

**Mechanical Engineering - Schedule Planning Grid  
Autumn 2023**

First Year					Second Year				
Course #	Title	Quarter	Credits	Notes	Course #	Title	Quarter	Credits	Notes
TMATH 115	Pre-Calculus I	Fall	5		<b>TMATH 125</b>	<b>Calculus II</b>	Fall	5	
TCORE 102	Introduction to Engineering	Fall	5		<b>T PHYS 121</b>	<b>Physics I (Mechanics)</b>	Fall	6	
TCORE 101	English Comp I (C)	Fall	5			Minor/ Elective Course	Spring	5	
TMATH 116	Pre-Calculus II	Winter	5		<b>TMATH 126</b>	<b>Calculus III</b>	Winter	5	
	Advanced Writing (W)	Winter	5		<b>T PHYS 122</b>	<b>Physics II (Electromagnetism)</b>	Winter	6	
<b>TCHEM 142</b>	<b>General Chemistry I</b>	<b>Winter</b>	<b>6</b>		TUNIV 190	Success in STEM	Winter	1	
						Minor/ Elective Course	Winter	5	
<b>TMATH 124</b>	<b>Calculus I</b>	<b>Spring</b>	<b>5</b>		<b>T PHYS 123</b>	<b>Physics III (Waves)</b>	<b>Spring</b>	<b>6</b>	
	Social Science and Diversity (SSc and DIV)	Spring	5		<b>TMATH 207</b>	<b>Differential Equations</b>	<b>Spring</b>	<b>5</b>	
	Minor/ Elective Course	Spring	5			Minor/ Elective Course	Spring	5	
Third Year					Fourth Year				
<b>TMATH 324</b>	<b>Multivariable Calculus</b>	<b>Fall</b>	<b>5</b>		TME 320	Fundamentals of Material Sci+LAB	Fall	4	
<b>TME 221</b>	<b>Statics</b>	<b>Fall</b>	<b>4</b>		TME 315	3D Modeling (A&H)	Fall	5	
	Minor/ Elective Course	Fall	5		TME 331	Thermodynamics	Fall	5	
					TME 310	Intro to Comp Modeling I	Fall	2	
					TME 390	Junior Seminar	Fall	2	
<b>TME 222</b>	<b>Mechanics of Materials</b>	<b>Winter</b>	<b>4</b>		TME 332	Fluid Mechanics+LAB	Winter	5	
<b>TCSS 142*</b>	<b>Intro to Programming</b>	<b>Winter</b>	<b>5</b>		TME 341	Mechanical Design I	Winter	5	
	Arts and Humanities (A&H)	Winter	5		TEE 225	Engineering Ethics (SSc, W)	Winter	5	
					TME 311	Intro to Comp Modeling II	Winter	2	
					TME 390	Junior Seminar	Winter	1	
<b>TME 223</b>	<b>Dynamics</b>	<b>Spring</b>	<b>4</b>		TME 351	Engineering Probability & Stats	Spring	3	
TCES 215	Electrical Circuits	Spring	5		TME 342	Mechanical Design II	Spring	5	
TCES 390	Electrical Circuits Seminar (Optional)	Spring	2		TME 345	Machining Fundamentals	Spring	3	
	Minor/ Elective Course	Spring	5		TME 373	System Dynamics and Controls+LAB	Spring	5	
					TME 390	Junior Seminar	Spring	2	
Fifth Year									
Course #	Title	Quarter	Credits	Notes					
TME 4XX	Elective	Fall	4		<p>Note: This is an advising tool only and is subject to change. Required prerequisites are in BOLD. Admission is not guaranteed and is based on review of major application.</p> <p>*5 credits of programming (Courses in Python, Java, C, C++ or the equivalent of AMATH 301: Beginning Scientific Computing will meet this requirement)</p>				
TME 441	<b>Mechatronics+LAB</b>	Fall	5						
TME 433	Heat Transfer	Fall	5						
TME 480	Senior Project I	Fall	2						
TME 435	<b>Thermal System Design+LAB</b>	Winter	4						
TME 4XX	Elective	Winter	4						
TME 481	Senior Project II	Winter	3						
TME 403	Engineering Economics	Winter	2						
TME 402	FE Exam Review	Winter	1						
TME 491	Senior Seminar	Winter	1						
TME 4XX	Elective	Spring	3						
TME 4XX	Elective	Spring	4						
TME 482	Senior Project III	Spring	4						
TME 402	FE Exam Review	Spring	1						
TME 491	Senior Seminar	Spring	1						