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

STUDENTS ENTERING IN 2024 MECHANICAL ENGINEERING MAJOR U.S. COAST GUARD THIRD ASSISTANT ENGINEER LICENSE OPTION **DIVISIONS 1&2 CURRICULUM ROADMAP**

Total Units: 172

FALL 2024 CHE 110 General Chemistry (Area B1) CHE 110L General Chemistry Lab (Area B3) EGL 100 English Composition (Area A2) "G4" ENG 110 Introduction to Engineering and Technology# ENG 112 Intro to Technical Communication# (Area A1★)"G4" EPO 110 Plant Operations I▶ EPO 125 Introduction to Marine Engineering EPO 213 Welding Lab▶ MTH 210 Calculus I (Area B4) "G4" PE 101 Swim Competency Exam PE 102 Beginning/Intermediate Swimming	SPRING 2025 3.0 Arts Elective (Area C1-Lower Div) 1.0 DL 105 3.0 DL 105L 3.0 DL 105L 1.0 DL 105X 1.0 DL 105X 1.0 EGL 220 Critical Thinking I. 1.0 Critical Thinking Elective (Area A3) "G4" 3.0 FF 100 Basic Marine Firefighting I. 1.0 ME 220 Computer Aided Design # 1.0 MTH 211 Calculus II (Area B4) 4.0 NAU 104 Shipboard Security and Responsibility 0.0 PHY 200 Engineering Physics I (Area B1) (0.5) PHY 200L Engineering Physics I Lab (Area B3) 19.0 Total	SUMMER SEA TERM 2025 8.0 1.0 CRU 150 Sea Training I (Engine) 8.0 1.0 Total 8.0 1.0 0.0 3.0 10 0.0 2.0 4.0 1.0 1.0 3.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
FALL 2025ENG 210Engineering Computer ProgrammingEPO 210Plant Operations II▶EPO 215Manufacturing Processes I▶EPO 220Diesel Engineering IEPO 220L Diesel Engineering I LabME 230Engineering Materials*ME 232Engineering Statics*MTH 212Calculus III (Area B4)PHY 205Engineering Physics II (Area B1)PHY 205Engineering Physics II Lab	SPRING 2026 2.0 Humanities Elective (Area C2-Lower Div) 1.0 ENG 250 Electrical Circuits and Electronics ▶* 1.0 ENG 250L Electrical Circuits and Electronics Lab ▶* 1.0 EPO 214 Boilers ▶ 1.0 EPO 230 Steam Plant System Operations ▶ 3.0 ME 240 Engineering Thermodynamics * 3.0 ME 330 Engineering Dynamics * 4.0 MTH 215 Differential Equations (Area B4) 3.0 Total	SUMMER SEA TERM 2026 8.0 3.0 CRU 250 Sea Training II 8.0 1.0 Total 8.0 3.0 1.0 3.0 3.0 3.0 3.0 3.0 20.0 1.0
FALL 2026Life Science Elective (Area B2)EPO 235 Steam Plant Watch Team ManagementEPO 312 TurbinesEPO 322 Diesel Engineering II/SimulatorEPO 322L Diesel Engineering II/Simulator LabME 332 Mechanics of MaterialsME 340 Engineering Fluid MechanicsME 360 Instrumentation and Measurement SystemsME 360L Instr. and Measurement Systems LabTotal	SPRING 2027 3.0 Arts OR Humanities Elective (Area C-Lower Div) 1.0 EPO 310 Plant Operations IIII> 3.0 EPO 343 Refrigeration & A/C> 1.0 ME 344 Heat Transfer# 1.0 ME 392 Mechanical Design# 3.0 ME 429 Manufacturing Processes Lab# 3.0 ME 436 Mechatronic System Design I ab # 1.0 ME 490 Engineering Design Process# (Area A1☆) "G4" 18.0 Total	SUMMER SEA TERM 2027 CRU 350 Sea Training III (Engine) ► 8.0 1.0
FALL 2027American Institutions I Elective (Area D-Lower Div)Social Science Elective (Area D-Lower Div)ENG 430 Naval Architecture#ME 350 Electromechanical Machinery#ME 350L Electromechanical Machinery Lab#ME 462 Experimental Methods in ME# (Area A1☆) "G4"ME 492 Project Design I#ME 492L Project Design I Lab#Total	SPRING 2028 3.0 Arts/Humanities Upper Div Elective (Area C-Upper Div) 3.0 CSU Graduate Writing Assessment Requirement (GWAR) Elective 3.0 ENG 310 Engineering Ethics (Area D-Upper Div) 3.0 EPO 217 Shipboard Medical 1.0 FF 300 Advanced Marine Firefighting 1.0 GOV 200 American Government 1.0 American Institutions II Elective (Area D-Lower Div) 2.0 ME 460 1.0 ME 494 1.0 ME 494L Project Design II Lab Total	 GE Area A1 Sequence of Three Courses The CSU Graduate Writing Assessment Requirement (GWAR) may be met by passing one of the following courses: EGL 300 Advanced Writing or EGL 302 Nonfiction Writing. (Must receive a "C-" or higher) STCW Courses (Must receive a "C-" or higher, or "CR") Courses in Major (CGPA = 2.0 is required)

05/09/24 Subject to Change