

Tentative Course Offering Schedule

Course	Description	Target Frequency	S24	F24	S25	F25	S26	F26	S27	Design & Manufacturing	Dynamics & Controls	Thermal/Fluid Sciences	
ME 230	Adv. Mechanical Engineering Analysis	1	1	1	1	1	1	1	1	Required	Required	Required	
ME 273	Finite Element Methods in Engineering	1	1	1	1	1	1	1	1	Required	Required	Required	
ME 201	Mechanical Engineering Project Planning	1	1	1	1	1	1	1	1	Usually Required	Usually Required	Usually Required	
ME 210	Advanced Thermodynamics	4		1				1				**	
ME 211	Advanced Heat Transfer	4	1				1					**	
ME 221	Viscous Flow Analysis and Computation	4				1						**	
ME 231	Optimization and ML in Mech Eng	4				1				*	*	*	
ME 232	Deep learning in Mech Eng	4	1				1			*	*	*	
ME 233	Computational Data Analysis for ME	4			1				1	*	*	*	
ME 240	Rigid Body Dynamics	3				1			1	*	**		
ME 243	Vibration of Mechanical Systems	3			1			1		*	**		
ME 250	Precision Machine Design	4		1				1		**			
ME 256	Product Design and Development	4			1				1	**			
ME 260	Applied Stress Analysis	3		1			1			**			
ME 265	Computer-Aided ME Design	3	1			1			1	**			
ME 267	Engineering Biomechanics	3			1			1		*	*	*	
ME 268	3D Printing and Additive Manufacturing	4				1				**			
ME 271	Computational Fluid Dynamics for ME	3		1			1					**	
ME 274	Advanced Finite Element Methods	3			1			1		**			
ME 280	Automatic Control Engineering	2		1		1		1			**		
ME 281	Advanced Control System Design	4			1				1		**		
ME 282	Nonlinear and Adaptive Control	4	1				1				**		
ME 283	Automatic Control of Manuf. Processes	4		1				1		**	*		
ME 284	Sensor Technology and Principles	3		1			1				**		
ME 285	Mechatronic Systems Engineering	2	1		1		1		1		**		
ME 286	Autonomous and Connected Vehicles	4				1					**		
ME 297	Experimental fluid mechanics	4						1				**	
ME 297	Introduction to fire dynamics	4					1					**	
ME 297	Robot Modeling and Control				1						**		
**	Highly Recommended											Last updated: May 9, 2024	
*	Recommended												