

NAME:
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College of Engineering

TENNESSEE TECH

Degree Map

CATALOG YEAR: 2026-2027

Degree: BSET

MAJOR: Engineering Technology

CONCENTRATION: Smart Manufacturing

*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 completed**, **Course in Progress**, **Course recommended for next semester***

FRESHMAN YEAR					
Fall		Cr. Hrs.	Spring		Cr. Hrs.
MET 1115 Intro to MET & Engr Ethics		3	MET 2000 Occupational Safety		2
ENGR 1110 Engineering Graphics		2	MATH 1845 Technical Calculus		3
Humanities/Fine Arts Elective		3	Humanities/Fine Arts Elective		3
MATH 1730 Pre-calculus Mathematics		5	CHEM 1110 or CHEM 1010		4
ENGL 1010 Writing Composition I		3	ENGL 1020 Writing Composition II		3
Total Credit Hours		16	Total Credit Hours		15
SOPHOMORE YEAR					
Fall		Cr. Hrs.	Spring		Cr. Hrs.
FIN 2000 Personal Finance		3	MET 2400 Statics & Strength of Materials (p. MATH and PHYS 2010)		3
MET 2065 Metal Manufacturing Technology (p. ENGR 1110, MET 1115, MATH)		2	PHYS 2020 or PHYS 2120		4
ENGR 1120 Programming for Engineers		2	PSY 1030 Intro to Psychology		3
PHYS 2010 or PHYS 2110		4	HIST 2020 Modern US History		3
ECON 2010 Principles of Microeconomics		3	ECON 2020 Principles of Macroeconomics		3
Total Credit Hours		14	Total Credit Hours		16
JUNIOR YEAR					
Fall		Cr. Hrs.	Spring		Cr. Hrs.
MET 3100 Applied Physical Metallurgy or ME 3010 (p. MET 1115 & CHEM 1010)		3	MET 3003 Principles of Metal Casting (p. MET 1115, MET 3100 or ME 3010) co req		3
MET 3303 CAD for Technology (p. ENGR 1110)		3	ACCT 3720 Survey of Accounting		3
MET 3713 Methods Design & Work Measurement FALL ONLY (p. Junior status 60 cr)		3	MET 3403 Applied Machine Elements (p. MET 2400 & 3303)		3
MET 3200 Applied Electricity & Electronics (p. MATH 1845 or 1910 and PHYS 2020)		3	MATH 3070 Statistical Methods or ECON 3610 Business Statistics I		3
BMGT 3510 Management & Organizational Behavior		3	*MET 3620 Industrial IoT Networks & Systems (p. ENGR 1120 and MET 3200)		3
Total Credit Hours		15	Total Credit Hours		15
SENIOR YEAR					
Fall		Cr. Hrs.	Spring		Cr. Hrs.
MET 3150 Maintenance Technology		2	LAW 2810 Business Legal Environment & Ethics		3
COMM 2025 or PC 2500 Communications		3	HIST 2010 Early US History		3
FIN 3210 Principles of Managerial Finance		3	*MET 4420 Intro to Additive Manufacturing (p. MET 3620)		3
MKT 3400 Principles of Marketing (p. ECON 2010)		3	*MET 4520 Autonomous Robots in Manufacturing (p. MET 4320)		3
*MET 4000 Advanced Foundry Technology FALL ONLY		3	*MET 4720 Senior Projects for Smart Manufacturing		3
*MET 4320 Mixed Reality in Manufacturing (p. MET 3620)		3			
Total Credit Hours		17	Total Credit Hours		15

*Courses specific to this concentration

Updated 4/9/2026

Notes: