

DATA VISUALIZATION, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

Program Description

Combining aesthetic, statistical, analytical, and programming skills, data visualization transforms numerical patterns into visually attractive shapes, graphics, and contexts, revealing them in an easy to understand format.

What is Data Visualization?

Data Visualization is one of the fastest growing professions. Creating a well-designed and well-structured story with data helps executives and non-technical individuals understand meaning in their numbers. This type of visual storytelling creates insights for decisions makers in government, insurance, banking, health care, research, and education.

You Might Like This Program If...

- You like analyzing data and interpreting its meaning.
- You excel at visual arts and/or graphic design.
- You think about how people respond to and interact with data.
- You see data as an opportunity to tell a story.

Program Requirements

Requirement	Credits
Requirements for the Minor	22-23

Requirements for the Minor

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (<https://senate.psu.edu/students/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/>). In addition, at least six credits of the minor must be unique from the prescribed courses required by a student's major(s).

Code	Title	Credits
Prescribed Courses		
<i>Prescribed Courses: Require a grade of C or better</i>		
DIGIT 410	Data Visualization	3
Additional Courses		
<i>Additional Courses: Require a grade of C or better</i>		
COMM 406 or MIS 415	Electronic News Gathering and Editing Social Media Management and Analytics	3
GEOG 160 or GEOG 260	Mapping Our Changing World Geographic Information in a Changing World: Introduction to GIScience	3
PSYCH 200 or STAT 200	Elementary Statistics in Psychology Elementary Statistics	4
Select 3-4 credits from the following:		3-4
ART 102	Beginning Computer Aided Design for Artists	
ART 168	The Digital Medium	
COMM 270	Introduction to Multimedia Production	
DART 303	3D Studio	

GD 100	Introduction to Graphic Design	
PSYCH 246N	Human Factors in Design & Art	
Select 3 credits from the following:		3
CMPSC 101	Introduction to Programming	
CMPSC 121	Introduction to Programming Techniques	
CMPSC 201	Programming for Engineers with C++	
CMPSC 221	Object Oriented Programming with Web-Based Applications	
DIGIT 210	Large Scale Text Analysis	
HCDD 311	Object-Oriented Design and Software Applications	
IST 242	Intermediate & Object-Oriented Application Development	
IST 256	Programming for the Web	
Select 3 credits from the following:		3
COMM 310	Digital Media Metrics	
MIS 301	Business Analytics	
MIS 345	Introduction to Data Analytics	

Academic Advising

The objectives of the university's academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee's unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (<https://senate.psu.edu/students/policies-and-rules-for-undergraduate-students/32-00-advising-policy/>)

Erie

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Career Paths

The minor in Data Visualization is open to students in any Behrend major. Students with a major in a data-intensive field such as MIS, science, psychology, or business would benefit from a Data Visualization minor. Professionals in this field work in data analytics studios and corporate and government settings.

Careers

A Data Visualization minor can make you a more competitive job candidate. Employers will value your ability to analyze complex and abstract information and translate it into an easy-to-understand format.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES WITH A MINOR IN DATA VISUALIZATION (<https://>

behrend.psu.edu/academics/academic-services/career-services/resources/)

Opportunities for Graduate Studies

Adding a specialized minor like Data Visualization will demonstrate your versatility to graduate programs, and your ability to create insights from complex data will be helpful as you pursue graduate studies.

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES
(<https://behrend.psu.edu/admissions-financial-aid/graduate-programs/>)

Contact

Erie

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<https://behrend.psu.edu/school-of-humanities-social-sciences> (<https://behrend.psu.edu/school-of-humanities-social-sciences/>)