

TENTATIVE Fall 2025 Technical Electives: Updated 2/19/25

Catalog #	Title	Prerequisites	Instructor	Schedule	
AE 5169	Introuction to Hypersonic Flow	AE 3171	Hosder	TTh 11:00am-12:15pm	
AE 5171	V/Stol Aerodynamics	AE 3171	Pitt	Th 4:00-6:30pm	
AE 5535	Aerospace Propulsion Systems	AE 4535	Han	TTh 9:30-10:45am	
ME/AE 5131	Intermediate Thermofluid Mechanics	ME or AE 3131	Homan	MWF 3:00-3:50pm	D
ME/AE 5212	Introduction to Finite Element Analysis	Math 3304, Sr. Standing	Chandrashekhara	TTh 11:00am-12:15pm	D
ME/AE 5236	Fracture Mechanics	CE 2210	Rittenhouse	T 4:00-6:30pm	D
ME/AE 5307	Vibrations I	ME 3411 & ME 3313, or AE 3613 & Math 3304	Stutts	TTh 2:00-3:15pm	
ME/AE 5313	Intermediate Dynamics of Mechanical & Aerospace Systems	ME 3313 or AE 3613	Krishnamurthy	MWF 1:00-1:50pm	D
ME/AE 5481	Mechanical & Aerospace Control Systems	ME 4479 or AE 3361	Krishnamurthy	MWF 11:00-11:50am	D
ME/AE 5527	Combustion Processes	ME 3521	Koylu	Arranged	D
ME/AE 5539	Modeling Across Scales in Computational Mechanics	CE 2210 & ME 2519	Park	TTh 8:00-9:15am	
ME/AE 5715	Concurrent Engineering	ME 3313 or AE 3131, CE 2210	Appelman	Th 7:00-9:30pm	D
ME 3001	Additive Manufacturing Processes	ME 2653	Miller	MWF 10:00-10:50am	
ME 3653-101	Manufacturing	ME 2653, CE 2211, "C" or better in CE 2210	Okafor	MWF 1:00-1:50pm	
ME 3653-102	Manufacturing	ME 2653, CE 2211, "C" or better in CE 2210	Miller	MWF 9:00-9:50am	
ME 5653	CNC of Manufacturing Processes	Acc./prec by Mech Eng 3653	Okafor	MW 11:00-11:50am (lec)	D
ME 5757	Integrated Product and Process Design	Junior Standing or above	Allada (Eng Mgt)	T 4:00-6:30pm	D
ME 5763	Computer Aided Design: Theory and Practice	Cmp Sci, ME 2761, Math 2222, Jr Standing	Leu	MW 11:00-11:50 (lec)	D
ME/AE 6135	Turbulent Flows - Theory, Measurements and Modeling	ME/AE 5131 or ME/AE 5139	Vigano	TTh 11:00am-12:15pm	
ME/AE 6284	Analysis of Laminated Composite Structures	ME or AE 5282	Birman	W 4:00-6:30pm	D
ME/AE 6447	Markov Decision Processes	Graduate standing & statistics background	Alsharoa	TTh 2:00-3:15pm	
ME/AE 6527	Heat Transfer by Convection	ME/AE 5525	Homan	Arranged	D
ME 6585	Advanced Optical Materials and Structures	EE 5200	Yang	TTh 11:00am-12:15pm	