



Spring 2019 CMPE 189 – 02: Special Topics in Mobile Robots

Day/Time: Tuesday & Thursday 1:30pm – 2:45pm

Credits: 3

Instructor: Dr. Wencen Wu



Description: This course is about the basic concepts and algorithms for mobile robots that act autonomously in complex environments. Several types of mobile robots such as wheeled robots, legged robots, and drones will be introduced. Students will be able to

- understand the current status and development of mobile robots
- master the mainstream algorithms used for perception, localization, path planning, and control for mobile robots
- learn the world's most popular Robot Operating System (ROS)
- design and implement corresponding algorithms on a [Turtlebot](http://www.turtlebot.org).

