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

STUDENTS ENTERING IN 2025 MECHANICAL ENGINEERING MAJOR

11/06/24 Subject to Change

ENERGY DESIGN & MECHANICAL DESIGN OPTIONS DIVISIONS 1&2 CURRICULUM ROADMAP

Total Units: 146

FALL 2025 CHE 110 CHE 110L General Chemistry (Area 5A-Lower Div) EGL 100 English Composition (Area 1A) "G4" ENG 110 Introduction to Engineering and Technology ENG 112 EPO 110 Plant Operations I EPO 125 Introduction to Marine Engineering EPO 125L EPO 213 Welding Lab MTH 210 Calculus I (Area 2-Lower Div) Calculus I (Area 2-Lower Div) "G4" PE 101 Swim Competency Exam PE 102 Beginning/Intermediate Swimming Total	3.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 4.0 0.0 (0.5)	SPRING 2026 Arts Elective (Area 3A-Lower Div) DL 105 Marine Survival DL 105L Marine Survival Lab DL 105X USCG Lifeboatman's Exam EGL 220 Critical Thinking Critical Thinking Elective (Area 1B) "G4" FF 100 Basic Marine Firefighting ME 220 Computer Aided Design* MTH 211 Calculus II (Area 2-Lower Div) NAU 104 Shipboard Security and Responsibility PHY 200 Engineering Physics I (Area 5A-Lower Div) PHY 200L Engineering Physics I Lab (Area 5C-Lower Div) Total	3.0 1.0 1.0 0.0 3.0 0.0 2.0 4.0 1.0 3.0 1.0	SUMMER SEA TERM 2026 CRU 150 Sea Training I (Engine) 8.0 Total 8.0
FALL 2026 ENG 210 Engineering Computer Programming EPO 215 Manufacturing Processes I ME 205 ME 230 Engineering Career Preparation ME 232 Engineering Materials ME 232 Engineering Statics MTH 212 Calculus III (Area 2-Lower Div) PHY 205 Engineering Physics II (Area 5A-Lower Div) PHY 205L Engineering Physics II Lab Total	2.0 1.0 1.0 3.0 3.0 4.0 3.0 1.0	Humanities Elective (Area 3B-Lower Div) ENG 250 Electrical Circuits and Electronics Electronics Lab* ENG 250L Electrical Circuits and Electronics Lab* ME 240 Engineering Thermodynamics* ME 330 Engineering Dynamics* MTH 215 Differential Equations (Area 2-Lower Div)	3.0 3.0 1.0 3.0 3.0 3.0 16.0	SUMMER INTERNSHIP 2027 CEP 250 ME Co-Op I 3.0 Total 3.0
FALL 2027 CSU Graduate Writing Assessment Requirement (GWAR) Elective Life Science Elective Area 5B-Lower Div 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 12.0	SPRING 2028 ME 344 Heat Transfer ME 392 Mechanical Design ME 429 Manufacturing Processes Lab ME 436 Mechatronic System Design ME 436L Mechatronic System Design Lab ME 490 Engineering Design Process (Area 1C☆) "G4" Option Specific Course (1st of 3) Total	3.0 3.0 1.0 2.0 1.0 3.0 3.0	SUMMER INTERNSHIP 2028 CEP 350 ME Co-Op II 3.0 Total 3.0 "G4" "Golden 4" Courses (Must receive a "C-" or higher) ★ GE Area IC Sequence of Two Courses
FALL 2028 HIS 100 U.S. History (to 1877) OR HIS 101 U.S. History (from 1877) American Institutions I Elective (Area 4-Lower Div) OR (Area 6) Social Science Elective (Area 4-Lower Div) ME 405 Fundamentals of Engineering Exam Seminar* ME 462 Experimental Methods in ME* ME 492 Project Design I* ME 492 Project Design I Lab* Option Specific Course (2nd of 3)* Total	3.0 3.0 1.0 2.0 1.0 2.0 1.0 3.0 16.0	SPRING 2029 Arts/Humanities Elective (Area 3-Upper Div) ENG 310 Engineering Ethics (Area 4-Upper Div) GOV 200 American Government American Institutions II Elective (Area 4-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 2.0 1.0 3.0 15.0	↑ 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 Ist — 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
The state of the s		Humanities Physical and Biological Sciences Behavioral Sciences Ethnic Studies		Mechanical Design Option Ist — ME 432 Machinery Design 2nd — ME 430 Mechanical Vibrations 3rd — ME 460 Automatic Feedback Control