

Undergraduate Curriculum in Industrial Technology Manufacturing Option

2022-2023 Catalog – Total Credits 120

First Year (31 cr.)

Fall Semester 1 (16 cr.)			Spring Semester 2 (15 cr.)		
1	TSM 110	Introduction to Technology (F)	1	TSM 111	Experiencing Technology (FS)
3	TSM 116	Design in Technology (FS)	3	TSM 115	Solving Technology Problems (FS)
3	ENGL 150	Crit. Think. and Comm.(FSSS)	3	MATH 151	Calculus for Business and Social Sciences (FSSS)
1	LIB 160	Library Instruction (FSSS)	4	PHYS 131	General Physics (FSSS)
3	MATH 145	Applied Trigonometry (FS)	1	PHYS 131L	General Physics Lab (FSSS)
4	CHEM 163	College Chemistry (FS)	3	TSM 240	Intro to Manufacturing Processes for Metals (FS)
1	CHEM 163L	Lab in College Chemistry (FS)			

Second Year (31 cr.)

Fall Semester 3 (15 cr.)			Spring Semester 4 (16 cr.)		
1	TSM 201	Preparing for Workplace Seminar (FS)	2	TSM 216	Adv Tech Graph, Interpret, & CAD (FS)
1	TSM 214	Managing Technology Projects (FS)	2	TSM 241	Intro to Manufacturing Processes for Plastics (FS)
3	TSM 210	Fundamentals of Technology (FS)	3	STAT 104	Introduction to Statistics (FSSS)
3	TSM 270	Principles of Injury Prevention FS)	3	BIOL 101, 211, 212 or 251	Life Science Biology Requirement (FSSS)
3	ECON 101	Principles of Microeconomics (FSSS)	3		International Perspective - See list (FSSS)
3*	ENGL 250	Writ/Oral/Vis/Elec Composition (FSSS)	3*		Speech Communication - See list (FSSS)
1	ABE 271, ABE 272 or ABE 273	SolidWorks (FS) Pro/ENGINEER (FS) 2D AutoCAD (FS)			

**Must earn a C or better*

Summer – R TSM 397 Internship in Technology (FSSS)

Must submit paperwork to enroll.
GPA minimum 2.5 sophomore, 2.0 junior and senior.

Third Year (30 cr.)

Fall Semester 5 (15 cr.)			Spring Semester 6 (15 cr.)		
3	TSM 340	Adv Automated Mfg Processes (FS)	3	TSM 310	Total Quality Improvement (FS)
4	TSM 363	Electric Power and Electronics for Agriculture and Industry (FS)	3	TSM 337	Fluid Power Systems Technology (FS)
3	ACCT 284	Financial Accounting (FSSS)	3	TSM 370	Occupational Safety (FS) [Ethics requirement]
2	TSM 399	Work Experience in Technology (FSSS)	3		US Diversity - See list (FSSS)
3		Advanced English - See list (FSSS)	3		Life Science - See list (FSSS)

Fourth Year (28 cr.)

Fall Semester 7 (14 cr.)			Spring Semester 8 (14 cr.)		
2	TSM 415	Applied Project Management in Technology (FS)	3	TSM 416	Technology Capstone (FS)
3	TSM 440	Cellular Lean Manufacturing Systems (FS)	3	TSM 444	Facility Planning (FS)
3	TSM 443	Statics and Strength of Materials for Technology (FS)	3	TSM 465	Automation Systems (FS)
3		Humanities - See list (FSSS)	5		Elective (FSSS)
3		Elective (FSSS)			

“See list” – Refer to your Degree Audit (available in AccessPlus) for options for each list.

NOTE: This is an example four-year plan. Your actual semester schedules may vary.