

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
<b>Core Courses – Offered on EDGE</b>														
EML 5215	Analytical Dynamics	2	◆		◆			◆			◆			◆
EML 5311	Control Theory	2	◆			◆			◆			◆		
EML 6281	Robot Geometry 1	2			◆			◆			◆			◆
<b>Elective Courses</b>														
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			•						•			
<b>Totals</b>			5		5	6		5	3		6	6		4
<b>Irregular Elective Courses (from REEF)</b>														
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
	<b>Core Courses – Offered on EDGE</b>													
EML 5215	Analytical Dynamics	2			◆			◆			◆			◆
EML 5311	Control Theory	2	◆			◆			◆			◆		
EML 6281	Robot Geometry 1	2			◆			◆			◆			◆
	<b>Elective Courses</b>													
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			•						•			
	<b>Totals</b>		4		6	6		4	4		6	6		4
	<b>Irregular Elective Courses (from REEF)</b>													
EML 6934	Robust Ctrl of Aero Systems			◆										
EML 6352	Estimation Related		◆											

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