

# Undergraduate Curriculum in Industrial Technology Manufacturing Option

2024-2025 Catalog – Total Credits 120

## First Year (31 cr.)

Fall Semester 1 (16 cr.)			Spring Semester 2 (15 cr.)		
1	TSM 1100	Introduction to Technology (F)	1	TSM 1110	Experiencing Technology (FS)
3	TSM 1160	Design in Technology (FS)	3	TSM 1150	Solving Technology Problems (FS)
*3	ENGL 1500	Crit. Think. and Comm.(FSSS)	3	MATH 1510	Calculus for Business and Social Sciences (FSSS)
1	LIB 1600	Library Instruction (FSSS)	4	PHYS 1310	General Physics (FSSS)
3	MATH 1450	Applied Trigonometry (FS)	1	PHYS 1310L	General Physics Lab (FSSS)
4	CHEM 1630	College Chemistry (FS)	3	TSM 2400	Intro to Advanced Manufacturing and Metals/Plastics Processing (FS)
1	CHEM 1630L	Lab in College Chemistry (FS)			

## Second Year (31 cr.)

Fall Semester 3 (15 cr.)			Spring Semester 4 (16 cr.)		
1	TSM 2010	Preparing for Workplace Seminar (FS)	2	TSM 2160	Adv Tech Graph, Interpret, & CAD (FS)
1	TSM 2140	Managing Technology Projects (FS)	2		Elective (FSSS)
3	TSM 2100	Fundamentals of Technology (FS)	3	STAT 1040	Introduction to Statistics (FSSS)
3	TSM 2700	Principles of Injury Prevention (FS)			
3	ECON 1010	Principles of Microeconomics (FSSS)	3		International Perspective - See list (FSSS)
*3	ENGL 2500	Writ/Oral/Vis/Elec Composition (FSSS)	*3		Speech Communication - See list (FSSS)
1	ABE 2710, ABE 2720 or ABE 2730	SolidWorks (FS) Creo Parametric (FS) or 2D AutoCAD (FS)	3	BIOL 1010, 2110, 2120 or 2510	Life Science Biology Requirement (FSSS)

*\*Must earn a C or better*

**Credit: R TSM 3970 or 3990 Internship in Technology (FSSS)**

Must submit paperwork to enroll.

GPA minimum 2.5 sophomore, 2.0 junior and senior.

## Third Year (31 cr.)

Fall Semester 5 (16 cr.)			Spring Semester 6 (15 cr.)		
3	TSM 3370	Fluid Power Systems Technology (FS)	3	TSM 3100	Total Quality Improvement (FS)
4	TSM 3630	Electric Power and Electronics for Agriculture and Industry (FS)	3	TSM 3400	Adv Automated Mfg Processes (FS)
3	TSM 3700	Occupational Safety (FS) [Ethics requirement]	3	ACCT 2150 or 2840	Legal Environment of Business or Financial Accounting (FSSS)
3		Humanities - See list (FSSS)	3		Life Science - See list (FSSS)
3		US Cultures & Communities - See list (FSSS)	3		Advanced English - See list (FSSS)

## Fourth Year (27 cr.)

Fall Semester 7 (14 cr.)			Spring Semester 8 (13 cr.)		
2	TSM 4150	Applied Project Management in Technology (FS)	3	TSM 4160	Technology Capstone (FS)
3	TSM 4400	Cellular Lean Manufacturing Systems (FS)	3	TSM 4440	Facility Planning (FS)
3	TSM 4430	Statics and Strength of Materials for Technology (FS)	3	TSM 4650	Automation Systems (FS)
6		Elective (FSSS)	4		Elective (FSSS)

**“See list” – Refer to your Academic Progress Report (APR)  
in Workday for options for each list.**

**NOTE: This is a sample four-year plan. Your actual semester schedules may vary.**