



Degree Map

CATALOG YEAR: 2021-2022

Degree: BSE

MAJOR: General Engineering

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and course schedule. This document provides general direction.

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall	Total Credit Hours: 17	Semester: Spring	Total Credit Hours: 15
MATH 1910 Calculus I	4	MATH 1920 Calculus II	4
CHEM 1110 General Chemistry I	4	CHEM 1120 General Chemistry II	3
ENGL 1010 English Composition I	3	ENGL 1020 English Composition II	3
ENGR 1020 Connections to Eng & Tech ¹	1	ENGR 1120 Programming for Engineers ¹	2
ENGR 1110 Engineering Graphics	2	Humanities/Fine Arts Elective	3
Humanities/Fine Arts Elective	3		
Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall	Total Credit Hours: 17	Semester: Spring	Total Credit Hours: 16
MATH 2110 Calculus III	4	MATH 2010 Intro to Linear Algebra	3
PHYS 2110 Calculus based Physics I	4	MATH 2120 Differential Equations	3
CEE 2110 Statics	3	PHYS 2120 Calculus based Physics II	4
ENGR 3710 Principles of Eng Economy	2	ME 2330 Dynamics	3
English Literature	3	COMM 2025 Fund of Communication	3
ENGR 2121 Engineering Applications in C++	1		
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall	Total Credit Hours: 15	Semester: Spring	Total Credit Hours: 18
ECE 2850 Circuits I	3	ECE 3850 Cicuits II	3
ECE 2851 Circuits I Lab	1	ME 3210 Thermodynamics I	3
CEE 3110 Mechanics of Materials	3	ME 3023 Measurements in Mech Systems	3
ENGR 3720 Engineering Statistics	2	ME 3010 Mats in Manufacturing	3
ENGR 3120 Solid Modeling	3	ME 3720 Fluid Mechanics	3
Social/Behavioral Science Elective	3	Social/Behavioral Science Elective	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall	Total Credit Hours: 15	Semester: Spring	Total Credit Hours: 15
ENGR 4950 Senior Design I	3	ENGR 4960 Senior Design II	3
ENGR 4900 Egr Design, Prof & Ethics	3	ENGR 3020 Numerical Methods	3
ENGR 4510 Engineering Management	3	Technical Elective ²	3
Technical Elective ²	3	Technical Elective ²	3
Elective	3	Technical Elective ²	3

Notes:

- Not part of the 128-hour BSE degree program
- Technical Electives: ENTC 4037, ENTC 4237, ENTC 4257, MGMT 3000, MGMT 4617, ECE 3010, ECE 3210, ECE 3300, ME 3610, ME 3710, ME 4010
- Courses notes in blue color are taken at East Tennessee State University (ETSU)