

Patterns, Models, and Meaning in A Data Driven World

Spring 2026

Faculty:

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In this course, you will explore how mathematical ideas help us uncover patterns, build models, and make sense of complex data in the real world. Instead of focusing on abstract formulas, we emphasize how functions serve as tools to describe change and relationships in everything from social trends to environmental systems. You'll also learn about vectors and matrices and how they provide powerful ways to organize and transform data—enabling tasks like image recognition, recommendation systems, and network analysis. In addition, we will introduce visual approaches to data, showing how thoughtfully designed graphs and models reveal hidden structures and support better decision-making. Through hands-on projects and collaborative exploration, students develop not only technical skills but also the ability to think critically about what data and how to communicate insights effectively. This course is designed to prepare learners for advanced work in data science and analytics by grounding them in the mathematics that drives modern data tools—without assuming prior expertise.

Tentative schedule

W 5:00 p.m. – 7:50 p.m.

This program meets online.