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

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

FALL 2022
SPRING 2022
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
MTH 211 Calculus II (Area B4) 4.0
PE 101 Swim Competency Exam 0.0
Total 20.0

FALL 2023
SPRING 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
ME 392 Mechanical Design 3.0
ME 429 Manufacturing Processes Lab 1.0
ME 436 Mechatronic System Design Lab 1.0
ME 436L Mechatronic System Design Lab 1.0
ME 490 Engineering Design Process 3.0
Total 15.0

FALL 2024
SPRING 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 3.0
ME 462L Experimental Methods in ME Lab 1.0
ME 492 Project Design I 2.0
ME 492L Project Design I Lab 1.0
ME 494L Project Design II Lab 1.0
ME 494 Project Design II Lab 2.0
Total 14.0

SUMMER CRUISE 2022
CRU 150 Sea Training I (Engine) 8.0
EPO 220 Diesel Engineering I 2.0
Total 10.0

SUMMER CO-OP 2023
CEP 250 ME Co-Op I 3.0
Total 3.0

SUMMER CO-OP 2024
CEP 350 ME Co-Op II 3.0
Total 3.0

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)
◆ “G” 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 Air Conditioning 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