Fall 2019 Course List
Updated April 5, 2019

Robotics Core:

- ROB 501: Math for Robotics (TBD)
- ROB 550: Robotics Systems Lab (Revzen & Gaskell)

Sensing:

- EECS 442: Computer Vision (TBD)
- EECS 542: Advanced Topics in Computer Vision (TBD)
- 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)
- EECS 545: Machine Learning (Clayton)
- EECS 550: Information Theory (Pradhan)
- EECS 592: Foundations of Artificial Intelligence (Durfee)
- EECS 598: Computational Modeling in Human-Computer Interaction (Banovic)
- IOE 536: Cognitive Ergonomics (Sarter)
- IOE 611: Nonlinear Programming (Epelman)

Acting:

- AEROSP 540 / MECHENG 540: Intermediate Dynamics (Bernstein)
• EECS 461: Embedded Systems Control (Freudenberg)
• EECS 560/MECHENG 564/AEROSP 550: Linear Systems Theory (Gillespie)
• MECHENG 461: Automatic Control (Rouse)
• ROB 510/EECS 567/MECHENG 567: Robot Kinematics and Dynamics (EECS 398 for Undergrad ONLY) (Jenkins)
• ROB 535/MECHENG 599/NAVARCH 565/EECS 498: Self Driving Cars: Perception and Control (Johnson-Roberson & Vasudevan)

Elective:

• EECS 402: Programming for Scientists and Engineers (Morgan)
• EECS 501: Probability & Random Processes (Pradhan)
• ISD 599F: Vehicle Crashworthiness and Occupant Protection (Hu)
• ME 552: Mechatronic Systems Design (Awtar)