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

CLASS OF 2021
MECHANICAL ENGINEERING MAJOR
THIRD ASSISTANT ENGINEER'S LICENSE OPTION
DIVISIONS 1&2
CURRICULUM

REVISED 4/25/18
Subject to Change

Total Units: 161

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 2017

CHE	110	General Chemistry	3.0
CHE	110L	General Chemistry Lab	1.0
EGL	100	English Composition	3.0
EGL	120	Technical Communication✹	2.0
ENG	110	Introduction to Engineering and Technology✹	1.0
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	101	Swim Competency Exam	0.0
PE	102	Beginning/Intermediate Swimming	(0.5)
		Total	**19.0**

SPRING 2018

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
NAU	104	VPDSD▶	1.0
PHY	200	Engineering Physics I	3.0
PHY	200L	Engineering Physics I Lab	1.0
		Total	**17.0**

SUMMER CRUISE 2018

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

FALL 2018

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 2019

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 CRUISE 2019

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

FALL 2019

ENG	300	Engineering Numerical Modeling & Analysis✹	3.0
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	**13.0**

SPRING 2020

EGL	300	Advanced Writing	(3.0)
EPO	**310**	**Plant Operations III▶**	**1.0**
EPO	**343**	**Refrigeration & A/C▶**	**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▶✹	2.0
ME	460L	Automatic Feedback Control Lab✹	1.0
ME	490	Engineering Design Process✹	3.0
STEM	1	Stem Course (See Box)✹	3.0
		Total	**17.0**

SUMMER CRUISE 2020

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)

FALL 2020

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 2021

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✹	1.0
ME	494	Project Design II✹	3.0
STEM	3	Stem Course (See Box)✹	3.0
		Total	**16.0**

STEM COURSES

Energy Design Stem
1 - ME 440 Advanced Fluids & Thermodynamics (Spring 2020)✹
2 - ME 442 Heating, Ventilation and A/C Design (Fall 2020)✹
3 - ME 444 Energy Systems Design (Spring 2021)✹

Mechanical Design Stem
1 - ME 436 Mechatronic System Design (Spring 2020)✹
2 - ME 430 Mechanical Vibrations (Fall 2020)✹
3 - ME 432 Machinery Design (Spring 2021)✹