

Undergraduate Curriculum in Industrial Technology

Manufacturing Option

2014-2015 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 (S)
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 145X	Applied Trigonometry (FS)	3	ECON 101	Principles of Microeconomics (FSSS)
4	CHEM 163	College Chemistry			
1	CHEM 163L	Lab in College Chemistry			

Second Year (28 cr.)

Fall Semester 3 (13 cr.)			Spring Semester 4 (15 cr.)		
1	TSM 201	Preparing for Workplace Seminar (FS)	3	TSM 216	Adv Tech Graph, Interpret, & CAD (FS)
3	TSM 210	Fundamentals of Technology (FS)	3	STAT 104	Introduction to Statistics (FSSS)
3	TSM 240	Intro to Manufacturing Processes (FS)	3	BIOL 101	Life Science Biology Requirement (FSSS)
				or 211	
3	TSM 270	Principles of Injury Prevention (F)	3		International Perspective - See list (FSSS)
3	ENGL 250	Writ/Oral/Vis/Elec Composition (FSSS)	3		Speech Communication - See list (FSSS)

Third Year (31 cr.)

Fall Semester 5 (16 cr.)			Spring Semester 6 (15 cr.)		
3	TSM 340	Adv Automated Mfg Processes (FS)	3	TSM 310	Total Quality Improvement (S)
4	TSM 363	Electric Power and Electronics for Agriculture and Industry (F)	3	TSM 337	Fluid Power Systems Technology (S)
3	ACCT 284	Financial Accounting (FSSS)	3	TSM 370	Occupational Safety (S) [Ethics requirement]
3		US Diversity - See list (FSSS)	3		Humanities - See list (FSSS)
3		English - See list (FSSS)	3		Life Science - See list (FSSS)

Summer – R

TSM 397

Internship in Technology (FSSS)

Fourth Year (30 cr.)

Fall Semester 7 (15 cr.)			Spring Semester 8 (15 cr.)		
2	TSM 399	Work Experience in Technology (FSSS)	5	TSM 416	Technology Capstone II (FS)
1	TSM 415	Technology Capstone I (FS)	3	TSM 443	Statics and Strength of Materials for Technology (S)
3	TSM 440	Cellular Lean Manufacturing Systems (F)	3	TSM 465	Automation Systems (S)
3	TSM 444	Facility Planning (F)	4		Elective (FSSS)
6		Elective (FSSS)			

See list - Speak with an academic adviser for options for each list.