# Industrial Management & Technology: Electronics Technology Course Sequence

**Undergraduate Catalog - 2020/2021**  
**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  
- PHYS 150 - Physics (F,S)
- PHYS 151 - Physics Lab (F,S)
- COMS100 - Fundamentals of Oral Communications (F,S)
- Gen. Ed. 1 (Creativity/Critical Analysis) Class:

## Sophomore (Fall)
- TECH 265 - Basic Manufacturing Processes (F,S)  
  **PRQ:** MATH 155 w/C
- TECH 277 - Digital Logic Design (F)  
  **PRQ:** PHYS 211 or T175/175A
- TECH 434 - Human Factors in Accident Prevention (F,S)
- STAT 100 - Basic Stats or STAT 200 - Elementary Stats (F,S)
- Gen. Ed. 2 (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 325 - Programmable Electronic Controllers (F)  
  **PRQ:** T175, T175A, T265, CSCI 215 or 240 or T295
- Gen. Ed. 4 (Society/Culture) Class:
- Gen. Ed. 5 (Any Knowledge Domain) Class:

## Senior (Fall)
- TECH 406 - Facilities Management Technology (F)  
  **PRQ:** MATH 155, T211
- Ind Mgmt & Tech Elective 1 Class:
- General Elective 1 Class:
- Tech Elective 1 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  
  **PRQ:** STAT 100 or 200, T265
- TECH 407 - Maintenance Management Tech  
  **PRQ:** MATH 155 w/C
- TECH 398 - Industrial Problems in Technology (3 hrs)  
  **PRQ:** Department Consent
- TECH 409 - Internship  
  **PRQ:** Jr. Standing
- TECH 430 - Microcontrollers Systems and Internet of Things  
  **PRQ:** T377

**Industrial and Technology Electives (Choose two):**
- TECH 211 - CAD/Computer-Aided Modeling (F,S)
- ENGL 203 - Rhetoric & Composition II (F,S)  
  **PRQ:** ENG 103 w/C
- CHEM 110 - General Chemistry I (F,S)
- CHEM 111 - General Chemistry I Lab (F,S)
- TECH 175 - Electricity and Electrical Fund. (F,S)  
  **T175A Lab PRQ:** MATH 155 w/C, PHYS 150&151 or 210 CRQ: T175A
- TECH 295 Manuf. Comp. Apps. or CSCI 240 (F,S) or CSCI 215 (F,S)

**Sophomore (Spring)**
- TECH 404 - Supervision in Industry (S)  
  **PRQ:** STAT 100
- TECH 492 - Manufacturing Distribution Applications (S)  
  **PRQ:** MATH 155, STAT 100, T265
- ENGL 308 - Tech Writing or MGMT 346 - Business Comm. (F,S)
- MGMT 346 - Business Comm. (F,S)  
  **PRQ:** MATH 155, T265 (CSCI 240 PRQ: MATH 110)

**Junior (Spring)**
- TECH 377 - Microprocessors and Interfacing (S)  
  **PRQ:** T277
- TECH 415 - Applied Industrial Experimental Analysis (S)
- TECH 425 - Adv Programmable Electronic Controllers (S)  
  **PRQ:** T325
- TECH 496 - Manufacturing Distribution Applications (S)  
  **PRQ:** MATH 155, STAT 100

**Senior (Spring)**
- TECH 496 - Industrial Project Management (F,S)  
  **PRQ:** T429, T415, MGMT 346 or ENGL 308, Senior Status 90 hrs
- Ind Mgmt & Tech Elective 2 Class:
- Tech Elective 2 Class:
- General Elective 2 Class:

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Refer to current catalog for updated pre-reqs

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**Human Diversity Requirement**  
Satisfied with:

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