

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

STUDENTS ENTERING IN 2021
MECHANICAL ENGINEERING MAJOR
GENERAL OPTION
DIVISIONS 1&2
CURRICULUM ROADMAP

8/23/21
 Subject to Change

Total Units: 147

FALL 2021

CHE 110	General Chemistry (Area B1)	3.0
CHE 110L	General Chemistry Lab (Area B3)	1.0
EGL 100	English Composition (Area A2) "G4"	3.0
ENG 110	Introduction to Engineering and Technology*	1.0
EPO 110	Plant Operations I	1.0
EPO 125	Introduction to Marine Engineering	3.0
EPO 125L	Introduction to Marine Engineering Lab	1.0
EPO 213	Welding Lab	1.0
MTH 210	Calculus I (Area B4) "G4"	4.0
PE 101	Swim Competency Exam	0.0

Total 18.0

SPRING 2022

Arts Elective (Area C1-Lower Div)	3.0	
DL 105	Marine Survival	1.0
DL 105L	Marine Survival Lab	1.0
DL 105X	USCG Lifeboatman's Exam	0.0
EGL 220	Critical Thinking	3.0
Critical Thinking Elective (Area A3) "G4"		
ENG 112	Intro to Technical Communication*	1.0
(Area A1☆) "G4"		
FF 100	Basic Marine Firefighting	0.0
ME 220	Computer Aided Design*	2.0
MTH 211	Calculus II (Area B4)	4.0
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

SUMMER CRUISE 2022

CRU 150	Sea Training I (Engine)	8.0
EPO 220	Diesel Engineering I	2.0

Total 10.0

FALL 2022

ENG 210	Engineering Computer Programming	2.0
EPO 215	Manufacturing Processes I	1.0
ME 230	Engineering Materials*	3.0
ME 232	Engineering Statics*	3.0
MTH 212	Calculus III (Area B4)	4.0
PHY 205	Engineering Physics II (Area B1)	4.0

Total 17.0

SPRING 2023

Humanities Elective (Area C2-Lower Div)	3.0	
ENG 250	Electrical Circuits and Electronics*	3.0
ENG 250L	Electrical Circuits and Electronics Lab*	1.0
ME 240	Engineering Thermodynamics*	3.0
ME 330	Engineering Dynamics*	3.0
MTH 215	Differential Equations (Area B4)	3.0

Total 16.0

SUMMER CO-OP 2023

CEP 250	ME Co-Op I	3.0
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Total 3.0

FALL 2023

Arts OR Humanities Elective (Area C-Lower Div)	3.0	
Life Science Elective (Area B2)	3.0	
ME 332	Mechanics of Materials*	3.0
ME 340	Engineering Fluid Mechanics*	3.0
ME 360	Instrumentation and Measurement Systems*	2.0
ME 360L	Instr. and Measurement Systems Lab*	1.0

Total 15.0

SPRING 2024

ME 344	Heat Transfer*	3.0
ME 392	Mechanical Design*	3.0
ME 429	Manufacturing Processes Lab*	1.0
ME 436	Mechatronic System Design*	2.0
ME 436L	Mechatronic System Design Lab*	1.0
ME 490	Engineering Design Process*	3.0
(Area A1☆) "G4"		
Emphasis Specific Course (1st of 3)*		3.0

Total 16.0

SUMMER CO-OP 2024

CEP 350	ME Co-Op II	3.0
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Total 3.0

FALL 2024

American Institutions I Elective (Area D-Lower Div) OR (Area F)	3.0	
Social Science Elective (Area D-Lower Div)	3.0	
ME 462	Experimental Methods in ME*	1.0
(Area A1☆) "G4"		
ME 462L	Experimental Methods in ME Lab*	1.0
ME 492	Project Design I*	2.0
ME 492L	Project Design I Lab*	1.0
Emphasis Specific Course (2nd of 3)*		3.0

Total 14.0

SPRING 2025

Arts/Humanities Upper Div Elective (Area C-Upper Div)	3.0	
EGL 300	Advanced Writing♦	(3.0)
ENG 310	Engineering Ethics (Area D-Upper Div)	3.0
GOV 200	American Government	3.0
American Institutions II Elective (Area D-Lower Div)		
ME 494	Project Design II*	2.0
ME 494L	Project Design II Lab*	1.0
Emphasis Specific Course (3rd of 3)*		3.0

Total 15.0

CSU Writing Proficiency Requirements may be met by passing the Graduate Writing Exam (GWE) or passing EGL 300 Advanced Writing.

- ♦ Meets CSU Graduate Writing Assessment Requirement (GWAR). (Must receive a "C-" or higher)
- "G4" "Golden 4" Courses (Must receive a "C-" or higher)
- ☆ GE Area A1 Sequence of Three Courses
- * 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