

## Recommended Industrial Management and Technology Course sequence

Catalog - 2007/2008

Total undergraduate credits 120

### 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

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### Sophomore (fall)

- 3 Area of Study 1
- 3 General Education Requirement #4
- 3 General Education Requirement #3
- 3 STAT 208 (or STAT 301) - Basic Statistics
- 3 TECH175 - Electricity and Electrical Fund.
- 1 TECH175a - Electricity and Electrical Fund. Lab

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### Junior (fall)

- 3 TECH 302 - Graphic Presentation and Communications
- 3 MGMT 346 - Business Com or Engl 308
- 3 Area of Study 3
- 3 TECH 404 - Supervision In Industry
- 3 TECH 395 - Industrial Data Processing

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### Senior (fall)

- 3 Area of Study 6
- 3 TECH 442 - Work Simplification and Measurement
- 3 Area of Study 7
- 3 TECH Elective 1
- 3 TECH 391 - Industrial Quality Control

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### Freshman (Spring)

- 3 COMS100 - Communications
- 3 ENGL104 - Composition I
- 4 PHYS 150A (or Phy210) - General Physics I
- 3 General Education Requirement #2
- 3 TECH 265 - Basic Manufacturing Processes

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### Sophomore (Spring)

- 3 General Education Requirement #6
- 3 General Education Requirement #5
- 3 ACCY 206 (or ACCY 288) - General Accounting
- 3 Area of Study 2
- 3 General Elective 1

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### Junior (Spring)

- 3 TECH 402 - Industrial Training and Evaluation
- 3 TECH 429 - Plant location, Layout, and Materials Handling
- 3 TECH 434 - Human Factors in Accident Prevention
- 3 Area of Study 4
- 3 Area of Study 5

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### Senior (Spring)

- 3 TECH Elective 2
- 3 Area of study 8
- 3 TECH 496 - Industrial Project Management
- 3 General Elective 2

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## Areas of Concentration within the Industrial 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 260 - 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 344 - Materials and Processes in the Plastics Industry
- TECH 345 - Plastic Molding Processes
- TECH 409 - Internship
- TECH 427 - Testing Methods, Proc., and Sel. of Ind. Plastics
- TECH 441 - Hazard Control in Industrial Operations

### Electronics Technology

- Tech 270 - ELECT FUND AND CIRCUIT ANAL I
- Tech 270A - ELECT FUND AND CIRC ANAL I LAB
- 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
- Tech 377 - MICROPROC AND INTERFACING
- Tech 377A - MICROPROC AND INTERFACING LAB

Two of the following

- Tech 409 - Internship
- Tech 425 - PROG ELECT CONTROLLERS
- Tech 430 - MICRO CONTROLLERS INTERFACING AND APPS
- 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, and Selection of Ind Plastics

Two of the following

- TECH 312 - Design Dimensioning and Tolerancing
- TECH 313 - Product Design and Development for Manufacture
- 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 Pgms
- TECH 437 - Industrial Hygiene

TECH 441 - Hazard Control in Industrial Operations

TECH 481 - Ergonomics

One of the following

- TECH 234 - Industrial Security
- 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 and Evaluating Work Environments
- TECH 482 - Industrial Safety Engineering Analysis
- TECH 483 - Applied Ergonomics
- TECH 485 - Industrial 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 any department on campus.