

**Undergraduate Curriculum in Industrial Technology  
Manufacturing Option**

2019-2020 Catalog – Total Credits 120

**First Year (31 cr.)**

<b>Fall Semester 1 (16 cr.)</b>			<b>Spring Semester 2 (15 cr.)</b>		
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)	5	PHYS 111	General Physics and Lab (FSSS)
3	MATH 145	Applied Trigonometry (FS)	3	ECON 101	Principles of Microeconomics (FSSS)
4	CHEM 163	College Chemistry (FS)			
1	CHEM 163L	Lab in College Chemistry (FS)			

**Second Year (30 cr.)**

<b>Fall Semester 3 (14 cr.)</b>			<b>Spring Semester 4 (16 cr.)</b>		
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	Introduction to Manufacturing Processes for Plastics (FS)
3	TSM 210	Fundamentals of Technology (FS)	3	STAT 104	Introduction to Statistics (FSSS)
3	TSM 240	Intro to Manufacturing Processes for Metals (FS)	3	BIOL 101, 211, 212 or 251	Life Science Biology Requirement (FSSS)
3	TSM 270	Principles of Injury Prevention (FS)	3		International Perspective - See list (FSSS)
3	ENGL 250	Writ/Oral/Vis/Elec Composition (FSSS)	3		Speech Communication - See list (FSSS)

**Third Year (32 cr.)**

<b>Fall Semester 5 (16 cr.)</b>			<b>Spring Semester 6 (16 cr.)</b>		
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]
3		US Diversity - See list (FSSS)	3		Humanities - See list (FSSS)
3		Advanced English - See list (FSSS)	3		Life Science - See list (FSSS)
			1	ABE 271; ABE 272; or ABE 273	SolidWorks (FS) Pro/ENGINEER (FS) 2D AutoCAD (FS)

<b>Summer – R      TSM 397      Internship in Technology (FSSS)</b>
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**Fourth Year (27 cr.)**

<b>Fall Semester 7 (14 cr.)</b>			<b>Spring Semester 8 (13 cr.)</b>		
2	TSM 399	Work Experience in Technology (FSSS)	3	TSM 416	Technology Capstone (FS)
2	TSM 415	Applied Project Management in Technology (FS)	3	TSM 444	Facility Planning (FS)
3	TSM 440	Cellular Lean Manufacturing Systems (FS)	3	TSM 465	Automation Systems (FS)
3	TSM 443	Statics and Strength of Materials for Technology (FS)	4		Elective (FSSS)
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**“See list” – Refer to your Degree Audit (available in Access+) for options for each list.  
NOTE: This is an example four-year plan. Your actual semester schedules may vary.**