

Please inform the Registrar's Office if you choose an alternate option.  
 Otherwise your Academic Advisement Report will be incorrect.

**STUDENTS ENTERING IN 2020  
 MECHANICAL ENGINEERING MAJOR  
 ME OPTION – DIVISIONS 3&4  
 CURRICULUM**

5/4/20  
 Subject to Change

**Total Units: 152**

<u>FALL 2020</u>	3.0	<u>SPRING 2021</u>	1.0	<u>SUMMER CRUISE 2021</u>	8.0
Humanities Elective (Area C2-Lower Div)	3.0	DL 105 Marine Survival	1.0	CRU 150 Sea Training I (Engine)	8.0
CHE 110 General Chemistry (Area B1)	3.0	DL 105L Marine Survival Lab	1.0	EPO 220 Diesel Engineering I	2.0
CHE 110L General Chemistry Lab (Area B3)	1.0	DL 105X USCG Lifeboatman's Exam	0.0	<b>Total</b>	<b>10.0</b>
EGL 100 English Composition (Area A2) "G4"	3.0	EGL 220 Critical Thinking	3.0		
EGL 120 Technical Communication* (Area A1) "G4"	3.0	[Critical Thinking Elective] (Area A3) "G4"			
ENG 110 Introduction to Engineering and Technology*	1.0	EPO 110 Plant Operations I	1.0		
FF 200 Basic/Advanced Marine Firefighting	0.0	EPO 125 Introduction to Marine Engineering	3.0		
MTH 210 Calculus I (Area B4) "G4"	4.0	EPO 213 Welding Lab	1.0		
PE 101 Swim Competency Exam	0.0	MTH 211 Calculus II (Area B4)	4.0		
PE 102 Beginning/Intermediate Swimming	(0.5)	NAU 104 Shipboard Security and Responsibility	1.0		
<b>Total</b>	<b>18.0</b>	PHY 200 Engineering Physics I (Area B1)	3.0		
		PHY 200L Engineering Physics I Lab (Area B3)	1.0		
		<b>Total</b>	<b>19.0</b>		
<u>FALL 2021</u>	2.0	<u>SPRING 2022</u>	3.0	<u>SUMMER CO-OP 2022</u>	3.0
ENG 210 Engineering Computer Programming	2.0	ENG 250 Electrical Circuits and Electronics*	3.0	CEP 250 ME Co-Op I	3.0
EPO 215 Manufacturing Processes I	1.0	ENG 250L Electrical Circuits and Electronics Lab*	1.0	<b>Total</b>	<b>3.0</b>
ME 220 Computer Aided Engineering*	2.0	ME 240 Engineering Thermodynamics*	3.0		
ME 230 Engineering Materials*	3.0	ME 330 Engineering Dynamics*	3.0		
ME 232 Engineering Statics*	3.0	ME 332 Mechanics of Materials*	3.0		
MTH 212 Calculus III (Area B4)	4.0	MTH 215 Differential Equations (Area B4)	4.0		
PHY 205 Engineering Physics II (Area B1)	4.0	<b>Total</b>	<b>17.0</b>		
<b>Total</b>	<b>19.0</b>				
<u>FALL 2022</u>	3.0	<u>SPRING 2023</u>	(3.0)	<u>SUMMER CO-OP 2023</u>	3.0
Life Science Elective (Area B2)	3.0	EGL 300 Advanced Writing	(3.0)	CEP 350 ME Co-Op II	3.0
ME 340 Engineering Fluid Mechanics*	3.0	ME 339 Material/Mechanical Lab*	2.0	<b>Total</b>	<b>3.0</b>
ME 350 Electromechanical Machinery*	3.0	ME 344 Heat Transfer*	3.0		
ME 350L Electromechanical Machinery Lab*	1.0	ME 392 Mechanical Design*	3.0		
ME 360 Instrumentation and Measurement Systems*	2.0	ME 460 Automatic Feedback Control*	2.0		
ME 360L Instr. and Measurement Systems Lab*	1.0	ME 460L Automatic Feedback Control Lab*	1.0		
<b>Total</b>	<b>13.0</b>	ME 490 Engineering Design Process*	3.0		
		STEM 1 Stem Course (See Box)*	3.0		
		<b>Total</b>	<b>17.0</b>		
<u>FALL 2023</u>	3.0	<u>SPRING 2024</u>	3.0	<p><b>CSU Writing Proficiency Requirements may be met by passing the Graduate Writing Exam, or passing EGL 300 Advanced Writing.</b></p> <p>"G4" "Golden 4" Courses (Must receive a "C-" or higher)            * Courses in Major (CGPA = 2.0 is required)</p> <p><b>STEM COURSES</b></p> <p><b>Energy Design Stem</b>            1 - ME 440 Advanced Fluids &amp; Thermodynamics (Spring 2023)*            2 - ME 442 Heating, Ventilation, and A/C Design (Fall 2023)*            3 - ME 444 Energy Systems Design (Spring 2024)*</p> <p><b>Mechanical Design Stem</b>            1 - ME 436 Mechatronic System Design (Spring 2023)*            2 - ME 430 Mechanical Vibrations (Fall 2023)*            3 - ME 432 Machinery Design (Spring 2024)*</p>	
American Institutions I Elective (Area D-Lower Div)	3.0	Humanities Elective (Area C-Upper Div)	3.0		
Social Science Elective (Area D-Lower Div)	3.0	GOV 200 American Government	3.0		
ME 349 Fluid/Thermal Lab*	2.0	[American Institutions II Elective] (Area D-Lower Div)			
ME 394 Fluid/Thermal Design*	3.0	HUM 310 Engineering Ethics (Area C2-Upper Div)	3.0		
ME 492 Project Design I*	2.0	ME 429 Manufacturing Processes Lab*	1.0		
ME 492L Project Design I Lab*	1.0	ME 494 Project Design II*	2.0		
STEM 2 Stem Course (See Box)*	3.0	ME 494L Project Design II Lab*	1.0		
<b>Total</b>	<b>17.0</b>	STEM 3 Stem Course (See Box)*	3.0		
		<b>Total</b>	<b>16.0</b>		