

Tentative Spring 2019 Technical Electives: Updated 10/5/2018

Catalog #	Title	Pre-Requisites	Instructor	Schedule	
AE 5353	Aeroelasticity	AE 3251 & AE 3171	Pitt	Th 4:00-6:30pm	D
AE 5535	Aerospace Propulsion Systems	AE 4535	Riggins	MWF 9:00-9:50	
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 9:30-10:45	
ME 5001	Energy Efficiency of Vehicles	Math 2222 & Phys 2135	Carroll	MWF 10:00-10:50	D
ME 5001	Modeling of Energy Materials	CE 2210 & ME 2519	Park	TTh 9:30-10:45	
ME/AE 5234	Stability of Engineering Structures	CE 2210, Math 3304, & ME/AE 2360	Birman	W 4:00-6:30 pm	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 10:00-10:50	
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	D
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 3708 & ME 3653	Midha	MWF 10:00-10:50	D
ME 5757	Integrated Product and Process Design	Junior or above standing	(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 1570/1970/1972/1981 & Math 3304	Hosder	TTh 11:00-12:15	D
AE 6614	Advanced Astrodynamics	AE 5614	Pernicka	TTh 12:30-1:45	
ME 6001	Fundamentals of Metal Additive Manufacturing Processes	ME 5519 & ME 5525	Chen	TTh 12:30-1:45	
ME/AE 6123	Viscous Fluid Flow	ME/AE 5131 or ME/AE 5139	Isaac	TTh 2:00-3:15	D
ME/AE 6212	Advanced Finite Element Analysis	ME/AE 5212	Chandrashekhara	TTh 11:00-12:15	D
ME 6236	Adv Fracture Mechanics	ME/AE 5236	Dharani	TTh (<i>time TBD</i>)	D
ME/AE 6307	Advanced Vibrations	ME/AE 5307	Stutts	MWF 1:00-1:50	
ME 6458	Adaptive Dynamic Programming	EE 5370 or Cmp E 5310	Wunsch (EE)	T 7:00-9:30 pm	D
ME/AE 6481	Advanced Topics in Decision and Control	ME/AE 5481	Balakrishnan	TTh 9:30-10:45	D
ME/AE 6527	Heat Transfer by Convection	ME/AE 5525	Homan	MWF 9:00-9:50	D
ME 6659	Advanced Topics in Design & Manuf	ME 5655 or ME 5708	Liou	TTh 2:00-3:15	D