

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**

5/4/20
 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 | |
| GOV 200 | American Government | 3.0 |
| [American Institutions II Elective] (Area D-Lower Div) | | |
| HUM 310 | Engineering Ethics (Area C2-Upper Div) | 3.0 |
| 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)*