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

STUDENTS ENTERING IN 2018

REVISED 11/21/19
Subject to Change

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

Total Units: 162

THIRD ASSISTANT ENGINEER'S LICENSE COURSES ARE BOLDED. ADDITIONAL UNITS MUST BE ADDED TO TOTAL FOR EACH SEMESTER.

FALL 2018

Humanities Elective (Area C2-Lower Div)		3.0
CHE 110	General Chemistry (Area B1)	3.0
CHE 110L	General Chemistry Lab (Area B3)	1.0
EGL 100	English Composition (Area A2)	3.0
EGL 120	Technical Communication❋ (Area A1)	3.0
ENG 110	Introduction to Engineering and Technology❋	1.0
MTH 210	Calculus I (Area B4)	4.0
PE 101	Swim Competency Exam	0.0
PE 102	Beginning/Intermediate Swimming	(0.5)
	Total	**18.0**

SPRING 2019

DL 105	Marine Survival▶	1.0
DL 105L	Marine Survival Lab▶	1.0
DL 105X	USCG Lifeboatman's Exam	0.0
EGL 220	Critical Thinking	3.0
[Critical Thinking Elective] (Area A3)		
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 (Area B4)	4.0
NAU 104	Shipboard Security and Responsibility▶	1.0
PHY 200	Engineering Physics I (Area B1)	3.0
PHY 200L	Engineering Physics I Lab (Area B3)	1.0
	Total	**19.0**

SUMMER CRUISE 2019

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

FALL 2019

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 (Area B4)	4.0
PHY 205	Engineering Physics II (Area B1)	4.0
	Total	**19.0**

SPRING 2020

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 (Area B4)	4.0
	Total	**17.0**

SUMMER CRUISE 2020

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

FALL 2020

Life Science Elective (Area B2)		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**
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	**13.0**

SPRING 2021

EGL 300	Advanced Writing	(3.0)
EPO 310	**Plant Operations III▶**	**1.0**
EPO 343	**Refrigeration & A/C▶**	**1.0**
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 2021

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

FALL 2021

American Institutions I Elective (Area D-Lower Div)		3.0
Social Science Elective (Area D-Lower Div)		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 2022

Humanities Elective (Area C-Upper Div)		3.0
EPO 217	**Shipboard Medical▶**	**1.0**
GOV 200	American Government	3.0
[American Institutions II Elective] (Area D-Lower Div)		
HUM 310	Engineering Ethics (Area C2-Upper Div)	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**

THIRD ASSISTANT ENGINEER'S/OICEW LICENSE REQUIRED FOR GRADUATION

CSU Writing Proficiency Requirements may be met by passing the Graduate Writing Exam, or passing EGL 300 Advanced Writing.

▶ 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 440 Advanced Fluids & Thermodynamics (Spring 2021)❋
2 - ME 442 Heating, Ventilation and A/C Design (Fall 2021)❋
3 - ME 444 Energy Systems Design (Spring 2022)❋

Mechanical Design Stem
1 - ME 436 Mechatronic System Design (Spring 2021)❋
2 - ME 430 Mechanical Vibrations (Fall 2021)❋
3 - ME 432 Machinery Design (Spring 2022)❋