STUDENTS ENTERING IN 2023

Otherwise your Academic Advisement Report will be incorrect. MECHANICAL ENGINEERING MAJOR

06/13/23 Subject to Change

3rd – ME 460 Automatic Feedback Control

ENERGY DESIGN & MECHANICAL DESIGN OPTIONS DIVISIONS 3&4

CURRICULUM ROADMAP

Total Units: 147

Arts Elective (Area C1-Lower Div) 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" FF 100 Basic Marine Firefighting ME 220 Computer Aided Design MTH 210 Calculus I (Area B4) "G4" PE 101 Swim Competency Exam PE 102 Beginning/Intermediate Swimming Total	3.0 3.0 1.0 3.0 1.0 0.0 2.0 4.0 0.0 (0.5)	DL 105 Marine Survival DL 105L Marine Survival Lab DL 105X USCG Lifeboatman's Exam EGL 220 Critical Thinking Critical Thinking Elective (Area A3) "G4" EPO 110 Plant Operations I EPO 125 Introduction to Marine Engineering EPO 125L Introduction to Marine Engineering Lab EPO 213 Welding Lab MTH 211 Calculus II (Area B4) NAU 104 Shipboard Security and Responsibility PHY 200 Engineering Physics I (Area B1) PHY 200L Engineering Physics I Lab (Area B3) Total	1.0 1.0 0.0 3.0 1.0 3.0 1.0 4.0 1.0 3.0 1.0 20.0	SUMMER CRUISE 2024 CRU 150 Sea Training I (Engine) 8.0 EPO 220 Diesel Engineering I 2.0 Total 10.0
FALL 2024 ENG 210 Engineering Computer Programming EPO 215 Manufacturing Processes I ME 230 Engineering Materials ME 232 Engineering Statics MTH 212 Calculus III (Area B4) PHY 205 Engineering Physics II (Area B1) PHY 205L Engineering Physics II Lab Total	2.0 1.0 3.0 3.0 4.0 3.0 1.0 17.0	Humanities Elective (Area C2-Lower Div) ENG 250 Electrical Circuits and Electronics ENG 250L Electrical Circuits and Electronics Lab ME 240 Engineering Thermodynamics ME 330 Engineering Dynamics MTH 215 Differential Equations (Area B4) Total	3.0 3.0 1.0 3.0 3.0 3.0 16.0	SUMMER CO-OP 2025 CEP 250 ME Co-Op I 3.0 Total 3.0
FALL 2025 Arts OR Humanities Elective (Area C-Lower Div) Life Science Elective (Area B2) ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Lab Total	3.0 3.0 3.0 3.0 2.0 1.0 15.0	SPRING 2026 ME 344 Heat Transfer ME 392 Mechanical Design ME 429 Manufacturing Processes Lab ME 436 Mechatronic System Design ME 436L Mechatronic System Design ME 436L Mechatronic System Design Lab ME 490 Engineering Design Process (Area A1★) "G4" Option Specific Course (1st of 3) Total	3.0 3.0 1.0 2.0 1.0 3.0 3.0	SUMMER CO-OP 2026 CEP 350 ME Co-Op II Total 3.0 "G4" "Golden 4" Courses (Must receive a "C-" or higher) ★ GE Area A1 Sequence of Three Courses
FALL 2026 American Institutions I Elective (Area D-Lower Div) OR (Area F) Social Science Elective (Area D-Lower Div) ME 462 Experimental Methods in ME (Area A1*) "G4" ME 462L Experimental Methods in ME Lab* ME 492 Project Design I* ME 492L Project Design I Lab* Option Specific Course (2nd of 3)* Total	3.0 3.0 1.0 1.0 2.0 1.0 3.0 14.0	SPRING 2027 Arts/Humanities Upper Div Elective (Area C-Upper Div) CSU Graduate Writing Assessment Requirement (GWAR) Elective ◆ ENG 310 Engineering Ethics (Area D-Upper Div) GOV 200 American Government American Institutions II Elective (Area D-Lower Div) ME 494 Project Design II ♣ ME 494L Project Design II Lab ♣ Option Specific Course (3rd of 3) ♣ Total	3.0 (3.0) 3.0 3.0 2.0 1.0 3.0	 ♦ 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) ♦ Courses in Major (CGPA = 2.0 is required) OPTION SPECIFIC COURSES Energy Design Option 1st - ME 440 Advanced Fluids & Thermodynamics 2nd - ME 442 Heating, Ventilation, and A/C Design OR ENG 300 Power Engineering 3rd - ME 444 Energy Systems Design Mechanical Design Option 1st - ME 432 Machinery Design 2nd - ME 430 Mechanical Vibrations