Curriculum

Classification		Subject No.	Subject Name	Lecture:Lab: Credit (Homework)	Semester	Remark
	required	CC020	Ethics and Safety I	1AU	Spring, Fall	
Mandatory General Course		CC500	Scientific Writing	3:0:3(4)	Spring, Fall	
	choose one course	CC510	Introduction to Computer Application	2:3:3(10)	Spring, Fall	
		CC511	Probability and Statistics	2:3:3(6)	Spring, Fall	
		CC512	Introduction to Materials Science and Engineering	3:0:3(3)	Spring, Fall	
		CC513	Engineering Economy and Cost Analysis	3:0:3(6)	Spring or Fall	
		CC522	Introduction to Instruments	2:3:3(8)	Fall	
		CC530	Entrepreneurship and Business Strategies	3:0:3(6)	Spring or Fall	
Mandatory Major Course		SPE510	Space Mission and Orbit Analysis	3:0:3(6)	Spring	
		SPE520	Introduction to Spacecraft Engineering	3:0:3(6)	Fall	
	Division of Aerospace Engineering Division of Mechanical Engineering	MAE463	Global Positioning System	3:0:3(6)	Spring	**
		MAE466	Satellite Systems	3:0:3(6)	Spring	**
		MAE518	Rocket System Engineering	3:0:3(6)	Fall	**
		MAE540	Structural Dynamics	3:0:3(6)	Fall	**
		MAE542	Mechanics of Composite Materials	3:0:3(6)	Fall	**
		MAE595	Introduction to Optimal Control	3:0:3(6)	Spring	**
		MAE597	Spacecraft Dynamics	3:0:3(6)	Spring	**
		MAE664	Navigation and Guidance	3:0:3(6)	Spring	
		MAE728 MAE430	Reentry Aerothermodynamics Introduction to Reliability in	3:0:3(6) 3:0:3(6)	Fall Fall	**
		MAE500	Mechanical Engineering Design Mathematical Methods in Mechanical	3:0:3(6)	Spring	**
			Engineering	, ,		
		MAE502	Introduction to Finite Element Method	3:0:3(6)	Spring	**
		MAE505	Sensor and Instrumentation Engineering	3:1:3(6)	Fall	**
Elective		MAE550	Advanced Dynamics	3:0:3(6)	Fall	**
Course		MAE551	Vibration in Linear Systems	3:0:3(6)	Spring	**
		MAE561	Linear System Control	3:0:3(6)	Spring	**
		MAE563	Microprocessor Application	2:3:3(6)	Fall	**
	Department of Electrical Engineering	EE421	Wireless Communication Systems	3:0:3(6)	Spring	**
		EE432	Digital Signal Processing	3:0:3(6)	Spring, Fall	**
		EE535	Digital Image Processing	3:0:3(6)	Spring	**
		EE542	Microwave Engineering	3:1:3(6)	Fall	**
		EE567	Photovoltaic Power Generation	3:0:3(6)	Spring	**
		EE571	Advanced Electronic Circuits	3:0:3(6)	Spring	**
		EE581	Linear Systems	3:0:3(6)	Spring	**
		EE594	Power Electronics Systems	3:0:3(6)	Fall	**
		EE681	Nonlinear Control	3:0:3(6)	Fall	

Classification		Subject No.	Subject Name	Lecture:Lab: Credit (Homework)	Semester	Remark
	Department of Physics	PH441	Introduction to Plasma Physics	3:0:3(4.5)	Fall	**
		PH481	Astrophysics	3:0:3(4.5)	Fall	**
		PH622	Geometrical Optics	3:0:3(4.5)	Spring or Fall	
	Department of	IE425	Project Management	3:1:3(4)	Spring	**
	Industrial & Systems Engineering	IE632	Stochastic Modeling I	3:1:3(5)	Fall	
	Department of Computer Science	CS453	Formal software verification techniques	3:0:3(6)	Fall	**
		CS530	Operating System	3:0:3(6)	Spring or Fall	**
		CS552	Models of Software Systems	3:3:3(10)	Fall	**
		CS554	Designs for Software and Systems	2:3:3(4)	Fall	**
		CS632	Embedded Operating Systems	3:0:3(6)	Fall	
Research		MAE965	Individual Research(master's)	-	Spring,Fall	for the coursework master's degree program
		MAE966	seminar(master)	1:0:1	Spring,Fall	

^{*} Note: ** stands for courses open to both undergraduate and graduate students