**Recommended Industrial Management and Technology Course sequence**

**Undergraduate Catalog - 2013/2014**

**Total undergraduate credits: 120**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Details</th>
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</thead>
<tbody>
<tr>
<td><strong>Freshman (Fall)</strong></td>
<td>3 TECH 211 - Computer-Aided-Design 3 MATH 155 - Trigonometry 3 CHEM 110 - General Chemistry I 1 CHEM 111 - General Chemistry I Lab 3 ENGL 103 - Composition I 3 General Education Requirement 1</td>
</tr>
<tr>
<td></td>
<td>Freshman (Spring) 3 COMS 109 - Communications 3 ENGL 104 - Composition I 4 PHYS 150A - Physics or Phys 210 - General Physics I 3 General Education Requirement 2 3 General Education Requirement 3</td>
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<tr>
<td><strong>Sophomore (Fall)</strong></td>
<td>3 Technology Area of Study 1 3 General Education Requirement 4 3 TECH 265 - Basic Manufacturing Processes 3 STAT 208 - Basis Statistics or STAT 301 - Elementary Statistics 3 TECH 175 - Electricity and Electrical Fund. 1 TECH 175A - Electricity and Electrical Fund. Lab</td>
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<td>Sophomore (Spring) 3 General Education Requirement 5 3 TECH 406 - Facilities Management Technology 3 ACCY 288 (or ACCY 206) - General Accounting 3 Technology Area of Study 2 3 Ind Mgmt &amp; Tech Elective 1</td>
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<tr>
<td><strong>Junior (Fall)</strong></td>
<td>3 General Education Requirement 6 3 TECH 429 - Plant location, Layout, and Materials Handling 3 Technology Area of Study 3 3 TECH 404 - Supervision In Industry 3 TECH 391 - Industrial Quality Control</td>
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<td>Junior (Spring) 3 General Elective 1 3 Engi 308 Tech Writing or Mgmt 346 - Business Communications 3 Technology Area of Study 4 3 Technology Area of Study 5</td>
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<tr>
<td><strong>Senior (Fall)</strong></td>
<td>3 Technology Area of Study 6 3 Ind Mgmt &amp; Technology Elective 2 3 Technology Area of Study 7 3 Technology Elective 1 3 TECH 492 - Manufacturing Distribution Applications</td>
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<td>Senior (Spring) 3 Technology Elective 2 3 Technology Area of Study 8 3 TECH 496 - Industrial Project Management 3 General Elective 2</td>
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**Industrial Management and Technology Electives (Choose 2)**


**Areas of Concentration within the Industrial Management & Technology Program**

**Computer-Aided-Design (CAD)**

- TECH 262 - Machine Production Processes
- TECH 311 - Computer-Aided Modeling
- TECH 312 - Design Dimensioning and Tolerancing
- TECH 313 - Product Design and Development for Manufacturability
- TECH 365 - Metrology
- TECH 414 - Computer-Aided Machine Design

**Manufacturing Technology**

- TECH 260 - Metal Fabrication Processes
- TECH 262 - Machine Production Processes
- TECH 311 - Computer-Aided Modeling
- TECH 313 - Product Design and Development for Manufacturability
- TECH 365 - Metrology

**Electronics Technology**

- TECH 270 - Electrical Fundamentals and Circuit Analysis I
- TECH 270A - Electrical Fundamentals and Circuit Analysis Lab I
- TECH 276 - Electronics I
- TECH 276A - Electronics I Lab
- TECH 277 - Digital Logic Design
- TECH 277A - Digital Logic Design Lab
- TECH 295 - Manufacturing Computer Applications or CSCI 215 - Visual Basic
- TECH 377 - Microprocessors and Interfacing

**Environmental Health and Safety**

- TECH 231 - Safety Programs
- TECH 245 - Pollution, Pestilence, Prevention, and the Cost of Doing Business
- TECH 432 - Disaster Preparedness
- TECH 436 - Design and Administration of Industrial Safety Programs
- TECH 437 - Fundamentals of Industrial Hygiene
- TECH 441 - Hazard Control in Industrial Operations
- TECH 481 - Ergonomics

**Two of the following**

- TECH 260 - Metal Fabrication Processes
- TECH 344 - Materials and Processes in the Plastics Industry
- TECH 345 - Plastic Molding Processes
- TECH 409 - Internship
- TECH 417 - Design for Energy Efficient and Green Materials
- TECH 420 - Computer-Integrated Manufacturing

**Two of the following**

- TECH 312 - Design Dimensioning and Tolerancing
- TECH 344 - Materials and Processes in the Plastics Industry
- TECH 345 - Plastic Molding Processes
- TECH 409 - Internship
- TECH 417 - Design for Energy Efficient and Green Materials

**Notes:**

- A technical elective course may be any course offered within the Department of Technology, as determined with consent of the faculty advisor.
- A general elective course may be any course offered from any department on campus.