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

CLASS OF 2014
MECHANICAL ENGINEERING MAJOR
ME OPTION – DIVISIONS 1&2
(OPTIONAL POWER GENERATION MINOR)
CURRICULUM

REVISED 4/4/12
Subject to Change

Total Units: 154

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.

FALL 2010

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**

SPRING 2011

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**

SPRING CRUISE 2011

CRU 150 Sea Training I (Engine)		8.0
EPO 220 Diesel Engineering I		2.0
	Total	**10.0**

FALL 2011

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**

SPRING 2012

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**

SPRING CO-OP 2012

CEP 250 ME Co-Op I		3.0
	Total	**3.0**

FALL 2012

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**

SPRING 2013

EGL	300	Advanced Writing	(3.0)
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**

SPRING CO-OP 2013

CEP 350 ME Co-Op II		3.0
	Total	**3.0**

FALL 2013

ELEC	8	American Institutions Elective	3.0
ELEC	31	Social Science Elective (Lower Division)	3.0
ENG	**440**	**Power Engineering**	**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**

SPRING 2014

ELEC	9	American Institutions Elective	3.0
ELEC	22	Humanities Elective (Upper Division)	3.0
ENG	**440L**	**Power Engineering Lab**	**1.0**
HUM	310	Engineering Ethics	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)

STEM COURSES

Energy Design Stem
1 - ME 342 Refrigeration & Air Conditioning (Spring 2013)❋
OR
1 - ME 440 Advanced Fluids & Thermodynamics (Spring 2013)❋
2 - ME 442 Heating, Ventilation, and A/C Design (Fall 2013)❋
3 - ME 444 Energy Systems Design (Spring 2014)❋

Mechanical Design Stem
1 - ME 436 Mechatronic System Design (Spring 2013)❋
2 - ME 430 Mechanical Vibrations (Fall 2013)❋
3 - ME 432 Machinery Design (Spring 2014)❋