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

CLASS OF 2016

REVISED 5/14/13
Subject to Change

MECHANICAL ENGINEERING MAJOR
THIRD ASSISTANT ENGINEER'S LICENSE OPTION
DIVISIONS 3&4
CURRICULUM

Total Units: 164

Third Assistant Engineer's/OICEW License Required For Graduation

THIRD ASSISTANT ENGINEER'S LICENSE 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
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**

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**

FALL 2014

ENG	300	Engineering Numerical Analysis❋	4.0
EPO	**235**	**Steam Plant Watch Team Management▶**	**1.0**
EPO	**312**	**Turbines▶**	**3.0**
EPO	**322**	**Diesel Engineering II/Simulator**	**1.0**
EPO	**322L**	**Diesel Engineering II/Simulator Lab▶**	**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**

FALL 2015

ELEC	8	American Institutions Elective	3.0
ELEC	31	Social Science Elective (Lower Division)	3.0
ENG	**430**	**Naval Architecture▶❋**	**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 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
ELEC	21	Humanities Elective (Lower Division)	3.0
MTH	211	Calculus II	4.0
NSC	**100**	**Naval Science for the MMO**	**3.0**
PHY	200	Engineering Physics I	3.0
PHY	200L	Engineering Physics I Lab	1.0
		Total	**16.0**

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 2015

EGL	300	Advanced Writing	(3.0)
EPO	**310**	**Plant Operations III▶**	**1.0**
FF	**200**	**Basic/Advanced Marine Firefighting▶**	**0.0**
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 2016

ELEC	9	American Institutions Elective	3.0
ELEC	22	Humanities Elective (Upper Division)	3.0
EPO	**217**	**Shipboard Medical▶**	**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**

SPRING CRUISE 2013

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

SPRING CRUISE 2014

CRU	250	Sea Training II	8.0
		Total	**8.0**

SPRING CRUISE 2015

CRU	350	Sea Training III (Engine)▶	8.0
		Total	**8.0**

▶ STCW Courses (Must receive a "C-" or higher, or "CR")
❋ 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)❋