

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

**STUDENTS ENTERING IN 2019
 MECHANICAL ENGINEERING MAJOR
 ME OPTION – DIVISIONS 3&4
 CURRICULUM**

**REVISED 11/21/19
 Subject to Change**

Total Units: 152

FALL 2019		SPRING 2020		SUMMER CRUISE 2020	
Humanities Elective (Area C2-Lower Div)	3.0	DL 105 Marine Survival	1.0	CRU 150 Sea Training I (Engine)	8.0
CHE 110 General Chemistry (Area B1)	3.0	DL 105L Marine Survival Lab	1.0	EPO 220 Diesel Engineering I	2.0
CHE 110L General Chemistry Lab (Area B3)	1.0	DL 105X USCG Lifeboatman's Exam	0.0	Total	10.0
EGL 100 English Composition (Area A2) "G4"	3.0	EGL 220 Critical Thinking	3.0		
EGL 120 Technical Communication* (Area A1) "G4"	3.0	[Critical Thinking Elective] (Area A3) "G4"			
ENG 110 Introduction to Engineering and Technology*	1.0	EPO 110 Plant Operations I	1.0		
FF 200 Basic/Advanced Marine Firefighting	0.0	EPO 125 Introduction to Marine Engineering	3.0		
MTH 210 Calculus I (Area B4) "G4"	4.0	EPO 213 Welding Lab	1.0		
PE 101 Swim Competency Exam	0.0	MTH 211 Calculus II (Area B4)	4.0		
PE 102 Beginning/Intermediate Swimming	(0.5)	NAU 104 Shipboard Security and Responsibility	1.0		
Total	18.0	PHY 200 Engineering Physics I (Area B1)	3.0		
		PHY 200L Engineering Physics I Lab (Area B3)	1.0		
		Total	19.0		
FALL 2020		SPRING 2021		SUMMER CO-OP 2021	
ENG 210 Engineering Computer Programming	2.0	ENG 250 Electrical Circuits and Electronics*	3.0	CEP 250 ME Co-Op I	3.0
EPO 215 Manufacturing Processes I	1.0	ENG 250L Electrical Circuits and Electronics Lab*	1.0	Total	3.0
ME 220 Computer Aided Engineering*	2.0	ME 240 Engineering Thermodynamics*	3.0		
ME 230 Engineering Materials*	3.0	ME 330 Engineering Dynamics*	3.0		
ME 232 Engineering Statics*	3.0	ME 332 Mechanics of Materials*	3.0		
MTH 212 Calculus III (Area B4)	4.0	MTH 215 Differential Equations (Area B4)	4.0		
PHY 205 Engineering Physics II (Area B1)	4.0	Total	17.0		
Total	19.0				
FALL 2021		SPRING 2022		SUMMER CO-OP 2022	
Life Science Elective (Area B2)	3.0	EGL 300 Advanced Writing	(3.0)	CEP 350 ME Co-Op II	3.0
ME 340 Engineering Fluid Mechanics*	3.0	ME 339 Material/Mechanical Lab*	2.0	Total	3.0
ME 350 Electromechanical Machinery*	3.0	ME 344 Heat Transfer*	3.0		
ME 350L Electromechanical Machinery Lab*	1.0	ME 392 Mechanical Design*	3.0		
ME 360 Instrumentation and Measurement Systems*	2.0	ME 460 Automatic Feedback Control*	2.0		
ME 360L Instr. and Measurement Systems Lab*	1.0	ME 460L Automatic Feedback Control Lab*	1.0		
Total	13.0	ME 490 Engineering Design Process*	3.0		
		STEM 1 Stem Course (See Box)*	3.0		
		Total	17.0		
FALL 2022		SPRING 2023		<p>CSU Writing Proficiency Requirements may be met by passing the Graduate Writing Exam, or passing EGL 300 Advanced Writing.</p> <p>"G4" "Golden 4" Courses (Must receive a "C-" or higher) * Courses in Major (CGPA = 2.0 is required)</p> <p>STEM COURSES</p> <p>Energy Design Stem 1 - ME 440 Advanced Fluids & Thermodynamics (Spring 2022)* 2 - ME 442 Heating, Ventilation, and A/C Design (Fall 2022)* 3 - ME 444 Energy Systems Design (Spring 2023)*</p> <p>Mechanical Design Stem 1 - ME 436 Mechatronic System Design (Spring 2022)* 2 - ME 430 Mechanical Vibrations (Fall 2022)* 3 - ME 432 Machinery Design (Spring 2023)*</p>	
American Institutions I Elective (Area D-Lower Div)	3.0	Humanities Elective (Area C-Upper Div)	3.0		
Social Science Elective (Area D-Lower Div)	3.0	GOV 200 American Government	3.0		
ME 349 Fluid/Thermal Lab*	2.0	[American Institutions II Elective] (Area D-Lower Div)			
ME 394 Fluid/Thermal Design*	3.0	HUM 310 Engineering Ethics (Area C2-Upper Div)	3.0		
ME 492 Project Design I*	2.0	ME 429 Manufacturing Processes Lab*	1.0		
ME 492L Project Design I Lab*	1.0	ME 494 Project Design II*	2.0		
STEM 2 Stem Course (See Box)*	3.0	ME 494L Project Design II Lab*	1.0		
Total	17.0	STEM 3 Stem Course (See Box)*	3.0		
		Total	16.0		