

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

STUDENTS ENTERING IN 2022
MECHANICAL ENGINEERING MAJOR
GENERAL OPTION
DIVISIONS 1&2
CURRICULUM ROADMAP

06/20/22
Subject to Change

Total Units: 147

FALL 2022	SPRING 2023	SUMMER CRUISE 2023
CHE 110 General Chemistry (Area B1) 3.0	Arts Elective (Area C1-Lower Div) 3.0	CRU 150 Sea Training I (Engine) 8.0
CHE 110L General Chemistry Lab (Area B3) 1.0	DL 105 Marine Survival 1.0	EPO 220 Diesel Engineering I 2.0
EGL 100 English Composition (Area A2) "G4" 3.0	DL 105L Marine Survival Lab 1.0	Total 10.0
ENG 110 Introduction to Engineering and Technology* 1.0	DL 105X USCG Lifeboatman's Exam 0.0	
EPO 110 Plant Operations I 1.0	EGL 220 Critical Thinking 3.0	
EPO 125 Introduction to Marine Engineering 3.0	Critical Thinking Elective (Area A3) "G4" 1.0	
EPO 125L Introduction to Marine Engineering Lab 1.0	ENG 112 Intro to Technical Communication* (Area A1★) "G4" 1.0	
EPO 213 Welding Lab 1.0	FF 100 Basic Marine Firefighting 0.0	
MTH 210 Calculus I (Area B4) "G4" 4.0	ME 220 Computer Aided Design* 2.0	
PE 101 Swim Competency Exam 0.0	MTH 211 Calculus II (Area B4) 4.0	
Total 18.0	NAU 104 Shipboard Security and Responsibility 1.0	
	PHY 200 Engineering Physics I (Area B1) 3.0	
	PHY 200L Engineering Physics I Lab (Area B3) 1.0	
	Total 20.0	
FALL 2023	SPRING 2024	SUMMER CO-OP 2024
ENG 210 Engineering Computer Programming 2.0	Humanities Elective (Area C2-Lower Div) 3.0	CEP 250 ME Co-Op I 3.0
EPO 215 Manufacturing Processes I 1.0	ENG 250 Electrical Circuits and Electronics* 3.0	Total 3.0
ME 230 Engineering Materials* 3.0	ENG 250L Electrical Circuits and Electronics Lab* 1.0	
ME 232 Engineering Statics* 3.0	ME 240 Engineering Thermodynamics* 3.0	
MTH 212 Calculus III (Area B4) 4.0	ME 330 Engineering Dynamics* 3.0	
PHY 205 Engineering Physics II (Area B1) 4.0	MTH 215 Differential Equations (Area B4) 3.0	
Total 17.0	Total 16.0	
FALL 2024	SPRING 2025	SUMMER CO-OP 2025
Arts OR Humanities Elective (Area C-Lower Div) 3.0	ME 344 Heat Transfer* 3.0	CEP 350 ME Co-Op II 3.0
Life Science Elective (Area B2) 3.0	ME 392 Mechanical Design* 3.0	Total 3.0
ME 332 Mechanics of Materials* 3.0	ME 429 Manufacturing Processes Lab* 1.0	
ME 340 Engineering Fluid Mechanics* 3.0	ME 436 Mechatronic System Design* 2.0	
ME 360 Instrumentation and Measurement Systems* 2.0	ME 436L Mechatronic System Design Lab* 1.0	
ME 360L Instr. and Measurement Systems Lab* 1.0	ME 490 Engineering Design Process* (Area A1★) "G4" 3.0	
Total 15.0	Emphasis Specific Course (1st of 3)* 3.0	
	Total 16.0	
FALL 2025	SPRING 2026	
American Institutions I Elective (Area D-Lower Div) OR (Area F) 3.0	Arts/Humanities Upper Div Elective (Area C-Upper Div) 3.0	
Social Science Elective (Area D-Lower Div) 3.0	CSU Graduate Writing Assessment Requirement (GWAR) Elective♦ (3.0)	
ME 462 Experimental Methods in ME* (Area A1★) "G4" 1.0	ENG 310 Engineering Ethics (Area D-Upper Div) 3.0	
ME 462L Experimental Methods in ME Lab* 1.0	GOV 200 American Government 3.0	
ME 492 Project Design I* 2.0	American Institutions II Elective (Area D-Lower Div) 2.0	
ME 492L Project Design I Lab* 1.0	ME 494 Project Design II* 1.0	
Emphasis Specific Course (2nd of 3)* 3.0	ME 494L Project Design II Lab* 1.0	
Total 14.0	Emphasis Specific Course (3rd of 3)* 3.0	
	Total 15.0	

"G4" "Golden 4" Courses (Must receive a "C-" or higher)

★ 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)

* Courses in Major (CGPA = 2.0 is required)

EMPHASIS SPECIFIC COURSES

Energy Design Emphasis

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 Emphasis

1st – ME 432 Machinery Design
 2nd – ME 430 Mechanical Vibrations
 3rd – ME 460 Automatic Feedback Control