

Dynamics, Systems, and Control (DSC) Four Year Graduate Course Projection

Latest Revision 1/30/2017



Nagaraj K. Arakere

| Course No. | Course Title | M | 2015 | | | 2016 | | | 2017 | | | 2018 | | |
|---|--|---|------|----|---|------|----|---|------|----|---|------|----|---|
| | | | S | SS | F | S | SS | F | S | SS | F | S | SS | F |
| Core Courses – Offered on EDGE | | | | | | | | | | | | | | |
| EML 5215 | Analytical Dynamics | 2 | ◆ | | ◆ | | | ◆ | | | ◆ | | | ◆ |
| EML 5311 | Control Theory | 2 | ◆ | | | ◆ | | | ◆ | | | ◆ | | |
| EML 6281 | Robot Geometry 1 | 2 | | | ◆ | | | ◆ | | | ◆ | | | ◆ |
| Elective Courses | | | | | | | | | | | | | | |
| EML 6365 | Robust Control Synthesis | 4 | | | | | | | | | | | ◆ | |
| EML 6350 | Nonlinear Control | 4 | | | ◆ | | | | | ◆ | | | | |
| EML 5318 | Computer Control of Machines and Processes | 4 | | | | | | • | | | | | | • |
| EML 6351 | Adaptive Control | 4 | | | | ◆ | | | | | | ◆ | | |
| EML 6934 | Optimal Control | 4 | | | | | | | | | • | | | |
| EML 6352 | Optimal Est & Kalman Filtering | 4 | ◆ | | | | | ◆ | | | | | | |
| EML 6229 | Intro to Random Dyn Systems | 4 | | | | ◆ | | | | | | | | |
| EML 6282 | Robot Geometry 2 | 2 | • | | | • | | | • | | | • | | |
| EML 5595 | Human Locomotion | 4 | | | | • | | | | | | • | | |
| EML 5598 | Orthopaedic Biomechanics | 4 | | | • | | | | | | • | | | |
| EAS 6939 | Advanced Astrodynamics | 4 | | | | | | • | | | | | | • |
| EAS 6415 | Guid & Control of Aero Vehicles (JC, NF) | 4 | • | | | | | | • | | | | | |
| EAS 6xxx | Spacecraft Attitude Est & Control (RB) | 4 | | | | • | | | | | | • | | |
| EAS 6yyy | Spacecraft Attitude Dynamics | 4 | | | • | | | | | | • | | | |
| Totals | | | 5 | | 5 | 6 | | 5 | 3 | | 6 | 6 | | 4 |
| Irregular Elective Courses (from REEF) | | | | | | | | | | | | | | |
| EML 6934 | Robust Ctrl of Aero Sys (B. Dickinson) | | | ◆ | | | | ◆ | | | ◆ | | | |
| EML 6352 | Estimation Related | | ◆ | | | | | | | | | | | |
| EML 6934 | Structural Dynamics | | | | | | ◆ | | | ◆ | | | | |
| EAS 6939 | Aeroelasticity | | | | | | | | ◆ | | | | | |

M-Denotes number of semesters between course offerings.

◆-Denotes course also offered on EDGE.

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| Course No. | Course Title | M | 2019 | | | 2020 | | | 2021 | | | 2022 | | |
|---|--|---|---|----|---|------|----|---|------|----|---|------|----|---|
| | | | S | SS | F | S | SS | F | S | SS | F | S | SS | F |
| Core Courses – Offered on EDGE | | | | | | | | | | | | | | |
| EML 5215 | Analytical Dynamics | 2 | | | ◆ | | | ◆ | | | ◆ | | | ◆ |
| EML 5311 | Control Theory | 2 | ◆ | | | ◆ | | | ◆ | | | ◆ | | |
| EML 6281 | Robot Geometry 1 | 2 | | | ◆ | | | ◆ | | | ◆ | | | ◆ |
| Elective Courses | | | | | | | | | | | | | | |
| EML 6365 | Robust Control Synthesis | 4 | | | | ◆ | | | | | | ◆ | | |
| EML 6350 | Nonlinear Control | 4 | | | ◆ | | | | | ◆ | | | | |
| EML 5318 | Computer Control of Machines and Processes | 4 | | | | | | • | | | | | | • |
| EML 6351 | Adaptive Control | 4 | | | | ◆ | | | | | | ◆ | | |
| EML 6934 | Optimal Control | 4 |  | | • | | | | | | • | | | |
| EML 6352 | Optimal Est & Kalman Filtering | 4 |  | | | | | | ◆ | | | | | |
| EML 6229 | Intro to Random Dyn Systems | 4 | | | | | | | | | | | | |
| EML 6282 | Robot Geometry 2 | 2 | • | | | • | | | • | | | • | | |
| EML 5595 | Human Locomotion | 4 | | | | • | | | | | | • | | |
| EML 5598 | Orthopaedic Biomechanics | 4 | | | • | | | | | | • | | | |
| EAS 6939 | Advanced Astrodynamics | 4 | | | | | | • | | | | | | • |
| EAS 6415 | Guid & Control of Aero Vehicles (JC, NF) | 4 | • | | | | | | • | | | | | |
| EAS 6xxx | Spacecraft Attitude Est & Control (RB) | 4 | | | | • | | | | | | • | | |
| EAS 6yyy | Spacecraft Attitude Dynamics | 4 | | | • | | | | | | • | | | |
| | Totals | | 4 | | 6 | 6 | | 4 | 4 | | 6 | 6 | | 4 |
| Irregular Elective Courses (from REEF) | | | | | | | | | | | | | | |
| EML 6934 | Robust Ctrl of Aero Systems | | | ◆ | | | | | | | | | | |
| EML 6352 | Estimation Related | | ◆ | | | | | | | | | | | |

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