### Industrial Management & Technology: Design and Production Course Sequence

Undergraduate Catalog - 2019/2020

**Total undergraduate credits: 120**

#### Freshman (Fall)
- ENGL 103 - Rhetoric & Composition I (F,S)
- MATH 155 - Trigonometry (F,S)
  - PRQ: MATH 110 w/C or Placement Exam
- CHEM 110 - General Chemistry I (F,S)
- COMS 100 - Fundamentals of Oral Communications (F,S)
- Gen. Ed. 1 (Creativity/Critical Analysis) Class: ____________

#### Freshman (Spring)
- TECH 211 - CAD/Computer-Aided Modeling (F,S)
- ENGL 203 - Rhetoric & Composition II (F,S)
  - PRQ: ENG 103 w/C
- PHYS 150 - Physics (F,S)
- GEN Ed. 2 (Creativity/Critical Analysis) Class: ____________
- GEN Ed. 3 (Society/Culture) Class: ____________

#### Sophomore (Fall)
- TECH 175 - Electricity and Electrical Fund. (F,S)
  - PRQ: MATH 155 w/C, PHYS 150/151 or 210 CRQ: T175A
- TECH 175A - Electricity and Electrical Fund Lab (F,S)
  - CRQ: Tech 175
- TECH 265 - Basic Manufacturing Processes (F,S) PRQ: MATH 155 w/C
- TECH 360 - Metal Fabrication Processes (F,S) PRQ: MATH 155 and T211
- STAT 100 - Basic Stats or STAT 200 - Elementary Stats (F,S)

#### Sophomore (Spring)
- TECH 282 - Machine Production Processes (F,S) PRQ: T211
- TECH 404 - Supervision in Industry (F,S) PRQ: STAT 100
- TECH 492 - Manufacturing Distribution Applications (F)
  - PRQ: MATH 155, STAT 100, TECH 265
- TECH 311 - Adv Computer-Aided Modeling (F, S)
  - Gen. Ed. 4 (Society/Culture) Class: ____________

#### Junior (Fall)
- TECH 391 - Industrial Quality Control (F,S)
  - PRQ: MATH 155, STAT 100 or 200
- TECH 429 - Plant location, Layout, and Materials Handling (F)
  - PRQ: MATH 155, T265
- TECH 313 - Product Des. and Dev. For Manufacturability (F)
  - PRQ: MATH 155, T311, T265
- Gen. Ed. 5 (Any Knowledge Domain) Class: ____________
- TECH 406 - Facilities Management Technology (F)
  - PRQ: MATH 155, T211

#### Junior (Spring)
- TECH 415 - Applied Industrial Experimental Analysis (S)
  - PRQ: MATH 155, STAT 100
- TECH 312 - Design Dimensioning and Tolerancing (S)
  - PRQ: T211, T260 or T 265
- ENGL 308 - Tech Writing or MGMT 346 - Business Comms (F,S)
  - MGMT 346 PRO: COMS 100, ECON 203 or 204, Jr. Standing
- ACCY 288 - Fund of Acctg or ACCY 206 - Intro Financial Acctg (F,S)

#### Senior (Fall)
- TECH 434 - Human Factors in Accident Prevention (F,S)
- TECH 365 - Metrology (F)
  - PRQ: T211, MATH 155
- Ind Mgmt & Tech Elective 2 Class: ____________
- Design & Production elective 1 Class: ____________
- Tech Elective 1 Class: ____________

#### Senior (Spring)
- TECH 496 - Industrial Project Management (F,S)
  - PRQ: T429, T415, MGMT 346 or ENGL 308; Senior Status 90 hrs
- Design & Production Elective 2 Class:
- Tech Elective 2 Class:
- General Elective 1 Class:
- General Elective 2 Class:

### Industrial Management and Technology Electives (Choose 2)

- TECH 305 - Green Technologies (F,S)
  - PRQ: MATH 155, CHEM 110
- TECH 402 - Ind. Training and Evaluation
- TECH 407 - Maintenance Management Tech
  - PRQ: Either STAT 100 or 200, T265
- TECH 410 - Internship
  - PRQ: Junior standing, department consent

### Design & Production Electives (Choose 2):

- TECH 314 - Tool and Die Design (F)
  - PRQ: MATH 155, T211, T265
- TECH 325 - Programmable Electronic Controllers (F)
  - PRQ: T175, T175A, T265, CSCI 215 or CSCI 240 or T265
- TECH 344 - Materials and Processes in the Plastics Industry (F)
  - PRQ: MATH 155, T265, CHEM 110
- TECH 409 - Internship
  - PRQ: Junior standing, department consent

### Human Diversity Requirement

Satisfied with: ____________

Refer to current catalog for updated pre-reqs