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

CLASS OF 2018
MECHANICAL ENGINEERING MAJOR
ME OPTION – DIVISIONS 1&2
(OPTIONAL POWER GENERATION MINOR)
CURRICULUM

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 2014

CHE 110	General Chemistry	3.0
CHE 110L	General Chemistry 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 2015

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**

SUMMER CRUISE 2015

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

FALL 2015

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 2016

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**

SUMMER CO-OP 2016

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

FALL 2016

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 2017

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 2017

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

FALL 2017

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 2018

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 2017)✱
OR
1 - ME 440 Advanced Fluids & Thermodynamics (Spring 2017)✱
2 - ME 442 Heating, Ventilation, and A/C Design (Fall 2017)✱
3 - ME 444 Energy Systems Design (Spring 2018)✱

Mechanical Design Stem
1 - ME 436 Mechatronic System Design (Spring 2017)✱
2 - ME 430 Mechanical Vibrations (Fall 2017)✱
3 - ME 432 Machinery Design (Spring 2018)✱