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

CLASS OF 2016
MECHANICAL ENGINEERING MAJOR
ME OPTION – DIVISIONS 1&2
(OPTIONAL POWER GENERATION MINOR)
CURRICULUM

REVISED 3/14/14
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 2012

CHE 100	Chemistry I	3.0
CHE 100L	Chemistry I Lab	1.0
EGL 100	English Composition	3.0
ELEC 21	Humanities Elective (Lower Division)	3.0
ENG 110	Introduction to Engineering and Technology❋	1.0
ENG 120	Engineering Communications❋	2.0
MTH 210	Calculus I	4.0
PE 100	Beginning/Intermediate Swimming	(.5)
	Total	**17.0**

SPRING 2013

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
EPO 110	Plant Operations I	1.0
EPO 125	Introduction to Marine Engineering	3.0
EPO 213	Welding Lab	1.0
MTH 211	Calculus II	4.0
PHY 200	Engineering Physics I	3.0
PHY 200L	Engineering Physics I Lab	1.0
	Total	**18.0**

SPRING CRUISE 2013

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

FALL 2013

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 2014

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 2014

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

FALL 2014

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	**Introduction to Power Generation Plants**	**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 2015

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**

SUMMER CO-OP 2015

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

FALL 2015

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 2016

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 2015)❋
OR
1 - ME 440 Advanced Fluids & Thermodynamics (Spring 2015)❋
2 - ME 442 Heating, Ventilation, and A/C Design (Fall 2015)❋
3 - ME 444 Energy Systems Design (Spring 2016)❋

Mechanical Design Stem
1 - ME 436 Mechatronic System Design (Spring 2015)❋
2 - ME 430 Mechanical Vibrations (Fall 2015)❋
3 - ME 432 Machinery Design (Spring 2016)❋