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 3&4
CURRICULUM

REVISED 1/15/21
Subject to Change

Total Units: 152

FALL 2020

Humanities Elective (Area C2-Lower Div)			3.0
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
FF	200	Basic/Advanced Marine Firefighting	0.0
MTH	210	Calculus I (Area B4) **"G4"**	4.0
PE	101	Swim Competency Exam	0.0
PE	102	Beginning/Intermediate Swimming	(0.5)
		Total	**18.0**

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**

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**

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 2021

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"**			
EPO	110	Plant Operations I	1.0
EPO	125	Introduction to Marine Engineering	3.0
EPO	213	Welding Lab	1.0
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	**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**

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**

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**

SUMMER CRUISE 2021

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

SUMMER CO-OP 2022

CEP	250	ME Co-Op I	3.0
		Total	**3.0**

SUMMER CO-OP 2023

CEP	350	ME Co-Op II	3.0
		Total	**3.0**

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)❁