

TENTATIVE Fall 2018 MAE Technical Electives

Catalog #	Title	Prerequisites	Instructor	Time
AE 5169	Intro to Hypersonic Flow	AE 3171	Hosder	TTh 11:00-12:15
AE 5171	V/STOL Aerodynamics	AE 3171	Pitt	W 7:00-9:30pm
AE 5361	Flight Dynamics-Stability & Control	AE 3361	DeMars	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 2:00-3:15
ME 5131/AE 5131	Intermediate ThermoFluid Mechanics	ME 3131 or AE 3131	Homan	MWF 3:00-3:50
ME 5139/AE 5139	Computational Fluid Mechanics	Cmp Sci, one course in fluid mechanics	Isaac	MWF 1:00 - 1:50
ME 5212/AE 5212	Introduction to Finite Element Analysis	ME 3708 or AE 4253	Chandrashekhara	TTh 11:00 - 12:15
ME 5238/AE 5238	Fatigue Analysis	CE 2210	Dharani	TTh 2:00-3:15
ME 5307/AE 5307	Vibrations I	ME 3411 & ME 3313, or AE 3613; Math 3304	Stutts	TTh 2:00-3:15
ME 5420	Signal Processing for Instrumentation and Control	Math 3304, ME 3411	Bristow	MWF 8:00-8:50
ME 5481/AE 5481	Mech & Aero Control Systems	ME 4479 or AE 3361	Balakrishnan	MWF 9:00-9:50
ME 5525/AE 5525	Intermediate Heat Transfer	ME 3525	Crosbie	MWF 11:00 - 11:50
ME 5527/AE 5527	Combustion Processes	ME 3521	Koylu	TTh 9:30-10:45
ME 5570/AE 5570	Plasma Physics I	ME 3131 or AE 3131	Han	TTh 8:00 - 9:15
ME 5571/ArchE 5571	Environmental Control	ME 3521 & acc./prec by ME 3525	Williams	M 7:00-9:30 PM
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
ME 5715/AE 5715	Concurrent Engineering I	ME 3313 or AE 3131, CE 2210	Appelman	Th 7:00 - 9:30 PM
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
ME 6001/AE 6001	Adv Computational Thermofluid Mechanics	AE/ME 5131, AE/ME 5139	Homan	MWF 12:00-12:50
ME 6135/AE 6135	Turbulent Flows	ME/AE 5131 or ME/AE 5139	Duan	TTh 12:30 - 1:45
ME 6222	Theory of Elasticity	CE 2210	Dharani	TTh 9:30-10:45
ME 6284/AE 6284	Analysis of Laminated Composite Structures	AE/ME 5282	Birman	W 4:00-6:30 PM
ME 6447/AE 6447	Markov Decision Processes	Grad stading in probability/statistics	Gosavi (Eng Mgt)	M 4:00-6:30 PM
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 & Materials Proc	ME 5525	Tsai	TTh 9:30-10:45
ME 6704	Mechanics of Machinery	ME 5704	Midha	MWF 12:00-12:50