



The **Bachelor of Science** in

Data Science and Analysis

Succeed in a data-rich, technologically intense, rapidly changing workplace.

Computing power and access to data has revolutionized organizations. Those that harness this data revolution will gain a competitive edge. These organizations rely on people with specialized training who are proficient at managing, analyzing and understanding trends in data. As a result, there is a growing demand for workers who are skilled in data science techniques and have the educational training to apply these techniques to real-world problems. Apply your knowledge to uncover solutions hidden in data.

The Bachelor of Science in Data Science and Analysis

The BS in Data Science and Analysis is an interdisciplinary program that is designed for students who want to develop statistical and data science skills so they will be work-ready in data science and analysis jobs across multiple career fields. While data science is at the core of this program, students will also select a specialization from one of the following emphasis areas: biology, computer science, economics, mathematics, social science or supply chain analytics.

Students will learn the latest techniques including Python, R, Big Data and Data Mining. This degree will require between 36- and 51-credit hours to complete, depending on the emphasis area selected.

Upon completion of the BS in Data Science and Analysis, graduates will be able to apply knowledge of statistical data collection, analysis and quantitative modeling techniques; demonstrate proficiency in industry-standard programming languages that support data acquisition, retrieval and analysis; select, apply and build data-based models and visualizations to devise solutions to data science problems; and effectively communicate technical results and recommendations in various formats to appropriate audiences.

Transforming Lives

The Bachelor of Science in Data Science and Analysis at UMSL are earned through our College of Arts and Sciences, the academic core of the University of Missouri–St. Louis. Through academic programs offered on- and off- campus, traditional and nontraditional students gain knowledge, skills and intellectual leadership for a variety of career paths, advanced study and research in many academic disciplines.

Graduates are known for their professionalism on the job and their strong sense of civic responsibility. Students in our programs engage in creative and critical thinking, learn to analyze evidence, to appreciate patterns of complexity and to reflect on important issues that impact our daily lives. Students gain skill sets to prepare for a changing workplace that requires flexible, dynamic and well-educated employees.

Serious education. Serious value.

The Bachelor of Science in Data Science and Analysis is designed to provide specialized knowledge, skills and training in a flexible format, with classes available in person, online and in hybrid formats. You'll learn from highly qualified educators and researchers who hold terminal degrees from some of the world's most prestigious academic institutions.

The University of Missouri–St. Louis provides the knowledge, resources, tools, skills and support students need to be successful in our programs. Our comprehensive student support services include workshops, tutoring and career services to help you develop skills and strategies to be successful in the classroom and beyond. UMSL welcomes transfer students and our transfer specialists will assist you with getting the most transfer credits possible. We're also committed to increasing access to higher education, and as such, UMSL is consistently ranked number one in affordability in the St. Louis region.

Career Opportunities

Analyst
Business Intelligence Manager
Consultant
Data Engineer
Data Scientist
Imagery Analyst
Project Manager

College of Arts & Sciences

1 University Blvd.
303 Lucas Hall
St. Louis, MO 63121
314-516-5501
artsience@umsl.edu
umsl.edu/divisions/artsience/

Office of Admissions

1 University Blvd.
351 Millennium Student Center
St. Louis, MO 63121
314-516-5451
admissions@umsl.edu
admissions.umsl.edu

Learn more at umsl.edu/interdisciplinarystudies/



The University of Missouri–St. Louis is the largest public research university located in Missouri's most populous and economically important region. UMSL provides high-quality, affordable education to one of the most diverse student bodies in the state. No university is better connected to the surrounding region than UMSL. Seventy-three percent of our graduates stay in St. Louis. The region needs a well-equipped workforce with analytical skills and UMSL is prepared to help you meet those needs. Choose the University of Missouri–St. Louis for data science.

CHOOSE UMSL