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

tion. STUDENTS ENTERING IN 2020 MECHANICAL ENGINEERING MAJOR THIRD ASSISTANT ENGINEER'S LICENSE OPTION

REVISED 1/15/21
Subject to Change

Total Units: 162 DIVISIONS 3&4 CURRICULUM

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

Humanities Elective (Area C2-Lower Div) CHE 110 General Chemistry (Area B1) CHE 110L General Chemistry Lab (Area B3) EGL 100 English Composition (Area A2) "G4" EGL 120 Technical Communication (Area A1) "G4" ENG 110 Introduction to Engineering and Technology FF 200 Basic/Advanced Marine Firefighting MTH 210 Calculus I (Area B4) "G4" PE 101 Swim Competency Exam PE 102 Beginning/Intermediate Swimming	1.0 DL 10 3.0 EGL 22 3.0 [Critical 1.0 EPO 11 0.0 EPO 12 4.0 EPO 21 0.0 MTH 21 (0.5) NAU 10 Total 18.0 PHY 20	Marine Survival Marine Survival Marine Survival Lab Marine Survival Lab St USCG Lifeboatman's Exam Critical Thinking Thinking Elective] (Area A3) "G4" Plant Operations I Introduction to Marine Engineering Welding Lab Calculus II (Area B4) Shipboard Security and Responsibility	1.0 1.0 0.0 3.0 1.0 3.0 1.0 4.0 1.0 3.0	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 EPO 210 Plant Operations II▶ EPO 215 Manufacturing Processes I▶ ME 220 Computer Aided Engineering ▶ ME 230 ME 230 Engineering Materials ME 232 MTH 212 Calculus III (Area B4) PHY 205 Engineering Physics II (Area B1)		Electrical Circuits and Electronics ► ♣ Electrical Circuits and Electronics Lab ► ♣ Boilers ► Steam Plant System Operations ► Engineering Thermodynamics ♣ Engineering Dynamics ♣ Mechanics of Materials ♣	3.0 1.0 3.0 1.0 3.0 3.0 3.0 4.0 Total 17.0	SUMMER CRUISE 2022 CRU 250 Sea Training II 8.0 Total 8.0
FALL 2022 Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab ME 340 Engineering Fluid Mechanics ME 350L Electromechanical Machinery ME 360 Instrumentation and Measurement Systems ME 360L Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Lab FALL 2023 American Institutions I Elective (Area D-Lower Div) Social Science Elective (Area D-Lower Div) ENG 430 Naval Architecture ME 349 Fluid/Thermal Lab ME 394 Fluid/Thermal Design ME 492 Project Design I ME 492 Project Design I STEM 2 Stem Course (See Box)	2.0 ME 49 1.0 STEM Total 13.0 SPRING 3.0 Humanit 3.0 ENG 31 3.0 EPO 21 2.0 GOV 20 3.0 [America 2.0 ME 42 1.0 ME 49	Advanced Writing Plant Operations III Refrigeration & A/C Material/Mechanical Lab Heat Transfer Mechanical Design Mechanical Design Automatic Feedback Control Automatic Feedback Control Lab Engineering Design Process Stem Course (See Box) G2024 GEORGE GEORGE	(3.0) 1.0 1.0 2.0 3.0 3.0 2.0 1.0 3.0 3.0 3.0 3.0 1.0 3.0 1.0 3.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	Total 8.0 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") Courses in Major (CGPA = 2.0 is required) 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)