

Tentative Spring 2022 Technical Electives: Updated 10/01/21

Catalog #	Title	Pre-Requisites	Instructor	Schedule	
AE 5535	Aerospace Propulsion Systems	AE 4535	Riggins	MWF 9:00-9:50 AM	
AE 5614	Spaceflight Mechanics	AE 3613	Pernicka	TTh 12:30-1:45 PM	
ME/AE 5236	Fracture Mechanics	CE 2210	Dharani	TTh 12:30-1:45 PM	D
ME/AE 5282	Intro to Composite Materials & Structures	CE 2210	Chandrashekhara	TTh 9:30-10:45 AM	D
ME/AE 5519	Advanced Thermodynamics	ME 2519	Park	TTh 9:30-10:45 AM	
ME/AE 5830	Applied Computational Methods	Cmp Sci 1570/1970/1972/1981 & Math 3304	Hosder	TTh 11:00 AM-12:15 PM	
ME 3653	Manufacturing	ME 2653, CE 2211, & 'C' or better in CE 2210	Okafor	MWF 1:00-1:50 PM	
ME 5543	Energy Efficiency of Vehicles	Math 2222 & Phys 2135	Carroll	MWF 10:00-10:50 AM	
ME 5575	Mechanical Systems for Environmental Control	ME 3521 & ME 3525	Williams	M 4:00-6:30 PM	
ME 5653	CNC of Manufacturing Processes	Acc/prec by Mech Eng 3653	Okafor	MW 11:00-11:50 AM (lec)	
ME 5656	Design for Manufacture	ME 3708 & ME 3653	Appelman	Th 7:00-9:30 PM	D
ME 5704	Compliant Mechanisms Design	ME 3313 & CE 2210	Midha	MWF 10:00-10:50 AM	D
ME 5709	Machine Design II	ME 3708	Nisbett	TTh 11:00 AM-12:15 PM	
ME 5757	Integrated Product and Process Design	Junior or above standing	Gosavi (EMgt)	Th 4:00-5:15 PM	
ME/AE 6123	Viscous Fluid Flow	ME/AE 5131 or ME/AE 5139	Isaac	TTh 12:30-1:45 PM	D
ME/AE 6131	Gas Dynamics	ME/AE 5131	Han	Th 4:00-6:30 PM	D
ME/AE 6212	Advanced Finite Element Analysis	ME/AE 5212	Chandrashekhara	TTh 11:00 AM-12:15 PM	D
ME/AE 6307	Advanced Vibrations	ME/AE 5307	Stutts	MWF 1:00-1:50 PM	
ME/AE 6527	Heat Transfer by Convection	ME/AE 5525	Homan	MWF 9:00-9:50	
ME 6001	Design for Additive Manufacturing	ME 2653	Dong	TTh 12:30-1:45 PM	D
ME 6001	Iterative Learning and Repetitive Process Control	ME 5481	Bristow	MWF 8:00-8:50 AM	D
ME 6230	Theory of Plates	Math 5325	Birman	W 4:00-6:30 PM	D
ME 6653	Advanced CNC of Manuf Proc & Eng Metrology	ME 5653	Okafor	MF 2:10-3:50 PM	D
ME 6659	Advanced Topics in Design & Manuf	ME 5655 or ME 5708	Liou	TTh 11:00 AM-12:15 PM	D
ME 6663	Advanced Digital Design and Manuf	ME 5708 or ME 5757 or ME 5763	Leu	TTh 9:30-10:45 AM	D