# Undergraduate Curriculum in Industrial Technology
## Manufacturing Option
### 2014-2015 Catalog

**Total Credits 120**

### First Year (31 cr.)

**Fall Semester 1 (16 cr.)**
- TSM 110: Introduction to Technology (F)
- TSM 116: Design in Technology (FS)
- ENGL 150: Crit. Think. and Comm. (FSSS)
- LIB 160: Library Instruction (FSSS)
- MATH 145X: Applied Trigonometry (FS)
- CHEM 163: College Chemistry
- CHEM 163L: Lab in College Chemistry

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

### Second Year (28 cr.)

**Fall Semester 3 (13 cr.)**
- TSM 201: Preparing for Workplace Seminar (FS)
- TSM 210: Fundamentals of Technology (FS)
- TSM 240: Intro to Manufacturing Processes (FS)
- TSM 270: Principles of Injury Prevention (F)
- ENGL 250: Writ/Oral/Vis/Elec Composition (FSSS)
- BIOL 101 or 211: Life Science Biology Requirement (FSSS)
- TSM 270: Principles of Injury Prevention (F)
- ENGL 250: Writ/Oral/Vis/Elec Composition (FSSS)

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

### Third Year (31 cr.)

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

**Spring Semester 6 (15 cr.)**
- TSM 310: Total Quality Improvement (S)
- TSM 337: Fluid Power Systems Technology (S)
- TSM 370: Occupational Safety (S) [Ethics requirement]
- Humanities - See list (FSSS)
- Life Science - See list (FSSS)

### Fourth Year (30 cr.)

**Fall Semester 7 (15 cr.)**
- TSM 399: Work Experience in Technology (FSSS)
- TSM 415: Technology Capstone I (FS)
- TSM 440: Cellular Lean Manufacturing Systems (F)
- TSM 444: Facility Planning (F)
- Elective (FSSS)

**Spring Semester 8 (15 cr.)**
- TSM 416: Technology Capstone II (FS)
- TSM 443: Statics and Strength of Materials for Technology (S)
- TSM 465: Automation Systems (S)
- Elective (FSSS)

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

### Internship in Technology (FSSS)

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

Updated 6/19/2014