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

### FALL 2020
- **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
- **EPO 125** Introduction to Marine Engineering 3.0
- **ME 394** Fluid/Thermal Design 2.0
- **ME 492** Project Design I 2.0
- **PE 101** Swim Competency Exam 0.0
- **PE 102** Beginning/Intermediate Swimming 0.5

Total 17.0

### SPRING 2021
- **EGL 120** Technical Communication (Area A1) 3.0
- **ENG 110** Introduction to Engineering and Technology 1.0
- **EPO 214** Boilers 3.0
- **ME 320** Computer Aided Engineering 2.0
- **ME 330** Mechanics of Materials 3.0
- **ME 332** Mechanics of Materials 3.0
- **ME 490** Engineering Design Process 1.0
- **ME 492** Project Design I 2.0

Total 17.0

### SUMMER CRUISE 2021
- CRU 150 Sea Training I (Engine) 8.0
- EPO 220 Diesel Engineering I 2.0

Total 10.0

### FALL 2021
- **ENG 210** Engineering Computer Programming 2.0
- **ME 220** Computer Aided Engineering 3.0
- **ME 330** Mechanics of Materials 3.0
- **ME 332** Mechanics of Materials 3.0
- **ME 490** Engineering Design Process 1.0
- **ME 492** Project Design I 2.0
- **PE 101** Swim Competency Exam 0.0
- **PE 102** Beginning/Intermediate Swimming 0.5

Total 19.0

### SPRING 2022
- **EGL 212** English Composition (Area A2) 3.0
- **ENG 210** Engineering Computer Programming 2.0
- **EPO 214** Boilers 3.0
- **ME 330** Mechanics of Materials 3.0
- **ME 332** Mechanics of Materials 3.0
- **ME 490** Engineering Design Process 1.0
- **ME 492** Project Design I 2.0
- **PE 101** Swim Competency Exam 0.0

Total 17.0

### SUMMER CRUISE 2022
- CRU 250 Sea Training II 8.0

Total 8.0

### FALL 2022
- **CHE 110L** General Chemistry Lab (Area B3) 1.0
- **EPO 214** Boilers 3.0
- **ME 220** Computer Aided Engineering 3.0
- **ME 330** Mechanics of Materials 3.0
- **ME 332** Mechanics of Materials 3.0
- **ME 490** Engineering Design Process 1.0
- **ME 492** Project Design I 2.0
- **PE 101** Swim Competency Exam 0.0

Total 13.0

### SPRING 2023
- **EGL 300L** Advanced Writing 3.0
- **EPO 214** Boilers 3.0
- **ME 330** Mechanics of Materials 3.0
- **ME 332** Mechanics of Materials 3.0
- **ME 490** Engineering Design Process 1.0
- **ME 492** Project Design I 2.0
- **PE 101** Swim Competency Exam 0.0

Total 17.0

### SUMMER CRUISE 2023
- CRU 350 Sea Training III (Engine) 8.0

Total 8.0

### FALL 2023
- **ME 394** Fluid/Thermal Design 3.0
- **ME 492** Project Design I 2.0
- **ME 492L** Project Design II Lab 1.0
- **ME 494** Manufacturing Processes Lab 1.0
- **STEM 2** Stem Course (See Box) 1.0

Total 17.0

### SPRING 2024
- **ME 394L** Project Design II Lab 1.0
- **ME 494** Manufacturing Processes Lab 1.0
- **ME 494L** Project Design II Lab 1.0
- **STEM 3** Stem Course (See Box) 1.0

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.

- “G4” “Golden 4” Courses (Must receive a “C-” or higher)
- STCW Courses (Must receive a “C-” or higher, or “CR”)

**STEM COURSES**

### Energy Design Stem
- 1 - ME 440 Advanced Fluids & Thermodynamics (Spring 2023)
- 2 - ME 442 Heating, Ventilation, and A/C Design (Fall 2023)
- 3 - ME 444 Energy Systems Design (Spring 2024)

### Mechanical Design Stem
- 1 - ME 436 Mechatronic System Design (Spring 2023)
- 2 - ME 430 Mechanical Vibrations (Fall 2023)
- 3 - ME 432 Machinery Design (Spring 2024)