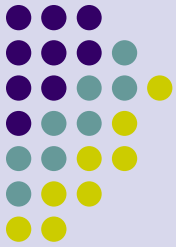


# ME Four-Year Course Schedule

## Fall 2020 to Spring 2024



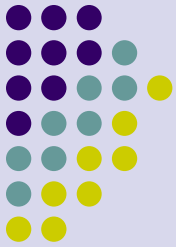
ADD/Subject	Course Number	Course Name	Fall 2020	Spring 2021	Summer 2021	Fall 2021	Spring 2022	Summer 2022	Fall 2022	Spring 2023	Summer 2023	Fall 2023	Spring 2024
ENGR	120B	Freshman Engineering I	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ENGR	230B	Technical Communications	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MEEN	000B	Dept comprehensive	✓	✓	<i>If needed</i>	✓	✓	<i>If needed</i>	✓	✓	<i>If needed</i>	✓	✓
MEEN	221B	Numerical Method for Engr	✓	✓			✓			✓			✓
MEEN	225B	Dynamics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MEEN	227B	Mechanics of Materials	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MEEN	229B	Dynamics & Statics for EE Majors		✓			✓			✓			✓
MEEN	235B	Material Science & Engineering	✓	✓		✓	✓		✓	✓		✓	✓
MEEN	252B	Introduction to Cadd	✓	✓		✓	✓		✓	✓		✓	✓
MEEN	300B	Thermodynamics I	✓	✓		✓	✓		✓	✓		✓	✓
MEEN	301B	Thermodynamics II		✓			✓			✓			✓
MEEN	312B	Fluid Mechanics	✓	✓		✓	✓		✓	✓		✓	✓
MEEN	335B	Materials Processing	✓			✓			✓			✓	
MEEN	350B	Mechanics of Machines	✓			✓			✓			✓	
MEEN	356B	Measurements		✓			✓			✓			✓
MEEN	365B	Machine Design		✓			✓			✓			✓
MEEN	442B	Heat Transfer	✓			✓			✓			✓	
MEEN	450B	Mech Eng Senior Design I	✓	✓		✓	✓		✓	✓		✓	✓
MEEN	451B	Mech Eng Senior Design II	✓	✓		✓	✓		✓	✓		✓	✓
MEEN	456B	Engr Modeling, Analysis, and Control		✓			✓			✓			✓

**Technical Electives:** Mechanical Engineering Undergraduates must take at least three hours from the three types of technical elective courses shown below prior to graduation for a total of 9 hours:

Materials Science & Engineering Technical Electives													
MEEN	336B	Composite Materials	✓			✓			✓			✓	
MEEN	337B	Engineering Materials & Selection											
MEEN	430B*	Intro to Finite Elements		✓			✓			✓			✓
MEEN	460B	Mechanical Energy Systems											
MEEN	482B	Thermal System Analysis											
Thermal Science Technical Electives													
MEEN	313B	Fluid dynamics	✓			✓			✓			✓	
MEEN	421B*	Thermal Environmental Engr (HVAC II)				✓			✓			✓	
MEEN	462B	Engr Design: Materials & Manufacturing		✓			✓			✓			✓
General Technical Electives													
MEEN	338B	Fracture Mechanics					✓						✓
MEEN	439B	Intermediate Manufacturing Processes											
MEEN	343B	Mechanical Vibration	✓						✓				
MEEN	464B	Mechatronics											
MEEN	467B	Topics in Mechanical Engineering				<i>Any semester as needed...</i>							✓
MEEN	468B	Topics in Mechanical Engineering				<i>Any semester as needed...</i>							
MEEN	471B	Computer-Integrated Manufacturing											
MEEN	497B	Senior Projects			<i>If needed</i>			<i>If needed</i>			<i>If needed</i>		
MEEN	498B	Senior Projects			<i>If needed</i>			<i>If needed</i>			<i>If needed</i>		

# ME Four-Year Course Schedule

## Fall 2020 to Spring 2024



ADD/Subject	Course Number	Course Name	Fall 2020	Spring 2021	Summer 2021	Fall 2021	Spring 2022	Summer 2022	Fall 2022	Spring 2023	Summer 2023	Fall 2023	Spring 2024
<b>Graduate Core Courses</b>													
ENGR	540B	Fundamentals of Engineering Materials	✓			✓			✓			✓	
ENGR	550B	Numerical Methods for Engr App	✓			✓			✓			✓	
ENGR	560B	Optimization Theory & Methods		✓			✓			✓			✓
ENGR	570B	Engineering Management		✓			✓			✓			✓
ENGR	599B	Engineering Project	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ENGR	600B	Thesis	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Graduate Materials Science &amp; Engineering Electives</b>													
MEEN	430B*	Intro to Finite Elements		✓			✓			✓			✓
MEEN	551B	Fracture Mechanics and Fatigue in Materials					✓						✓
MEEN	552B	Corrosion Science & Engineering	✓						✓				
MEEN	563B	Composites Materials				✓			✓			✓	
MEEN	565B	Characterization of Materials		✓						✓			
MEEN	588B	Topics in Materials Science & Engineering	<i>Any semester as needed...</i>										
<b>Graduate Thermal Science &amp; Engineering Electives</b>													
MEEN	421B*	Thermal Environmental Engr (HVAC II)				✓			✓			✓	
MEEN	574B	Advanced Applied Heat Transfer				✓						✓	
MEEN	578B	Computational Fluid Dynamics		✓						✓			
MEEN	579B	Two Phase Flow & Heat Transfer	✓						✓				
MEEN	581B	Energy Management and Applications					✓						✓
MEEN	589B	Topics in Thermal Science & Engineering	<i>Any semester as needed...</i>										

**Notes**

\* The MEEN 421B (Thermal Environmental Engineering) and MEEN 430B (Intro to Finite Elements) courses are UNDERGRADUATE level ME Technical Electives and GRADUATE level Technical Electives.