

Recommended Industrial Technology Course sequence

Catalog - 2006/2007

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	TECH 265 - Basic Manufacturing Processes
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 Phy250) - General Physics I
3	General Education Requirement #2
3	General Education Requirement #3

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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

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.