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

STUDENTS ENTERING IN 2020 MECHANICAL ENGINEERING MAJOR

REVISED 1/15/21 Subject to Change

THIRD ASSISTANT ENGINEER'S LICENSE OPTION DIVISIONS 1&2 CURRICULUM

Total Units: 162

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

FALL 2020 CHE 110 CHE 110L 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 ■ 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	3.0 Human 1.0 DL 3.0 DL 3.0 DL 1.0 EGL 1.0 [Critic 3.0 FF 1.0 MTH 4.0 NAU 0.0 PHY		3.0 1.0 0.0 3.0 4.0 1.0 3.1 Total 17.0	EPO 220 Diesel Engineering I 2.0 Total 10.0
FALL 2021 ENG 210 Engineering Computer Programming EPO 210 Plant Operations II▶ EPO 215 Manufacturing Processes I▶ ME 220 Computer Aided Engineering ME 230 Engineering Materials ME 232 Engineering Statics MTH 212 Calculus III (Area B4) PHY 205 Engineering Physics II (Area B1)	2.0 ENG 1.0 ENG 1.0 EPO 2.0 EPO 3.0 ME 3.0 ME	250L Electrical Circuits and Electronics Lab▶ 214 Boilers▶ 230 Steam Plant System Operations▶ Engineering Thermodynamics Engineering Dynamics Mechanics of Materials 332 Mechanics	3.0 1.0 3.0 1.0 3.0 3.0 4.0 Total 17.0	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 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 492L Project Design I Lab♣ STEM 2 Stem Course (See Box)♣	3.0 EGL 1.0 EPO 3.0 EPO 3.0 ME 1.0 ME 1.0 ME 3.0 ME 3.0 ME 1.0 ME 1.0 STEM Total 13.0 SPRIM 3.0 EPO 2.0 GOV 3.0 [Amer 2.0 ME 1.0 ME	Refrigeration & A/C▶ Refrigeration & A/CԽ Refrigeration & A/CԽ	(3.0 1.0 2.0 3.0 2.0 3.0 3.0 Total 17.0 3.3 1.3 3.3 1.3 2.1 1.3 3.7 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") 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)*