

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
 ME OPTION – DIVISIONS 1&2
 CURRICULUM**

REVISED 1/15/21
 Subject to Change

Total Units: 152

FALL 2020

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
EGL 120	Technical Communication* (Area A1) "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 213	Welding Lab	1.0
MTH 210	Calculus I (Area B4) "G4"	4.0
PE 101	Swim Competency Exam	0.0
PE 102	Beginning/Intermediate Swimming	(0.5)
Total		20.0

SPRING 2021

Humanities Elective (Area C2-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"		
FF 200	Basic/Advanced Marine Firefighting	0.0
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		17.0

SUMMER CRUISE 2021

CRU 150	Sea Training I (Engine)	8.0
EPO 220	Diesel Engineering I	2.0
Total		10.0

FALL 2021

ENG 210	Engineering Computer Programming	2.0
EPO 215	Manufacturing Processes I	1.0
ME 220	Computer Aided Engineering*	2.0
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		19.0

SPRING 2022

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
ME 332	Mechanics of Materials*	3.0
MTH 215	Differential Equations (Area B4)	4.0
Total		17.0

SUMMER CO-OP 2022

CEP 250	ME Co-Op I	3.0
Total		3.0

FALL 2022

Life Science Elective (Area B2)	3.0	
ME 340	Engineering Fluid Mechanics*	3.0
ME 350	Electromechanical Machinery*	3.0
ME 350L	Electromechanical Machinery Lab*	1.0
ME 360	Instrumentation and Measurement Systems*	2.0
ME 360L	Instr. and Measurement Systems Lab*	1.0
Total		13.0

SPRING 2023

EGL 300	Advanced Writing	(3.0)
ME 339	Material/Mechanical Lab*	2.0
ME 344	Heat Transfer*	3.0
ME 392	Mechanical Design*	3.0
ME 460	Automatic Feedback Control*	2.0
ME 460L	Automatic Feedback Control Lab*	1.0
ME 490	Engineering Design Process*	3.0
STEM 1	Stem Course (See Box)*	3.0
Total		17.0

SUMMER CO-OP 2023

CEP 350	ME Co-Op II	3.0
Total		3.0

FALL 2023

American Institutions I Elective (Area D-Lower Div)	3.0	
Social Science Elective (Area D-Lower Div)	3.0	
ME 349	Fluid/Thermal Lab*	2.0
ME 394	Fluid/Thermal Design*	3.0
ME 492	Project Design I*	2.0
ME 492L	Project Design I Lab*	1.0
STEM 2	Stem Course (See Box)*	3.0
Total		17.0

SPRING 2024

Humanities Elective (Area C-Upper Div)	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 429	Manufacturing Processes Lab*	1.0
ME 494	Project Design II*	2.0
ME 494L	Project Design II Lab*	1.0
STEM 3	Stem Course (See Box)*	3.0
Total		16.0

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)
 * 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)*

Mechanical Design Stem

- 1 - ME 436 Mechatronic System Design (Spring 2023)*
- 2 - ME 430 Mechanical Vibrations (Fall 2023)*
- 3 - ME 432 Machinery Design (Spring 2024)*