



Degree Map

CATALOG YEAR: 2024-2025

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.

FRESHMAN YEAR			
Fall	Cr. Hrs.	Spring	Cr. Hrs.
MET 1115 Intro to Manufacturing ET	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.
ENGL 2130, 2235, or 2330 Literature	3	MET 2400 Statics & Strength of Material	3
MET 2065 Metal Manufacturing Technology	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 Metallurgy or ME 3010	3	MET 3003 Principles of Metal Casting	3
MET 3303 CAD for Technology	3	ACCT 3720 Survey of Accounting	3
MET 3713 Methods Design & Work Measurement	3	MET 3403 Applied Machine Elements	3
MET 3200 Applied Electricity & Electronics	3	MATH 3070 Statistical Methods or ECON 3610 Business Statistics I	3
BMGT 3510 Management & Organizational Behavior	3	*MET 3620 Industrial IoT Networks & Systems	3
Total Credit Hours	15	Total Credit Hours	15
SENIOR YEAR			
Fall	Cr. Hrs.	Spring	Cr. Hrs.
MET 3150 Maintenance Technology I	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	3
MKT 3400 Principles of Marketing	3	*MET 4520 Autonomous Robots in Manufacturing	3
*MET 4000 Advanced Foundry Technology	3	*MET 4720 Senior Projects for Smart Manufacturing	3
*MET 4320 Mixed Reality in Manufacturing	3		
Total Credit Hours	17	Total Credit Hours	15

*Courses specific to this concentration

Notes: