

## Mechanical Engineering Curriculum Grid

<b>1<sup>st</sup> YEAR</b>	<b>Department, Course Number, and Descriptive Title of Course</b>	<b>Credits</b>	
		<b>Fall</b>	<b>Spring</b>
COGNATE	CHEM 112 (E) General and Analytical Chemistry CMPS 134/134L – Computer Science I	3	4
COGNATE	PHYS 140/140L - (E) Elements of Physics I		4
COGNATE	MATH 114 - (Q) Calculus I MATH 221 - (Q) Calculus II	4	4
MAJOR	ENGR 253L – An Intro. to Computer Aided Design ENGR 254L – 3D Computer Aided Design	1	1
MAJOR EP	ENGR 150 - (FYOC, FYDT) Foundations of Physics and Engineering	3	
GE WRTG	WRTG 107 - (FYW) Composition	3	
GE PHIL, GE T/RS	PHIL 120 - Introduction to Philosophy T/RS 121 - (P) Theology I: Intro. to the Bible	3	3
GE FSEM	First Year Seminar <sup>1</sup>	(3) <sup>1</sup>	
		<b>17</b>	<b>16</b>
<b>2<sup>nd</sup> YEAR</b>			
MAJOR	ME 240 – Intro. To Mechanical Engineering	3	
MAJOR	ENGR 250 – Engineering Mechanics Statics ME 260 – Strength of Materials	3	3
COGNATE	EE 250/250L – Comp. Tools for Phys. & Engr. EE 241/241L - (EPW) Circuit Analysis	4	4
COGNATE	PHYS 141/ 141L - (E) Elements of Physics II PHYS 142 – Elements of Physics III	4	3
COGNATE	MATH 222 - (Q) Calculus III MATH 341 - Differential Equations	4	4
GE HUMN	HUMN ELECT – Humanities Elective		3
		<b>18</b>	<b>17</b>
<b>3<sup>rd</sup> YEAR</b>			
MAJOR	ME 370/370L – Manufacturing Processes	4	
MAJOR	ENGR 251 – Engineering Mechanics Dynamics PHYS 352 – Engineering Thermodynamics	3	3
MAJOR	ME 270 – Materials Engineering ME 360/360L – Measurement and Instrumentation	3	3
COGNATE	ENGR 350 – Applied and Engineering Mathematics	3	
GE S/BH	ECO 153 - (S) Principles of Microeconomics ECO 154 - (S) Principles of Macroeconomics	3	3
GE PHIL, GE T/RS	PHIL 210 - Ethics T/RS 122 - (P) Theology II: Intro. to Christian Theo.		3 3
		<b>16</b>	<b>15</b>
<b>4<sup>th</sup> YEAR</b>			
MAJOR	ME 460 – Senior Design Project I ME 461 – Senior Design Project II	2	2
MAJOR	EE 450/450L – Control Systems with Lab ME 470 – Vibration Engineering	4	3
MAJOR	ME 353 – Fluid Mechanics ME 440 – Heat Transfer	3	3
MAJOR	ME 430 – Engineering Economics		3
GE HUMN	HUMN ELECT - Humanities Electives	6	3
GE P	P ELECT – Phil. Elective or T/RS – Theo. Elective		3
		<b>15</b>	<b>17</b>
		<b>Total: 131 Credits</b>	

<sup>1</sup> First Year Seminar (FYS) is likely to fulfill requirements both for the FYS and a GE PHIL or GE T/RS requirement by taking either PHIL 120X or T/RS 121X. Thus, the FYS will not add to the total credits for the semester. Credits shown in parentheses. Talk with your advisor if you have any questions.

### Color Legend

	MAJOR course in Department of Physics/EE
	COGNATE course in Department of Physics/EE
	MAJOR or COGNATE course in Departments of Computer Science, Chemistry, or Math