

**STUDENTS ENTERING IN 2022  
FACILITIES ENGINEERING TECHNOLOGY MAJOR  
DIVISIONS 3&4  
CURRICULUM ROADMAP**

**08/18/22  
Subject to Change**

**Total Units: 153**

| <u>FALL 2022</u>  | <u>SPRING 2023</u>   | <u>SUMMER CRUISE 2023</u>  |
|---|--|----------------------------|
| American Institutions I Elective (Area D-Lower Div) or (Area F) | 3.0 CHE 205 Chemistry of Plant Processes* (Area B1)                    | 3.0 CRU 150 Sea Training I |
| Humanities Elective (Area C2-Lower Div)                         | 3.0 DL 105 Marine Survival   | 1.0                        |
| CHE 110 General Chemistry (Area B1)                             | 3.0 DL 105L Marine Survival Lab  | 1.0                        |
| CHE 110L General Chemistry Lab (Area B3)                        | 1.0 DL 105X USCG Lifeboatman's Exam                                    | 0.0                        |
| ENG 100 Engineering Graphics                                    | 2.0 EGL 100 English Composition (Area A2) "G4"                         | 3.0                        |
| ET 110 Introduction to Engineering Technology*                  | 1.0 EPO 110 Plant Operations I   | 1.0                        |
| FF 100 Basic Marine Firefighting                                | 0.0 EPO 125 Introduction to Marine Engineering*                        | 3.0                        |
| (MTH 100 College Algebra and Trigonometry) ○                    | (4.0) EPO 125L Introduction to Marine Engineering Lab*                 | 1.0                        |
| PE 101 Swim Competency Exam                                     | 0.0 EPO 213 Welding Lab  | 1.0                        |
| PE 102 Beginning/Intermediate Swimming                          | (0.5) MTH 210 Calculus I (Area B4)                                     | 4.0                        |
| <b>Total</b>  | 13.0 NAU 104 Shipboard Security and Responsibility                     | 1.0                        |
|   | <b>Total</b>   | <b>19.0</b>                |
|   |  |                            |
| <u>FALL 2023</u>  | <u>SPRING 2024</u>   | <u>SUMMER CO-OP 2024</u>   |
| COM 220L Programming Applications for ET Majors Lab             | 1.0 EGL 110 Speech Communication (Area A1) "G4"                        | 3.0 CEP 270 FET Co-Op I    |
| EGL 220 Critical Thinking                                       | 3.0 EPO 235 Steam Plant Watch Team Management*                         | 1.0                        |
| [Critical Thinking Elective] (Area A3) "G4"                     | EPO 312 Turbines*  | 3.0                        |
| EPO 210 Plant Operations II                                     | 1.0 ET 230 Properties of Materials*                                    | 2.0                        |
| EPO 214 Boilers*  | 3.0 ET 232 Statics*  | 3.0                        |
| EPO 215 Manufacturing Processes I                               | 1.0 LIB 100 Information Fluency in the Digital World                   | 2.0                        |
| EPO 230 Steam Plant System Operations*                          | 1.0 PHY 205 Engineering Physics II (Area B1)                           | 4.0                        |
| MTH 211 Calculus II (Area B4)                                   |  | <b>Total</b>               |
| PHY 200 Engineering Physics I (Area B1)                         |  | <b>18.0</b>                |
| PHY 200L Engineering Physics I Lab (Area B3)                    |  |                            |
| <b>Total</b>  | <b>18.0</b>  |                            |
|   |  |                            |
| <u>FALL 2024</u>  | <u>SPRING 2025</u>   | <u>SUMMER CO-OP 2025</u>   |
| Humanities Elective (Area C-Upper Div)                          | 3.0 CSU Graduate Writing Assessment Requirement (GWAR) Elective♦ (3.0) | 3.0 CEP 370 FET Co-Op II   |
| EPO 319 Facilities Engineering Diagnostics Lab*                 | 1.0 Life Science Elective (Area B2)                                    | 3.0                        |
| ET 230L Properties of Materials Lab*                            | 1.0 EPO 310 Plant Operations III                                       | 1.0                        |
| ET 250 Electrical Circuits*                                     | 3.0 EPO 315 Manufacturing Processes II                                 | 1.0                        |
| ET 250L Electrical Circuits Lab*                                | 1.0 EPO 321 Introduction to Power Generation Plants*                   | 1.0                        |
| ET 330 Dynamics*  | 3.0 ET 340 Fluid Mechanics*  | 3.0                        |
| ET 332 Strength of Materials*                                   | 3.0 ET 340L Fluid Mechanics Lab*                                       | 1.0                        |
| ET 344 Thermodynamics*  | 3.0 ET 342 Refrigeration and Air Conditioning*                         | 2.0                        |
| <b>Total</b>  | 18.0 ET 342L Refrigeration and Air Conditioning Lab*                   | 1.0                        |
|   | ET 370 Electronics*  | 3.0                        |
|   | ET 370L Electronics Lab*   | 1.0                        |
|   | <b>Total</b>   | <b>17.0</b>                |
|   |  |                            |
| <u>FALL 2025</u>  | <u>SPRING 2026</u>   |                            |
| ENG 470 Engineering Management*                                 | 3.0 Arts Elective (Area C1-Lower Div)                                  | 3.0                        |
| ET 350 Electrical Machinery*                                    | 3.0 ENG 310 Engineering Ethics (Area D-Upper Div)                      | 3.0                        |
| ET 350L Electrical Machinery Lab*                               | 1.0 ENG 472 Facilities Management*                                     | 3.0                        |
| ET 400 Instrumentation and Measurement*                         | 3.0 ET 460 Automation*   | 3.0                        |
| ET 400L Instrumentation and Measurement Lab*                    | 1.0 ET 460L Automation Lab*  | 1.0                        |
| ET 442 Heating, Ventilating and A/C*                            | 2.0 ET 490 Power Engineering Technology*                               | 3.0                        |
| ET 442L Heating, Ventilating and A/C Lab*                       | 1.0 ET 490L Power Engineering Technology Lab*                          | 1.0                        |
| GOV 200 American Government                                     | 3.0  | <b>Total</b>               |
| [American Institutions II Elective] (Area D-Lower Div)          |  | <b>17.0</b>                |

“G4” “Golden 4” Courses (Must receive a “C-” or higher)

♦ The CSU Graduate Writing Assessment Requirement (GWAR) may be met by passing one of the following courses: EGL 300 Advanced Writing or EGL 302 Nonfiction Writing. (Must receive a “C-” or higher)

\* Courses in Major (CGPA = 2.0 is required)

○ **REMINDER:** Take MTH 100 College Algebra and Trigonometry in Fall 2022 if student is not calc-ready for MTH 210 Calculus I.