design, including the principles of learning theory, pedagogy, and instructional strategies. Strategies will encompass classroom, print and media based tools and activities. The course will provide students with the knowledge and skills to develop courses as well as instructional materials for a variety of setting. Topics instructional design and course outcomes planning, elements of a syllabus, scaffolding and sequencing content as well as strategies for enhancing student engagement and lifelong learning.

NSG 660. Advanced Pathophysiology. 3 Credit Hours.

This course builds on foundational knowledge of anatomy, physiology, and basic pathophysiology obtained through undergraduate coursework. Alterations of various physiological systems that are frequently encountered in primary care are explored from a lifespan perspective. A case study approach is used to analyze risk factors, pathophysiological changes, signs and symptoms of disease processes, and disease outcomes. Current and appropriate screening and diagnostic evaluative methods are also reviewed to enhance critical thinking and assist the student in developing diagnostic reasoning and clinical management skills.

NSG 663. Advanced Pharmacology. 3 Credit Hours.

This course focuses on applied pharmacology for acute and chronic diseases that are commonly encountered in the primary care setting. The focus is on special populations, efficacy, drug interactions, and the cost and benefit of pharmacological interventions. Proper prescribing, patient education, and monitoring procedures are discussed as well as compliance issues, drug overuse and abuse, and legal/ethical issues related to prescribing.

NSG 665. Advanced Health Assessment I. 3 Credit Hours.

This course, which serves as the foundation for the Advanced Practice Nursing clinical coursework, focuses on the development of comprehensive, advanced health assessment skills, diagnostic reasoning, and management of common problems in the adult population. Course assignments, laboratory practice, and the use of Observed Structured Clinical Examinations (OSCEs) and case studies enhance the students communication and interviewing skills, complex bio-psycho-social assessment, and critical thinking skills essential for planning, delivering, and evaluating health care. Emphasis is placed on the synthesis of assessment data to arrive at differential diagnoses. Students learn to present patient histories and exam findings in a concise and effective manner.

NSG 666. Advanced Health Assessment II. 3 Credit Hours.

This course, the second in a sequence of clinical courses, builds upon concepts introduced in Advanced Health Assessment I. Theoretical and clinical foundations for comprehensive health assessment through the lifespan from birth through senescence are emphasized. The course furthers the development of the advanced practice role as students apply their physical assessment and diagnostic reasoning skills across diverse populations with increasing competence, confidence, and leadership. The focus of the course is on the comprehensive biopsychosocial assessment of populations from pediatrics (infants, school age children, and adolescents), through reproductive health, and geriatrics, as well as the management of commonly encountered problems in these populations. Emphasis is placed on age appropriate assessment techniques, the identification of normal and abnormal findings, the development of differential diagnoses, and the development of management plans that include teaching strategies that focus on prevention and anticipatory guidance. Course assignments, laboratory practice, and the use of Observed Structured Clinical Examinations (OSCEs) and case studies refine the students communication and interviewing skills, comprehensive assessment skills, and critical thinking skills essential for planning, delivering, and evaluating health care of individuals and families. Pre-requisite: NSG 665: Advanced Health Assessment I.

NSG 667. Advanced Practice Nursing Role. 2 Credit Hours.

This course introduces students to the history, ethical standards, and development of the various roles of the Advanced Practice Nurse (APN). The professional, organizational, and scope of practice requirements for each role are explored. APN role transition, certification, and professional activities are examined as they relate to the profession of nursing. Select theories and practices from nursing and related disciplines are integrated to provide a foundation for the graduate student to transition into the advanced practice role and to provide comprehensive care to diverse populations.

NSG 672. FNP Clinical II. 3 Credit Hours.

This is the first clinical rotation in a progressive sequence of Advanced Practice Nursing clinical courses for the Family Nurse Practitioner student. The course focuses on the practice and refinement of clinical history taking and assessment skills in an adult, primary care family population under the supervision and guidance of a clinical preceptor. Students perform age-appropriate, comprehensive and focused histories and physical exams in pediatrics, adolescent, and adult reproductive health, and geriatrics. Students gain proficiency with presenting concise and accurate patient histories and exam findings to their preceptors. Additionally, students work independently on diagnostic reasoning skills to develop differential diagnoses and formulate the plan of care for their preceptors' review. Emphasis is placed on patient education with a focus on anticipatory guidance and prevention. Students are required to complete 270 hours of supervised clinical practice. Pre / Co-requisites: NSG 660: Advanced Pathophysiology, NSG 663: Advanced Pharmacology, NSG 665: Advanced Health Assessment I, and NSG 667: Advanced Practice Nursing Role.

NSG 673. FNP Clinical III. 3 Credit Hours.

This is the third clinical rotation in a progressive sequence of Advanced Practice Nursing clinical courses for the Family Nurse Practitioner student. The course, which must be taken simultaneously with NSG 681, focuses the diagnosis and management of common acute and chronic health problems that occur in the family population across the lifespan. Students are expected to gain proficiency with performing histories and physical exams, developing differential diagnoses, and a prescribing a plan of care for each patient. Students present each patient and the management plan to their preceptors for review. Emphasis is placed on professional collaboration and interdisciplinary consultation with other health professionals, teaching patients and families, and using evidence-based practice to prescribe and evaluate therapeutic interventions. Students must complete 270 hours of clinical for this course. Pre-requisite: NSG 672: FNP Clinical II. Co-requisite: NSG 681: Health & Illness Management I.

NSG 674. FNP Clinical IV. 3 Credit Hours.

This is the final clinical rotation in a progressive sequence of Advanced Practice Nursing clinical courses for the Family Nurse Practitioner student. The course, which must be taken simultaneously with NSG 682, continues to focus on the diagnosis and management of acute and chronic health problems in the family population, however more emphasis is placed on the students independent management of increasingly complex patients. Students are expected to be proficient with performing histories and physical exams, developing differential diagnoses, and prescribing a plan of care for each patient. Students present each patient and an independently formed management plan to their preceptors for review. Emphasis is placed on professional collaboration and interdisciplinary consultation with other health professionals, teaching patients and families, accountability and patient advocacy, and using evidence-based practice to prescribe and evaluate therapeutic interventions. Students must complete 270 hours of clinical for this course. Pre-requisite: NSG 673: FNP Clinical III. Co-requisite: NSG 682: Health & Illness Management II.

NSG 680. Care Transitions. 3 Credit Hours.

This course will explore the movement of patients and families/ caregivers between health care providers, different levels of care, and healthcare settings during the course of chronic or acute illnesses. Care transitions will provide the learner with insight into the critical role of the registered professional nurse as the coordinator of the healthcare team in the development of a culturally competent, comprehensive patient and family/caregiver-centered complex plan of care. This includes assessing and addressing the level of engagement in self-management and "compliance." Current validated models used to optimize transitions in care and improve client outcomes, such as readmission rates and medication errors, will be introduced along with principles of adult learning, how to identify health literacy and literacy deficits, and how to tailor appropriate education into daily practice.

NSG 681. Health & Illness Management I. 3 Credit Hours.

This course, which must be taken simultaneously with NSG 673, is designed to prepare the Family Nurse Practitioner (FNP) student with a theoretical and practice foundation for evaluating and managing common disorders across the lifespan using a family-centered approach. Building upon knowledge of anatomy, physiology, pathophysiology, pharmacology and advanced health assessment, students advance critical thinking skills by synthesizing assessment data to formulate differential diagnoses and management plans. Emphasis is placed on diagnosis and management of commonly occurring acute and chronic health problems from a lifespan perspective. Students practice and refine their assessment and diagnostic skill sets under the supervision of clinical faculty in the lab, and clinical preceptors in the field. Simultaneously, the student continues to develop in the role of the Advanced Practice Nurse through professional collaboration and consultation with other health professionals, teaching patients and families, and by using evidence-based practice to prescribe and evaluate therapeutic interventions. Seminars, clinical topic discussions, tests, case studies, OSCEs, and clinical practicum experiences further refine the students communication, comprehensive assessment, and critical thinking skills essential for planning, delivering, and evaluating health care of individuals and families. Pre-requisite: NSG 666: Advanced Health Assessment II Co-requisite: NSG 673: FNP Clinical III.

NSG 682. Health & Illness Management II. 3 Credit Hours.

This course, which must be taken simultaneously with NSG 674, is a continuation of NSG 681 and is designed to prepare the Family Nurse Practitioner (FNP) student with a theoretical and practice foundation for evaluating and managing common disorders across the lifespan using a family-centered approach. Building upon knowledge of anatomy, physiology, pathophysiology, pharmacology, advanced health assessment, and concepts learned in NSG 681, students advance critical thinking skills by synthesizing assessment data to independently formulate differential diagnoses and management plans. Students integrate knowledge and practicum experiences in primary, secondary and tertiary preventive care interventions of patients and families. Emphasis is on the care for persons with acute and chronic issues throughout the lifespan. Students experience a variety of care settings as they continue to practice and refine their assessment and diagnostic skill sets under the supervision of clinical faculty in the lab and clinical preceptors in the field. Simultaneously, the student continues to develop in the role of the advanced practice nurse through professional collaboration and consultation with other health professionals, teaching patients and families, accountability to and advocacy for patients and families, and by using evidence-based practice to prescribe and evaluate therapeutic interventions. Seminars, clinical topic discussions, tests, case studies, OSCEs, and clinical practicum experiences further refine the students communication, comprehensive assessment, and critical thinking skills essential for planning, delivering, and evaluating health care of individuals and families. Pre-requisite: NSG 681: Health and Illness Management I. Co-requisite: NSG 674 FNP Clinical IV. Prerequisite: NSG-672.

NSG 690. Special Topics in Nursing. 3 Credit Hours.

This series of courses provide the opportunity for the study of content specifically related to nursing and health care that is not included in regularly scheduled course offerings. Courses designated as such will explore professional topics and issues of particular interest to students and faculty.

NSG 691. Special Topics in Nursing. 3 Credit Hours.

This series of courses provide the opportunity for the study of content specifically related to nursing and health care that is not included in regularly scheduled course offerings. Courses designated as such will explore professional topics and issues of particular interest to students and faculty.

NSG 692. Special Topics in Nursing. 3 Credit Hours.

This series of courses provide the opportunity for the study of content specifically related to nursing and health care that is not included in regularly scheduled course offerings. Courses designated as such will explore professional topics and issues of particular interest to students and faculty.

NSG 693. Special Topics in Nursing. 3 Credit Hours.

This series of courses provide the opportunity for the study of content specifically related to nursing and health care that is not included in regularly scheduled course offerings. Courses designated as such will explore professional topics and issues of particular interest to students and faculty.

NSG 694. Special Topics in Nursing. 3 Credit Hours.

This series of courses provide the opportunity for the study of content specifically related to nursing and health care that is not included in regularly scheduled course offerings. Courses designated as such will explore professional topics and issues of particular interest to students and faculty.

NSG 695. Special Topics in Nursing. 3 Credit Hours.

This series of courses provide the opportunity for the study of content specifically related to nursing and health care that is not included in regularly scheduled course offerings. Courses designated as such will explore professional topics and issues of particular interest to students and faculty.

NSG 696. Special Topics in Nursing. 3 Credit Hours.

This series of courses provide the opportunity for the study of content specifically related to nursing and health care that is not included in regularly scheduled course offerings. Courses designated as such will explore professional topics and issues of particular interest to students and faculty.

NSG 697. Health Information Systems. 3 Credit Hours.

This course provides students with the knowledge of the design, use, and evaluation issues of health informatics applications. The topics include: (1) health informatics as a discipline; (2) career options for health informatics; (3) major health applications and commercial vendors; (4) strategic information systems planning and project management; and (5) new opportunities and emerging trends. A semester-long group will provide students hands-on experience in planning healthcare information systems; associated ethical and legal concerns, software engineering and human-computer interaction issues, and user acceptance and outcomes evaluation methods will also be discussed.

Cross-listed Courses: NSG 387, MIS 450, MIS 710

NSG 701. Teaching Practicum. 3 Credit Hours.

This nurse educator role course provides the student with an in-depth opportunity to explore and apply teaching and learning theories, concepts, and skills previously acquired in the program to an educational setting. Under the guidance of a faculty member and an expert preceptor, the student will actively participate in the development, implementation, and evaluation of teaching/learning activities during a semester-long practicum experience. The student is expected to establish a specific set of objectives to be accomplished, observe a model teacher, create teaching plans and material based on the most current research data, engage in teaching audiences of learners on content pertinent to her/his area of clinical specialization, attend curriculum and faculty meetings, develop and analyze examination items, and conduct a self-evaluation of the practicum experience. The student is expected to complete 180 hours of practicum (2 credits = 10 hours per week for 12 weeks). Students also will attend a total of 15 hours of seminar and individual meetings with the instructor during the semester to discuss and share teaching and learning experiences in their professional role as educators.

Prerequisite: NSG 635 and Prerequisite or Corequisite: NSG 650.

NSG 702. Palliative Care Clinical Pract. 3 Credit Hours.

This course provides the student with an in-depth opportunity to explore the role of the principles of palliative care and apply the knowledge and skills of this specialty practice area in a clinical setting of patients with terminal illness. Under the guidance of a faculty member and an expert preceptor, the student will actively participate in the needs of patients and families coping with terminal illness and plan, implement, and evaluate care during a semester-long clinical practicum experience. The student is expected to establish a specific set of objectives to be accomplished, work alongside a nurse expert in the field of palliative care, integrate the most current research data in the development of palliative of care plans, engage in interdisciplinary collaboration to ensure coordinated and comprehensive patient care, and evaluate the achievement of patient and family goals of care. The student is expected to complete 180 hours of practicum (2.5 credits = 15 hours per week (6 hours/credit) for 12 weeks). Students will also attend 12-15 hours of seminar and individual meetings with instructor during the semester to discuss and share teaching/learning experiences in their advanced professional role as providers of care to terminally ill patients and their families.

NSG 703. Administrative Practicum. 3 Credit Hours.

This nurse administrator role course provides the student with an in-depth opportunity to explore and apply management and leadership theories, concepts, and skills previously acquired in the program to a health care setting. Under the guidance of a faculty member and an expert preceptor, the student will actively participate in the development, implementation, and evaluation of administrative activities during a semester-long practicum experience. The student is expected to establish a specific set of objectives to be accomplished, observe a model nursing administrator, attend organizational meetings, explore issues related to human resource management and quality care delivery, select an administrative problem and carry out appropriate approaches to decision making and problem solving, and conduct a self-evaluation of the practicum experience. The student is expected to complete 120 hours of practicum (2 credits = 10 hours per week for 12 weeks). Students will also attend a total of 15 hours of seminar and individual meetings with the instructor during the semester to discuss and share management and leadership experiences in their professional role as administrators.

NSG 704. Gerontology Clinical Practicum. 3 Credit Hours.

This course provides students with an in-depth opportunity to explore the principles of healthy aging and the care of older adults. In a clinical setting, they will have the opportunity to apply the knowledge and skills about older adults' growth and development, health promotion, disease prevention, and physiological aging. Under the guidance of a faculty member and an expert preceptor, the student will actively participate in the needs assessment of older adult clients and families and plan, implement, and evaluate care during a semester-long clinical practicum experience. The student is expected to establish a specific set of objectives to be accomplished, work alongside a nurse expert in the field of gerontology, integrate the most current research data in the development of plans of care, engage in interdisciplinary collaboration to ensure coordinated and comprehensive patient care, and evaluate the achievement of patient and family goals of care. The student is expected to complete 180 hours of practicum (2.5 credits = 15 hours per week (6 hours/credit) for 12 weeks). Students will also attend 12-15 hours of seminar and individual meetings with instructor during the semester to discuss and share teaching/learning experiences in their advanced professional role as providers of care to older adults.

NSG 706. Scholarly Project Continuation. 0 Credit Hour.

This course is non-credit bearing and is designed for students who are not able to complete NSG 705 within one semester. This course will allow students to remain connected with a faculty advisor and also to continue their access to Le Moyne College resources. NSG 706 may be taken just one times and must be taken in the next available semester. Upon registering for NSG 706, the students will be charged an administrative fee. In the event NSG 706 cannot be completed in one semester, the student will need to re-register for NSG 705 with a new project proposal.

NSG 707. Nursing Informatics Practicum. 3 Credit Hours.

This course provides the student with an in-depth opportunity to explore the role of the nurse in health informatics in the practice setting. The student will apply knowledge of information systems, information processes, and nursing care delivery to assess system utility in meeting the care needs of patients and the information needs of providers and organizations. Under the guidance of a faculty member and an expert preceptor, the student will actively participate in the needs assessment of patients and providers for information, plan for systems changes, and implement and evaluate system applications. The student is expected to establish a specific set of objectives to be accomplished, work alongside a nurse expert in the field of informatics, integrate the most current research data in the development of plans for information process changes and systems, and engage in interdisciplinary collaboration to ensure coordinated and comprehensive patient care. The student is expected to complete 120 hours of practicum (2 credits = 10 hours per week (5 hours/credit) for 12 weeks). Students will also attend 12-15 hours of seminar and individual meetings with instructor during the semester to discuss and share teaching/learning experiences in their advanced professional role in informatics.

NSG 709. Transition to Advanced Practice. 1 Credit Hour.

This is the culminating seminar for students in the Advanced Practice Nursing (APN) role. It provides the student the opportunity to summarize, evaluate, and integrate their experiences as they transitioned from RN to novice APN. Emphasis is placed on practice issues related to enhancing the APN role in healthcare settings and in the community at large, exploring job negotiation strategies, and examining the role of the clinical preceptor. Requirements for state and national certification and federal reimbursement are reviewed. Prerequisite(s): NSG 681. Corequisite: NSG 682.

NSG 710. Scholarly Project I. 1 Credit Hour.

This pre-capstone course requires the student to demonstrate the ability to synthesize information acquired in the graduate core, the area of concentration, and the specialty practice/functional role courses in developing a scholarly project proposal. Students must choose a topic related to their role and are expected to work under the direct supervision of a faculty member to organize and complete their Scholarly Project proposal, secure Institutional Review Board (IRB) approval, if necessary, and establish a realistic timeline for implementation of their Scholarly Project in NSG 711. A seminar format and individual advisement with the faculty sponsor will be the approach used to assist students to accomplish these expectations.

Prerequisites: Practicum course completed in program.

NSG 711. Scholarly Project II. 2 Credit Hours.

This capstone course requires the student to demonstrate the ability to synthesize information acquired in the graduate core, area of concentration, and specialty practice/functional role courses in carrying out this project. The student must have already decided on a topic related to their role as reflected in the draft proposal completed in NSG 710 and now the student must individually design, implement, analyze, and evaluate a new activity or creative approach that reflects an advanced level of knowledge and skills in their area of concentration. Also, the student must demonstrate well-developed abilities in decision making and problem solving as well as a solid understanding of the research process, socio-cultural issues, ethical dilemmas, and organizational systems for health care delivery. The student is expected to work under the direct supervision of a faculty member to organize and complete this written assignment. This project must demonstrate the student's ability to produce a scholarly paper that is relevant to nursing practice and that is of publishable quality. Co-requisites: NSG 701, NSG 702, NSG 703, NSG 704, or NSG 707. Prerequisites: NSG 710.

NSG 712. Scholarly Project. 1 Credit Hour.

The course is designed to assist the graduating Master's Clinical Nurse Specialist to demonstrate achievement of the program outcomes and to assume the role of an independent CNS. Learning outcomes in each of the program courses are integrated into the Transition to practice culminating project. The culminating experience is designed to integrate knowledge and skills acquired from coursework into an ePortfolio and reflective narrative that together demonstrate mastery of Essential of the Masters in Nursing Education (AACN) as well as the Clinical Nurse Specialist Core Competencies (NACNS). Pass/Fail only.

NSG 713. Complex Problems of Adults and Older Adults. 3 Credit Hours.

This course provides opportunities to explore prevention and management of complex health problems of the adult and older adult within acute and chronic settings. Students are prepared to deliver direct care to and consultation in acute and community settings. Students use principles of nursing theory, evidence-based practice, quality improvement and cost-effectiveness to identify opportunities for improvement for individual care and selected populations. Collaboration and communication skills in the direct care settings are emphasized. Prerequisites(s): NSG 660. Prerequisite(s)/Corequisite(s): NSG 663 NSG 665. Corequisite: NSG 714.

NSG 714. CNS Clinical Practicum I. 1 Credit Hour.

The first clinical practicum is designed to be taken as a corequisite to NSG 713. Complex problems of adults and older adults. During this clinical experience students will spend 90 hours at a clinical site working with a masters-prepared clinical nurse specialist to apply theoretical concepts of complex management to the clinical area. The focus of the first clinical is on the direct care and management of adults and older adults, patient education, and identification of system needs and barriers. This course is pass/fail only. Corequisite: NSG 713.

NSG 715. CNS Clinical Practicum I. 1 Credit Hour.

In the second clinical practicum students are expected to take a more independent role in providing direct patient care and care management as well as interprofessional collaboration, clinical education and project development. Students will spend 90 hours in the outpatient, long term care, acute, or critical health care arenas working with the health care team to provide evidence based care and evaluate patient outcomes. A key component to the second clinical experience is the identification of a major clinical project and the development of an evidence based foundation for that project. Prerequisite(s): NSG 714. This course is pass/fail only.

NSG 716. CNS Clinical Practicum III. 2 Credit Hours.

The third clinical practicum offers students the opportunity to work as a nursing expert within the health care team to manage care of patients. In this clinical course, students will take a leadership role with a team to implement the clinical project proposed and developed in Clinical practicum II. This clinical provides experience in interprofessional collaboration, coaching and mentoring nurses, and systems leadership. This clinical also focuses on integration of technology and for efficiency and accuracy in quality and outcomes management. Prerequisite(s): NSG 715. This course is pass/fail only.

NSG 717. CNS Clinical Practicum IV. 2 Credit Hours.

Clinical Practicum IV is designed to accompany NSG 718: Transitions of Care. The emphasis of this clinical experience is on the continuum of care, providing safe and effective means and measures of care, and examination of the policies and regulations that govern such transitions. Additionally, the students will complete the Clinical Project evaluation and prepare a professional presentation of the project goals, methods, and outcomes. This course is pass/fail only. Prerequisite(s): NSG 716. Corequisite: NSG 718.

NSG 718. Transitions of Care. 3 Credit Hours.

This course offers the opportunity to explore models for optimizing health of the older adult and to optimize the journey of older adults through transitions in life as well as transition in health and home environments. Students will examine systems of living environments and provision of healthcare from acute care to assisted living, skilled nursing services, home care and hospice care. Students will explore current transition of care models as well as the barriers and resources available to facilitate comfortable life progression for the patient and family. Students will also apply standards of care to evaluate health delivery systems and develop quality improvement programs designed to assist in best practice transitions of care. Emphasis is placed on an understanding and appreciation of diverse providers and perspectives on the provision of care. Prerequisite(s): NSG 616 NSG 660 NSG 663 NSG 665. Corequisite(s): NSG 717.

NSG 719. Healthcare Data & Analytics. 3 Credit Hours.

This course is designed to prepare graduate-level students for the utilization of knowledge to provide high-quality health care, initiate change, and improve current practice. The focus of this course is on development of strong data management knowledge and skills to aid in the understanding of organizational issues, address key challenges, and achieve organizational objectives. Students will have the opportunity to rigorously evaluate innovations and programs for improving clinical outcomes and develop the competence to document and analyze change. Prerequisites: NSG 615 and NSG 616 or equivalent courses from non-nursing departments.

NSG 720. Theoretical Foundations of Advanced Nursing Practice. 3 Credit Hours.

This course explores nursing theories and models, health promotion theories, change and motivation theories, as it applies to the healthcare setting. It identifies practice theory in the contact of the nursing metaparadigm, with emphasis on analysis/evaluation of selected nursing theories. Family theories will also be explored using research, and applied for the healthcare setting. A theoretical foundation in assessment of the patient and plan for intervention is provided.

**Master of Science in Nursing
Typical Program for Educator Track (Full-Time) on hold, not enrolling at this time**

Course	Title	Credit Hours
Year I		
First Semester		
NSG 660	Advanced Pathophysiology	3
NSG 663	Advanced Pharmacology	3
NSG 665	Advanced Health Assessment I	3
Credit Hours		9
Second Semester		
NSG 615	Advanced Research	3
NSG 626	Systems Thinking for Quality Care	3
NSG 561	Principles of Teaching and Learning	3
Credit Hours		9
Year II		
First Semester		
NSG 637	Ethical Leadership in Nursing	3
NSG 651	Instructional Design	3
NSG 635	Curriculum and Program Development	3
NSG 616	Research Application	2
Credit Hours		11
Second Semester		
General Elective		3
NSG 650	Educational Assessment & Evaluation	3
NSG 701	Teaching Practicum	3
NSG 712	Scholarly Project	1
Credit Hours		10
Total Credit Hours		39

Typical Program for Educator Track (Part-Time) on hold, not enrolling at this time

Course	Title	Credit Hours
Year I		
First Semester		
NSG 660	Advanced Pathophysiology	3
NSG 663	Advanced Pharmacology	3
Credit Hours		6
Second Semester		
NSG 615	Advanced Research	3

NSG 561	Principles of Teaching and Learning	3
Credit Hours		6
Year II		
First Semester		
NSG 665	Advanced Health Assessment I	3
NSG 651	Instructional Design	3
Credit Hours		6
Second Semester		
NSG 626	Systems Thinking for Quality Care	3
NSG 650	Educational Assessment & Evaluation	3
Credit Hours		6
Year III		
First Semester		
NSG 637	Ethical Leadership in Nursing	3
NSG 635	Curriculum and Program Development	3
NSG 616	Research Application	2
Credit Hours		8
Second Semester		
Elective		3
NSG 701	Teaching Practicum	3
NSG 712	Scholarly Project	1
Credit Hours		7
Total Credit Hours		39

Students who complete the master's degree in the educator track are eligible to take the certification exam for nurse educators (CNE).

Typical Program for Administrator Track (Full-Time) on hold, not enrolling at this time

Course	Title	Credit Hours
Year I		
First Semester		
NSG 561	Principles of Teaching and Learning	3
BUS 501	Business Communications	3
NSG 625	Health Care Delivery Systems	3
Credit Hours		9
Second Semester		
MIS 501 or NSG 697	Management Information Systems or Health Information Systems	3
NSG 535	Epidemiology	3
NSG 566	Contemp Issues in Healthcare Leadership	3
Credit Hours		9
Year II		
First Semester		
CCM 500 Elective ¹		3
NSG 612	Health Issues in an Aging Society	3
NSG 615	Advanced Research	3
NSG 611	Managing Systems Projects	3
Credit Hours		12

Second Semester

HRM 601	Human Resource Management	3
NSG 703	Administrative Practicum	3
NSG 710	Scholarly Project I	1
NSG 711	Scholarly Project II	2
Credit Hours		9
Total Credit Hours		39

¹ A 500-level elective, in ethics or human diversity and social issues may be taken from the Consortium for Culture and Medicine (CCM).

Typical Program for Administrator Track (Part-Time) on hold, not enrolling at this time

Course	Title	Credit Hours
Year I		
First Semester		
NSG 561	Principles of Teaching and Learning	3
BUS 501	Business Communications	3
Credit Hours		6
Second Semester		
MIS 501 or NSG 697	Management Information Systems or Health Information Systems	3
NSG 535	Epidemiology	3
Credit Hours		6
Year II		
First Semester		
NSG 625	Health Care Delivery Systems	3
NSG 612	Health Issues in an Aging Society	3
Credit Hours		6
Second Semester		
NSG 566	Contemp Issues in Healthcare Leadership	3
HRM 601	Human Resource Management	3
Credit Hours		6
Intercession		
CCM Elective ¹		3
Credit Hours		3
Year III		
First Semester		
NSG 615	Advanced Research	3
NSG 611	Managing Systems Projects	3
Credit Hours		6
Second Semester		
NSG 703	Administrative Practicum	3
NSG 710	Scholarly Project I	1
NSG 711	Scholarly Project II	2
Credit Hours		6
Total Credit Hours		39

¹ A 500-level elective, in ethics or human diversity and social issues may be taken from the Consortium for Culture and Medicine (CCM).

Students who complete the master's degree in the administrator track are eligible to take the certification exam for nurse administrators (CNA)

Post-Master's Certificates

Post-master's certificate programs are available in Family Nurse Practitioner (FNP), education (currently on hold) and administration (currently on hold) for nurses who already hold a master's degree in nursing. The post-master's certificate for FNP is an individualized program of study dependent on transcript review.

If you are an NP in another specialty area, and are looking for a FNP Post-Master's Certificate, see requirements below:

1. Previously taken courses in Advanced Pathophysiology, Advanced Pharmacology, and Advanced Health Assessment must be reviewed for transfer.

2. Advanced Pathophysiology and Advanced Pharmacology can be no more than 5 years old and must address the lifespan. If desired, an optional test out of NSG 665 Advanced Health Assessment I is available and would include a written comprehensive exam, demonstration of a complete H&P, and completion of a SOAP note. These courses may be audited based on transcript review.

3. The FNP program of study requires a minimum of 500 clinical hours for post-master's, secondary certification NP students.

Code	Title	Credit Hours
Required Courses:		
NSG 666	Advanced Health Assessment II	3
NSG 681	Health & Illness Management I	3
NSG 673	FNP Clinical III	3
NSG 682	Health & Illness Management II	3
NSG 674	FNP Clinical IV	3

If you are not an NP but have a master's degree in Nursing and are seeking primary certification as an FNP, see requirements below:

1. Previously taken courses in Advanced Pathophysiology, Advanced Pharmacology, and Advanced Health Assessment must be reviewed for transfer.

2. Advanced Pathophysiology and Advanced Pharmacology can be no more than 5 years old and must address the lifespan. If desired, an optional test out of NSG 665 Advanced Health Assessment I is available and would include a written comprehensive exam, demonstration of a complete H&P, and completion of a SOAP note. These courses may be audited pending transcript review.

3. This FNP program of study requires 810 hours of clinical preceptorship.

Code	Title	Credit Hours
Required Courses:		
NSG 667	Advanced Practice Nursing Role	2
NSG 660	Advanced Pathophysiology	3
NSG 663	Advanced Pharmacology	3
NSG 665	Advanced Health Assessment I	3
NSG 666	Advanced Health Assessment II	3

NSG 672	FNP Clinical II	3
NSG 681	Health & Illness Management I	3
NSG 673	FNP Clinical III	3
NSG 682	Health & Illness Management II	3
NSG 674	FNP Clinical IV	3
NSG 709	Transition to Advanced Practice	1

Post-Master's Certificate for Educator - currently on hold

Post-Master's Certificate for Administration - currently on hold

Family Nurse Practitioner (MS)

Family Nurse Practitioner (FNP) Program

Nurse Practitioners have become the primary care providers for millions of Americans and are poised to meet the challenge of improving the health care of many more millions of people in the changing healthcare market. Family Nurse Practitioners (FNPs) are master's prepared, Advanced Practice Registered Nurses (APRNs) with expertise in the diagnosis and management of common and complex health conditions across the lifespan. FNPs focus on preventative care and health management. Drawing upon specialized knowledge and clinical competencies as health educators, counselors, researchers, and clinicians, FNPs provide comprehensive care to individuals and families and promote high quality, cost effective health care. FNPs work autonomously as well as in collaboration with other primary care providers and healthcare professionals in the community with the ultimate goal of improving clinical outcomes.

The FNP program provides the student with the academic knowledge and advanced clinical training needed to begin practice as a novice FNP. The program focuses on the development of strong assessment and diagnostic skills sets that, as students advance through clinical courses, are tested at increasingly complex levels. Emphasis is also directed toward the use of research and evidence-based practice to understand and evaluate current prevention strategies, disease management recommendations, and best practice outcomes that are necessary for providing comprehensive health promotion, disease prevention, and management of common acute and chronic illnesses. Successful graduates will hold a FNP Certificate in New York State and will be eligible to sit for the National Family Nurse Practitioner certification exam offered by the American Nurses Credentialing Center (ANCC) and the American Academy of Nurse Practitioners (AANP).

The FNP program is designed to concur with the criteria and standards for master's education as set forth by the American Association of Colleges of Nursing (AACN) in its Essentials of Master's Education document as well as the guidelines enacted by the Nursing Organization of Nurse Practitioner Faculty (NONPF) in its Nurse Practitioner Core Competencies. The program consists of two parts: graduate level core content (11 credits) and a specialty focus of FNP role (34 credits) for a total of 45 credits. Completion of this FNP curriculum leads to a Master of Science (MS) degree in nursing.

The 45-credit FNP curriculum is designed as a two-year program of study for full-time students and as a three-year program of study for part-time students.¹ Application for admission as a matriculated full-

time or part-time student is for the Fall semester only. Also, a Post-Master's Certificate is offered to eligible candidates who have a master's degree in nursing with another specialty focus. The sequencing of the courses in the curriculum reflects a logical flow of content and consists of a combination of theory, laboratory, and clinical coursework. At the graduate level, the ratio of credits to contact hours is as follows:

- 1 credit of theory = 1 hour of class time;
- 1 credit of lab = 2 hours of lab time;
- 1 credit of clinical = 90 hours of practice experience.

A minimum of nine credits of coursework at the graduate level constitutes full-time study and eight credits or less is considered part-time study.

The student must complete a minimum of 810 hours of clinical practice beginning in the second semester of the full-time program of study and beginning in the fourth semester of the part-time program of study, as outlined in the curriculum plans respectively. Clinical hours must be completed in the semester or summer session in which a clinical course is taken. Clinical sites encompass a variety of community-based and acute care practice settings. The clinical hours are allocated based on age/developmental stage requirements of each population group. The following outline indicates the approximate hours required for practice experience with each specific group:

- 20– 64 years (adult) = 300 hours;
- 65 + years (older adult) = 110 hours;
- 0 – 19 years (child and adolescent) = 200 hours;
- Women's Health = 100 hours;
- Specialty = 100 hours.

¹ The part-time program of study will not be offered unless a sufficient number of full-time students have been enrolled.

Typical Program for Family Nurse Practitioner (Full-time)

Course	Title	Credit Hours
Year I		
First Semester		
NSG 660	Advanced Pathophysiology	3
NSG 663	Advanced Pharmacology	3
NSG 665	Advanced Health Assessment I	3
NSG 667	Advanced Practice Nursing Role	2
Credit Hours		11
Second Semester		
NSG 615	Advanced Research	3
NSG 626	Systems Thinking for Quality Care	3
NSG 672	FNP Clinical II (270 hrs.)	3
NSG 666	Advanced Health Assessment II	3
Credit Hours		12
Year II		
First Semester		
NSG 637	Ethical Leadership in Nursing	3
NSG 681	Health & Illness Management I	3
NSG 616	Research Application	2

NSG 673	FNP Clinical III (270 hrs.)	3
Credit Hours		11
Second Semester		
Graduate Elective		3
NSG 682	Health & Illness Management II	3
NSG 674	FNP Clinical IV (270 hrs.)	3
NSG 709	Transition to Advanced Practice	1
NSG 712	Scholarly Project	1
Credit Hours		11
Total Credit Hours		45

Typical Program for Family Nurse Practitioner (Part-time)

Course	Title	Credit Hours
Year I		
First Semester		
NSG 615	Advanced Research	3
NSG 626	Systems Thinking for Quality Care	3
Credit Hours		6
Second Semester		
NSG 660	Advanced Pathophysiology	3
NSG 663	Advanced Pharmacology	3
Credit Hours		6
Year II		
First Semester		
NSG 665	Advanced Health Assessment I	3
NSG 637	Ethical Leadership in Nursing	3
NSG 667	Advanced Practice Nursing Role	2
Credit Hours		8
Second Semester		
NSG 672	FNP Clinical II (270 hrs.)	3
NSG 666	Advanced Health Assessment II	3
Elective		3
Credit Hours		9
Year III		
First Semester		
NSG 681	Health & Illness Management I	3
NSG 673	FNP Clinical III (270 hrs.)	3
NSG 616	Research Application	2
Credit Hours		8
Second Semester		
NSG 682	Health & Illness Management II	3
NSG 674	FNP Clinical IV (270 hrs.)	3
NSG 709	Transition to Advanced Practice	1
NSG 712	Scholarly Project	1
Credit Hours		8
Total Credit Hours		45

OCCUPATIONAL THERAPY

Chair: Caitlin Esposito

Assistant Professor: Caitlin Esposito

Professor of Practice: Kristine Cervantes, Marisa Davis, Kathleen Goss, Jenna Riley

Adjunct Faculty: Norton Berg, Royce Robertson

Academic Field Work Coordinator: Jenna Riley

Occupational Therapy is a health profession dedicated to assisting individuals to achieve their well being through engagement in occupations. The Master of Science Occupational Therapy program at Le Moyne College grows from and embodies the mission of Le Moyne College, embracing the concepts of academic excellence rooted in the Jesuit and Catholic tradition and based on the foundation of liberal arts education. The Jesuit principle of *cura personalis* reflects the occupational therapy belief in assessing and treating the individual as a whole.

The Occupational Therapy program focuses on the development of forward-thinking occupational therapy practitioners engaged in global healthcare rehabilitation agendas and an inter-professional approach to education and learning. Global views of rehabilitation roles require numerous iterations to integrate the multiple skills needed to contemplate and effectively propose solutions to a rapid changing, health, community, and educational system. Our curriculum presents students with a learning environment and experiences that facilitate change, preparing students for a variety of roles such as educator, administrator, healthcare leader, and community based practitioner among others. Through the programs curricular threads including: *Leadership and Communication, Global Perspective and Knowledge, Creativity and Innovation, and Interdisciplinary Learning*, the Le Moyne Occupational Therapy program is designed to educate national and international professionals who can actively contribute to the profession through service, scholarship, and leadership, promoting occupational justice in local and global communities. The Le Moyne occupational therapy graduate will be a reflective, compassionate, creative professional, committed to lifelong learning.

The two-year, entry-level, MSOT program is an 80-credit full time program consisting of daytime, weekday classes with some evening commitments and a **fully online first semester**. The program begins at the end of May, with the first four courses fully online using a combination of synchronous and asynchronous methods (See *Technology and Required Competencies below*). Students then arrive to campus in August for a condensed 3-week Anatomy and Physiology Course with full dissection cadaver lab. All courses are sequential. The curriculum is designed to provide an excellent education for students planning for professional roles as occupational therapy practitioners in traditional settings, as well as in areas of newly identified need. All qualified students are awarded a Master of Science degree after successful completion of the coursework. This program includes a majority of didactic classroom courses with some online courses, completion of both level I and level II fieldwork experiences, and a master capstone project.

Accredited Master's Degree Level Occupational Therapy Program

The entry-level occupational therapy master's degree program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 6116 Executive Boulevard, Suite 200, Northern Bethesda, MD 20852-4929. ACOTE's telephone number c/o AOTA is (301) 652-AOTA and its Web address is www.acoteonline.org (<http://www.acoteonline.org/>). Graduates of the program will be eligible to sit for the national certification examination for the occupational therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). In addition, all states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. **Note: that a felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure.**

Admission Criteria

- Completed bachelor's degree or one completed by the time the program begins.
- At least 30 hours of clinical observation under the supervision of a licensed OT in multiple settings with a variety of clients.
- 3 letters of recommendation are required. These can be from academic advisors, faculty, or licensed healthcare professionals. A letter from an OT is not required but strongly recommended.
- The following prerequisites (semesters or equivalent quarters) with a B- or better. **AP and CLEP courses do not qualify.** Several of these prerequisites must be completed within the past five years (see chart)*.
- GPA of at least 3.0 or better in social sciences, science and prerequisite courses, as well as cumulative GPA.
- INTERNATIONAL STUDENTS: A score of at least 79 on the TOEFL or 6.5 on the IELTS in place of the MAT

Prerequisite Coursework

Code	Title	Credit Hours
Prerequisite Coursework		
	Anatomy & Physiology I (200 + level)* ¹	4
	Anatomy & Physiology II (200+ level) ²	4
	Neuroscience OR Brain and Behavior* ³	3
	Cultural Ideas and/or Civilizations ⁴	3
	Lifespan or Human Development*	3
	Abnormal Psychology*	3
	Statistics ⁵	3
	Medical Terminology ⁶	1
	English composition or technical writing	3
	Humanities ⁷	3
Total Credit Hours		30

¹ BSC 201 Human Anatomy & Physiology I at Le Moyne will satisfy this prerequisite

² BSC 202 Human Anatomy & Physiology II at Le Moyne will satisfy this prerequisite

- ³ Note: Le Moyne offers this course online during J-mester and Maymester. *Psychology majors at Le Moyne must take PSY 340 to satisfy this requirement.
- ⁴ World literature, world religions, history, American studies, women's studies, sociology, cultural anthropology
- ⁵ Social science or educational statistics strongly preferred
- ⁶ Note: Le Moyne offers this course online during J-mester and Maymester.
- ⁷ Ethics, philosophy of mind, theology

Technology Requirements

The MSOT program requires students to have access to personal technology such as a laptop computer, tablet, or PC throughout the duration of the program as well as a working webcam during the online courses. Students should reference our Campus Technology Website (<https://www.lemoyne.edu/Student-Life/Student-Services/Technology>) (<https://www.lemoyne.edu/Student-Life/Student-Services/Technology/>) for detailed suggestions before purchase.

Technology Competencies

Success in both the online and in person portions of the program requires students to have the ability to navigate the college's learning management system (Canvas), manage electronic communications (email), utilize research and information databases, and install software.

Online courses will consist of a combination of scheduled synchronous and asynchronous learning activities; synchronous sessions will require use of the Zoom platform. In person courses will maximize the use of technology with no seat time reduction, using the Canvas learning management system for administration, communication, assessment and content delivery to both supplement and enhance the face to face experience. Prior to starting coursework, all students will be required to complete an online orientation course through Canvas that will prepare them to meet the technology competency requirements of the online portions of the program. Additionally, students will have ongoing access to the IT service desk to assist with managing questions or concerns related to required technologies while in the program.

Transfer Credit/Waiver Policy

The chair of the occupational therapy program has the authority to substitute a prerequisite course if such a substituted course is deemed to cover similar material satisfactorily.

The Le Moyne College Occupational Therapy Program does not grant advanced placement, give credit for or accept transfer of credit for OT Program courses or seminars.

Student Classifications

Candidates who fulfill the admission requirements are accepted only as **full-time** degree seeking students, no part time pathways for completion are available.

Health Clearance

In addition to meeting the immunization requirements of the College, students entering the Occupational Therapy program must also satisfy more specific health and immunization requirements prior to participation in any fieldwork experiences. This includes completion of CPR certification with First Aid and AED training for both Adults and Children/Infants.

All students admitted to the Occupational Therapy Program are required to submit a certificate of complete physical examination that indicates the student is capable of completing the educational program, including clinical rotations no later than four weeks prior to matriculation.

Health Insurance

All students are required to have and provide proof of health insurance when entering the program and again prior to each clinical experience. Graduate students who are not enrolled in their own plan may obtain health insurance through the College. Students are not covered under Workman's Compensation or any other policy by Le Moyne College or by any of our affiliated clinical sites.

Academic Criteria

Graduation Requirements

All occupational therapy graduate students must successfully complete all 80 credits of the Le Moyne College MSOT program curriculum within five years from the date of matriculation in order to be eligible for graduation. This includes successful completion of all level I and level II fieldwork rotations. In addition, occupational therapy graduate students are required to pass all didactic coursework with a grade of B- or better, and maintain a minimum GPA of 3.0 or greater in order to remain in good academic standing.

Progression

Students are promoted from one semester to the next, from the didactic to the clinical semester, and graduated based on performance related to both academic progress and ability to maintain *Essential Functions and Professional Behavioral Expectations* (outlined in the *MSOT Student Handbook*).

Probation

A student who fails to meet academic, behavioral objectives, and/or Essential Functions expectations may be placed on academic and/or behavioral probation. A student earning a grade less than a B- in any course will be placed on academic probation. A student who fails a Level II Fieldwork rotation will be placed on academic probation and required to repeat the rotation prior to the beginning of the next semester or advancing to taking any other courses. A student who receives a score of 23 or below on the professional behavior rubric will be placed on behavioral probation for a minimum of one semester. Students on academic or behavioral probation may not be allowed to progress to level II fieldwork until completing specific remediation related to academic or professional behavior concerns.

Deceleration

A student who fails to meet academic, behavioral objectives, and/or essential function expectations while on academic or behavioral probation may be decelerated by the Academic Committee for repetition of a course, or other remediation as indicated for specific issues. If a student who is decelerated for any reason must register for fewer credits in a given semester than is otherwise required for the cohort, the student will be charged the current credit hour rate that is stated in the Graduate Fee Schedule of the college catalog for "Family Nurse Practitioners." Deceleration of any kind will result in a delay of a student's official graduation date.

Dismissal

The following will result in dismissal from the program:

- A student who receives a grade of less than B- in two or more didactic courses will be dismissed from the program.
- If a student is on academic or behavioral probation from the didactic year, failing a single rotation will result in dismissal from the program.
- A second failed Level II fieldwork will result in dismissal from the program.

Withdrawal or Leave of Absence

For personal or medical reasons, a student may voluntarily discontinue enrollment at the College by requesting either a leave of absence (temporary) or a withdrawal from the College (permanent).

A leave of absence is a temporary hiatus from the College with the intent to return after a specified period of time. Students requesting a leave of absence must indicate when they plan to return to their studies. The total time away from the College cannot exceed two consecutive semesters. A student may not take matriculated coursework at another institution while on a leave of absence. To be eligible to return from a leave of absence, the student must demonstrate readiness to return by satisfying all requirements for return. If a student does not return from a leave of absence at the scheduled time, the student will be administratively withdrawn from the College and must apply for readmission.

A withdrawal is a permanent separation from the College. A student who has withdrawn must apply for readmission to the College if the student wishes to re-enroll. Students withdrawing from a graduate Purcell program will be contacted by a Purcell administrator for a brief exit interview.

A student may request a personal or medical leave of absence or a withdrawal by completing the Purcell Graduate Leave of Absence/Withdrawal Form available through their department. A student requesting a leave of absence or withdrawal will meet with a designated program official to discuss the academic and financial implications of their decision. The designated program official will also discuss the requirements for return if a student is taking a leave of absence.

If the request for a personal or medical leave of absence/withdrawal is approved for a future semester, then the student may remain enrolled in and receive grades for the current semester. The student will have a hold on future registration until the conditions of return have been met. If the request for a personal or medical leave of absence/withdrawal is approved for a current semester, then depending on the academic calendar and personal circumstance the program director or chair can determine the most appropriate resolution for the student's enrollment. The student may not take a leave of absence and remain enrolled in the students coursework if the leave of absence is for the current semester.

The College may require a student to take a medical leave of absence or withdrawal if, in the judgment of the College, the student poses an imminent threat to the lives, safety or well-being of themselves or other members of the college community (including preceptor and internship settings).

Except in unusual circumstances where safety is of immediate concern, the College will make a decision to involuntarily withdraw a student only after providing the student with advance notice and an opportunity to meet with Purcell officials.

In cases of both medical leaves of absence and withdrawals, the tuition refund policies specified in the Le Moyne College Catalog apply.

Formal Academic Grievances Against Professors, Classes, or Programs

Formal academic complaints about a class or professor should be taken directly to the professor concerned first. If the issue is not resolved, a written complaint should be filed with the appropriate department chair or director. This written version should identify the complainant, specifically detail the perceived problem, the date of the meeting with the Professor and be accompanied by any relevant supporting documentation or data. It should also include the proposed response or remedy.

- The department chair or director shall discuss the grievance with both the student and the professor (either individually or together) and shall make a recommendation to the student and the professor as to a resolution. If the department chair or director is the professor, the senior member of the department other than the course instructor shall hear the appeal.
- If the problem has not been resolved in steps one or two above, the student may appeal to the appropriate dean. In this case, the student and the professor shall submit in writing their positions in the matter. The appropriate dean may also request a written recommendation from the department chair or director. (These documents are not intended to preclude meetings between the academic dean and the student, the professor and/or the department chair or director)
- The appropriate dean shall then forward written recommendation to the student, the professor and the department chair.
- The student may appeal the dean's decision to the academic vice president within 15 days.
- Formal academic complaints about a program should be filed with the appropriate department chair or director and then proceed to resolution through the same steps outlined above for complaints about professors or courses.

Complaints against the Le Moyne College Occupational Therapy Program may be submitted directly to the Accreditation Council for Occupational Therapy Education (ACOTE). To receive formal consideration, all complaints must be submitted in writing to the ACOTE Chairperson, c/o the AOTA Accreditation Department, at the following address: ACOTE Chairperson c/o the AOTA Accreditation Department 6116 Executive Boulevard, Suite 200, Northern Bethesda, MD 20852-4929. Letters of complaint against educational programs must: a. describe the nature of the complaint and the related accreditation Standards or accreditation policies or procedures that the complainant believes are not being met by the program; b. document that the complainant has made reasonable efforts to resolve the complaint, or alternatively that such efforts would be unavailing; and c. be signed by the complainant.

NOTE: The confidentiality of the complaining party is protected by AOTA Accreditation staff unless release of identity has been authorized, or disclosure is required by legal action. The full policy is on the AOTA Web site at the following link:

<http://www.aota.org/Education-Careers/Accreditation/Policies.aspx>

Student Learning Outcomes in Occupational Therapy

Students who graduate from the Le Moyne Occupational Therapy Program will be able to:

1. Apply OT services to individuals, groups, and organizational systems.

2. Communicate effectively with colleagues and clients to support the outcomes of OT.
3. Advocate for diversity, dignity and justice through the application of the OT framework.
4. Appraise the impact of contexts on one's occupational performance.
5. Apply theory and scholarship to daily practice as an occupational therapist through the selection of relevant evaluation and intervention efforts.
6. Demonstrate empathetic, ethical and lawful behavior consistent with the scope of OT practice.
7. Collaborate with stakeholders to develop emerging areas of OT practice.
8. Reflect on one's own practice and professional growth as an occupational therapist.

- Occupational Therapy Studies (M.S.) (p. 508)
- Direct Entry Pathway for B.S. PSY to M.S. OT (p. 509)
- Direct Entry Pathway for B.A. SOC to M.S. OT (p. 128)

Occupational Therapy (OTM)

OTM 201. Introduction to Medical Terminology. 1 Credit Hour.

This course introduces students to the language of the health professions. Using a systematic approach, students will learn the meanings of prefixes, suffixes, combining vowels, and word roots as they relate to anatomy, physiology, and pathological conditions. At the conclusion, students will be able to recognize, build, and produce basic medical vocabulary.

OTM 202. Concepts in Neuroscience. 3 Credit Hours.

Concepts in Neuroscience is an introductory course of the anatomy and physiology of the human nervous system. It is designed to help students entering medical professions understand the basic concepts of neuroscience as they relate to function and performance. Neuroanatomy, neurophysiology, and neurochemistry are presented as a basis for understanding how nervous system activity impacts performance.

OTM 501. Introduction to OT. 2 Credit Hours.

This course introduces students to the Occupational Therapy Practice Framework: Domain & Process, and the International Classification of Functioning, Disability & Health, two official documents guiding the practice of occupational therapy. Students will be introduced to the philosophical and theoretical tenants of the profession and develop foundational skill in completing occupational profiles and task analysis as a means of analyzing and understanding the basic components of occupational performance and participation in meaningful life activities.

OTM 502. Clinical Anatomy & Kinesiology. 3 Credit Hours.

This course reviews the most important features of gross anatomy including bones, joints, muscles, blood vessels, muscles, palpation and peripheral nerves. Structure and function, and application of basic biomechanical, neuromuscular, and musculoskeletal principles, are discussed in relation to everyday activities and occupational performance. In addition, students learn biomechanical, ecological systems, and dynamical systems' principles underlying human movement and their application to functional activities including seating, transfers, and mobility. Principles covered in lecture are applied through practical experiences and discussions during the application sessions.

OTM 502L. Anatomy and Kinesiology Lab. 0 Credit Hour.

OTM 503. Clinical Medicine. 3 Credit Hours.

General Medicine diagnoses that are the leading cause of disability in children, adolescents, adults, and older adults are defined and described. Etiology, signs, symptoms, clinical course, medical management, morbidity, and prognosis are reviewed. The influence of medical pathology on activities of daily living and routines and social participation is examined.

OTM 504. Health Care Ethics & Advocacy. 2 Credit Hours.

This course examines advocacy methods at both the individual and systems levels. Informed by Jesuit social teaching, this course then applies ethical decision making strategies towards creating a more just society supporting occupational participation. Students learn to advocate for the community at large within the systems that support or influence occupational participation, the profession of occupational therapy, and the consumers of occupational therapy services.

OTM 505. Foundations of Occupational Science in OT Practice. 3 Credit Hours.

This course introduces students to the history and philosophy behind the discipline of occupational science. Students will explore theory and philosophy supporting meaning and participation in occupation and develop a deeper appreciation of what it means to be an occupational being. Observation, interview, and narrative will be used, as tools to better understand the meaning of occupation. The focus of this course is on understanding occupation and context at the individual, community and organizational level. As a writing intensive course, students complete a variety of informal and formal papers and utilize a drafting process to ensure proficiency in written communication.

Prerequisite: OTM 501.

OTM 506. OT Practice in Mental Health. 3 Credit Hours.

The focus of this course is the range of mental health practice settings and service delivery across the lifespan. Students learn about various evidence based theories, models, and frames of reference that inform occupational therapy for clients with mental health issues. Using problem-based learning, students will analyze cases with increasingly complex psychosocial and contextual factors, influencing occupational performance. A significant emphasis is placed on evaluation, intervention, and discharge planning. Evidenced-based practice, clinical reasoning, and ethical decision making are integrated throughout the course.

Prerequisite: OTM 502.

OTM 507. Foundations of Neuroscience. 3 Credit Hours.

The anatomy and physiology of the human nervous system are introduced with emphasis on understanding the neural basis of sensory processing, movement, emotion, and behavior, as well as the functional consequences of different types of lesions or dysfunction. Lectures include neuroanatomy; development of the nervous system; function of central, peripheral, limbic, and autonomic nervous systems; motor control; sensation (vision, hearing, vestibular, somatosensation); and cognition. Students will be presented with case studies to apply the concepts to daily human occupations, which reinforce the clinical application of the course topics.

Prerequisite: OTM 502.

OTM 507L. Foundations Neuroscience Lab. 0 Credit Hour.**OTM 508. Group Task Process & Practice. 2 Credit Hours.**

This seminar is designed to enhance clinical reasoning by facilitating the connections between propositional knowledge and practice knowledge in order for the student to integrate the social constructs of group dynamics in occupational therapy practice and the use of groups in occupational therapy treatment. Students will gain insight into the forces influencing their own group process, the foundations for professional socialization, therapeutic relationships, ethical practice, and other professional issues as they explore and learn about group process and engagement in group therapy in a variety of practice settings and with persons and populations of all ages and with a variety of needs through lecture, discussion, small group activities and training. Self-directed, collaborative learning and class participation are essential aspects of this seminar.

Prerequisite: OTM 501.

OTM 509. Movement, Participation and Adaptation Of Occupation. 3 Credit Hours.

This course supports students to develop foundational knowledge of occupational performance and human movement necessary for subsequent assessment and intervention courses. Additionally, biomechanical principles of joint and muscle structure and function will be applied to occupational performance. Students will learn assessments and techniques most commonly used in occupational therapy practice including goniometry of range of motion (ROM), and manual muscle testing (MMT). Employing logical thinking, critical analysis, problem solving, and creativity; students learn how to analyze and adapt occupations and activities. Students will be able to explain the meaning and dynamics of occupation and activity, including the interaction of areas of occupation, performance skills, performance patterns, activity demands, context(s), and client factors. Through a group project, students will articulate the value of occupation to support participation.

Corequisite: OTM 509L.

OTM 509L. Movement, Participation Lab. 0 Credit Hour.**OTM 510. Introduction to Inquiry & Evidence Based I. 3 Credit Hours.**

This is the first of a series of courses introducing students to the concepts of evidence-based practice and scholarship. Beginning with an orientation to published literature in the health professions, attention will be given to techniques of searching bibliographic databases such as Medline, Cumulative Index to Nursing and Allied Health Literature, and PsychInfo. Students will search, read, and analyze literature that validates current practice. The student will be given the opportunity to: 1) interpret criterion-referenced and norm-referenced standardized test scores based on an understanding of sampling, normative standard and criterion scores, reliability, and validity, 2) articulate the importance of research, scholarly activities, and the continued development of a body of knowledge relevant to the profession of occupational therapy, 3) identify elements of inquiry, approaches to research and related information that is included within the framework of a research design, 4) effectively locate, interpret, and evaluate information, including the quality of research evidence, 5) compare and contrast research designs that adopt quantitative methodology, including basic descriptive, correlational, and inferential quantitative statistics, 6) examine underlying assumptions and implement strategies for conducting scientific inquiry based on analysis of qualitative data.

Prerequisite: OTM 501.

OTM 511. Fieldwork I-1A. 1 Credit Hour.

Students will complete a 40 hour Level I fieldwork experience in a mental health practice setting and will participate in reflection and discussion about their on-site experience in connection with the OTM 506 course.

Pass/Fail only.

Prerequisite: OTM 501.

OTM 601. Occupational Performance in Adult and Geriatrics. 3 Credit Hours.

The focus of this course is on the largest growing demographic group in this century, older adults. You will explore the range of geriatric practice settings and service delivery models. You will apply various evidence-based theories, models, and frames of reference that shape occupational therapy for older adults. This course will address the complex physical, psychosocial, and contextual barriers to occupational performance for older adults, with a significant emphasis placed on the health-pathology continuum. You will examine primary conditions encountered, and learn how to evaluate the subsequent effects on an individual's occupational performance using a variety of assessment tools. Evidence-based practice and ethical decision-making are emphasized throughout the course.

Prerequisites: OTM 505, OTM 506, OTM 507 and OTM 509.

OTM 602. Intervention Process & Strategies in Adults and Geriatrics. 4 Credit Hours.

This course builds on the foundational principles learned in pre-requisite courses to prepare students to develop and implement evidenced based, and client centered interventions related to the eight areas of occupation for a variety of clients in different contexts and settings. Lab experiences will promote clinical skills and case based assignments will emphasize the use of clinical reasoning to determine the appropriate intervention approach for a particular client. Competency in entry level intervention skills is emphasized throughout the course in preparation for Level II Fieldwork experience. The course includes modules specific to documentation in the OT practice and upper extremity splinting techniques.

Prerequisites: OTM 505, OTM 506, OTM 507 and OTM 509.

OTM 603. Inquiry & Evidence Based Practice II. 3 Credit Hours.

This second course in the evidence-based practice sequence focuses on the critical analysis of qualitative methods in sociological research. The purposes of this course is twofold: One, provide training in field methods engaging in sociological research, in particular Clinical Practice, with emphasis on such qualitative methods as participant-observation, intensive interview, content analysis, and oral history, among others. Two, establish a forum to direct student work and creative energies towards social, justice, environmental, and political issues in occupational therapy practice at large. This approach allows the student/scholar to discover communities, create channels of communication, find ways of continual engagement and project development, and bring knowledge beyond the immediate workings of the community and into the realm of culture. The place of these kinds of techniques in social research, as well as the issues raised by them, will be considered. Students will participate in individual or group research projects using one or more of the methods discussed.

Prerequisite: OTM 510.

OTM 604. Neuro-Rehabilitation. 3 Credit Hours.

In this course, students develop knowledge and skills pertaining to the evaluation and treatment of individuals with spinal cord injury, stroke, cognition and perceptual deficits and movement disorders secondary to neurologic injury or disease. Medical information will include disease description, etiology, pathology, clinical signs and symptoms, diagnostic procedures, medical management, and precautions or special considerations pertinent to occupational therapist. From an OT perspective, specific standardized assessments, evaluation and treatment strategies, and rehabilitation practices will be addressed pertinent to the movement problems associated with a neurologic injury/disease while identifying and using appropriate guidelines in clinical decision-making. Laboratory sessions provide students with the opportunity to develop competency in formal and informal assessments use in neuro-rehabilitation including cognitive and perceptual evaluations. Prerequisite: OTM 507.

OTM 604L. Neuro-Rehabilitation Lab. 0 Credit Hour.**OTM 605. Professional Reasoning. 2 Credit Hours.**

This course provides students with an introduction to the fundamental concepts of professional reasoning and critical inquiry as the basis for professional and interdisciplinary decision-making. Students will examine current theories of professional reasoning, explore assumptions that influence everyday decision-making and develop an attitude of inquiry. Using readings, discussion, lecture and reflective activities, students will learn how therapists reason in practice and begin to apply these skills to practice. Prerequisite: OTM 505.

OTM 606. Clinical Internship Level II Seminar I. 0.5 Credit Hour.

This seminar course prepares students for the transition from the academic setting to educationally directed clinical/community practice experiences under the supervision of a clinical fieldwork educator. Topics will include but not be limited to professional identity and behaviors including Level II fieldwork expectations and evaluation procedures, Le Moyne College Department of Occupational Therapy policies and procedures related to the fieldwork experience, supervisory relationships, diversity, and conflict resolution. Through sharing clinical cases and students prior level I experiences they will gain awareness of clinical reasoning skills, professional behaviors and practical issues and make connections between course based learning and clinical/community practice. Through discussion and activities students will understand the professional skills needed for successful Level II fieldwork participation and becoming an entry-level OT practitioner. Prerequisite: OTM 505.

OTM 611. Fieldwork I-2A: Adults. 1 Credit Hour.

Students will complete a 40 hour Level I fieldwork experience with the adult and older adult populations and will participate in reflection and discussion about their on-site experience in connection with the OTM 601 course. Pass/Fail only. Prerequisite: OTM 511.

OTM 612. Fieldwork I-3A: Pediatrics. 1 Credit Hour.

Students will complete a 40 hour Level I fieldwork experience in pediatrics and will participate in reflection and discussion about their on-site experience in connection with the OTM 622 course. Pass/Fail only. Prerequisite: OTM 611.

OTM 621. Clinical Internship Level II Seminar II. 0.5 Credit Hour.

This seminar course prepares students for the transition from the academic setting to educationally directed clinical/community practice experiences under the supervision of a clinical fieldwork educator. Topics will include but not be limited to professional identity and behaviors including Level II fieldwork expectations and evaluation procedures, Le Moyne College Department of Occupational Therapy policies and procedures related to the fieldwork experience, supervisory relationships, professional licensure & credentialing including the NBCOT examination. Through sharing clinical cases and students prior level I experiences they will gain awareness of clinical reasoning skills, professional behaviors and practical issues and make connections between course based learning and clinical/community practice. Through discussion and activities students will understand the professional skills needed for successful Level II fieldwork participation and becoming an entry-level OT practitioner. Prerequisite: OTM 606.

OTM 622. OT Practice with Children and Youth. 3 Credit Hours.

The focus of this course is on the foundations of occupational therapy services for children, youth, and their families in various settings and models of service delivery. Students explore the pediatric OT processes and tools; policies and legislation influencing practice; primary conditions encountered; and the roles of the occupational therapist in pediatric practice. This course emphasizes theoretical concepts related to human occupation and performance in social, spiritual, and emotional contexts of children and youth. The course will also initiate the students appreciation and value of community participation through active and inclusive living through fieldwork. The student will actively engage in the course through multiple learning processes including collaborations with peers, community stakeholders, and faculty; discussion and reflection of the congruence and discord of knowledge and experience; and self-directed learning through individual and group problem solving of individual and community needs. This course will facilitate a rigorous culture of scholarly inquiry as students begin to challenge beliefs and thoughts in occupational therapy theory and practice. As the student gains knowledge and experience with the occupational therapy theoretical, assessment, and intervention process for children and youth, the student will articulate a sense of professional identity and responsibility to peers, faculty, the community, the profession, and to society. Prerequisite: OTM 601 and OTM 602.

OTM 623. Evaluation and Intervention for Children And Youth. 3 Credit Hours.

This course integrates evidence and theory in contemporary applications of occupational therapy in multiple pediatric/adolescent service delivery models. Cases will include increasingly complex psychosocial, physical, and contextual barriers to occupational performance for children and adolescents using active and problem-based learning approaches. A significant emphasis is placed on evaluation, intervention, outcomes and documentation related to the various cases presented. Evidence based practice, clinical reasoning, and ethical decision-making will be emphasized throughout the course. Prerequisites: OTM 601 and OTM 602.

OTM 624. Rehabilitation Engineering & Assistive Technology. 2 Credit Hours.

This course focuses in understanding of the use of technology to support performance, participation, health and well-being. This technology may include, but is not limited to, electronic documentation systems, distance communication, virtual environments, and telehealth technology. Students participate in scholarly projects, including literature review, measurement; data collection, data analysis and interpretation, and writing scholarly reports.

Prerequisite: OTM 604.

Corequisite: OTM 624L.

OTM 624L. Rehab Eng & Assist Tech Lab. 0 Credit Hour.**OTM 625. Occupation in Community & Justice. 2 Credit Hours.**

Building on Occupational Science Foundations, this course focuses on how systems, communities, and organizations influence health disparity and occupational participation. Students will explore, through systematic observation, interview, and analysis the determinants of population based health and wellness, barriers and supports to occupational participation, and the concepts of occupational and social justice. Students complete a variety of informal and formal papers and utilize a drafting process to ensure proficiency in written communication.

Prerequisite: OTM 605.

OTM 626. Inquiry & Evidence Based Practice III Research Project. 1 Credit Hour.

This course is the last in the series of evidence-based in OT practice. Advanced lectures and discussions pertaining measurements, data collection, analysis and interpretation and publication sources will be the main focus. Research proposal submission is required. Dissemination of knowledge through presentations at state and national conferences are expected. Students are paired with faculty for mentoring and development of the project.

Prerequisite: OTM 603.

OTM 627. OT Management & Leadership. 3 Credit Hours.

This class focuses on management and leadership in occupational therapy across practice settings. It provides an overview of payment systems, departmental organization, marketing, supervision, quality improvement, and program evaluation. It provides students with the tools needed to lead OT programs and people with emphasis on important concepts of leadership including decision-making, conflict resolution, negotiation, and relational communication.

Prerequisite: OTM 604.

OTM 646. Inquiry & Evidence Based Practice IV. 1 Credit Hour.

This course is the last in the series of evidence-based courses in OT practice. Working with a faculty mentor, students will implement their capstone project proposal. Data collected will then be analyzed and interpreted. Methods for dissemination of results will be shared.

Prerequisite: OTM 626.

OTM 676. Capstones Master Project. 1 Credit Hour.

Students submit and present a scholarly capstone project as the culminating activity of the Master of Science in Occupational Therapy. The capstone represents the application of theory to practice or to other professional functions and demonstrates the knowledge, skills and attitudes necessary for the success of an entry-level occupational therapy practitioner.

Prerequisite: OTM 646.

OTM 685. Clinical Internship. 9 Credit Hours.

The Level II fieldwork/internship course is required by the Accreditation Council for Occupational Therapy Education (ACOTE). This full time 12 weeks fieldwork experience is the final stage of preparing occupational therapy students for entry level practice. This course entails 3 months of full time supervised clinical experience with the opportunity to treat individuals with a variety of diagnoses across the life span. Students are assigned to an approved clinical education site in accordance with the Standards for an Accredited Educational Program for the Occupational Therapist, as stipulated by ACOTE. All professional courses and Fieldwork Level I must be successfully completed before the students are permitted to enter Fieldwork Level II. Fieldwork Practicum II-1 is an in depth, hands on, lived experience, critical to occupational therapy education. In supervised settings, students apply their academically acquired knowledge to the adult/older adult population, in a variety of settings, and at various levels of care where occupational therapy is already provided or would be of benefit. It includes but is not limited to most healthcare institutions, outpatient clinics, community based services, and/or schools. This course addresses the contextual application component of the curriculum; reflecting the educational themes of Interdisciplinary learning, creativity, innovation, knowledge, leadership and communication embedded in a Global Perspective of practice. Pass/Fail only.

Prerequisite: OTM 511 and OTM 611.

OTM 686. Pediatrics Experiential Practice. 9 Credit Hours.

The Level II fieldwork/internship course is required by the Accreditation Council for Occupational Therapy Education (ACOTE). This full time 12 weeks fieldwork experience is the final stage of preparing occupational therapy students for entry level practice. This course entails 3 months of full time supervised clinical experience with the opportunity to treat individuals with a variety of diagnoses across the life span. Students are assigned to an approved clinical education site in accordance with the Standards for an Accredited Educational Program for the Occupational Therapist, as stipulated by ACOTE. All professional courses and Fieldwork Level I must be successfully completed before the students are permitted to enter Fieldwork Level II. Fieldwork Practicum II-1 is an in depth, hands on, lived experience, critical to occupational therapy education. In supervised settings, students apply their academically acquired knowledge to the pediatric population, in a variety of settings, and at various levels of care where occupational therapy is already provided or would be of benefit. It includes but is not limited to most healthcare institutions, outpatient clinics, community based services, and/or schools. This course addresses the contextual application component of the curriculum; reflecting the educational themes of Interdisciplinary learning, creativity, innovation, knowledge, leadership and communication embedded in a Global Perspective of practice. Pass/Fail only.

Prerequisite: OTM 685.

Occupational Therapy Studies (M.S.)

Typical Program for Occupational Therapy Studies

Course	Title	Credit Hours
Year I		
Summer		
OTM 501	Introduction to OT *	2
OTM 502	Clinical Anatomy & Kinesiology **	3
OTM 502L	Anatomy and Kinesiology Lab **	0

OTM 503	Clinical Medicine *	3
OTM 504	Health Care Ethics & Advocacy *	2
OTM 505	Foundations of Occupational Science in OT Practice *	3
Credit Hours		13
Fall		
OTM 506	OT Practice in Mental Health	3
OTM 507	Foundations of Neuroscience	3
OTM 507L	Foundations Neuroscience Lab	0
OTM 508	Group Task Process & Practice	2
OTM 509	Movement, Participation and Adaptation Of Occupation	3
OTM 509L	Movement, Participation Lab	0
OTM 510	Introduction to Inquiry & Evidence Based I	3
OTM 511	Fieldwork I-1A	1
Credit Hours		15
Spring		
OTM 601	Occupational Performance in Adult and Geriatrics	3
OTM 602	Intervention Process & Strategies in Adults and Geriatrics	4
OTM 603	Inquiry & Evidence Based Practice II	3
OTM 604	Neuro-Rehabilitation	3
OTM 604L	Neuro-Rehabilitation Lab	0
OTM 605	Professional Reasoning	2
OTM 606	Clinical Internship Level II Seminar I	0.5
OTM 611	Fieldwork I-2A: Adults	1
Credit Hours		16.5
Year II		
Summer		
OTM 685	Clinical Internship	9
OTM 626	Inquiry & Evidence Based Practice III Research Project	1
Credit Hours		10
Fall		
OTM 612	Fieldwork I-3A: Pediatrics	1
OTM 621	Clinical Internship Level II Seminar II	0.5
OTM 622	OT Practice with Children and Youth	3
OTM 623	Evaluation and Intervention for Children And Youth	3
OTM 624	Rehabilitation Engineering & Assistive Technology	2
OTM 624L	Rehab Eng & Assist Tech Lab	0
OTM 625	Occupation in Community & Justice	2
OTM 627	OT Management & Leadership	3
OTM 646	Inquiry & Evidence Based Practice IV	1
Credit Hours		15.5
Spring		
OTM 686	Pediatrics Experiential Practice	9
OTM 676	Capstones Master Project	1
Credit Hours		10
Total Credit Hours		80

* Fully online format occurring Late May through end of July.

** Students report to campus the first week of August for this 3 week face to face course occurring at the end of the summer semester.

All of the above course work is sequential and required for degree completion.

Note: The Department Chair will communicate any additional lab hours/ time

The entry-level occupational therapy master's degree program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 6116 Executive Boulevard, Suite 200, Northern Bethesda, MD 20852-4929. ACOTE's telephone number c/o AOTA is (301) 652-AOTA and its Web address is www.acoteonline.org. Graduates of the program will be eligible to sit for the national certification examination for the occupational therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). In addition, all states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. ***Note that a felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure.***

Direct Entry Master of Science in Occupational Therapy (OT) Admission Pathway: B.S. in Psychology

A Direct Entry opportunity to the Occupational Therapy (OT) Pathway at Le Moyne College was developed to offer early acceptance to exceptional high school students wishing to accelerate their academic and career paths to become licensed occupational therapists. Accepted students will complete a bachelor's degree in psychology and then directly enter the Master of Science Program in Occupational Therapy at Le Moyne College. Students accepted into this pathway will be invited to participate in activities with current OT students and faculty.

Application for the direct entry pathway is made during the senior year of high school and is available only to first-year students. The program is competitive and space is limited.

Eligibility Requirements for Admission into the Direct Entry Pathway

1. Minimum High School Cumulative Average = 92
2. Minimum Test Scores = SAT 1100 (Critical Reading and Math only) or ACT 21
3. Required High School Courses: Applicants must graduate from an accredited high school and must complete a minimum of 16 academic units in the following distribution:
English - 4
Foreign Language - 3
Mathematics - 3-4
Natural Science - 3-4
Social Studies - 3-4

Applying to the Direct Entry Pathway

The application and all required documents must be received by the Le Moyne College Office of Admission by January 15.

A completed application includes:

1. **A freshman application**
2. Official high school transcript
3. Recommendations: Applicants are required to submit one letter of recommendation from a guidance or college counselor; or two letters of recommendation from clergy, coaches, employers, teachers, etc.; and one recommendation from a supervisor who can attest to the applicant's demonstrated commitment to the occupational therapy field.
4. Official SAT or ACT score report or official TOEFL or IELTS score report required of non-native English speakers
5. Personal statement
6. Documentation of Observation Hours
7. Required interview by invitation only; invitations will be extended by February 1.

After beginning study as a first-year student in the Direct Entry OT Pathway at Le Moyne College, accepted students have a binding agreement with the institution and may not apply to other OT programs.

Continuation in the Direct Entry Pathway

In order to remain in good standing and continue the program, a participant must meet or exceed the following:

- **Overall GPA** – Must attain or exceed an overall GPA of 3.0. Two successive semesters below 3.0 or a cumulative GPA below 3.0 will constitute grounds for dismissal from the program. However, participants may be allowed to continue in their undergraduate major provided they remain in good academic standing at Le Moyne College; these students would then have the opportunity to apply to the Master of Science program in Occupational Therapy with other students who were not in the direct entry group.
- **Continuous Enrollment** – Students must maintain full-time enrollment status during the entire pathway.
- **Academic Prerequisites** - Participants must complete all requirements for a baccalaureate degree in psychology from Le Moyne College by the end of the spring semester of the fourth year of enrollment. Students must also complete the prerequisite courses for the master's program in that same timeframe and attain at least a 3.0 GPA in those courses with no grade lower than a B.

Academic Prerequisites for the Master of Science Program in Occupational Therapy

Code	Title	Credit Hours
	Anatomy & Physiology I with lab (BSC 201 at Le Moyne)	4
	Anatomy & Physiology II with lab (BSC 202 at Le Moyne)	4
	Neuroscience OR Brain and Behavior ¹	3
	Cultural Idea and/or Civilizations (i.e., World Literature, World Religions, History, American Studies, Women's Studies, Sociology, Anthropology)	3
	Lifespan OR Human Development	3
	Abnormal Psychology	3

Statistics	3
Medical Terminology ²	1
English Composition or Technical Writing	3
Humanities (i.e., Ethics, Philosophy, Theology)	3

¹ Psychology Majors must take PSY 340 to satisfy this requirement.

² This course is offered online as OTM 201: Introduction to Medical Terminology in J-mester and May-mester.

- **Clinical Observation Experience** - Participants must also complete an additional 30 hours of clinical observation hours or work experience under the supervision of a licensed occupational therapist in multiple settings with multiple clients and submit as part of the OTCAS (Occupational Therapy Centralized Application Service) application.
- **OTCAS Application** – Participants will need to file the OTCAS application in their fourth year of study by the February 15 deadline and will be responsible for the application fee.
- **Moral and Ethical Fitness** - During all phases of the program, a student must remain in good moral and ethical standing appropriate to the pursuit of a career as an occupational therapist and eventual professional licensure. Failure to do so will result in dismissal from the program.

Code	Title	Credit Hours
Core Curriculum (p. 61) ¹		
COR 100	First Year Seminars: Transitions	3
WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
HST 110	World Civilization I	3
HST 111	World Civilization II	3
ENG 210	Major Authors	3
PHL 210	Moral Philosophy	3
	Theology (p. 61)	3
	EAC Encountering Another Culture/Language (p. 61)	6
ENG 310	Literature and Culture	3
	Mathematics (p. 61)	3
	Social Science (p. 61)	3
	Natural Science (p. 61)	3
	IDS Interdisciplinary Studies (p. 61)	3
	Religion (p. 61)	3
COR 400	Senior Studies: Transformations	3
	VPA Visual & Performing Arts (p. 61)	1
	DIV Diversity (p. 61)	0
Major Requirements ²		
PSY 101	Introductory Psychology	3
PSY 201	Intro to Research Methods	4
PSY 220	Human Life Span Development ³	3
PSY 280	Abnormal/Normal Psychology	3
PSY 330	Cross-Cultural Psychology	3
PSY 340	Brain and Behavior	3
	PSY SEM 400 ⁴	3
	PSY Electives ⁵	9

Major Support Requirements

MTH 110	Introduction to Statistics I (no Computer Lab)	3
MTH 112	Introduction to Statistics II	3
BSC 201	Human Anatomy & Physiology I	4
BSC 202	Human Anatomy & Physiology II	4
Electives		
Natural Science Elective (BIO,BSC,CHM, or PHY)		4
Science Electives (BIO,BSC,CHM,PSY,MTH,CSC, or MIS)		3
Free Electives (18 credits or more until total credits are at least 120 required to graduate) ⁶		18
OTM 201	Introduction to Medical Terminology	1

¹ Some Core requirements may or will be fulfilled by the B.S. major and major support courses.

² At least 12 credits of psychology electives must be classroom rather than experiential courses. At least one must be chosen from the following group: PSY 401-449 or PSY 499(SEM 400). At least half of the major requirements must be taken at Le Moyne College. To graduate with a B.S., a student must achieve a 2.0 GPA or higher and have at least 120 total credits. Acceptance into the OT program requires a minimum of 3.0 GPA along with additional application requirements.

³ PSY 220 may be replaced with PSY 215 and PSY 320.

⁴ Select one of the following: PSY 402-449; PSY 499 Departmental Honors in Psychology. PSY 448 Clinical Neuropsychology is recommended to fulfill the PSY SEM 400 requirement.

⁵ PSY 250 Cognition is recommended.

⁶ This must include a Medical Terminology course for at least 1 credit.

Direct Entry Master of Science Occupational Therapy (OT) Pathway: B.A. in Sociology

A Direct Entry opportunity to the Occupational Therapy (OT) Pathway at Le Moyne College was developed to offer early acceptance to exceptional high school students wishing to accelerate their academic and career paths to become licensed occupational therapists. Accepted students will complete a bachelor's degree in sociology and then directly enter the Master of Science Program in Occupational Therapy at Le Moyne College. Students accepted into this pathway will be invited to participate in activities with current OT students and faculty.

Application for the direct entry pathway is made during the senior year of high school and is available only to first-year students. The program is competitive and space is limited.

Eligibility Requirements for Admission into the Direct Entry Pathway

1. Minimum High School Cumulative Average = 92
2. Minimum Test Scores = SAT 1100 (Critical Reading and Math only) or ACT 21
3. Required High School Courses: Applicants must graduate from an accredited high school and must complete a minimum of 16 academic units in the following distribution:
English - 4
Foreign Language - 3
Mathematics - 3-4

Natural Science - 3-4
Social Studies - 3-4

Applying to the Direct Entry Pathway

The application and all required documents must be received by the Le Moyne College Office of Admission by January 15.

A completed application includes:

1. **A freshman application**
2. Official high school transcript
3. Recommendations: Applicants are required to submit one letter of recommendation from a guidance or college counselor; or two letters of recommendation from clergy, coaches, employers, teachers, etc.; and one recommendation from a supervisor who can attest to the applicant's demonstrated commitment to the occupational therapy field.
4. Official SAT or ACT score report or official TOEFL or IELTS score report required of non-native English speakers
5. Personal statement
6. Documentation of Observation Hours
7. Required interview by invitation only; invitations will be extended by February 1.

After beginning study as a first-year student in the Direct Entry OT Pathway at Le Moyne College, accepted students have a binding agreement with the institution and may not apply to other OT programs.

Continuation in the Direct Entry Pathway

In order to remain in good standing and continue the program, a participant must meet or exceed the following:

- **Overall GPA** – Must attain or exceed an overall GPA of 3.0. Two successive semesters below 3.0 or a cumulative GPA below 3.0 will constitute grounds for dismissal from the program. However, participants may be allowed to continue in their undergraduate major provided they remain in good academic standing at Le Moyne College; these students would then have the opportunity to apply to the Master of Science program in Occupational Therapy with other students who were not in the direct entry group.
- **Continuous Enrollment** – Students must maintain full-time enrollment status during the entire pathway.
- **Academic Prerequisites** - Participants must complete all requirements for a baccalaureate degree in psychology from Le Moyne College by the end of the spring semester of the fourth year of enrollment. Students must also complete the prerequisite courses for the master's program in that same timeframe and attain at least a 3.0 GPA in those courses with no grade lower than a B.

Academic Prerequisites for the Master of Science Program in Occupational Therapy

Code	Title	Credit Hours
	Anatomy & Physiology I with lab (BSC 201 at Le Moyne)	4
	Anatomy & Physiology II with lab (BSC 202 at Le Moyne)	4
	Neuroscience OR Brain and Behavior ¹	3

Cultural Idea and/or Civilizations (i.e., World Literature, World Religions, History, American Studies, Women's Studies, Sociology, Anthropology)	3
Lifespan OR Human Development	3
Abnormal Psychology	3
Statistics	3
Medical Terminology ²	1
English Composition or Technical Writing	3
Humanities (i.e., Ethics, Philosophy, Theology)	3

¹ OTM 202: Concepts of Neuroscience is offered online in J-mester and Maymester

² OTM 201: Introduction to Medical Terminology is offered online during J-meseter and Maymester

Code	Title	Credit Hours
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Core Curriculum to Satisfy the OT Program Prerequisites

WRT 101	Critical Writing	3
PHL 110	Introduction to Philosophy	3
PHL 210	Moral Philosophy	3

Major Requirements to Satisfy the OT Program Prerequisites

PSY 101	Introductory Psychology	3
MTH 111	Introduction to Statistics I (with Computer Lab)	4
ANT 101/102/200	Introduction to Anthropology ¹	3

Electives to Satisfy the OT Program Prerequisites

PSY 220	Human Life Span Development ²	3
PSY 280	Abnormal/Normal Psychology	3
BSC 201	Human Anatomy & Physiology I	4
BSC 202	Human Anatomy & Physiology II	4
PSY 340	Brain and Behavior	3

Other Course Requirements

Medical Terminology ³	1
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¹ Other courses on cultural ideas can also fulfill this requirement as an OT program prerequisite.

² PSY 220 may be replaced with PSY 215 AND PSY 320.

³ OTM 201 Introduction to Medical Terminology is offered online in the J-mester and May-mester.

- **Clinical Observation Experience** - Participants must also complete an additional 30 hours of clinical observation hours or work experience under the supervision of a licensed occupational therapist in multiple settings with multiple clients and submit as part of the OTCAS (Occupational Therapy Centralized Application Service) application.
- **OTCAS Application** – Participants will need to file the OTCAS application in their fourth year of study by the February 15 deadline and will be responsible for the application fee.
- **Moral and Ethical Fitness** - During all phases of the program, a student must remain in good moral and ethical standing appropriate to the pursuit of a career as an occupational therapist and eventual professional licensure. Failure to do so will result in dismissal from the program.

PHYSICIAN ASSISTANT STUDIES

Program Director: Elizabeth W. Mercer

Associate Professor: William Holmes

Professor of Practice: Rebecca Brown, Kathryn Compagni, Travis Hayden, Raymond A. Jannetti, Elizabeth W. Mercer, Lynn-Beth Satterly, Alexander Savich

Adjunct Faculty: Norton Berg, Cathy Burkett, Benjamin Connor, Joanne Daprano, Madeline Farchione, Susan Jewett, Anne Kukulski, Michael Mastroleo, Patrick Nappi, Maggie Narrigan, Lisa A. Olsen-Gugerty, Amy Roberson, Susan Stearns, Anthony J. Vinciguerra

Clinical Associate Professor: Mary E. Springston

Medical Director: Mitchell Lebowitz

Assistant Research Coordinator: Patricia Kriegisch Kondapi

Clinical Coordinator: Kathryn Compagni

Assistant Clinical Coordinator: Alexander Savich

Academic Coordinator: Rebecca Brown

The Le Moyne College Master of Science in Physician Assistant Studies is dedicated to the education of students to become clinically competent, compassionate PAs, who are equipped with the skills necessary to practice in a diverse and ever-changing health care environment. The curriculum prepares students to provide patient-centered care in collaborative, interprofessional medical teams.

The physician assistant studies (PA) curriculum is a 24-month full-time program, divided into 12 months of didactic courses followed by 12 months of supervised clinical practice experiences, (SPCEs). Students will have a solid foundation in evidence based medicine, emphasizing the importance of remaining current with the changing nature of clinical practice.

The 12-month clinical curriculum is comprised of rotations in medicine, primary care, pediatrics, women's health / ambulatory care, surgery, emergency medicine, behavioral medicine and surgical or medical specialty elective. Emphasis is placed on developing a solid foundation for providing patient care in a variety of primary care and specialty settings.

Accreditation

The Le Moyne College Physician Assistant Studies Program is fully accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA) and the Education Department of the State of New York. Graduates are eligible to sit for the national certification examination administered by the National Commission on Certification of Physician Assistants.

Physician Assistant Studies

Admission Criteria

- A baccalaureate degree from an accredited institution
- Cumulative, science and prerequisite grade-point averages of at least 3.2
- Completion of prerequisite courses
- Documentation of quality and quantity of health care experience
- Successful interview, by invitation
- Background check
- Foreign transcripts need to be evaluated by World Education Services ([wes.org](http://www.wes.org) (<http://www.wes.org>)) and submitted for the CASPA application
- International students:
Test of English as a Foreign Language (TOEFL) score of at least 79 or International English Language Testing System (IELTS) score of 6.5. The following are exceptions:
 - Graduation from an accredited American high school OR
 - Graduation from an American two- or four-year college or university OR
 - Completion of 15 graduate credits at an American college or university OR
 - Completion of 60 undergraduate credits including six transferable credits of English at an American college or university

Prerequisites

- 750 hours of current, high-quality direct patient care experience
- Biology I with lab and Biology II with lab for science majors
- Four additional upper-level (200+) biological sciences courses for science majors, two of which must include lab
- Two semesters of general chemistry with lab for science majors
- One semester of organic chemistry or biochemistry
- Two semesters selected from the following: statistics, calculus or physics
- Two semesters of social science
- One semester of English composition or technical writing
- * If the upper-level biology courses were taken over five years ago, four additional upper-level biology courses must be taken.
- Knowledge and practical skills in basic computing (no specific course required)

Admission Options

Post-baccalaureate – For individuals who have already earned a bachelor's degree or will have earned one by the time the program begins.

Accelerated – A five-year (3+2) B.S./M.S. curriculum with application to the physician assistant studies program in the student's junior year (available only to Le Moyne students).

Direct entry – For exceptional high school students to accelerate their path to become a P.A. in the five-year (3+2) or the six-year (4+2) Bachelor of Science (B.S.) in biological sciences/Master of Science (M.S.) program in physician assistant studies at Le Moyne College.

Veteran - PA Bridge Path - Offers three distinct pathways for veterans into the physician assistant studies program. Application may be made

pre-baccalaureate or post-baccalaureate depending on education and medical experience.

Student Classifications

Candidates who fulfill the admission requirements are accepted only as full-time degree-seeking students.

Health Clearance

In addition to meeting the immunization requirements of the College, more specific health and immunization requirements must be met prior to participation in any clinical rotations.

Academic Criteria

Graduation Requirements

Successful conclusion of the PA Studies Program requires a minimum G.P.A. of 3.0 and completion of required coursework.

Probation

Physician assistant studies students earning a quality point index of less than 3.0 are placed on academic probation. A student who receives a grade of less than a B for three academic credits will be placed on academic probation. A student who fails any pass/fail course will be put on academic probation.

Termination

The following will result in dismissal from the program:

- A student who receives a grade of less than B for six academic credit hours.
- A student who receives a grade of less than a C in the didactic year for a three-credit course (a three-credit course or combination of courses that add up to a total of three credits or more than three credits).
- A student who is on probation who fails a pass/fail course. A student who has failed two pass/fail courses.

Transfer Credit/Waiver Policy

The Le Moyne College Physician Assistant Studies Program does not grant advanced placement, give credit for or accept transfer of credit for PA Studies courses. Previous health care experience is required, but no course credit is granted for that experience.

The director of the physician assistant studies program has the authority to substitute a prerequisite course if such a substituted course is deemed to cover similar material satisfactorily.

Term Limit for Completion

Physician assistant studies students must complete the program within four years from the date of matriculation.

Withdrawal or Leave of Absence

For personal or medical reasons, a student may voluntarily discontinue enrollment at the College by requesting either a leave of absence (temporary) or a withdrawal from the College (permanent).

A leave of absence is a temporary hiatus from the College with the intent to return after a specified period of time. Students requesting a leave of absence must indicate when they plan to return to their studies. The total time away from the College cannot exceed two consecutive semesters. A student may not take matriculated coursework at another institution while on a leave of absence. To be eligible to return from a leave of

absence, the student must demonstrate readiness to return by satisfying all requirements for return. If a student does not return from a leave of absence at the scheduled time, the student will be administratively withdrawn from the College and must apply for readmission.

A withdrawal is a permanent separation from the College. A student who has withdrawn must apply for readmission to the College if the student wishes to re-enroll. Students withdrawing from a graduate Purcell program will be contacted by a Purcell administrator for a brief exit interview.

A student may request a personal or medical leave of absence or a withdrawal by completing the Purcell Graduate Leave of Absence/Withdrawal Form available through their department. A student requesting a leave of absence or withdrawal will meet with a designated program official to discuss the academic and financial implications of their decision. The designated program official will also discuss the requirements for return if a student is taking a leave of absence.

If the request for a personal or medical leave of absence/withdrawal is approved for a future semester, then the student may remain enrolled in and receive grades for the current semester. The student will have a hold on future registration until the conditions of return have been met. If the request for a personal or medical leave of absence/withdrawal is approved for a current semester, then depending on the academic calendar and personal circumstance the program director or chair can determine the most appropriate resolution for the student's enrollment. The student may not take a leave of absence and remain enrolled in the students coursework if the leave of absence is for the current semester.

The College may require a student to take a medical leave of absence or withdrawal if, in the judgment of the College, the student poses an imminent threat to the lives, safety or well-being of themselves or other members of the college community (including preceptor and internship settings).

Except in unusual circumstances where safety is of immediate concern, the College will make a decision to involuntarily withdraw a student only after providing the student with advance notice and an opportunity to meet with Purcell officials.

In cases of both medical leaves of absence and withdrawals, the tuition refund policies specified in the Le Moyne College Catalog apply.

For additional policies specifically related to the Physician Assistant Studies Program, please see on-line at www.lemoyne.edu/pa (<http://www.lemoyne.edu/pa/>).

Student Learning Outcomes in Physician Assistant Studies

Medical Knowledge

Students must demonstrate core knowledge about established and evolving biomedical sciences and the application of this knowledge to patient care in practice. This approach encompasses a strong bio, psycho-social, spiritual model that reflects humanistic medical practice.

Successful achievement of this goal is demonstrated through multiple metrics including student performance on standardized testing (PACKRAT and PANCE), as well as evaluations by preceptors in the field.

Interpersonal & Communications Skills

Students will practice effective communication skills. Such skills will require that students be able to translate the language of medicine into an effective, collaborative information exchange with patients, families and professional associates. Expectations will include familiarity with diverse cultures, backgrounds and perspectives.

Le Moyne College is one of only a handful of PA programs that requires students to participate in a Medical Humanities course. This course is designed to engage students in thinking critically about multiple issues that transcend bioscience and emphasize psychology, social science and spirituality in a patient-centered forum.

Students participate in community engagement activities working with community partners, patients and various members of the local medical community. These projects are designed to help students develop an awareness of community needs and cultural sensitivity.

Patient Care

Students must demonstrate care that is effective, safe, competent, and equitable, and practice in a bio, psycho-social manner which encompasses the whole patient.

The foundation of the Le Moyne PA program is the Jesuit concept of *cura personalis*, which translates as “care of the whole person.” The program is built around the concepts of individualized attention to the needs of others as well as distinct respect for unique circumstances and concerns.

Professionalism

Students must acknowledge their professional and personal strengths and limitations and demonstrate a high level of responsibility, ethical practice, sensitivity to a diverse patient population, with adherence to legal and regulatory requirements. Appropriate comportment, leadership, duty and altruism in caring for patients is standard.

Practice-based Learning & Improvement

Students must be able to assess, evaluate, and improve their patient care practices as life-long learners. They must demonstrate the skills necessary for critical review of professional literature, data, and other resources encountered in clinical practice.

Systems-based Practice

Students must demonstrate an awareness of and responsiveness to the larger system of health care to provide care that balances quality and cost. They must be adept in patient management, interdisciplinary treatment and collaboration through effective oral communication and written documentation.

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Physician Assistant Studies (PAS)

PAS 501. Clinical Medicine I. 7 Credit Hours.

This case-based course introduces students to the fundamentals of medical practice, including history taking and physical examination skills. Utilizing a systems approach, it includes a comprehensive study of diseases with emphasis on etiology, pathophysiology, signs and symptoms, diagnostic procedures, and therapeutic measures involved in treating the various medical problems. Various aspects of preventive medicine, patient counseling and education, medical law and ethics, medical economics, physician assistant practice, and other related factors are incorporated. This course is closely integrated with Human Anatomy and Physiology I and Pharmacology I.

Prerequisites: Acceptance into the Physician Assistant Program.

PAS 502. Clinical Medicine II. 7 Credit Hours.

This is a continuation of PAS 501 Clinical Medicine I, and is integrated with Human Anatomy and Physiology II and Pharmacology II.

PAS 503. Clinical Medicine III. 7 Credit Hours.

This is an advanced course in clinical medicine topics with focus on integrating basic sciences, basic medical sciences, and clinical practice. A combination of cases, lectures, and laboratory experiences provide the student with an opportunity to solidify clinical skills, critical thinking skills, self-directed learning, and professional communication skills.

Prerequisites: Completion of PAS 501 and 502. Open only to Physician Assistant Studies students. Required for completion of degree. Course fee of \$300.

Prerequisite: PAS 501 and PAS 502.

PAS 511. Human Anatomy & Physiology I. 4 Credit Hours.

This course utilizes a systems approach to applied functional human anatomy and physiology. It includes both classroom and lab sessions so that students develop an understanding of the integral workings of the human body. Lab sessions will use models, computer simulated software, and prosecuted human cadavers. Body systems covered include nervous, special sense, endocrine, musculoskeletal, renal, reproductive, respiratory, cardiovascular, and digestive. The order may be rearranged to integrate with Clinical Medicine I and Pharmacology I.

Prerequisites: Acceptance into the Physician Assistant Program.

PAS 512. Human Anatomy & Physiology II. 4 Credit Hours.

This is a continuation of PAS 511 and is integrated with Clinical Medicine II and Pharmacology II. Remaining body systems will be covered through didactic and laboratory sessions and will integrate with Clinical Medicine II and Pharmacology II.

PAS 513. Pharmacology I. 3 Credit Hours.

Medical management of diseases affecting the major body systems will be covered in this course, including the principles of pharmacology as they pertain to therapeutic agents. Students learn the principle mechanisms of action of the major groups of therapeutic agents, absorption, metabolism, distribution, uses, side effects, and toxicities of representative drugs. It is closely integrated with PAS 501 Clinical Medicine I and PAS 511 Anatomy & Physiology I.

Prerequisites: Acceptance into the Physician Assistant Program.

PAS 514. Pharmacology II. 3 Credit Hours.

This is a continuation of PAS 513 Pharmacology I. Medical management of diseases affecting the major body systems will be covered in this course, including the principles of pharmacology as they pertain to therapeutic agents. Students learn the principal mechanisms of action of the major groups of therapeutic agents, absorption, metabolism, distribution, uses, side effects, and toxicities of representative drugs. It is closely integrated with PAS 502 Clinical Medicine II and PAS 512 Anatomy & Physiology II.

PAS 515. Counseling and Public Health. 3 Credit Hours.

This course covers general public health concepts, including health promotion and disease prevention. Patient education, counseling, and intervention strategies are covered. Students explore available community and public health resources relevant to patient needs throughout the lifespan of pediatric, adult, and geriatric populations. Content is based on Healthy People 2030 guidelines.

PAS 516. Physical Diagnosis and Patient Evaluation Laboratory I. 4 Credit Hours.

This course presents the techniques necessary to elicit comprehensive medical histories, perform complete physical examinations, make case presentations, and document patient information. A combination of lectures, discussions, case studies and simulations will be used to present and practice concepts. Each aspect of the course emphasizes the importance of creating a therapeutic and ethically sound relationship with patients and other healthcare professionals. The course integrates material from Clinical Medicine I, Pharmacology I, Human Anatomy and Physiology I and Medical Humanities.

PAS 517. Physical Diagnosis and Patient Evaluation Laboratory II. 4 Credit Hours.

This course presents the techniques necessary to elicit comprehensive as well as focused medical histories, perform complete or focused physical examinations, understand the indications for and evaluation of various ancillary studies, make case presentations, and record various types of patient information, including an introduction to electronic Medical Records systems. A combination of lectures, discussions, case studies and simulations will be used to present and practice concepts. Each aspect of the course emphasizes the importance of creating a therapeutic and ethically sound relationship with patients and other healthcare professionals. The course integrates material from Clinical Medicine II, Pharmacology II, Human Anatomy and Physiology II and Medical Humanities II.

Prerequisite: PAS 516 with a grade of "B" or better.

PAS 518. Physical Diagnosis and Patient Evaluation Laboratory III. 4 Credit Hours.

In the Summer Semester the previously taught skills of obtaining comprehensive or focused medical histories, performing complete or focused physical examinations, performing oral case presentations, documenting various types of patient information are reinforced. Instruction in the special patient populations of Women's Health Care, Geriatric and Pediatric Health Assessment is given. Additionally, emphasis will be placed on Competency-based evaluation as the student moves toward clinical rotations through a combination of lectures, discussions, case studies and simulations training. Each aspect of the course emphasizes the importance of creating a therapeutic and ethically sound relationship with patients and other healthcare professionals. The course integrates material from Clinical Medicine III. Prerequisite: PAS-516 and PAS-517.

PAS 521. Medical Humanities Seminar I. 3 Credit Hours.

Medical Humanities is an interdisciplinary series of lectures, practicums and dialogues designed to engage PA students in thinking critically about multiple issues that transcend bioscience, and emphasize psychology, social science and spirituality in a patient-centered forum. We expand cultural competence through diversity training in order to prepare students for a 21st century workplace and multicultural environment. Through communication and interviewing skills practicum, we strive to expose biases and stereotypes that can restrict professional achievement and interfere with patient care. To this end, we include a variety of perspectives; we discuss social contexts, consider equity and justice, and include activities that foster critical thinking and self-awareness. Views, ideas, lifestyles that are underrepresented or less common, are also explored in order to showcase a more holistic understanding of the person. Whenever possible, this course will be coordinated with PAS 501 and PAS 502. Fulfills core requirement(s): Diversity (DIV) and Interdisciplinary Studies (IDS).

PAS 522. Medical Humanities Seminar II. 3 Credit Hours.

This is a yearlong, interdisciplinary seminar designed to engage students in thinking critically about fundamental ethical, cultural, religious, and social issues concerning health, medical practice, access to health care and public policy. By taking note of the plurality of cultural and social contexts in which medical care and moral discourse about medical care take place, students will explore the values, ideologies, and institutional practices that shape the meanings that health, illness, and acceptable medical practices have for patients and for health care practitioners and that influence medical decision-making and interactions between patients and health care practitioners. Course will be coordinated with PAS 502(Clinical Medicine II.).

PAS 590. Independent Study. 1-7 Credit Hours.

This course is designed to enhance clinical skills for academic credit. The student will work with the faculty member to determine the goal to be achieved, methodology to be followed, schedule of supervision, end product, evaluation procedures, and the number of credits sought. The proposal must be approved by the supervising faculty member, the Program Director, and the Dean of the Purcell School of Professional Studies.

PAS 600. Orientation to PA Profession. 0 Credit Hour.

This course introduces the physician assistant to the history of the profession, role of the physician assistant in the health care team, professional organizations, requirements for licensure (including graduation from an accredited program, certification and recertification requirements), credentialing, professional liability, and general trends in political and legal issues that affect PA practice.

PAS 601. Research Seminar I. 1 Credit Hour.

This course is the first of 5 seminars that will culminate in the completion of a master's project. Working in collaboration with faculty sponsors, students will produce a scholarly work pertaining to the science, practice or profession of physician assistant. Each project must include a review of a relevant scholarly literature, involve the analysis of data, and be conducted by students working in teams of perhaps 3 to 4. Specific topics of investigation will depend on the interests of students and faculty, and on available resources. In this seminar, students will explore their research interests and those of the faculty, and create their project teams. Project teams will then decide upon the questions or problems they wish to investigate, design methods by which to investigate the problems, identify relevant resources, consult with local agencies and experts as necessary, and create initial and updated outlines of project proposals. In addition, students will become familiar with many of the research designs and statistical concepts of evidence-based medicine.

PAS 602. Research Seminar II. 1 Credit Hour.

This course is the second of 5 seminars that will culminate in the completion of a master's project. Working in collaboration with faculty sponsors, students will produce a scholarly work pertaining to the science, practice or profession of physician assistant. Each project must include a review of relevant scholarly literature, involve the analysis of data and be conducted by students working in teams of perhaps 3 to 4. Specific topics of investigation will depend on the interests of students and faculty, and on available resources. In this seminar, project teams will create formal project proposals in which they explain the questions or problems to be investigated and the methodologies to be used, and write drafts of applications for review of research by the College's Institutional Review Board for the Protection of Human Subjects(IRB). In addition, students will continue their study of the research designs and statistical concepts of evidence-based medicine.

Prerequisites: PAS 601.

PAS 603. Research Seminar III. 3 Credit Hours.

This course is the third of 5 seminars that will culminate in the completion of a master's project. Working in collaboration with faculty sponsors, students will produce a scholarly work pertaining to the science, practice or profession of physician assistant. Each project must include a review of relevant scholarly literature, involve the analysis of data, and be conducted by students working in teams of perhaps 3 to 4. Specific topics of investigation will depend on the interests of students and faculty, and on available resources. In this seminar, project teams will submit to the College's Institutional Review Board for the Protection of Human Subjects(IRB) applications for review of research, write second drafts of the introduction and methods sections of their master's project reports, and continue their study of medical research designs and statistics.

Prerequisites: PAS 602.

PAS 604. Research Seminar IV. 2 Credit Hours.

This course is the fourth of 5 seminars that will culminate in the completion of a master's project. Working in collaboration with faculty sponsors, students will produce a scholarly work pertaining to the science, practice or profession of physician assistant. Each project must include a review of relevant scholarly literature, involve the analysis of data, and be conducted by students working in teams of perhaps 3 to 4. Specific topics of investigation will depend on the interests of students and faculty, and on available resources. In this seminar, project teams will collect and analyze their project data, and write drafts on the results sections of their project reports. Pass/Fail.

Prerequisites: PAS 603.

PAS 605. Research Seminar V. 3 Credit Hours.

This course is the fifth of 5 seminars that will culminate in the completion of a master's project. Working in collaboration with faculty sponsors, students will produce a scholarly work pertaining to the science, practice or profession of physician assistant. Each project must include a review of relevant scholarly literature, involve the analysis of data, and be conducted by students working in teams of perhaps 3 to 4. Specific topics of investigation will depend on the interests of students and faculty, and on available resources. In this seminar, students will complete their projects, submit final written reports, and present posters of their findings to the college community. Final reports and posters will follow the editorial style of the American Medical Association, and will incorporate explanations of the questions or problems that were investigated, assessments of the current state of knowledge pertinent to the questions or problems, descriptions of the methodologies and data analysis techniques that were used to answer the questions or resolve the problems, and discussions of findings, including summary and implications, recommendations, limitations and conclusions. Pass/Fail.

Prerequisites: PAS 604.

PAS 651. Professional Skills I. 3 Credit Hours.

The series of courses is designed to prepare Physician Assistant students to practice medicine in the current health-care system. The student will address legal and ethical issues as they relate to the health profession; study behavior aspects of medicine, social causes of illness, and preventative medicine; review the medical literature and apply it to a clinical setting; examine insurance, billing and coding issues; and refine the knowledge, skills, and techniques acquired during their clinical rotations. Communication skills, professional standards and requirements, advanced clinical topics, health care practice issues, patient response to illness, and other topics encountered in the clinical setting will be discussed. Pass/Fail. Course fee of \$400.

PAS 652. Professional Skills II. 3 Credit Hours.

This series of courses is designed to prepare Physician Assistant students to practice medicine in the current health-care system. The student will address legal and ethical issues as they relate to the health profession; study behavior aspects of medicine, social causes of illness, and preventative medicine; review the medical literature and apply it to a clinical setting; examine insurance, billing and coding issues; and refine the knowledge, skills, and techniques acquired during their clinical rotations. Communication skills, professional standards and requirements, advanced clinical topics, health care practice issues, patient response to illness, and other topics encountered in the clinical setting will be discussed. Pass/Fail.

PAS 653. Professional Skills III. 3 Credit Hours.

This series of courses is designed to prepare Physician Assistant students to practice medicine in the current health-care system. The student will address legal and ethical issues as they relate to the health profession; study behavior aspects of medicine, social causes of illness, and preventative medicine; review the medical literature and apply it to a clinical setting; examine insurance, billing and coding issues; and refine the knowledge, skills, and techniques acquired during their clinical rotations. Communication skills, professional standards and requirements, advanced clinical topics, health care practice issues, patient response to illness, and other topics encountered in the clinical setting will be discussed. Pass/Fail.

PAS 671. Clinical Rotation I. 3 Credit Hours.

Clinical rotations are six-week rotations spent full time in the clinical setting. Students are assigned to complete rotations such that they acquire clinical experiences that will prepare them to practice as Physician Assistants. Students complete rotations in (1) medicine, (2) primary care, (3) pediatrics, (4) women's health/ambulatory care, (5) behavioral health, (6) surgery, (7) emergency medicine, and (8) a surgical or medical specialty elective. Each rotation emphasizes cultural sensitivity, understanding of health in relationship to the predominant culture, and the role of the health care provider in the setting. Pass/fail. Prerequisites: Successful completion of the first year of the Physician Assistant Studies Program and approval by the Physician Assistant Progression Committee.

PAS 672. Clinical Rotation II. 3 Credit Hours.

Clinical rotations are six-week rotations spent full time in the clinical setting. Students are assigned to complete rotations such that they acquire clinical experiences that will prepare them to practice as Physician Assistants. Students complete rotations in (1) medicine, (2) primary care, (3) pediatrics, (4) women's health/ambulatory care, (5) behavioral health, (6) surgery, (7) emergency medicine, and (8) a surgical or medical specialty elective. Each rotation emphasizes cultural sensitivity, understanding of health in relationship to the predominant culture, and the role of the health care provider in the setting. Pass/fail. Prerequisites: Successful completion of the first year of the Physician Assistant Studies Program and approval by the Physician Assistant Progression Committee.

PAS 673. Clinical Rotation III. 3 Credit Hours.

Clinical rotations are six-week rotations spent full time in the clinical setting. Students are assigned to complete rotations such that they acquire clinical experiences that will prepare them to practice as Physician Assistants. Students complete rotations in (1) medicine, (2) primary care, (3) pediatrics, (4) women's health/ambulatory care, (5) behavioral health, (6) surgery, (7) emergency medicine, and (8) a surgical or medical specialty elective. Each rotation emphasizes cultural sensitivity, understanding of health in relationship to the predominant culture, and the role of the health care provider in the setting. Pass/fail. Prerequisites: Successful completion of the first year of the Physician Assistant Studies Program and approval by the Physician Assistant Progression Committee.

PAS 674. Clinical Rotation IV. 3 Credit Hours.

Clinical rotations are six-week rotations spent full time in the clinical setting. Students are assigned to complete rotations such that they acquire clinical experiences that will prepare them to practice as Physician Assistants. Students complete rotations in (1) medicine, (2) primary care, (3) pediatrics, (4) women's health/ambulatory care, (5) behavioral health, (6) surgery, (7) emergency medicine, and (8) a surgical or medical specialty elective. Each rotation emphasizes cultural sensitivity, understanding of health in relationship to the predominant culture, and the role of the health care provider in the setting. Pass/fail. Prerequisites: Successful completion of the first year of the Physician Assistant Studies Program and approval by the Physician Assistant Progression Committee.

PAS 675. Clinical Rotation V. 3 Credit Hours.

Clinical rotations are six-week rotations spent full time in the clinical setting. Students are assigned to complete rotations such that they acquire clinical experiences that will prepare them to practice as Physician Assistants. Students complete rotations in (1) medicine, (2) primary care, (3) pediatrics, (4) women's health/ambulatory care, (5) behavioral health, (6) surgery, (7) emergency medicine, and (8) a surgical or medical specialty elective. Each rotation emphasizes cultural sensitivity, understanding of health in relationship to the predominant culture, and the role of the health care provider in the setting. Pass/fail. Prerequisites: Successful completion of the first year of the Physician Assistant Studies Program and approval by the Physician Assistant Progression Committee.

PAS 676. Clinical Rotation VI. 3 Credit Hours.

PAS 677. Clinical Rotation VII. 3 Credit Hours.

Clinical rotations are six-week rotations spent full time in the clinical setting. Students are assigned to complete rotations such that they acquire clinical experiences that will prepare them to practice as Physician Assistants. Students complete rotations in (1) medicine, (2) primary care, (3) pediatrics, (4) women's health/ambulatory care, (5) behavioral health, (6) surgery, (7) emergency medicine, and (8) a surgical or medical specialty elective. Each rotation emphasizes cultural sensitivity, understanding of health in relationship to the predominant culture, and the role of the health care provider in the setting. Pass/fail. Prerequisites: Successful completion of the first year of the Physician Assistant Studies Program and approval by the Physician Assistant Progression Committee.

PAS 678. Clinical Rotation VIII. 3 Credit Hours.

Clinical rotations are six-week rotations spent full time in the clinical setting. Students are assigned to complete rotations such that they acquire clinical experiences that will prepare them to practice as Physician Assistants. Students complete rotations in (1) medicine, (2) primary care, (3) pediatrics, (4) women's health/ambulatory care, (5) behavioral health, (6) surgery, (7) emergency medicine, and (8) a surgical or medical specialty elective. Each rotation emphasizes cultural sensitivity, understanding of health in relationship to the predominant culture, and the role of the health care provider in the setting. Pass/fail. Prerequisites: Successful completion of the first year of the Physician Assistant Studies Program and approval by the Physician Assistant Progression Committee.

M.S., Physician Assistant

Course	Title	Credit Hours
Year I		
First Semester		
PAS 501	Clinical Medicine I	7
PAS 511	Human Anatomy & Physiology I	4
PAS 513	Pharmacology I	3
PAS 521	Medical Humanities Seminar I	3
PAS 600	Orientation to PA Profession	0
PAS 601	Research Seminar I	1
PAS 516	Physical Diagnosis and Patient Evaluation Laboratory I	4
Credit Hours		22
Second Semester		
PAS 502	Clinical Medicine II	7

PAS 512	Human Anatomy & Physiology II	4
PAS 514	Pharmacology II	3
PAS 522	Medical Humanities Seminar II	3
PAS 602	Research Seminar II	1
PAS 517	Physical Diagnosis and Patient Evaluation Laboratory II	4
Credit Hours		22
Intersession		
PAS 503	Clinical Medicine III	7
PAS 515	Counseling and Public Health	3
PAS 603	Research Seminar III	3
PAS 518	Physical Diagnosis and Patient Evaluation Laboratory III	4
Credit Hours		17
Year II		
First Semester		
PAS 671	Clinical Rotation I	3
PAS 672	Clinical Rotation II	3
PAS 673	Clinical Rotation III	3
PAS 651	Professional Skills I	3
PAS 604	Research Seminar IV	2
Credit Hours		14
Second Semester		
PAS 674	Clinical Rotation IV	3
PAS 675	Clinical Rotation V	3
PAS 676	Clinical Rotation VI	3
PAS 652	Professional Skills II	3
PAS 605	Research Seminar V	3
Credit Hours		15
Intersession		
PAS 677	Clinical Rotation VII	3
PAS 678	Clinical Rotation VIII	3
PAS 653	Professional Skills III	3
Credit Hours		9
Total Credit Hours		99

All of the above course work is required for completion of degree.

ED.D. IN EXECUTIVE LEADERSHIP

Program Director: Gina Myers

Professor: Cathy Brownell, Stephen Fleury, Wen Ma, Margaret Wells

Assistant Professor: Jonathan Damiani, Andrea L. Tochelli-Ward

Professor of Practice: Renée V. Downey, Kathy Gray-Siracusa

Adjunct Faculty: Maureen Patterson, Royce Robertson

Le Moyne’s *Ed.D. in Executive Leadership* provides leadership development for professionals in the fields of education, business and healthcare or for those seeking to enter the educational arena. Our new and innovative program offers a unique learning opportunity for professionals who, as leaders, are committed to promoting a just society and serving as men and women for and with others.

Whether leading in education, healthcare, social work, non-profit or business, the program supports the development of executive leaders responsible for the creation and enactment of an organization’s shared mission. As executive leaders, graduates of the program will formulate a vision and values as they promote a culture of caring and develop the professional capacity of all organizational members while facilitating innovative change processes that support continuous organizational growth and improvement.

Those with expertise in administration, whether it be in public or private school settings, higher education, teacher leadership as well as those responsible for organizational growth and development in healthcare, business and other entities will grow their competencies in leadership and research. Students will work collaboratively, as a community of learners with faculty members and research mentors, to enhance their leadership skills.

Graduates of this program will be transformative leaders who use a multidisciplinary approach to design and implement change that is socially responsible to solve problems and create solutions that constructively impact their institutions and organizations.

Program Vision, Goals and Outcomes. Organizational leadership, especially in education, at the executive level cannot exist in a silo and at its best should be world serving. The interconnectedness of our world supports the development of academic programs that model collaboration among diverse individuals with divergent types and levels of professional experience. Executive leaders in education, as well as those responsible for organizational growth and development, should be able to engage in collaborative problem solving with a variety of stakeholders from within their organizations as well as with parties outside the organization in both the private and public sectors. Organizations and communities are interdependent. Le Moyne College’s proposed doctoral program mirrors this interdependency and will be central to the leadership and administrative growth of candidates. The program is built to attract and support the development of leaders that will aspire to create educational cultures that model collaboration built upon foundations of social justice and that are informed by best practices in leadership and administration from multiple organizational settings, such as teacher leadership, higher education, business and health care.

True to our Jesuit mission and Jesuit tradition, graduates of this program will become transformative leaders who use a multidisciplinary approach to design and implement socially responsible change. Program goals reflect four pillars of excellence: Leadership that Transforms, Social Responsibility, Scholarship and Communication. Each pillar further specifies one or two program outcomes in the leadership development of doctoral graduates.

Pillar	Program Outcome
Leadership that Transforms	Candidates will generate new ways to demonstrate compassionate engagement in the world; a commitment to service; promotion of community spirit; and, the ability to foster and lead necessary change.
Leadership that Transforms	Candidates will expand upon their own refined moral and ethical code of conduct; and, consistent actions that promote a more just society.
Social Responsibility	Candidates will create new inclusive structures and opportunities to embrace and show respect for cultural and social differences; behavior that reflects how they structure societies; and; actions that value full inclusion.
Social Responsibility	Candidates will analyze and synthesize a personal awareness of the Jesuit tradition that encourages examination of issues of ultimate meaning; examines what it means to be the ideal of men and women for and with others; and, models the care of the whole person.
Scholarship	Candidates will evaluate and generate: a strong foundational knowledge in executive leadership content, skills and dispositions; specialized expertise in the field of education; collaboration skills within multidisciplinary learning opportunities; critical thinking; effective communication; and, the ability to make intellectual connections.
Communication	Candidates will integrate strong and effective communication skills in all modalities that permeate each of the other pillars.

Program of Study. The program, meeting year round, is based on small entering classes that will move collectively through the core, research and professional leadership courses as a community of learners. The program becomes more individualized as doctoral students reach the courses supporting development of their respective dissertations. The curriculum provides a rigorous sequence of leadership courses and experiences. The 60-credit program is comprised of the following: 15 credits of core courses, 9 credits of research, 15 credits of professional leadership, and 21 credits of dissertation seminars.

The five required **Core Courses** emphasize critical contemporary problems confronting leadership in organizations as well as cultural and socially conscious leadership that provide a foundation for understanding and exploring the deeper, complex aspects of transformational change. The three **Research Courses** build and provide solid qualitative analytic competencies along with quantitative skills to conduct informative research. And, the five **Professional Leadership Courses** emphasize comprehensive theoretical applied leadership concepts and contemporary problems in the field of education from the perspective of alternative disciplines, i.e., legal, ethical, human resource and financial.

Upon completion of all core, research and professional leadership courses, Ed.D. students must take and pass a Comprehensive Exam. Students who pass the Comprehensive Exam move forward into candidacy. Upon advancement to candidacy, each candidate begins the dissertation seminar series with scheduled deliverables during the dissertation development and research process. During the dissertation stage each student's academic work becomes more individualized. At this stage, students work more closely with their respective dissertation committee members to complete and successfully defend their dissertation, but come together for scheduled colloquia and reflective conversations in support and facilitation of their research.

The program is designed to be completed in 48 months on a part-time basis with all core, research and professional leadership courses completed at the end of 28 months. Students enrolling in the program full-time can complete program requirements in 36 months.

Admission Criteria & Requirements. Admission to the *Ed.D. in Executive Leadership* program will be based on the following:

- Submission of a complete graduate application to the graduate admission office or online at www.lemoyne.edu/apply along with a \$75 application fee. The application fee is waived for Le Moyne alumni.
- Completion of a master's degree from a higher education program that meets national accreditation standards (with a minimum G.P.A. of 3.5) * official transcripts required.
- Completion of three years in a leadership or management position.
- Submission of three letters of written recommendation by the individual's supervisor and key leaders in the candidate's profession attesting to the candidate's ability to successfully engage in doctoral level study, her or his demonstrated ability as a leader, critical thinker, problem solver, collaborator, and promoter of a just society.
- Current resumé.
- A reflective essay on goals for enhancing leadership skills and impacting the community through education.
- A personal admissions interview with the admissions committee.
- A copy of the test score or report for English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) is required of non-native English speaking applicants. A minimum test score of 79 is required on the TOEFL or a minimum test score of 6.5 on the IELTS.

Academic Good Standing, Probation and Termination. Students must remain in academic good standing throughout the program. To remain in academic good standing, students must maintain and have an overall cumulative GPA of 3.00 or above; and, students must earn a grade of B or above in all core, research, professional leadership and dissertation seminar courses. The completion of all pre-requisite courses is required before moving forward into subsequent coursework. If a student does not remain in academic good standing, then matriculated students with

a cumulative G.P.A. of less than 3.0 are immediately placed on academic probation. The student will be notified and must meet with the Program Director before continuing with further study. Until the student meets with the Program Director, a hold will be placed on his or her registration. The Program Director, in consultation with the student, will specify a time and course schedule after which the student is expected to have raised his or her cumulative G.P.A. to the required 3.0 level. If the student does not meet the requirement by the specified time schedule, he or she will not be allowed to continue with the program.

Residency. The residency requirement must be fulfilled for all Doctoral students and is designed to support a person employed full-time. The requirement is completion of at least 30 credit hours of graduate work within a consecutive 2 ½ year period. This requirement is completed in our program through the student's continuous enrollment in coursework offered in four residency weekends per fall and spring semester throughout the program. In addition, students are required to enroll and complete coursework offered in three residency weekends per summer term on the Le Moyne campus.

Time To Completion. Le Moyne College allows 6 years to complete the Ed.D. program. Normal time to completion for this program is 48 months on a part-time basis. Students who are unable to complete the Ed.D. in Executive Leadership Program within the stated time limits are dismissed. If a student believes they have extenuating circumstances they may document the circumstances and send a request for consideration to the Dean of the Purcell School of Professional Studies. Exceptions to the policy are determined on a case-by-case basis and are granted only once.

Request For An Extension Of A Deadline. If special circumstances occur that prevent a student from meeting the deadline for completing a program requirement, the student may petition for an extension. The petition must explain the special circumstances and specify the date by which the requirement will be completed. The petition must be signed by the student, the Faculty Advisor, and submitted to the Ed.D. Director, who will bring the documents to the Dean of the Purcell School of Professional Studies for final review and approval.

Leave Of Absence. For personal or medical reasons, a student may voluntarily discontinue enrollment at the College by requesting either a leave of absence (temporary) or a withdrawal from the College (permanent).

A leave of absence is a temporary hiatus from the College with the intent to return after a specified period of time. Students requesting a leave of absence must indicate when they plan to return to their studies. The total time away from the College cannot exceed two consecutive semesters. A student may not take matriculated coursework at another institution while on a leave of absence. To be eligible to return from a leave of absence, the student must demonstrate readiness to return by satisfying all requirements for return. If a student does not return from a leave of absence at the scheduled time, the student will be administratively withdrawn from the College and must apply for readmission.

A withdrawal is a permanent separation from the College. A student who has withdrawn must apply for readmission to the College if the student wishes to re-enroll. Students withdrawing from a graduate Purcell program will be contacted by a Purcell administrator for a brief exit interview.

A student may request a personal or medical leave of absence or a withdrawal by completing the Purcell Graduate Leave of Absence/ Withdrawal Form available through their department. A student

requesting a leave of absence or withdrawal will meet with a designated program official to discuss the academic and financial implications of their decision. The designated program official will also discuss the requirements for return if a student is taking a leave of absence.

If the request for a personal or medical leave of absence/withdrawal is approved for a future semester, then the student may remain enrolled in and receive grades for the current semester. The student will have a hold on future registration until the conditions of return have been met. If the request for a personal or medical leave of absence/withdrawal is approved for a current semester, then depending on the academic calendar and personal circumstance the program director or chair can determine the most appropriate resolution for the student's enrollment. The student may not take a leave of absence and remain enrolled in the students coursework if the leave of absence is for the current semester.

The College may require a student to take a medical leave of absence or withdrawal if, in the judgment of the College, the student poses an imminent threat to the lives, safety or well-being of themselves or other members of the college community (including preceptor and internship settings).

Except in unusual circumstances where safety is of immediate concern, the College will make a decision to involuntarily withdraw a student only after providing the student with advance notice and an opportunity to meet with Purcell officials.

In cases of both medical leaves of absence and withdrawals, the tuition refund policies specified in the Le Moyne College Catalog apply.

Family and Medical Leave. In order to support Ed.D. students in caring for families (e.g., childbirth, adoption, elder care, infant care, family illness), or student medical needs, the Purcell School will approve a petition to the Ed.D. Program Director for a one semester extension to normative time. For students who have been approved for a leave of absence due to family needs (e.g., childbirth, adoption, elder care, infant care, family illness), or student medical needs, the clock will stop. Extensions of the leave need to be approved by the Purcell School of Professional Studies Dean. A *Voluntary Medical Leave of Absence/Withdrawal Request Form* is available through the Registrar's Office.

Program Requirements

Ed.D. in Executive Leadership (60 credits):

Le Moyne College's Ed.D. in Executive Leadership provides a rigorous sequence of leadership courses and experiences for individuals seeking to become transformative leaders nurturing organizational growth and bringing change that is socially responsible.

Code	Title	Credit Hours
Core Courses		
EXDL 801	Critical Issues in Leadership	3
EXDL 803	Culturally Proficient Leadership	3
EXDL 808	Transformational Change	3
EXDL 812	Socially Conscious Leadership for Community Engagement	3
EXDL 814	Transformational Leadership	3
Research Courses		
EXDL 804	Research Methods I	3

EXDL 806	Research Methods II: Qualitative Research Methods	3
EXDL 807	Research Methods III: Quantitative and Statistical Research Methods	3

Professional Leadership Courses

EXDL 809	Lessons in Leadership	3
EXDL 810	Ethical Leadership	3
EXDL 811	Legal Issues for Executive Leaders	3
EXDL 813	Issues in Finance for Executive Leaders	3
EXDL 815	Leadership for Human Resource Development	3

Dissertation Requirements

EXDL 802	Doctoral Seminar for Transformative Leaders	3
EXDL 890A	Dissertation Seminar A	3
EXDL 890B	Dissertation Seminar B	3
EXDL 890C	Dissertation Seminar C	3
EXDL 890D	Dissertation Seminar D	3
EXDL 890E	Dissertation Seminar E	3
EXDL 890F	Dissertation Seminar F	3

The Ed.D. in Executive Leadership Program is designed to be completed in 48 months on a part-time basis with all core, research and professional leadership courses completed at the end of 28 months. What follows is a typical student program over a proposed 48-month period. As can be observed in the sample program of study, six credit hours of course work is scheduled each fall, spring and summer session. Core, research and professional leadership courses are scheduled to run simultaneously. The dissertation seminars are scheduled over two consecutive eight-week sessions per semester. During the dissertation stage each student's academic work becomes more individualized. At this stage, students work more closely with their respective dissertation committee members, but come together for scheduled colloquia.

Course	Title	Credit Hours
Year I		
Fall		
EXDL 801	Critical Issues in Leadership	3
EXDL 802	Doctoral Seminar for Transformative Leaders	3
Credit Hours		6
Spring		
EXDL 803	Culturally Proficient Leadership	3
EXDL 804	Research Methods I	3
Credit Hours		6
Summer		
EXDL 806	Research Methods II: Qualitative Research Methods	3
EXDL 808	Transformational Change	3
Credit Hours		6
Year II		
Fall		
EXDL 807	Research Methods III: Quantitative and Statistical Research Methods	3

EXDL 809	Lessons in Leadership	3
Credit Hours		6
Spring		
EXDL 810	Ethical Leadership	3
EXDL 811	Legal Issues for Executive Leaders	3
Credit Hours		6
Summer		
EXDL 812	Socially Conscious Leadership for Community Engagement	3
EXDL 813	Issues in Finance for Executive Leaders	3
Credit Hours		6
Year III		
Fall		
EXDL 814	Transformational Leadership	3
EXDL 815	Leadership for Human Resource Development	3
Credit Hours		6
Spring		
EXDL 890A	Dissertation Seminar a	3
Credit Hours		3
Summer		
EXDL 890B	Dissertation Seminar B	3
EXDL 890C	Dissertation Seminar C	3
Credit Hours		6
Year IV		
Fall		
EXDL 890D	Dissertation Seminar D	3
EXDL 890E	Dissertation Seminar E	3
Credit Hours		6
Spring		
EXDL 890F	Dissertation Seminar F	3
Credit Hours		3
Total Credit Hours		60

EXDL

EXDL 801. Critical Issues in Leadership. 3 Credit Hours.

This course will provide students the opportunity to examine in detail several critical issues in their respective fields both from the perspective of those who favor making changes to better handle the issue and those who oppose making the change. Issues confront us every day. Perspectives are varied; voices are persistent. There are those who want to maintain the status quo, those who want to go back to the "good old days," and those who want to make major changes in the structures that currently exist and create a new concept for the field of education and educational organizations. Controversy is the basis of change and often improvement. Controversy prompts reexamination and perhaps renewal. Each student with colleagues will study in detail as a community of learners a critical issue with the lens of leadership, share with the class the pros and cons of the issue, and will have the opportunity to express in writing and presentation their personal and professional positions on the issue. In addition to learning about the issue each studies, every student will learn from their colleagues about other critical issues facing the world today and will have the opportunity to express an opinion and provide feedback on the issue as presented by their peers.

EXDL 802. Doctoral Seminar for Transformative Leaders. 3 Credit Hours.

This course begins to establish the concepts of transformational leadership. The learnings will explore strength-based leadership and establish a community of learners to develop research interests for doctoral work and beyond. The course will integrate the concepts of leadership, professional standards, process models, and personal and professional strengths within the structures of collaboration and case studies. There will be an introduction of the Global Jesuit Case Studies Series (GJCS).

EXDL 803. Culturally Proficient Leadership. 3 Credit Hours.

This course provides an opportunity for students to incorporate diverse perspectives in leadership and management within their own settings and in the settings of their colleagues. Students will integrate major frames for analyzing a local organizational culture by defining culturally responsive leadership skills, and seeking to understand the complexities of organizational change within a culture. Students will become more culturally responsive and proficient as they analyze the literature from varied perspectives and gain enhanced knowledge, skills, and dispositions toward solving the impediments to change within students' settings.

EXDL 804. Research Methods I. 3 Credit Hours.

Dissertation research is the capstone project in the Ed.D. in Executive Leadership Program. This course introduces qualitative and quantitative research methods for empirical research. Coursework ranges from the philosophical foundation of data-driven inquiry, the steps in the research process, different research designs to professional research writing. Students who complete the course learn how to plan, conduct, and evaluate qualitative and quantitative research, thus acquiring the needed knowledge and skills for developing their dissertation research proposal.

EXDL 806. Research Methods II: Qualitative Research Methods. 3 Credit Hours.

This course is designed to engage students in paradigm, process, and products of qualitative methods in education research. Students engage in qualitative research with emphasis on such qualitative methods as ethnographic, case study, focus groups, interviewing, and document analysis. Also, students develop a philosophical, organizational, and operational approach to a qualitative dissertation research study. The course is intended to develop competent qualitative researchers who value the lived experience as means of creating knowledge. These steps will be applied to the student's dissertation, if applicable, and to better analyzing qualitative data that is embedded in their work in the field. Content and skills developed here will be incorporated into their Dissertation Seminar EXDL 890B.

EXDL 807. Research Methods III: Quantitative and Statistical Research Methods. 3 Credit Hours.

The course is designed to provide executive leaders with a hands-on approach to analyzing and completing quantitative studies. Students will learn and apply research steps including: identifying research questions and hypothesis; clarifying the study variables; determining appropriate research designs; conducting an a priori power analysis; choosing the appropriate statistic for a problems; analyzing a data set; using IBM SPSS to test null hypotheses; interpreting results; applying skills to a multi-disciplinary team project and writing results these steps will be applied to the student's dissertation, if applicable, and to better analyzing quantitative data that is embedded in their work in the field. Content and skills developed here will be incorporated into their Dissertation Seminar EXDL 890B.

EXDL 808. Transformational Change. 3 Credit Hours.

The purpose of this course is to acquaint students with central concepts of organizational and transformational change. Students are expected to read and discuss theories and paradigms related to change, to reflect on their own experiences in organization undergoing change, and to analyze an issue related to organization change. Students are expected to include multiple considerations, use/apply varying change structures, and discuss the cultural relevancy embedded in organizational and transformational change that is equitable for all stakeholders. The GJCS will be used as a basis for analyzing the change process.

EXDL 809. Lessons in Leadership. 3 Credit Hours.

This course explores the primary ideas, values and competencies required for modern day leadership. This course will challenge students to use what they have learned in readings and discussions about leadership to analyze both themselves and well known leaders. Using the case study method, students will consider how the concept of leadership is changing in our dynamic world and will write a case study on a leader. The concept of leadership has been examined and dissected since ancient times, in search of a replicable process which could be somehow infused to create great leaders. From classic theories to situational explorations, the power to lead can create a better town, a more successful company, a more equitable world.

EXDL 810. Ethical Leadership. 3 Credit Hours.

Through a multidisciplinary approach, we will examine ethical dilemmas in leadership as well as the foundations and context of moral implications of decision making within organizations and the impact upon all stakeholders. We will investigate the ethical challenges and decision criteria for ethical decision making. We will continue to design case studies that are focused on ethical issues. Ethical theories and principles used in administration and especially educational organizations will be explored. The GJCS will be used here as students highlight ethical dilemmas that leaders face. The practice of leadership is not confined to those in positions of authority but is required of every member of all professions. Leadership qualities and skills are essential requirements for expert practice in all settings. This course is designed to create opportunities to investigate the ethical and moral reasoning behind our decision making and to be informed by lessons learned in other professions. Emphasis is placed on the values of caring for the whole person and equity.

EXDL 811. Legal Issues for Executive Leaders. 3 Credit Hours.

This course will investigate the intersections of the multidisciplinary fields of education, health care, business and social work, as well as strengthening the basic knowledge of legal issues within each specific discipline. This multidisciplinary approach to legal issues allows for a broader dialogue from wider perspectives. This course is not intended to be an in-depth investigation of any one discipline, but rather their intersection and relevance to one another. Students will contribute knowledge and investigate specific issues relative to educational organizations with the outcome to develop a practical framework for comparing and contrasting the legal issues in various disciplines. The course will cover constitutional law as it applies to various disciplines. The course will cover constitutional law as it applies to various settings, labor law issues, civil rights, governance, regulatory compliance, contract law, legal issues relative to finance, among other areas. The course provides students with a working knowledge of the law regarding such issues as well as a functional ability to identify and analyze such legal issues and to ascertain the state of the law their regard.

EXDL 812. Socially Conscious Leadership for Community Engagement. 3 Credit Hours.

Leadership demands intention, commitment, and purposeful action. As a member of a global society that strives to be inclusive and sustaining, leaders in every field must consider their role in identifying and solving community challenges. Varied perspectives must be considered for understanding of a challenge to be developed, and actions to be implemented. Collaborating with other colleagues in class and a socially conscious community leader, the student will create an action research project that will be initiated in 812, and completed in 814. The expectation is for the student to develop their inner socially conscious leader and with involvement in the action research project. Working in conjunction with a community leader who embodies socially conscious leadership and provides modeling of skills, the student will develop a communication plan that speaks to the needs of the stakeholders to be involved in the project for sustainability to occur.

EXDL 813. Issues in Finance for Executive Leaders. 3 Credit Hours.

This course provides a conceptual and technical understanding of the business function in public and not-for-profit school systems, health care systems, social systems, higher education and other educational organizations. Topics include examination of the role of business managers, developing competencies in areas of budgeting, purchasing, fund accounting, state aid, property taxes, human resources, and long range fiscal planning.

EXDL 814. Transformational Leadership. 3 Credit Hours.

The concept of transformational leadership evokes definitions of worldliness and grandeur in ideas and actions. A leader who demonstrates transformational skills should have global, national, and local perspectives and experiences, and view the processes of problem-solving and decision-making through a variety of lens, including political, economic, intellectual and social. Le Moyne College has undertaken a partnership using case studies as a means of study and research, and this course will complement that partnership with a culminating activity that includes development and filming of a case study for use by other doctoral students. The focus of the case study will be on characteristics and skills of transformational leadership as defined by the literature, and as evidenced in a community project. This course will also afford the student the opportunity to complete the Action research Project from EXDL 812, and continue work with community leader. Integration of varied research topics and action research will allow collaborative groups of students to use research practices and contribute to a changing community.

EXDL 815. Leadership for Human Resource Development. 3 Credit Hours.

This course provides a conceptual and technical background in the human resources function. The course requires students to analyze the processes by which these entities can recruit, select, acculturate, develop, evaluate, compensate and retain the personnel necessary to accomplish its objectives. All categories of personnel, both professional and non-professional, will be discussed. Students will conduct research and practice problem solving and leadership skills as applied to human resources.

EXDL 890A. Dissertation Seminar a. 3 Credit Hours.

During Seminar A, candidates will be expected to integrate the inquiry and teachings based on major themes, program learning outcomes, institutional learning outcomes, professional standards and data relevant to their research interests from prior leadership and research courses with the initial steps of the dissertation process. Seminars will be held with the Dissertation Chair and the Candidate on a consistent basis in order to facilitate the completion of the dissertation steps. Dissertation steps to be completed include: Identify the Dissertation Chair; Explore initial research questions; Perform initial literature survey; Identify remaining membership of Dissertation Committee (i.e., methodologist, reader); and, Determine research question and begin literature review. Prerequisite: Admission to Candidacy.

EXDL 890B. Dissertation Seminar B. 3 Credit Hours.

During Seminar B, candidates will be expected to integrate the inquiry and teachings based on major themes, program learning outcomes, institutional learning outcomes, professional standards and data relevant to their research interests from prior leadership and research courses with the next steps of the dissertation process. The seminar will be held with the Dissertation Chair and the Candidate on a consistent basis in order to facilitate the completion of the dissertation steps. Dissertation steps to be completed include: Prepare Dissertation Proposal; Submit Dissertation Proposal to Dissertation Committee for approval; Successfully defend Dissertation Proposal; and, Obtain Institutional Review Board (IRB) approval, if required, after proposal defense.

EXDL 890C. Dissertation Seminar C. 3 Credit Hours.

During Seminar C, candidates will be expected to integrate the inquiry and teachings based on major themes, program learning outcomes, institutional learning outcomes, professional standards and data relevant to their research interests from prior leadership and research courses with the next steps of the dissertation process. The seminar will be held with the Dissertation Chair and the Candidate on a consistent basis in order to facilitate the completion of the dissertation steps. Dissertation steps to be completed include: Continue refining problem statement, literature review, and research method; and, Begin data collection and analysis.

Prerequisite: EXDL 890B.

EXDL 890D. Dissertation Seminar D. 3 Credit Hours.

During Seminar D, candidates will be expected to integrate the inquiry and teachings based on major themes, program learning outcomes, institutional learning outcomes, professional standards and data relevant to their research interests from prior leadership and research courses with the next steps of the dissertation process. The seminar will be held with the Dissertation Chair and the Candidate on a consistent basis in order to facilitate the completion of the dissertation steps. Dissertation steps to be completed include: Continue data collection and analysis; and, Prepare draft chapter summarizing results of data collection and analysis.

Prerequisite: EXDL 890C.

EXDL 890E. Dissertation Seminar E. 3 Credit Hours.

During Seminar E, candidates will be expected to integrate the inquiry and teachings based on major themes, program learning outcomes, institutional learning outcomes, professional standards and data relevant to their research interests from prior leadership and research courses with the next steps of the dissertation process. The seminar will be held with the Dissertation Chair and the Candidate on a consistent basis in order to facilitate the completion of the dissertation steps. Dissertation steps to be completed include: Finalize edits of chapters on problem statement, literature review, and research method; Finalize chapter on results summary; Prepare draft chapter summarizing conclusions and implications from the results; and, Complete Presentation and Dissertation Graphics.

Prerequisite: EXDL 890D.

EXDL 890F. Dissertation Seminar F. 3 Credit Hours.

During Seminar F, candidates will be expected to integrate the inquiry and teachings based on major themes, program learning outcomes, institutional learning outcomes, professional standards and data relevant to their research interests from prior leadership and research courses with the next steps of the dissertation process. The seminar will be held with the Dissertation Chair and the Candidate on a consistent basis in order to facilitate the completion of the dissertation steps. Dissertation steps to be completed include: Write Abstract; Complete Dissertation, obtain feedback from Dissertation Committee and finalize revisions; Submit final Dissertation to Dissertation Committee for approval to defend; and, Successfully defend Dissertation.

Prerequisite: EXDL 890E.

EXDL 891. Independent Study. 1-6 Credit Hours.

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Economics; M.S., Ph.D., Louisiana State University

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