

TENTATIVE Spring 2018 MAE Technical Electives

Catalog #	Title	Prerequisites	Instructor	Time
AE 5353	Aeroelasticity	AE 3251, AE 3171	Dale Pitt	M 4:00-6:30pm
AE 5535	Aerospace Propulsion Systems	AE 4535	Riggins	MWF 9:00-9:50
AE 5614	Spaceflight Mechanics	AE 3613	Pernicka	TTh 12:30-1:45
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 9:30-10:45
ME 5001	Energy Efficiency of Vehicles	Phys 2135, Math 2222	Carroll	MWF 10:00-10:50
ME 5001	Modeling of Energy Materials	CE 2210 or ME 2519 or grad standing	Park	TTh 9:30-10:45
ME 5001/AE 5001	Intro to Microfluidics	Math 2222, Phys 2135 and one of the following: ME 3131, AE 3131, ChE 3100, EE 3600, CE 3330, CerE 3410	Wang	TTh 2:00-3:15
ME 5211	Intro to Continuum Mechanics	CE 2210, Math 3304	Wojnar	TTh 3:30-4:45
ME 5236/AE 5236	Fracture Mechanics	CE 2210	Dharani	TTh 12:30-1:45
ME 5282/AE 5282	Intro to Composite Materials & Structures	CE 2210	Chandrashekhara	TTh 9:30-10:45
ME 5519/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 5544	Non-Intrusive Measurements	Phys 2135, ME 3525	Kinzel	TTh 9:30-10:45
ME 5575	Mech. Syst. for Environmental Control	ME 3521, ME 3525 or ME 2527, CE 3330	Williams	T 7:00-9:30 pm
ME 5653	CNC of Manufacturing Processes	Preceded or accompanied by ME 3653	Okafor	MW 11:00-11:50 (lec)
ME 5656	Design for Manufacture	ME 3708, ME 3653	Appelman	Th 7:00-9:30 PM
ME 5704	Compliant Mechanisms Design	ME 3313, CE 2210	Midha	MWF 10:00-10:50
ME 5757	Integrated Product and Process Design	Jr. Standing or above	Grantham(Emgt)	M 4:00-5:15
ME 5760/AE 5760	Probabilistic Engineering Design	ME 3708 or AE 3361	Du	TTh 11:00-12:15
ME 5830/AE 5830	Applied Computational Methods	CS 1570 or 1970 or 1971, Math 3304	Hosder	TTh 11:00-12:15
ME 6123/AE 6123	Viscous Fluid Flow	ME/AE 5131 or ME/AE 5139	Isaac	MWF 11:00-11:50
ME 6212/AE 6212	Advanced Finite Element Analysis	ME/AE 5212	Chandrashekhara	TTh 11:00-12:15
ME 6230	Theory of Plates	Math 5325	Birman	W 4:00-6:30 pm
ME 6307/AE 6307	Advanced Vibrations	ME/AE 5307	Stutts	MWF 1:00-1:50
ME 6458/AE 6458	Adaptive Dynamic Programming	EE 5370 or CpE 5310	Wunsch (EE)	T 7:00-9:30 pm
ME 6481/AE 6481	Advanced Topics in Decision and Control	AE/ME 5481	Balakrishnan	TTh ?
ME 6527/AE 6527	Heat Transfer by Convection	ME/AE 5525	Homan	MWF 9:00-9:50
ME 6659	Advanced Topics in Design & Manuf	ME 5655 or ME 5708	Liou	TTh 2:00-3:15
ME 6663	Adv Digital Design & Manufacturing	ME 5708 or ME 5757 or ME 5763	Leu	TTh 9:30-10:45