

Convex Optimization

Last Updated: Tue, 03/17/2026

Course prefix: ECE

Course number: 6270

Section: PHD

CRN

93864

Instructor first name: Placeholder

Instructor last name: Placeholder

Semester: Fall

Academic year: 2026

Course description: This course provides an introduction to convex optimization, covering the mathematical fundamentals of convex analysis and duality theory, algorithms, and modelling of practical applications.

Academic honesty/integrity statement:

Students are expected to maintain the highest standards of academic integrity. All work submitted must be original and properly cited. Plagiarism, cheating, or any form of academic dishonesty will result in immediate consequences as outlined in the university's academic integrity policy.

Core IMPACTS statement(s) (if applicable):

This is a Core IMPACTS course that is part of the Social Sciences area.

Core IMPACTS refers to the core curriculum, which provides students with essential knowledge in foundational academic areas. This course will help master course content, and support students' broad academic and career goals.

This course should direct students toward a broad Orienting Question:

- How do I understand human experiences and connections?

Completion of this course should enable students to meet the following Learning Outcome:

- Students will effectively analyze the complexity of human behavior, and how historical, economic, political, social or geographic relationships develop, persist or change.

Course content, activities and exercises in this course should help students develop the following Career-Ready Competencies:

- Intercultural Competence
- Perspective-Taking
- Persuasion