Fall 2018 Course List
Updated June 18, 2018

Robotics Core:

● ROB 501: Math for Robotics (Grizzle)
● ROB 550: Robotics Systems Lab (Revzen & Gaskell)

Sensing:

● EECS 442: Computer Vision (Corso)
● EECS 542: Advanced Topics in Computer Vision (Deng)
● EECS 551: Matrix Methods for Signal Processing (Fessler)
● ROB 535 / MECHENG 599/ NAVARCH 565/ EECS 498: Self Driving Cars: Perception and Control (Johnson-Roberson & Vasudevan)

Reasoning:

● AEROSP 584: Navigation & Guidance of Aerospace Vehicles (Panagou)
● AEROSP 740: Applied Nonlinear Control (Girard)
● EECS 545: Machine Learning (Clayton)
● EECS 550: Information Theory (Pradhan)
● EECS 563: Hybrid Systems: Specification, Verification, and Control (Ozay)
● EECS 592: Foundations of Artificial Intelligence (Laird)
● EECS 595: Natural Language Processing (Mihalcea)
● IOE 536: Cognitive Ergonomics (Sarter)
● IOE 611: Nonlinear Programming (Epelman)
Acting:

- AEROSP 540 / MECHENG 540: Intermediate Dynamics (Orosz)
- EECS 461: Embedded Systems Control (Freudenberg)
- EECS 567 / MECHENG 567: Robot Kinematics and Dynamics (EECS 398 for Undergrad ONLY) (Jenkins)
- EECS 563: Hybrid Systems: Specification, Verification, and Control (Ozay)
- MECHENG 41: Automatic Control (Rouse)
- ROB 535/ MECHENG 599/ NAVARCH 565/ EECS 498: Self Driving Cars: Perception and Control (Johnson-Roberson & Vasudevan)

Elective:

- EECS 492: Intro to AI (undergrad course) (Durfee)
- EECS 498: Intro to Algorithmic Robotics (Berenson)
- EECS 501: Probability & Random Processes (Sadanandarao/Teneketzis)
- EECS 560 / MECHENG 564 / AEROSP 550: Linear Systems Theory (Gillespie)
- ME 552: Mechatronic Systems Design (Awtar)
- KIN 431: Clinical Gait Analysis (Gates)
- ISD 599F: Vehicle Crashworthiness & Occupant Protection (Hu)