

FACILITIES ENGINEERING TECHNOLOGY (BS)

Facilities Engineering Technology - Division 1 & 2

Division 1 & 2 - BS in Facilities Engineering Technology

Suggested Four-Year Flowcharts are planning guides and do not represent a required course sequence.

Courses may be completed in a different order, provided requisite requirements are satisfied.

First Year

Term 1		Units
EPO 1110	Plant Operations I	1
EPO 1125 & 1125L	Intro To Marine Engineering and Intro To Marine Engineering Lab	4
EPO 2213	Welding Lab	1
ET 1110	Introduction To Engineering Technology	1
CHE 1110 & 1110L	General Chemistry and General Chemistry Laboratory (5A & 5C) ¹	4
EGL 1110	Speech Communication (1C) ¹	3
ENG 1100	Engineering Graphics	2
PE 1101	Swim Competency Exam ²	0
General Education Requirement (3B)		3

Units **19**

Term 2		Units
CHE 2205	Chemistry of Power Plant Processes	3
DL 1105 & 1105L	Marine Survival and Marine Survival Laboratory	2
DL 1105X	United States Coast Guard Lifeboatman's Exam	0
EGL 1100	English Composition (1A) ¹	3
FF 1100	Basic Marine Firefighting	0
GOV 2200	American Government (4A) ¹	3
LIB 1100	Information Fluency In The Digital World	2
MTH 2210	Calculus I (2) ¹	4
NAU 1104	Shipboard Security And Responsibility	1

Units **18**

Term 3		Units
CRU 1150	Sea Training I - Engine	8

Units **8**

Second Year

Term 1		Units
COM 2220L	Programming Applications for Engineering Technology Lab	1
EPO 2210	Plant Operations Ii	1
EPO 2214	Boilers	3
EPO 2215	Manufacturing Processes I	1
EPO 2230	Steam Plant System Operations	1
EGL 2220	Critical Thinking (1B) ¹	3
MTH 2211	Calculus Ii	4
PHY 2200 & 2200L	Engineering Physics I and Engineering Physics I Lab	4

Units **18**

Term 2		Units
EPO 2220 & 2220L	Diesel Engineering I and Diesel Engineering I Lab	2
EPO 2235	Steam Plant Watch Team Management	1
EPO 3312	Turbines	3
ET 2230	Properties Of Materials	2
ET 2232	Statics	3
PHY 2205 & 2205L	Engineering Physics Ii and Engineering Physics Ii Lab	4
General Education Requirement		3

Units **18**

Term 3		Units
CEP 2270	Facilities Engineering Technology Industry Cooperative I	3

Units **3**

Third Year

Term 1		
EPO 3319	Facilities Engineering Diagnostics Lab	1
ET 2230L	Properties Of Materials Lab	1
ET 2250 & 2250L	Electrical Circuits and Electrical Circuits Lab	4
ET 3330	Dynamics	3
ET 3332	Strength Of Materials	3
ET 3344	Thermodynamics	3
General Education Requirement		3
Units		18

Term 2		
EPO 3310	Plant Operations III	1
EPO 3315	Manufacturing Processes Ii	1
EPO 3321	Introduction To Power Generation Plants	1
ET 3340 & 3340L	Fluid Mechanics and Fluid Mechanics Lab	4
ET 3342 & 3342L	Refrigeration And A/C and Refrigeration And A/C Lab	3
ET 3370 & 3370L	Electronics and Electronics Lab	4
General Education Requirement		3
Units		17

Term 3		
CEP 3370	Facilities Engineering Technology Industry Cooperative II	3
Units		3

Fourth Year

Term 1		
ET 3350 & 3350L	Electrical Machinery and Electrical Machinery Lab	4
ET 4400 & 4400L	Inst & Measure Sys and Inst & Measure Sys Lab	4
ET 4442 & 4442L	Heating Ventilating A/C and Heating Ventilating A/C Lab	3
ET 4470	Engineering Management	3
General Education Requirement		3
General Education Requirement		3
Units		20

Term 2		
ET 4460 & 4460L	Automation and Automation Lab	4
ET 4490 & 4490L	Power Engineering Tech and Power Engineering Tech Lab	4
ENG 3310	Engineering Ethics (Upper-Division 4) ¹	3
ENG 4472	Facilities Management	3
General Education Requirement		3

Units		17
Total Units		159

¹ Required in Major or Support; also satisfies General Education (GE) requirement.

² Swim assessments are required of all cadets during Orientation week. If PE 1101 is not passed with a grade CR, then enrollment in PE 1102 will be required.

Facilities Engineering Technology - Division 3 & 4

Division 3 & 4 - BS in Facilities Engineering Technology

Suggested Four-Year Flowcharts are planning guides and do not represent a required course sequence.

Courses may be completed in a different order, provided requisite requirements are satisfied.

First Year

Term 1		Units
ET 1110	Introduction To Engineering Technology	1
CHE 1110 & 1110L	General Chemistry and General Chemistry Laboratory (5A & 5C) ¹	4
EGL 1110	Speech Communication (1C) ¹	3
ENG 1100	Engineering Graphics	2
FF 1100	Basic Marine Firefighting	0
GOV 2200	American Government (4A) ¹	3
PE 1101	Swim Competency Exam ²	0
General Education Requirement		3
Units		16

Term 2		Units
EPO 1110	Plant Operations I	1
EPO 1125 & 1125L	Intro To Marine Engineering and Intro To Marine Engineering Lab	4
EPO 2213	Welding Lab	1
CHE 2205	Chemistry of Power Plant Processes	3
DL 1105 & 1105L	Marine Survival and Marine Survival Laboratory	2
DL 1105X	United States Coast Guard Lifeboatman's Exam	0
EGL 1100	English Composition (1A) ¹	3
MTH 2210	Calculus I (2) ¹	4
NAU 1104	Shipboard Security And Responsibility	1
Units		19

Term 3		Units
CRU 1150	Sea Training I - Engine	8
Units		8

Second Year

Term 1		Units
COM 2220L	Programming Applications for Engineering Technology Lab	1
EPO 2210	Plant Operations Ii	1
EPO 2214	Boilers	3
EPO 2215	Manufacturing Processes I	1
EPO 2230	Steam Plant System Operations	1
EGL 2220	Critical Thinking (1B) ¹	3
MTH 2211	Calculus Ii	4
PHY 2200 & 2200L	Engineering Physics I and Engineering Physics I Lab	4
Units		18

Term 2		Units
EPO 2220 & 2220L	Diesel Engineering I and Diesel Engineering I Lab	2
EPO 2235	Steam Plant Watch Team Management	1
EPO 3312	Turbines	3
ET 2230	Properties Of Materials	2
ET 2232	Statics	3
LIB 1100	Information Fluency In The Digital World	2
PHY 2205 & 2205L	Engineering Physics Ii and Engineering Physics Ii Lab	4
General Education Requirement		3
Units		20

Term 3		Units
CEP 2270	Facilities Engineering Technology Industry Cooperative I	3
Units		3

Third Year

Term 1		
EPO 3319	Facilities Engineering Diagnostics Lab	1
ET 2230L	Properties Of Materials Lab	1
ET 2250 & 2250L	Electrical Circuits and Electrical Circuits Lab	4
ET 3330	Dynamics	3
ET 3332	Strength Of Materials	3
ET 3344	Thermodynamics	3
General Education Requirement		3
Units		18

Term 2		
EPO 3310	Plant Operations III	1
EPO 3315	Manufacturing Processes Ii	1
EPO 3321	Introduction To Power Generation Plants	1
ET 3340 & 3340L	Fluid Mechanics and Fluid Mechanics Lab	4
ET 3342 & 3342L	Refrigeration And A/C and Refrigeration And A/C Lab	3
ET 3370 & 3370L	Electronics and Electronics Lab	4
General Education Requirement		3
Units		17

Term 3		
CEP 3370	Facilities Engineering Technology Industry Cooperative II	3
Units		3

Fourth Year

Term 1		
ET 3350 & 3350L	Electrical Machinery and Electrical Machinery Lab	4
ET 4400 & 4400L	Inst & Measure Sys and Inst & Measure Sys Lab	4
ET 4442 & 4442L	Heating Ventilating A/C and Heating Ventilating A/C Lab	3
ET 4470	Engineering Management	3
General Education Requirement		3
General Education Requirement		3
Units		20

Term 2		
ET 4460 & 4460L	Automation and Automation Lab	4
ET 4490 & 4490L	Power Engineering Tech and Power Engineering Tech Lab	4
ENG 3310	Engineering Ethics (Upper-Division 4) ¹	3
ENG 4472	Facilities Management	3
General Education Requirement		3
Units		17

Total Units	159
--------------------	------------

¹ Required in Major or Support; also satisfies General Education (GE) requirement.

² Swim assessments are required of all cadets during Orientation week. If PE 1101 is not passed with a grade CR, then enrollment in PE 1102 will be required.