

# AI-Related Courses Fall 2025

Course Modality: In-Person

## UNLOCK THE FUTURE OF INNOVATION

Our advanced AI courses give you the skills you need!

*Selected courses are highlighted below to showcase the variety.  
Please refer to the academic catalog for a complete listing.*



### COMP 440 | Artificial Intelligence

This course in artificial intelligence explores **how agents make decisions and learn from experience using tools** from computer science, probability, and game theory. Students will **study real-world examples like self-driving cars, game-playing bots, Google Maps, and fraud detection systems.**



### MGMT 803 | AI for Business

This course introduces **how AI is applied to real-world business problems, highlighting technologies that deliver measurable value across industries.** Students will also examine the ethical, economic, and social implications of AI in business.



### COMP 566 | AI Ethics

This course **explores the social, cultural, and political dimensions of artificial intelligence, asking critical questions about its impact on human society.** Drawing on history, theory, technical reports, and even science fiction, students will **examine AI's promises and limitations** across fields such as education, healthcare, policing, and warfare.



### COMP 540 | Machine Learning

This course **introduces students to learning models from data, providing a foundation in modern algorithms for machine learning and data mining.** The course combines theory with hands-on applications in science and engineering.



### COMP 559 | Machine Learning Graphs

This course **explores traditional and modern graph-based machine learning algorithms,** from social networks to chemical data and beyond. Students will gain the ability to **apply, extend, and critically assess graph learning methods** while engaging with current research challenges in the field.



### ELEC 631 | Machine Learning Topics

This course introduces modern approaches to **solving inverse, inferential, and estimation problems by integrating deep learning with traditional iterative methods.** Students will study topics such as ill-posed inverse problems, optimization, neural networks, and learning-based regularizers, with applications ranging from medical imaging to machine learning systems.