

**TENTATIVE Fall 2024 Technical Electives: Updated 2/27/24**

<b>Catalog #</b>	<b>Title</b>	<b>Prerequisites</b>	<b>Instructor</b>	<b>Schedule</b>	
AE 5169	Introuction to Hypersonic Flow	AE 3171	Hosder	TTh 11:00am-12:15pm	
AE 5353	Aeroelasticity	AE 3251, AE 3171	Pitt	Th 4:00-6:30pm	
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 11:00-12:15pm	D
ME/AE 5238	Fatigue Analysis	CE 2210	Dharani	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 5519	Advanced Thermodynamics	ME 2519	Park	MWF 9:00-9:50am	D
ME/AE 5527	Combustion Processes	ME 3521	Koylu	TTh 9:30-10:45am	D
ME/AE 5570	Plasma Physics I	ME or AE 3131	Han	TTh 9:30-10:45am	D
ME/AE 5715	Concurrent Engineering	ME 3313 or AE 3131, CE 2210	Appelman	Th 7:00-9:30pm	D
ME 3653	Manufacturing	ME 2653, CE 2211, "C" or better in CE 2210	Okafor	MWF 1:00-1:50pm	
ME 5571	Environmental Controls	ME 3521, Acc./prec by ME 3525	Williams	M 4:00-6:30pm	
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	Principles & Practice of CAD	Cmp Sci, ME 2761, Math 2222, Jr Standing	Leu	MW 11:00-11:50 (lec)	D
AE 6001	Methods in Orbit Determination	AE 5614	Paul	TTh 12:30-1:45pm	
ME/AE 6284	Analysis of Laminated Composite Structures	ME or AE 5282	Birman	W 4:00-6:30pm	D
ME 6470	Adaptive Control	EE 6300	Sarangapani	TTh 11:00-12:15pm	
ME 6585	Advanced Optical Materials and Structures	EE 5200	Yang	TTh 11:00-12:15pm	