Winter 2021 Course List

Updated December 16, 2020

Robotics Core

**ROB 550**: Robotics Systems Laboratory (Gaskell)

Sensing

AEROSP 740: Visual Navigation for Autonomous Aerial Vehicles (Tzoumas)

**BIOMEDE 517**: Neural Engineering (Chestek)

**EECS 442**: Computer Vision (Fouhey)

*Enrollment is primarily reserved for undergraduate students. Grad enrollment with instructor consent*

**ROB 530/NAVARCH 568/EECS 568**: Mobile Robotics (Ghaffari)

Acting

AEROSP 740: Visual Navigation for Autonomous Aerial Vehicles (Tzoumas)

**EECS 461**: Embedded Control Systems (Cook)

**EECS 560/MECHENG 564 / AEROSP 550**: Linear Systems Theory (Ozay)

**EECS 561/MECHENG 561**: Design of Digital Control Systems (Vasudevan)

**EECS 562/AEROSP 551**: Nonlinear Systems & Control (Meerkov)

**EECS 565**: Linear Feedback Control (Seiler)

EECS 598: Motion Planning (Berenson)

MECHENG 542: Vehicle Dynamics (Orosz)

MECHENG 599/CEE 501/ISD 599: Dynamics and Control of Connected Vehicles (Orosz)
MECHENG 646 (will also be crosslisted with ROB 646): Mechanics of Human Movement (Rouse)

ROB 510: Robot Kinematics and Dynamics (Gregg)

**ROB 599**: Bioinspiration (Moore)

**Reasoning**

AEROSP 552: Aerospace Information Systems (Jeannin)

EECS 486: Information Retrieval & Web Search (Mihalcea)

EECS 545: Machine Learning (Lee)

EECS 559: Optimization for Signal Processing and Machine Learning (Qu)

EECS 592: Foundations of Artificial Intelligence (Durfee)

EECS 598: Motion Planning (Berenson)

**EECS 692**: Advanced Artificial Intelligence (Laird)

IOE 511: Continuous Optimization Methods (Berahas)

IOE 691: Approximation Algorithms (Nagarajan)

**Electives**

AEROSP 585: Aerospace Seminar (Waas)

EECS 492: Intro to AI (Chai - undergrad course)

EECS 460: Control Systems Analysis and Design (Meerkov)

EECS 467: Autonomous Robotics (Jenkins)

EECS 501: Probability & Random Processes (Sadanandarao)

EECS 586: Design & Analysis of Algorithms (Lee)

NAVARCH 599: Marine Robotics (Skinner)

PSYCH 614: Advanced Statistical Methods (Beltz)
SPACE 565: Planetary Science (Atreya)

ROB 599/EECS 598: Ethics for AI and Robotics (Kuipers)