

Tentative Long-Range Schedule

Fall 2023 – Spring 2027

Course	Units	Title	F23	S24	F24	S25	F25	S26	F26	S27
ME 101/L	1/1	Introduction to Mechanical Engineering and Lab	■	■	■	■	■	■	■	■
ME 186/L	1/1	Computer-Aided Design and Lab	■	■	■	■	■	■	■	■
ME 209	1	Programming for Mechanical Engineers	■	■	■	■	■	■	■	■
ME 280	3	Differential Equations for Mechanical Engineers	■	■	■	■	■	■	■	■
ME 286	2	Mechanical Engineering Design	■	■	■	■	■	■	■	■
ME 309	2	Numerical Analysis of Engineering Systems	■	■	■	■	■	■	■	■
ME 330	3	Machine Design	■	■	■	■	■	■	■	■
ME 335/L	1/1	Mechanical Measurements and Lab	■	■	■	■	■	■	■	■
ME 370	3	Thermodynamics	■	■	■	■	■	■	■	■
ME 375	3	Heat Transfer I	■	■	■	■	■	■	■	■
ME 376	3	Heat Transfer in Electrical and Electronic Systems (Not available for BSME credit)	■	■	■	■	■	■	■	■
ME 384	3	System Dynamics	■	■	■	■	■	■	■	■
ME 386/L	2/1	Computer-Aided Analysis & Design and Lab	■	■	■	■	■	■	■	■
ME 390	3	Fluid Mechanics	■	■	■	■	■	■	■	■
ME 415	3	Kinematics of Mechanisms	■		■		■		■	
ME 430	3	Machine Design Applications		■	■	■	■	■	■	■
ME 431/L	2/1	Machine Design and Manufacturing	■		■		■		■	
ME 434	3	Geometric Dimensioning and Tolerancing		■	■	■	■	■	■	■
ME 435/L	2/1	Mechatronics and Lab	■	■	■	■	■	■	■	■
ME 436/L	2/1	Mechanics and Design of Composites Materials	■	■	■	■	■	■	■	■
ME 460	3	Automotive Engineering	■		■		■		■	
ME 462	3	Internal Combustion Engines		■	■	■	■	■	■	■
ME 470	3	Thermodynamics II	■		■		■		■	
ME 476	3	Heat Transfer II		■	■	■	■	■	■	■
ME 482	3	Fundamentals of Alternative Energy and Fuel Cell Technology	■		■		■		■	
ME 483	3	Solar, Wind and Geothermal Energy		■	■	■	■	■	■	■
ME 484/L	2/1	Control of Mechanical Systems		■	■	■	■	■	■	■
ME 485	3	Introduction to Environmental Engineering		■	■	■	■	■	■	■
ME 486A/B	2/2	Senior Design in Mechanical Engineering	■	■	■	■	■	■	■	■
ME 490	3	Fluid Dynamics	■		■		■		■	
ME 491	1	Thermal Fluids Lab	■	■	■	■	■	■	■	■
ME 493	3	Hydraulics	■	■	■	■	■	■	■	■

ME 501A	3	Seminar in Engineering Analysis I	■	■	■		■	■	■	
ME 501B	3	Seminar in Engineering Analysis II	■		■	■	■		■	■
ME 503	3	Biomedical Instrumentation (cross-listed with ECE 503)								
ME 515	3	Dynamics of Machines		■	■	■	■	■	■	■
ME 520	3	Robotic Mechanisms & Control	■		■		■		■	

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ME 522	3	Autonomous Intelligent Vehicles								
ME 530	3	Mechanical Analysis of Solids								
ME 532	3	Mechanics of Polymers								
ME 536	3	Mechanical Design with Composites								
ME 575	3	Applied Heat Transfer and Mass Transfer								
ME 583	3	Thermal-Fluid Systems Design								
ME 584	3	Modeling & Simulation of Dynamic Systems								
ME 590	3	Advanced Fluid Dynamics								
ME 593	3	Compressible Flow								
ME 595SMS	3	Exp. Topics: Design of Smart Materials Systems								
ME 630	3	Computer-Aided Machine Design								
ME 670	3	Advanced Thermodynamics	Offered pending availability							
ME 675A	3	Conduction & Radiative Heat Transfer								
ME 675B	3	Convective Heat & Mass Transfer								
ME 684	3	Design & Control of Dynamics Processes								
ME 692	3	Computational Fluid Dynamics								
ME 696A/B/C	1/2/3	Directed Graduate Studies								
ME 697D	1	Directed Comprehensive Studies/Exam								
ME 698D	1	Thesis								
ME 699A/B/C	1/2/3	Independent Study								
AE 472	3	Aeropropulsion Systems								
AE 480	3	Introduction to Aerospace Engineering								
AE 486 A/B	2/2	AE Senior Design								
AE 572	3	Rocket Propulsion								
AE 586	3	Aircraft Design	Offered pending availability							