Undergraduate Curriculum in Industrial Technology
Manufacturing Option
2015-2016 Catalog
Total Credits 120

## First Year (31 cr.)

### Fall Semester 1 (16 cr.)
1. TSM 110  Introduction to Technology (F)  
2. TSM 116  Design in Technology (FS)  
3. ENGL 150  Crit. Think. and Comm. (FSSS)  
4. LIB 160  Library Instruction (FSSS)  
5. MATH 145  Applied Trigonometry (FS)  
6. CHEM 163  College Chemistry  
7. CHEM 163L  Lab in College Chemistry  

### Spring Semester 2 (15 cr.)
1. TSM 111  Experiencing Technology (S)  
2. TSM 115  Solving Technology Problems (FS)  
3. MATH 151  Calculus for Business and Social Sciences (FSSS)  
4. PHYS 111  General Physics and Lab (FSSS)  
5. ECON 101  Principles of Microeconomics (FSSS)  

## Second Year (28 cr.)

### Fall Semester 3 (13 cr.)
1. TSM 201  Preparing for Workplace Seminar (FS)  
2. TSM 210  Fundamentals of Technology (FS)  
3. TSM 240  Intro to Manufacturing Processes (FS)  
4. TSM 270  Principles of Injury Prevention (F)  
5. ENGL 250  Writ/Oral/Vis/Elec Composition (FSSS)  

### Spring Semester 4 (15 cr.)
1. TSM 216  Adv Tech Graph, Interpret, & CAD (FS)  
2. STAT 104  Introduction to Statistics (FSSS)  
3. BIOL 101 or 211  Life Science Biology Requirement (FSSS)  
4. International Perspective - See list (FSSS)  
5. Speech Communication - See list (FSSS)  

## Third Year (31 cr.)

### Fall Semester 5 (16 cr.)
1. TSM 340  Adv Automated Mfg Processes (FS)  
2. TSM 363  Electric Power and Electronics for Agriculture and Industry (FS)  
3. ACCT 284  Financial Accounting (FSSS)  
4. US Diversity - See list (FSSS)  
5. English - See list (FSSS)  

### Spring Semester 6 (15 cr.)
1. TSM 310  Total Quality Improvement (S)  
2. TSM 337  Fluid Power Systems Technology (FS)  
3. TSM 370  Occupational Safety (S) [Ethics requirement]  
4. Humanities - See list (FSSS)  
5. Life Science - See list (FSSS)  

### Summer – R  TSM 397  Internship in Technology (FSSS)

## Fourth Year (30 cr.)

### Fall Semester 7 (15 cr.)
1. TSM 399  Work Experience in Technology (FSSS)  
2. TSM 415  Technology Capstone I (FS)  
3. TSM 440  Cellular Lean Manufacturing Systems (F)  
4. TSM 444  Facility Planning (F)  
5. Elective (FSSS)  

### Spring Semester 8 (15 cr.)
1. TSM 416  Technology Capstone II (FS)  
2. TSM 443  Statics and Strength of Materials for Technology (S)  
3. TSM 465  Automation Systems (S)  
4. Elective (FSSS)  
5. 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.