## Third Assistant Engineer's License Courses

**Curriculum**

- **Total Units:** 162

**Fall 2021**
- American Institutions I Elective (Area D-Lower Div) 3.0
- Social Science Elective (Area D-Lower Div) 3.0
- CHE 430 Naval Architectures 3.0
- ME 349 Fluid/Thermal Lab 2.0
- ME 394 Fluid/Thermal Design 3.0
- STEM 2 Stem Course (See Box) 3.0
- Total 17.0

**Spring 2022**
- ENG 430 Naval Architecture I 3.0
- ME 349 Fluid/Thermal Lab 2.0
- ME 394 Fluid/Thermal Design 3.0
- STEM 2 Stem Course (See Box) 3.0
- Total 17.0

**Summer 2022**
- STCW Courses (Must receive a “C-“ or higher, or “CR”) 8.0

**Fall 2021**
- American Institutions I Elective (Area D-Lower Div) 3.0
- Social Science Elective (Area D-Lower Div) 3.0
- CHE 430 Naval Architectures 3.0
- ME 349 Fluid/Thermal Lab 2.0
- ME 394 Fluid/Thermal Design 3.0
- STEM 2 Stem Course (See Box) 3.0
- Total 17.0

**Spring 2022**
- ENG 430 Naval Architecture I 3.0
- ME 349 Fluid/Thermal Lab 2.0
- ME 394 Fluid/Thermal Design 3.0
- STEM 2 Stem Course (See Box) 3.0
- Total 17.0

**Summer 2022**
- STCW Courses (Must receive a “C-“ or higher, or “CR”) 8.0

**Third Assistant Engineer's/Officer License Required for Graduation**

- CSU Writing Proficiency Requirements may be met by passing the Graduate Writing Exam, or passing EGL 300 Advanced Writing.
- **Courses in Major (CGPA = 2.0 is required)**
- **STCW Courses (Must receive a “C-“ or higher, or “CR”)**

**Curriculum**

- **Total Units:** 162

**Fall 2018**
- 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 I (Area A1) 3.0
- ENG 110 Introduction to Engineering and Technology 1.0
- EPO 110 Plant Operations I 1.0
- MTH 212 Calculus I (Area B4) 3.0
- PE 101 Swim Competency Exam 0.0
- PE 102 Beginning/Intermediate Swimming 0.5
- Total 19.0

**Spring 2019**
- CHE 110L General Chemistry Lab (Area B3) 1.0
- DL 105L Marine Survival Lab 1.0
- DL 105X USCG Lifeboatman’s Exam 0.0
- EPO 210 Plant Operations II 4.0
- MTH 211 Calculus II (Area B4) 3.0
- PHY 200 Engineering Physics I (Area B1) 1.0
- Total 17.0

**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
- 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 20.0

**Spring 2020**
- ENG 250L Electrical Circuits and Electronics Lab 1.0
- EPO 214 Boilers 3.0
- EPO 230 Steam Plant System Operations 1.0
- EPO 310 Plant Operations III 4.0
- Total 17.0

**Spring Cruise 2020**
- CRU 250 Sea Training II 8.0
- Total 8.0

**Fall 2020**
- ENG 300 Engineering Numerical Modeling & Analysis 3.0
- EPO 310 Plant Operations III 1.0
- EPO 312 Turbines 3.0
- EPO 322 Diesel Engineering I/Simulator 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 Lab 2.0
- ME 360L Instr. and Measurement Systems Lab 3.0
- 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
- 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
- Total 17.0

**Spring Cruise 2021**
- CRU 350 Sea Training III (Engine) 8.0
- Total 8.0

**Fall 2021**
- American Institutions I Elective (Area C-Upper Div) 3.0
- Social Science Elective (Area C-Upper Div) 3.0
- CHE 410L General Chemistry Lab (Area B3) 1.0
- EPO 217 Diesel Engineering I 3.0
- ENG 430 Naval Architectures 3.0
- GOV 200 American Government 1.0
- HUM 310 Engineering Ethics 1.0
- ME 429 Manufacturing Processes Lab 1.0
- Total 16.0

**Spring 2022**
- Humanities Elective (Area C-Upper Div) 3.0
- EPO 217 Shipboard Medical 1.0
- EPO 217 Shipboard Medical 1.0
- Total 10.0

**Summer Cruise 2022**
- CRU 350 Sea Training III (Engine) 8.0
- Total 8.0

**Spring 2023**
- CRU 350 Sea Training III (Engine) 8.0
- Total 8.0

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**Students Entering in 2018 Revised 2/19/19**

**Mechanical Engineering Major**

**Third Assistant Engineer’s License Option**

**Divisions 1 & 2**

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**Note:** 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 2/19/19.

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