

B.S. Manufacturing Eng. Tech.

Freshman (1st) Year - Fall Semester		2024	Freshman (1st) Year - Spring Semester		2025
MATH-111	College Algebra (Every)	3	MATH-131	College Trigonometry (Every)	3
ENGL-110	First-Year Composition I (Every)	3	ENGL-111	First-Year Composition II (Every)	3
EGNR-101	Intro. to Engineering (Fall)	2	EGEE-125	Digital Fundamentals (Spring)	4
EGME-141	Solid Modeling (Every)	3	MATH-207	Principles of Statistical Methods (Every)	3
CHEM-108	Applied Chemistry (Every)	3	EGME-110	Manufacturing Processes (Spring)	3
CHEM-109	Applied Chemistry Lab (Every)	1			
		15			16
Sophmore (2nd) Year - Fall Semester		2025	Sophmore (2nd) Year - Spring Semester		2026
MATH-112	Calculus for Bus. & Life Sci. (Every)	4	EGNR-245	Calculus App. for Tech. (Even Spring)	3
EGNR-140	Linear Algebra Num. App. for Eng. (Every)	2	EGNR-265	C Programming (Every)	3
PHYS-221	Principles of Physics I (Fall)	4	EGME-240	Assembly Modeling and GD&T (Spring)	3
EGMT-216	CAM with CNC Applications (Odd Fall)	3		Communication Elective	3
	Social Science Elective	3		Humanities Elective	3
		16		Free Elective	1
					16
Junior (3rd) Year - Fall Semester		2026	Junior (3rd) Year - Spring Semester		2027
EGET-270	Applied Electricity (Even Fall)	4	EGET-275	Applied Electronics (Odd Spring)	4
EGMT-225	Statics & Strength of Materials (Even Fall)	4	EGRS-325	Industrial Control Systems (Odd Spring)	3
EGRS-380	Robotics Technology (Fall)	2	EGME-275	Engineering Materials (Spring)	3
EGRS-381	Robotics Technology Lab (Every)	1	EGME-276	Strength of Materials Lab (Spring)	1
EGRS-365	Programmable Logic Controllers (Every)	3		Management Elective	3
		14		Cultural Diversity Elective	3
					17
Senior (4th) Year - Fall Semester		2027	Senior (4th) Year - Spring Semester		2028
EGNR-491*	Engineering Design Project I (Fall)	3	EGNR-495*	Engineering Design Project II (Spring)	3
EGNR-310	Advanced Quality Engineering (Odd Fall)	3	ECON-302	Managerial Economics (Even Spring)	4
EGRS-480	Manufacturing Automation (Fall)	3		Technical Elective	3
EGRS-481	Manufacturing Automation Lab (Every)	1		Technical Elective	3
	Technical Elective	4		Humanities Elective	3
		14			16

Bolded courses require a grade of C or better for the degree

Minimum Total Credits: 124

General Technical Electives (10 credits minimum)

CSCI	265
ECON	307
EGEE	250
EGME	310
EGNR	261, 496
EGRS	215, 235, 305, 372, 375, 430
MATH	215 or higher

Management Elective (3 credits minimum)

MGMT-360	Management Info. Systems (Every)	3
MGMT-371	Operations/Business Analytics (Every)	3

Technical Electives Required for Minor in Robotics Technology

These courses can be taken as technical electives for MfgET and also apply towards the robotics minor.

EGRS-215	Introduction to Robotics (Fall)	2
EGRS-430	Sys. Int. and Machine Vision (Fall)	4
EGNR-496	Senior Directed Project (On Demand)	3

***Senior Sequence Options (Discuss with Advisor)**

Industrial	EGNR-491 & EGNR-495 as shown
Co-Op	EGNR-250, EGNR-450, EGNR-451, & EGNR-491
Research	EGNR-260, EGNR-460, & EGNR-461