

(Please inform Student Records if you have decided to follow the ME option.)

CLASS OF 2013
MECHANICAL ENGINEERING MAJOR
ME OPTION - GOLD COMPANY
(OPTIONAL POWER GENERATION MINOR)
CURRICULUM

REVISED 4/28/09
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 2009</u>		
CHE 100	Chemistry I	3.0
CHE 100L	Chemistry I Lab	1.0
EGL 100	English Composition	3.0
ENG 110	Introduction to Engineering and Technology*	1.0
ENG 120	Engineering Communications*	2.0
EPO 110	Plant Operations I	1.0
EPO 125	Introduction to Marine Engineering	3.0
EPO 213	Welding Lab	1.0
MTH 210	Calculus I	4.0
PE 100	Beginning/Intermediate Swimming	(.5)
Total		19.0

<u>SPRING 2010</u>		
DL 105	Marine Survival	1.0
DL 105L	Marine Survival Lab	1.0
DL 105X	USCG Lifeboatman's Exam	0.0
ELEC 20	Critical Thinking Elective	3.0
ELEC 21	Humanities Elective (Lower Division)	3.0
MTH 211	Calculus II	4.0
PHY 200	Engineering Physics I	3.0
PHY 200L	Engineering Physics I Lab	1.0
Total		16.0

<u>SPRING CRUISE 2010</u>		
CRU 150	Sea Training I (Engine)	8.0
EPO 220	Diesel Engineering I	2.0
Total		10.0

<u>FALL 2010</u>		
ENG 210	Engineering Computer Programming	2.0
EPO 210	Plant Operations II	1.0
EPO 215	Manufacturing Processes I	1.0
ME 220	Computer Aided Engineering*	2.0
ME 230	Engineering Materials*	3.0
ME 232	Engineering Statics*	3.0
MTH 212	Calculus III	4.0
PHY 205	Engineering Physics II	4.0
Total		19.0

<u>SPRING 2011</u>		
ENG 250	Electrical Circuits and Electronics*	3.0
ENG 250L	Electrical Circuits and Electronics Lab*	1.0
EPO 214	Boilers	3.0
EPO 230	Steam Plant System Operations	1.0
ME 240	Engineering Thermodynamics*	3.0
ME 330	Engineering Dynamics*	3.0
ME 332	Mechanics of Materials*	3.0
MTH 215	Differential Equations	4.0
Total		17.0

<u>SPRING CO-OP 2011</u>		
CEP 250	ME Co-Op I	8.0
Total		8.0

<u>FALL 2011</u>		
ENG 300	Engineering Numerical Analysis*	4.0
EPO 235	Steam Plant Watch Team Management	1.0
EPO 312	Turbines	3.0
EPO 319	Facilities Engineering Diagnostics Lab	1.0
EPO 321	Diesel Plant Simulator	1.0
ME 340	Engineering Fluid Mechanics*	3.0
ME 350	Electromechanical Machinery*	3.0
ME 350L	Electromechanical Machinery Lab*	1.0
ME 360	Instrumentation and Measurement Systems*	2.0
ME 360L	Instr. and Measurement Systems Lab*	1.0
Total		14.0

<u>SPRING 2012</u>		
EGL 300	Advanced Writing	(3.0)
EPO 310	Plant Operations III	1.0
ME 339	Material/Mechanical Lab*	2.0
ME 344	Heat Transfer*	3.0
ME 392	Mechanical Design*	3.0
ME 460	Automatic Feedback Control*	3.0
ME 460L	Automatic Feedback Control Lab*	1.0
ME 490	Engineering Design Process*	3.0
STEM 1	Stem Course (See Box)*	3.0
Total		18.0

<u>SPRING CO-OP 2012</u>		
CEP 350	ME Co-Op II	8.0
Total		8.0

<u>FALL 2012</u>		
ELEC 8	American Institutions Elective	3.0
ENG 440	Power Engineering*	3.0
ENG 470	Engineering Management*	3.0
ME 349	Fluid/Thermal Lab*	2.0
ME 394	Fluid/Thermal Design*	3.0
ME 492	Project Design I*	3.0
STEM 2	Stem Course (See Box)*	3.0
Total		17.0

<u>SPRING 2013</u>		
ELEC 9	American Institutions Elective	3.0
HUM 310	Engineering Ethics	3.0
ME 342	Refrigeration and Air Conditioning*	3.0
ME 429	Manufacturing Processes Lab*	2.0
ME 494	Project Design II*	3.0
STEM 3	Stem Course (See Box)*	4.0
Total		18.0

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

<u>STEM COURSES</u>	
<u>Energy Design Stem</u>	
ME 440	Advanced Fluids & Thermodynamics (Spring 2012)*
ME 442	Heating, Ventilation, and A/C Design (Fall 2012)*
ME 444	Energy Systems Design (Spring 2013)*
<u>Mechanical Design Stem</u>	
ME 434	Advanced Mechanics of Materials (Spring 2012)*
ME 430	Mechanical Vibrations (Fall 2012)*
ME 432	Machinery Design (Spring 2013)*

