

SPRING QUARTER 2026

CEE 298, Sem 3: Human-Centered Autonomy for Mobility Systems

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Lecture: Monday and Wednesday, 2:00 – 3:50pm
Location: 7608 Math Science
Class ID: 547940201

Course Description:

This course examines how autonomous mobility systems - such as autonomous vehicles and delivery robots - can operate safely and effectively around people (e.g. human drivers, pedestrians, cyclists, and other road users) and serve human users in urban environments. The course introduces core methods from machine learning, AI, robotics, and control, and connects them to real-world challenges in urban mobility applications. Topics covered include human behavior modeling and prediction, interaction-aware motion planning and control, human-in-the-loop learning and shared autonomy, with applications in autonomous driving and social robot navigation. The course combines lectures, guest lectures, and a practical project, covering both foundational techniques and recent research advances.