



## CS 499: Introduction to Intelligent Decision Making

How do self-driving cars decide which route to take or when to change lanes? How does Deepmind's Alpha-Go achieve human-level performance? How to place ads to maximize revenue for sponsors? How does the food delivery robot on campus decide the fastest route to bring you food?

In this course, students will be introduced to key concepts in **intelligent decision making**, a core capability of AI systems that allows them to complete a task or solve decision problems, without requiring human assistance. Students will also gain experience solving these problems using popular solution methods. Topics: agent representation, Markov decision process, value iteration, policy iteration, TD-learning, and policy gradient approaches.

*\*\* This course credits count towards your CS undergrad degree requirement! Check with your advisor.*

### Course Logistics

Instructor: Sandhya Saisubramanian (sandhya.sai@oregonstate.edu)

Meeting info: TR 2pm-3:50pm in Joyce Collin Furman Hall 101

Prerequisite: CS 325, familiarity with a programming language

Credits: 4

More info: <https://tinyurl.com/4vckby7c>