### Recommended Industrial Management and Technology Course sequence

**Undergraduate Catalog - 2010/2011**

| Freshman (Fall) | 3 | TECH 211 - Computer-Aided-Design |
|                | 3 | MATH155 - Trigonometry             |
|                | 3 | CHEM 110 - General Chemistry I     |
|                | 1 | CHEM 111 - General Chemistry I Lab |
|                | 3 | ENGL103 - Composition I            |
|                | 3 | General Education Requirement 1    |
|                | 16|                                |
| Sophomore (Fall)| 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 | TECH175 - Electricity and Electrical Fund. |
|                | 1 | TECH175A - Electricity and Electrical Fund, Lab |
|                | 15|                                |
| Junior (Fall)  | 3 | TECH 302 - Graphic Presentation and Communication |
|                | 3 | TECH 426 - Plant location, Layout, and Materials Handling |
|                | 3 | Technology Area of Study 3        |
|                | 3 | TECH 404 - Supervision In Industry |
|                | 3 | TECH 395 - Ind Data Processing or CSCI 205 - Intro to Comp. |
|                | 15|                                |
| Senior (Fall)  | 3 | Technology Area of Study 6        |
|                | 3 | Ind Mgmt & Technology Elective 2  |
|                | 3 | Technology Area of Study 7        |
|                | 3 | Technology Elective 1             |
|                | 3 | TECH 391 - Industrial Quality Control |
|                | 15|                                |
| 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 314 - Tool and Die Design
- TECH 414 - Computer-Aided Machine Design

**Two of the following**

- TECH 340 - Metal Fabrication Processes
- TECH 344 - Materials and Processes in the Plastics Industry
- TECH 345 - Plastic Molding Processes
- TECH 365 - Metrology
- TECH 409 - Internship

#### 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
- TECH 420 - Computer-Integrated Manufacturing

**Two of the following**

- TECH 312 - Design Dimensioning and Tolerancing
- TECH 345 - Plastic Molding Processes
- TECH 409 - Internship
- TECH 427 - Testing Methods, Procedures, & Selection of Ind. Plastics
- TECH 441 - Hazard Control in Industrial Operations

#### 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 285 - Manufacturing Computer Applications
- TECH 377 - Microprocessors and Interfacing
- TECH 377A - Microprocessors and Interfacing Lab

**Two of the following**

- TECH 409 - Internship
- TECH 425 - Programmable Electronic Controllers
- TECH 430 - Microcontrollers Interfacing and Applications
- TECH 473 - Advanced Digital Design

#### Plastics Technology

- TECH 262 - Machine Production Processes
- TECH 311 - Computer-Aided Modeling
- TECH 344 - Materials and Processes in the Plastics Industry
- TECH 345 - Plastic Molding Processes
- TECH 393 - Structure and Properties of Materials
- TECH 427 - Testing Methods, Procedures, & Selection of Ind. Plastics

**Two of the following**

- TECH 312 - Design Dimensioning and Tolerancing
- TECH 313 - Product Design and Development for Manufacturability
- TECH 314 - Tool and Die Design
- TECH 365 - Metrology
- TECH 409 - Internship

#### 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

**One of the following**

- TECH 409 - Internship
- TECH 431 - Industrial Ventilation
- TECH 433 - Toxicology for Industry
- TECH 435 - Legal Aspects of Safety
- TECH 438 - Safety in Transportation Systems
- TECH 440 - Monitoring & Evaluating Exposures to Hazardous Materials
- TECH 482 - Industrial Safety Engineering Analysis
- TECH 483 - Applied Ergonomics
- TECH 485 - Risk Management

### 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 an department or campus.