

Data Analytics

Minor

21 Credit Hours

This program is offered by the George Herbert Walker School of Business and Technology/Computer and Information Sciences Department and is available at the St. Louis main campus.

For information on the general requirements for a minor, see Minor under the Academic Policies and Information section of this catalog.

Program Description

Data analytics encompasses a wide range of technologies to support analyzing business data, transforming information and generating intelligence. Technologies play important roles in data analytics systems and form the foundation of its architecture. Studies show that there is a constant demand for data analysis and information analysts who can understand database, query data, perform activities in analytical processing, statistical analysis, forecasting and data mining. The minor program is created to meet this demand, helping students understand underlying concepts and methodologies that are used in data analytics processes.

Students in the program will study concepts and principles in data analytics and the underlying building technologies. Students will experience a broad category of applications and techniques for gathering, storing, analyzing and providing access to data to help business users perform better decision making.

Courses used to fulfill a major may not be used to fulfill a requirement for a minor. Students may choose to receive the minor or certificate but not both.

Learning Outcomes

- Student will be able to demonstrate critical thinking skills in the field of data analytics.
- Student will be able to demonstrate the ability to solve problems related to the program content.
- Student will be able to analyze, design and document a system component using appropriate data analytics techniques and models.
- Student will be able to demonstrate an understanding of fundamental principles of data analytics systems and technologies.

Required Courses

- STAT 1100 Descriptive Statistics (3 hours)
- CSIS 1500 Introduction to Business Technologies (3 hours)
- CSIS 1700 Data Exploration (3 hours)
- CSIS 2500 Introduction to Data Science (3 hours)
- CSIS 3300 R Programming for Data Analytics (3 hours)
- CSIS 3410 Information Analysis (3 hours)
- CSIS 3700 Data Analytics Methods (3 hours)