

EECS 498-006 (4 credits)

& EECS 598-006 (3 credits)

Instructor: Satinder Singh Baveja (Professor, Computer Science & Engineering)

This course will be a **fast-paced** programming-based introduction to both the fundamentals of Reinforcement Learning (RL) as well as some of the recent advanced and exciting ideas at the intersection of Deep Learning and RL (or DeepRL).

For the fundamentals, we will use the following textbook (the book is still being written but a draft is available online).

Reinforcement Learning: An Introduction (Second Edition, In Progress)

By Richard Sutton & Andrew Barto

For the advanced material, we will use mostly recently published papers published in major conferences and journals.

The programming assignments for this class will require Python. Undergraduate level Linear Algebra will be assumed in this class.

Undergraduate students should register for 498-006. In addition to homeworks and exams, this will require a semester long project with regular contact with a GSI.

Graduate students should register for 598-006.