

# Tentative Long-Range Schedule

Fall 2020

Course	Units	Title	F20	S21	F21	S22	F22	S23	F23	S24
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 & Manufacturing and Lab	■		■		■		■	
ME 434	3	Geometric Dimensioning and Tolerancing		■		■		■		■
ME 435/L	2/1	Mechatronics and Lab	■	■	■	■	■	■	■	■
ME 436/L	2/1	Mechanics and Design of Composite Materials & Lab	■	■	■	■	■	■	■	■
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 I/II	■	■	■	■	■	■	■	■
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		■				■		
ME 515	3	Dynamics of Machines		■		■		■		■

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ME 520	3	Robotic Mechanisms and Control			■				■	
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 and Mass Transfer		■		■		■		■
ME 583	3	Thermal-Fluid Systems Design	■				■			
ME 584	3	Modeling and Simulation of Dynamic Systems	■			■		■		■
ME 590	3	Advanced Fluid Dynamics	■		■		■		■	
ME 593	3	Compressible Flow		■				■		
ME 595AMM	3	Exp. Topics: Advanced Mechanical Measurements	■				■			
ME 595SMS	3	Exp. Topics: Design of Smart Materials Systems		■				■		
ME 630	3	Computer-Aided Design of Machinery		■				■		
ME 670	3	Advanced Topics in Thermodynamics			■				■	
ME 675A	3	Conduction and Radiative Heat Transfer			■				■	
ME 675B	3	Convective Heat and Mass Transfer		■				■		
ME 684	3	Design and Control of Dynamic Systems			■		■		■	
ME 692	3	Computational Fluid Dynamics				■				■
ME 696A-C	1-3	Directed Graduate Research	■	■	■	■	■	■	■	■
ME 697	3	Directed Comprehensive Studies	■	■	■	■	■	■	■	■
ME 697D	1	Directed Comprehensive Studies/Exam	■	■	■	■	■	■	■	■
ME 698A-C	1-3	Thesis or Graduate Project	■	■	■	■	■	■	■	■
ME 698D	1	Thesis Defense	■	■	■	■	■	■	■	■
ME 699A-C	1-3	Independent Study	■	■	■	■	■	■	■	■
AE 472	3	Aeropropulsion Systems				■				■
AE 480	3	Introduction to Aerospace Engineering	■		■		■		■	
AE 486A/B	2/2	Senior Design in Aerospace Engineering I/II	■	■	■	■	■	■	■	■
AE 572	3	Rocket Propulsion		■				■		
AE 586	3	Aircraft Design				■				■
AE 589	3	Aerodynamics			■				■	
AE 672	3	Advanced Topics in Aero-Propulsion								