SCHOOL OF INTERDISCIPLINARY DATA SCIENCE

Bill Kalies, Director

Mission

The School of Interdisciplinary Data Science provides a hub to foster excellence in data science education, research, and innovation at the University of Toledo. The school is committed to training the next generation of data scientists across the entire spectrum of the profession in preparation for rewarding careers in today's increasingly data-driven world.

Degrees and Programs Offered

The School of Interdisciplinary Data Science offers a BS with a major in Data Science and a minor in Data Science.

- BS in Data Science (https://catalog.utoledo.edu/undergraduate/natural-sciences-mathematics/school-of-interdisciplinary-data-science/bs-data-science/)
- Minor in Data Science (https://catalog.utoledo.edu/undergraduate/natural-sciences-mathematics/school-of-interdisciplinary-data-science/minor-data-science/)

DATA 2500 Data Science I
[3 credit hours]
Introduction to data science concepts, computer programming to transform raw information into structured data, and analysis of data to answer questions using popular programming and analytic software packages.
Term Offered: Spring, Fall

DATA 4260 Data Visualization
[3 credit hours]
This course introduces students to the principles, techniques, and tools used in data visualization for effective communication and analysis of data. Students will learn how to design and create visualizations that convey insights, patterns, and trends in data. The course will cover both theoretical concepts and practical applications, equipping students with the skills needed to visualize and interpret data in a meaningful way.
Prerequisites: DATA 2500 with a minimum grade of C
Term Offered: Spring, Fall

DATA 4500 Data Science II
[3 credit hours]
Advanced data science concepts, computer programming to build sophisticated analytic databases using multiple source files, engineering and visualization of large data sets. Application of multivariate analysis using popular programming and analytic software packages to report data findings.
Prerequisites: DATA 2500 with a minimum grade of C
Term Offered: Spring, Fall

DATA 4910 Undergraduate Research in Data Science
[1-3 credit hours]
Faculty directed research. Course may be repeated for credit with program permission.
Term Offered: Spring, Summer, Fall

DATA 4940 Internship in Data Science
[1-6 credit hours]
Experiential learning course in which students apply knowledge of data science through an approved intership experience in business, industry, government, or academia. Course may be repeated for credit with program permission.
Term Offered: Spring, Summer, Fall

DATA 4980 Advanced Topics in Data Science
[1-3 credit hours]
Advanced course for Data Science majors in a specialized topic. May be repeated for credit in different specialties.
Term Offered: Spring, Summer, Fall