

DATA SCIENCE CERTIFICATE

Department website (<https://www.uwp.edu/learn/programs/datascience.cfm>)

College: College of Business, Economics, and Computing

The computer science department offers a certificate in data science, which combines mathematics, programming, statistics and advanced analytics, to analyze large data sources and databases for patterns and to predict trends. This empowers organizations to make intelligent decisions and plan strategically. This certificate provides background and experience for students interested in careers such as data scientist, data analyst and data and machine learning engineer.

These certificate classes are available in either synchronous online or online form. Many courses are also available in-person. Undergraduate certificates are not available to students registered in graduate programs.

Program Learning Outcomes

1. An ability to apply knowledge of computing and mathematics appropriate to the discipline.
2. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
3. An ability to design, implement, and evaluate a computer-based program to meet desired needs.
4. Analyze an IT/IS or business system using data science techniques.

Requirements for the Data Science Certificate

Code	Title	Credits
Required Courses		
CSCI 410	Introduction to Data Science	3
CSCI 411	Data Science Programming and Visualization	3
or CSCI 405	Artificial Intelligence	
CSCI 412	Data Mining and Machine Learning	3
or CSCI 415	Data Science/Machine Learning Project	
Total Credits		9

University Requirements for Undergraduate Certificates

Course work in a certificate must be completed with a minimum 2.00 GPA. Departments or programs may require a higher GPA.

A minimum of 9 credits in a certificate program must be taken at UW-Parkside. Individual departments and programs may require more than 9 credits to be taken at UW-Parkside.