

Please inform Student Records if you choose an alternate option. Otherwise your Degree Progress Report will be incorrect.

**MECHANICAL ENGINEERING MAJOR  
ME OPTION – GOLD COMPANY  
(OPTIONAL POWER GENERATION MINOR)  
CURRICULUM**

**Subject to Change**

**Total Units: 164**

**Students Must Report Scores on the Fundamentals of Engineering Exam for Graduation**

**OPTIONAL POWER GENERATION MINOR COURSES ARE BOLDED. ADDITIONAL UNITS MUST BE ADDED TO TOTAL FOR EACH SEMESTER.**

**Writing Proficiency Requirement:** All Junior students must demonstrate upper division writing competency as a graduation requirement. This may be fulfilled by passing either the Graduation Writing Exam or EGL 300 Advanced Writing.

<u>FALL (Freshman Year)</u>		<u>SPRING (Freshman Year)</u>	
CHE 100 Chemistry I	3.0	DL 105 Marine Survival	1.0
CHE 100L Chemistry I Lab	1.0	DL 105L Marine Survival Lab	1.0
EGL 100 English Composition	3.0	DL 105X USCG Lifeboatman's Exam	0.0
ENG 110 Intro to Engr and Technology*	1.0	ELEC 20 Critical Thinking Elective	3.0
ENG 120 Engineering Communications*	2.0	ELEC 21 Humanities Elective (Lower Division)	3.0
EPO 110 Plant Operations I	1.0	MTH 211 Calculus II	4.0
EPO 125 Intro to Marine Engineering	3.0	PHY 200 Engineering Physics I	3.0
EPO 213 Welding Lab	1.0	PHY 200L Engineering Physics I Lab	1.0
MTH 210 Calculus I	4.0		
PE 100 Beginning/Intermediate Swimming	(.5)		
<b>Total</b>	<b>19.0</b>	<b>Total</b>	<b>16.0</b>

<u>FALL (Sophomore Year)</u>		<u>SPRING (Sophomore Year)</u>	
ENG 210 Engineering Computer Programming	2.0	ENG 250 Electrical Circ & Electronics*	3.0
<b>EPO 210 Plant Operations II</b>	<b>1.0</b>	ENG 250L Electrical Circ & Electronics Lab*	1.0
EPO 215 Manufacturing Processes I	1.0	<b>EPO 214 Boilers</b>	<b>3.0</b>
ME 220 Computer Aided Engineering*	2.0	<b>EPO 230 Steam Plant System Operations</b>	<b>1.0</b>
ME 230 Engineering Materials*	3.0	ME 240 Engineering Thermodynamics*	3.0
ME 232 Engineering Statics*	3.0	ME 330 Engineering Dynamics*	3.0
MTH 212 Calculus III	4.0	ME 332 Mechanics of Materials*	3.0
PHY 205 Engineering Physics II	4.0	MTH 215 Differential Equations	4.0
<b>Total</b>	<b>19.0</b>	<b>Total</b>	<b>17.0</b>

<u>FALL (Junior Year)</u>		<u>SPRING (Junior Year)</u>	
ENG 300 Engineering Numerical Analysis*	4.0	EGL 300 Advanced Writing	(3.0)
<b>EPO 235 Steam Plant Watch Team Mgmt</b>	<b>1.0</b>	<b>EPO 310 Plant Operations III</b>	<b>1.0</b>
<b>EPO 312 Turbines</b>	<b>3.0</b>	ME 339 Material/Mechanical Lab*	2.0
<b>EPO 319 Facilities Engr Diagnostics Lab</b>	<b>1.0</b>	ME 344 Heat Transfer*	3.0
<b>EPO 321 Diesel Plant Simulator</b>	<b>1.0</b>	ME 392 Mechanical Design*	3.0
ME 340 Engineering Fluid Mechanics*	3.0	ME 460 Automatic Feedback Control*	3.0
ME 350 Electromech Machinery*	3.0	ME 460L Automatic Feedback Control Lab*	1.0
ME 350L Electromech Machinery Lab*	1.0	ME 490 Engineering Design Process*	3.0
ME 360 Instr. & Measurement Sys*	2.0	STEM 1 Stem Course (See Box)*	3.0
ME 360L Instr. & Measurement Sys Lab*	1.0		
<b>Total</b>	<b>14.0</b>	<b>Total</b>	<b>18.0</b>

<u>FALL (Senior Year)</u>		<u>SPRING (Senior Year)</u>	
ELEC 8 American Institutions Elective	3.0	ELEC 9 American Institutions Elective	3.0
<b>ENG 440 Power Engineering*</b>	<b>3.0</b>	HUM 310 Engineering Ethics	3.0
ENG 470 Engineering Management*	3.0	ME 342 Refrigeration & A/C*	3.0
ME 349 Fluid/Thermal Lab*	2.0	ME 429 Manufacturing Processes Lab*	2.0
ME 394 Fluid/Thermal Design*	3.0	ME 494 Project Design II*	3.0
ME 492 Project Design I*	3.0	STEM 3 Stem Course (See Box)*	4.0
STEM 2 Stem Course (See Box)*	3.0		
<b>Total</b>	<b>17.0</b>	<b>Total</b>	<b>18.0</b>

<u>SPRING CRUISE (Freshman Year)</u>	
CRU 150 Sea Training I (Engine)	8.0
EPO 220 Diesel Engineering I	2.0
<b>Total</b>	<b>10.0</b>

<u>SPRING CO-OP (Sophomore Year)</u>	
CEP 250 ME Co-Op I	8.0
<b>Total</b>	<b>8.0</b>

<u>SPRING CO-OP (Junior Year)</u>	
CEP 350 ME Co-Op II	8.0
<b>Total</b>	<b>8.0</b>

\* Courses in Major  
(CGPA = 2.0 is Required)

<u>STEM COURSES</u>	
<u>Energy Design Stem</u>	
ME 440 Advanced Fluids & Thermodynamics*	
ME 442 HVAC Design*	
ME 444 Energy Systems Design*	
<u>Mechanical Design Stem</u>	
ME 434 Advanced Mechanics of Materials*	
ME 430 Mechanical Vibrations*	
ME 432 Machinery Design*	

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**Total Units: 164**

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MTH 210 Calculus I	4.0	EPO 213 Welding Lab	1.0
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<b>Total</b>	<b>17.0</b>	PHY 200 Engineering Physics I	3.0
		PHY 200L Engineering Physics I Lab	1.0
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EPO 215 Manufacturing Processes I	1.0	<b>EPO 214 Boilers</b>	<b>3.0</b>
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<b>EPO 312 Turbines</b>	<b>3.0</b>	ME 339 Material/Mechanical Lab*	2.0
<b>EPO 319 Facilities Engr Diagnostics Lab</b>	<b>1.0</b>	ME 344 Heat Transfer*	3.0
<b>EPO 321 Diesel Plant Simulator</b>	<b>1.0</b>	ME 392 Mechanical Design*	3.0
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