



Bachelor of Science – Engineering Technology

Catalog Year: 2024 – 2025

Degree: BSET

Major: Engineering Technology

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and a department's tentative plans for scheduling courses. This document provides general direction.

Roane State Community College

Freshman Year – Fall Semester

Course Title	Cr	✓
ENGL 1010 – Composition I	3	
MATH 1730 – Pre-Calculus	4	
CHEM 1010 – Introductory Chemistry or CHEM 1110 – General Chemistry I	4	
ENST 1311 – Computer Aided Design I	3	
Total	14	

Freshman Year – Spring Semester

Course Title	Cr	✓
ENGL 1020 – Composition II	3	
HIST 2010 – Early U.S. History	3	
MATH 1910 – Calculus I	4	
Humanities/Fine Arts Elective	3	
ENST 1350 – Industrial Safety	3	
Total	16	

Sophomore Year – Fall Semester

Course Title	Cr	✓
ENGL 2110, 2120, 2210, 2220, 2310 or 2320 Literature	3	
ECON 2200 – Principles of Microeconomics	3	
PSYC 1030 – Introduction to Psychology	3	
PHYS 2010 – Introductory Physics I or PHYS 2110 – Calculus-Based Physics I	4	
Humanities/Fine Arts Elective	3	
Total	16	

Sophomore Year – Spring Semester

Course Title	Cr	✓
ECON 2100 – Principles of Macroeconomics	3	
PHYS 2020 – Introductory Physics II or PHYS 2120 – Calculus-Based Physics II	4	
History 2020 – Modern U.S. History	3	
MECH 2425 – Mechanics & Machine Elements ¹	4	
COMM 2025 – Fundamentals of Communication	3	
Total	17	

Tennessee Technological University

Junior Year – Fall Semester

Course Title	Cr	✓
ACCT 3720 – Survey of Accounting	3	
BMGT 3510 – Mgmt and Org Behavior	3	
ME 3010 – Materials & Processes in Mfg or MET 3100 – Applied Physical Metallurgy	3	
MET 2065 – Metal Manufacturing Tech	2	
MET 1115 – Intro to MET and Engineering Ethics	3	
Total	14	

Junior Year – Spring Semester

Course Title	Cr	✓
MET 3713 – Methods Design and Work Meas	3	
ECON 3610 – Business Statistics I	3	
MET 3003 – Principles of Metal Casting	3	
MET 3200 – Applied Electricity and Electronics	3	
MET 3303 – CAD for Technology	3	
ENGR 1120 – Programming for Engineers	2	
Total	17	

Senior Year – Fall Semester

Course Title	Cr	✓
Area of Concentration ²	3	
Area of Concentration ²	3	
MET 3403 – Applied Machine Elements	3	
FIN 3210 – Principles of Managerial Finance	3	
MET 3150 – Maintenance Technology I	2	
MKT 3400 – Principles of Marketing	3	
Total	17	

Senior Year – Spring Semester

Course Title	Cr	✓
Area of Concentration ²	3	
Area of Concentration ²	3	
Area of Concentration ²	3	
LAW 2810 – Business Legal Env and Ethics	3	
MET 4620 – Senior Projects	3	
Total	15	

123 hours minimum required for graduation

¹ MECH 1320 prerequisite will be waived for MECH 2425, provided successful completion of math requirements

²Select one of the following concentrations

- Mechatronics Engineering Technology
 - Required: MET 3060, ECE 3270, MET 4250 (5250)
 - Select two: MET 4000, MET 4210 (5210), MET 4220 (5220), or MET 4990 (5990)
- Engineering Technology Management
 - Required: MET 4310 (5310), MET 4550 (5550), MET 4650 (5650)
 - Select one: MET 3703, MET 4600 (5600), MET 4990 (5990)

Red color listed courses are taken at Roane State

Purple color listed courses are taken at TTU