

**Fall 2017 Tech Electives: Updated 3/3/2017**

<b>Catalog #</b>	<b>Title</b>	<b>Pre-Requisites</b>	<b>Instructor</b>	<b>Schedule</b>	
AE 5169	Intro to Hypersonic Flow	AE 3171	Hosder	TTh 11:00-12:15	D
AE 5361	Flight Dynamics-Stability & Control	AE 3361	DeMars	TTh 12:30 - 1:45	
AE 6001	Methods of Orbit Determination	AE 5614	DeMars	TTh 3:30-4:45	
ME 3653A	Manufacturing	ME 2653, CE 2211, & "C" or better in CE 2210	Okafor	MWF 1:00 - 1:50	
ME 3653B	Manufacturing	ME 2653, CE 2211, & "C" or better in CE 2210	Chen	TTh 2:00-3:15	
ME/AE 5131	Intermediate ThermoFluid Mechanics	ME or AE 3131	Homan	MWF 3:00-3:50	D
ME/AE 5139	Computational Fluid Mechanics	Cmp Sci, one course in fluid mechanics	Isaac	MWF 1:00 - 1:50	D
ME/AE 5212	Introduction to Finite Element Analysis	ME 3708 or AE 4253	Chandrashekhara	TTh 11:00 - 12:15	D
ME/AE 5238	Fatigue Analysis	CE 2210	Dharani	TTh 2:00-3:15	D
ME/AE 5307	Vibrations I	ME 3411 & ME 3313, or AE 3613; Math 3304	Stutts	TTh 2:00-3:15	
ME/AE 5449	Robotic Manipulators and Mechanisms	Cmp Sci, ME 3313	Bristow	MWF 8:00-8:50	D
ME/AE 5481	Mech & Aero Control Systems	ME 4479 or AE 3361	Balakrishnan	MWF 9:00-9:50	D
ME/AE 5525	Intermediate Heat Transfer	ME 3525	Crosbie	MWF 11:00 - 11:50	
ME/AE 5527	Combustion Processes	ME 3521	Koylu	TTh 9:30-10:45	D
ME 5571	Environmental Control	ME 3521 & acc./prec by ME 3525	Williams	M 7:00-9:30 PM	D
ME 5653	CNC of Manufacturing Processes	Acc./prec by Mech Eng 3653	Okafor	MW 11:00-11:50 lec	
ME 5708	Rapid Product Design & Optimization	ME 3708	Liou	TTh 9:30-10:45	D
ME 5709	Machine Design II	ME 3708	Nisbett	TTh 2:00-3:15	
ME/AE 5715	Concurrent Engineering I	ME 3313 or AE 3131, CE 2210	Appelman	Th 7:00 - 9:30 PM	D
ME 5763	Principles & Practice of CAD	Cmp Sci, ME 2761, Math 2222, Jr Standing	Leu	MW 11:00 - 11:50: MW 1:00 - 2:50	D
ME/AE 6001	Adv Computational Thermofluid Mechanics	AE/ME 5131, AE/ME 5139	Homan	?	
ME/AE 6001	Electric Space Propulsion	AE/ME 5131 or AE/ME 5535 or AE/ME 5570 or AE/ME 6137	Rovey	?	
ME 6236	Adv Fracture Mechanics	AE/ME 5236	Dharani	TTh 11:00-12:15	D
ME/AE 6284	Analysis of Laminated Composite Structures	AE/ME 5282	Birman	W 4:00-6:30 PM	D
ME/AE 6481	Adv Decision and Control		Balakrishnan	MWF 11:00 - 11:50	D
ME 6526	Micro/Nano Scale Thermophysics...	ME 5525	Gao	TTh 2:00-3:15	
ME 6585	Adv Optical Materials & Structures	EE 5200 or instructor consent	Yang	TTh 11:00-12:15	
ME 6657	Laser Aided Manuf & Matls Proc	ME 5525	Tsai	TTh 9:30-10:45	
ME 6704	Mechanics of Machinery	ME 5704	Midha	MWF 12:00-12:50	D