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

CLASS OF 2013
MECHANICAL ENGINEERING MAJOR
THIRD ASSISTANT ENGINEER'S LICENSE OPTION
DIVISIONS 3&4
CURRICULUM

REVISED 3/9/12
Subject to Change

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 2009

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 2010

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 2011

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**
FF	**200**	**Basic/Advanced Marine Firefighting◘▶**	**0.0**
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 2012

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 2010

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 2011

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 2012

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 2013

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 2010

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

SPRING CRUISE 2011

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

SPRING CRUISE 2012

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)
◘ FF 200 Basic/Advanced Marine Firefighting is offered Fall 2011 and Spring 2012

STEM COURSES

Energy Design Stem
1 - ME 342 Refrigeration & Air Conditioning (Spring 2012)❋
OR
1 - ME 440 Advanced Fluids & Thermodynamics (Spring 2012)❋
2 - ME 442 Heating, Ventilation, and A/C Design (Fall 2012)❋
3 - ME 444 Energy Systems Design (Spring 2013)❋

Mechanical Design Stem
1 - ME 436 Mechatronic System Design (Spring 2012)❋
2 - ME 430 Mechanical Vibrations (Fall 2012)❋
3 - ME 432 Machinery Design (Spring 2013)❋