

Spring 2017 Tech Electives: Updated 9/30/2016

Catalog #	Title	Pre-Requisites	Instructor	Schedule	
AE 5535	Aerospace Propulsion Systems	AE 4535	Riggins	MWF 2:00-2:50 PM	
AE 6614	Advanced Astrodynamics	AE 5614	Pernicka	TTh 12:30-1:45 PM	
ME 3653A	Manufacturing	ME 2653, CE 2211, & "C" or better in CE 2210	Okafor	MWF 1:00-1:50 PM	
ME 3653B	Manufacturing	ME 2653, CE 2211, & "C" or better in CE 2210	Chen	TTh 9:30-10:45 AM	
ME 5001*	Modeling of Energy Materials	CE 2210 & ME 2519	Park	TTh 9:30-10:45 AM	
ME 5001(5544)	Non-Intrusive Measurements	Physics 2135 & ME 3525	Kinzel	TTh 9:30-10:45	
ME 5001*	Energy Efficiency of Vehicles	Math 2222 & Phys 2135	Carroll	?	D
ME/AE 5001	Microfluidics	Math 2222, Phys 2135, & AE/ME 3131	Wang	TTh 2:00-3:15	
ME/AE 5234	Stability of Engineering Structures	CE2210, Math 3304, & ME/AE 2360	Birman	T 4:00-6:30	D
ME/AE 5236	Fracture Mechanics	CE 2210	Dharani	TTh 12:30-1:45	D
ME/AE 5282	Intro to Composite Materials & Structures	CE 2210	Chandrashekhara	TTh 9:30-10:45	D
ME 5478	Mechatronics	ME 4479 or equivalent	Krishnamurthy	MWF 8:00-8:50	
ME/AE 5519	Advanced Thermodynamics	ME 2519	Pan	TTh 11:00-12:15	
ME 5533	Internal Combustion Engines	ME 3521	Drallmeier	TTh 8:00-9:15	
ME 5537	Fuel Cell Principles	ME 3521	Koylu	TTh 11:00-12:15	
ME 5566	Solar Energy Technology	ME 3525	Homan	MWF 3:00-3:50	D
ME 5571	Environmental Controls	ME 3521 & acc./prec by ME 3525	Gillis, Arch Eng		
ME 5575	Mech. Syst. for Environmental Control	ME 3521 & ME 3525	Williams	T 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 5656	Design for Manufacture	ME 3708 & ME 3653	Appelman	Th 7:00-9:30 PM	D
ME 5704	Compliant Mechanisms Design	ME 3313 & CE 2210	Midha	MWF 10:00-10:50	D
ME 5757	Integrated Product and Process Design	Junior or above standing	Grantham(Emgt)	M 4:00-5:15	D
ME/AE 5760	Probabilistic Engineering Design	ME 3708 or AE 3361	Du	TTh 11:00-12:15	
ME/AE 5830	Applied Computational Methods	Cmp Sci 1570/1970/1981 & Math 3304	Hosder	TTh 11:00-12:15	D
ME/AE 6001	Iterative Learning & Repetitive Process Control	ME/AE 5481	Bristow	MWF 8:00-8:50	D
ME/AE 6123	Viscous Fluid Flow	ME/AE 5131 or ME/AE 5139	Isaac	MWF 11:00-11:50	D
ME/AE 6137	Physical Gas Dynamics	ME/AE 5131	Rovey	TTh 9:30-10:45	D
ME/AE 6212	Advanced Finite Element Analysis	ME/AE 5212	Chandrashekhara	TTh 11:00-12:15	D
ME/AE 6222	Applied Linear Elasticity	CE 2210	Dharani	TTh 9:30-10:45	D
ME/AE 6307	Advanced Vibrations	ME/AE 5307	Stutts	MWF 1:00-1:50	
ME/AE 6458	Adaptive Dynamic Programming	EE 5370 or Cmp Eng 5310	Wunsch (EE)	T 7:00-9:30 pm	D
ME/AE 6527	Heat Transfer by Convection	ME/AE 5525	Homan	MWF 9:00-9:50	D
ME 6657	Laser Aided Manufacturing	ME 5525	Tsai	TTh 9:30-10:45	
ME 6659	Advanced Topics in Design & Manuf	ME 5655 or ME 5708	Liou	TTh 2:00-3:15	D
ME 6663	Adv Digital Design & Manufacturing	ME 5708 or ME 5757 or ME 5763	Leu	TTh 9:30-10:45	D

*Approval in process