

DATA TECHNOLOGIES MINOR

Complete the following course:

CTS 496 Data Technologies Capstone Project

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)	
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MTH 111	Introduction to Statistics I (with Computer Lab)	
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STA 201	Statistics I	
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MTH 145	Calculus I	
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Any one of the following:

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

BIO 265	Introduction to Geographic Information Systems	
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BIO 427	Bioinformatics	
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CHM 320 & CHM 322	Instrumental Methods of Analysis and Instrumental Analysis Lab	
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CSC 101	Introduction to Digital Technologies	
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CTS 101	Introduction to Digital Technologies	
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ESS 265	Introduction to Geographic Information Systems	
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MIS 201	Introduction to Management Info Systems	
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MTH 421	Numerical Methods	
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PHY 333	Computational Physics	
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Any one of the following (covering applied data analytics):

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