

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

Undergraduate Catalog - 2018/2019

Total undergraduate credits: 120

Name: \_\_\_\_\_

Z-ID: \_\_\_\_\_

Advisor: \_\_\_\_\_

Freshman (Fall)	
<input type="checkbox"/>	ENGL 103 - Rhetoric & Composition I (F,S)
<input type="checkbox"/>	MATH 155 - Trigonometry (F,S) <i>PRQ: MATH 110 w/C or Placement Exam</i>
<input type="checkbox"/>	CHEM 110 - General Chemistry I (F,S)
<input type="checkbox"/>	CHEM 111 - General Chemistry I Lab (F,S)
<input type="checkbox"/>	COMS 100 - Fundamentals of Oral Communications (F,S)
<input type="checkbox"/>	Gen. Ed. 1 (Creativity/Critical Analysis) Class: _____

Freshman (Spring)	
<input type="checkbox"/>	TECH 211 - Computer-Aided-Design (F,S)
<input type="checkbox"/>	ENGL 203 - Rhetoric & Composition II (F,S) <i>PRQ: ENG 103 w/C</i>
<input type="checkbox"/>	PHYS 150 - Physics (F,S)
<input type="checkbox"/>	PHYS 151 - Physics Lab (F,S)
<input type="checkbox"/>	Gen. Ed. 2 (Creativity/Critical Analysis) Class: _____
<input type="checkbox"/>	Gen. Ed. 3 (Society/Culture) Class: _____

Sophomore (Fall)	
<input type="checkbox"/>	TECH 175 - Electricity and Electrical Fund. (F,S) <i>PRQ: MATH 155 w/C, PHYS 150&amp;151 or 210 CRQ: T175A</i>
<input type="checkbox"/>	TECH 175A - Electricity and Electrical Fund Lab (F,S) <i>CRQ: Tech 175</i>
<input type="checkbox"/>	TECH 265 - Basic Manufacturing Processes (F,S) <i>PRQ: MATH 155 w/C</i>
<input type="checkbox"/>	TECH 260 - Metal Fabrication Processes (F,S) <i>PRQ: MATH 155 and T211</i>
<input type="checkbox"/>	STAT 208 - Basic Stats or STAT 301 - Elementary Stats (F,S)

Sophomore (Spring)	
<input type="checkbox"/>	TECH 262 - Machine Production Processes (F,S) <i>PRQ: T211</i>
<input type="checkbox"/>	TECH 404 - Supervision in Industry (F,S) <i>PRQ: STAT 208</i>
<input type="checkbox"/>	TECH 492 - Manufacturing Distribution Applications (F) <i>PRQ: MATH 155, STAT 208</i>
<input type="checkbox"/>	TECH 311 - Computer-Aided Design (S) <i>PRQ: T211 w/C</i>
<input type="checkbox"/>	Gen. Ed. 4 (Society/Culture) Class: _____

Junior (Fall)	
<input type="checkbox"/>	TECH 391 - Industrial Quality Control (F,S) <i>PRQ: MATH 155, STAT 208 or 301</i>
<input type="checkbox"/>	TECH 429 - Plant location, Layout, and Materials Handling (F) <i>PRQ: MATH 155, T265</i>
<input type="checkbox"/>	TECH 313 - Product Des. and Dev. For Manufacturability (F) <i>PRQ: MATH 155, T311, T265</i>
<input type="checkbox"/>	Gen. Ed. 5 (Any Knowledge Domain) Class: _____
<input type="checkbox"/>	ACCY 288 - Fund of Acctg or ACCY 206 - Intro Financial Acctg (F,S)

Junior (Spring)	
<input type="checkbox"/>	TECH 406 - Facilities Management Technology (S) <i>PRQ: MATH 155, T211</i>
<input type="checkbox"/>	TECH 415 - Applied Industrial Experimental Analysis (S) <i>PRQ: MATH 155, STAT 208</i>
<input type="checkbox"/>	ENGL 308 - Tech Writing or MGMT 346 - Business Comms (F,S) <i>MGMT 346 PRQ: COMS 100, ENG 203 or 204, Jr. Standing</i>
<input type="checkbox"/>	TECH 312 - Design Dimensioning and Tolerancing (S) <i>PRQ: T211, T260 or T265</i>
<input type="checkbox"/>	Ind Mgmt & Tech Elective 1 Class: _____

Senior (Fall)	
<input type="checkbox"/>	TECH 434 - Human Factors in Accident Prevention (F,S)
<input type="checkbox"/>	TECH 365 - Metrology (F) <i>PRQ: T211, MATH 155</i>
<input type="checkbox"/>	Ind Mgmt & Tech Elective 2 Class: _____
<input type="checkbox"/>	Design & Production Elective 1 Class: _____
<input type="checkbox"/>	Tech Elective 1 Class: _____

Senior (Spring)	
<input type="checkbox"/>	TECH 496 - Industrial Project Management (F,S) <i>PRQ: T429, T415, MGMT 346 or ENGL 308</i>
<input type="checkbox"/>	Design & Production Elective 2 Class: _____
<input type="checkbox"/>	Tech Elective 2 Class: _____
<input type="checkbox"/>	General Elective 1 Class: _____
<input type="checkbox"/>	General Elective 2 Class: _____

Industrial Management and Technology Electives (Choose 2)		
TECH 305 - Green Technologies (F,S) <i>PRQ: MATH 155, CHEM 110</i>	TECH 411 - Env. Sust. Practices for IND Ops. (F) <i>PRQ: MATH 155 with C or better, T245 or T305</i>	TECH 443 - Engineering Economy (S) <i>PRQ: MATH 155</i>
TECH 402 -Ind. Training and Evaluation	TECH 419 - Energy Auditing (F,S) <i>PRQ: MATH 155 w/C</i>	TECH 444-Production Control Systems (S) <i>PRQ: MATH 155, T265</i>
TECH 407 - Maintenance Management Tech (F) <i>PRQ: Either STAT 208 or 301, T265</i>	TECH 442 - Work Simp. and Measurement (F) <i>PRQ: MATH 155, T265</i>	TECH 484 - Energy Management (F) <i>PRQ: MATH 155</i>

Design & Production Electives (Choose 2):	
TECH 314 - Tool and Die Design (F) <i>PRQ: MATH 155, T211, T265</i>	TECH 409 - Internship <i>PRQ: Junior standing, department consent</i>
TECH 325 - Programmable Electronic Controllers (F) <i>PRQ: T175, T175A, T265, CSCI 215 or CSCI 240 or T295</i>	TECH 417 - Design for Energy Efficient and Green Materials (F) <i>PRQ: MATH 155, PHYS 210</i>
TECH 344 - Materials and Processes in the Plastics Industry (F) <i>PRQ: MATH 155, T265, CHEM 110</i>	

Refer to current catalog for updated pre-reqs

Human Diversity Requirement
Satisfied with: _____

**Industrial Management & Technology: Electronics Technology Course Sequence**

**Undergraduate Catalog - 2018/2019**

**Total undergraduate credits: 120**

Name: \_\_\_\_\_

Z-ID: \_\_\_\_\_

Advisor: \_\_\_\_\_

Freshman (Fall)	
<input type="checkbox"/>	ENGL103 - Rhetoric & Composition I (F,S)
<input type="checkbox"/>	MATH 155 - Trigonometry (F,S) <i>PRQ: MATH 110 w/C or Placement Exam</i>
<input type="checkbox"/>	PHYS 150 - Physics (F,S)
<input type="checkbox"/>	PHYS 151 - Physics Lab (F,S)
<input type="checkbox"/>	COMS100 - Fundamentals of Oral Communications (F,S)
<input type="checkbox"/>	Gen. Ed. 1 (Creativity/Critical Analysis) Class: _____

Freshman (Spring)	
<input type="checkbox"/>	TECH 211 - CAD/Computer-Aided Modeling (F,S)
<input type="checkbox"/>	ENGL 203 - Rhetoric & Composition II (F,S) <i>PRQ: ENG 103 w/C</i>
<input type="checkbox"/>	CHEM 110 - General Chemistry I (F,S)
<input type="checkbox"/>	CHEM 111 - General Chemistry I Lab (F,S)
<input type="checkbox"/>	TECH 175 - Electricity and Electrical Fund. (F,S) T175A Lab <input type="checkbox"/> <i>PRQ: MATH 155 w/C, PHYS 150&amp;151 or 210 CRQ: T175A</i>

Sophomore (Fall)	
<input type="checkbox"/>	TECH 265 - Basic Manufacturing Processes (F,S) <i>PRQ: MATH 155 w/C</i>
<input type="checkbox"/>	TECH 270 - Elec. Fund. And Circuit Analysis (F) T270A Lab <input type="checkbox"/> <i>PRQ: MATH 155 w/C, PHYS 150/151 or 210 or 253, T175A w/C</i>
<input type="checkbox"/>	TECH 434 - Human Factors in Accident Prevention (F,S)
<input type="checkbox"/>	STAT 208 - Basic Stats or STAT 301 - Elementary Stats (F,S)
<input type="checkbox"/>	Gen. Ed. 2 (Society/Culture) Class: _____

Sophomore (Spring)	
<input type="checkbox"/>	TECH 404 - Supervision in Industry (S) <i>PRQ: STAT 208</i>
<input type="checkbox"/>	TECH 492 - Manufacturing Distribution Applications (S) <i>PRQ: MATH 155, STAT 208</i>
<input type="checkbox"/>	ACCY 288 - Fund of Acctg or ACCY 206 - Intro Financial Acctg (F,S)
<input type="checkbox"/>	Gen. Ed. 3 (Creativity/Critical Analysis) Class: _____
<input type="checkbox"/>	TECH 295 Manuf. Comp. Apps. or CSCI 215 or 240 (F,S) <i>PRQ: MATH 155 w/C (CSCI 240 PRQ: MATH 210)</i>

Junior (Fall)	
<input type="checkbox"/>	TECH 391 - Industrial Quality Control (F,S) <i>PRQ: MATH 155, STAT 208 or 301</i>
<input type="checkbox"/>	TECH 429 - Plant location, Layout, and Materials Handling (F) <i>PRQ: MATH 155, T265</i>
<input type="checkbox"/>	TECH 277 - Digital Logic Design (F) T277A Lab <input type="checkbox"/> <i>PRQ: PHYS 211 or T175/175A</i>
<input type="checkbox"/>	Gen. Ed. 4 (Society/Culture) Class: _____
<input type="checkbox"/>	TECH 325 - Programmable Electronic Controllers (F) <i>PRQ: T175, T175A, T265, CSCI 215 or 240 or T295</i>

Junior (Spring)	
<input type="checkbox"/>	TECH 406 - Facilities Management Technology (S) <i>PRQ: MATH 155, T211</i>
<input type="checkbox"/>	TECH 415 - Applied Industrial Experimental Analysis (S) <i>PRQ: MATH 155, STAT 208</i>
<input type="checkbox"/>	ENGL 308 - Tech Writing or MGMT 346 - Business Comms (F,S) <i>MGMT 346 PRQ: COMS 100, ENG 203 or 204, Jr Status</i>
<input type="checkbox"/>	TECH 377 - Microprocessors and Interfacing (S) <i>PRQ: T277</i>
<input type="checkbox"/>	Electrical Elective 1 Class: _____

Senior (Fall)	
<input type="checkbox"/>	Gen. Ed. 5 (Any Knowledge Domain) Class: _____
<input type="checkbox"/>	Electrical Elective 2 Class: _____
<input type="checkbox"/>	Ind Mgmt & Tech Elective 1 Class: _____
<input type="checkbox"/>	General Elective 1 Class: _____
<input type="checkbox"/>	Tech Elective 1 Class: _____

Senior (Spring)	
<input type="checkbox"/>	TECH 496 - Industrial Project Management (F,S) <i>PRQ: T429, T415, MGMT 346 or ENGL 308, Sr. Status</i>
<input type="checkbox"/>	Ind Mgmt & Tech Elective 2 Class: _____
<input type="checkbox"/>	Tech Elective 2 Class: _____
<input type="checkbox"/>	General Elective 2 Class: _____

Industrial Management and Technology Electives (Choose 2)		
TECH 305 - Green Technologies (F,S) <i>PRQ: MATH 155, CHEM 110</i>	TECH 411 - Env. Sust. Practices for IND Ops. (F) <i>PRQ: MATH 155 with C or better, T245 or T305</i>	TECH 443 - Engineering Economy (S) <i>PRQ: MATH 155</i>
TECH 402 -Ind. Training and Evaluation	TECH 419 - Energy Auditing (F,S) <i>PRQ: MATH 155 w/C</i>	TECH 444-Production Control Systems (S) <i>PRQ: MATH 155, T265</i>
TECH 407 - Maintenance Management Tech (F) <i>PRQ: Either STAT 208 or 301, T265</i>	TECH 442 - Work Simp. and Measurement (F) <i>PRQ: MATH 155, T265</i>	TECH 484 - Energy Management (F) <i>PRQ: MATH 155</i>

Electrical Electives (choose two):	
TECH 409 - Internship <i>PRQ: Jr. Standing, Department Consent</i>	TECH 426 - Electric Systems Applications for Alternative Energy <i>PRQ: MATH 155 w/C, TECH 175 &amp; 175A</i>
TECH 419 - Energy Auditing (F,S) <i>PRQ: MATH 155 with a C or better</i>	TECH 430 - Microcontrollers Systems and Internet of Things (F) <i>PRQ: T377</i>
TECH 425 - Advanced Programmable Electronic Controllers (S) <i>PRQ: T325</i>	TECH 473 - Advanced Digital Design (S) <i>PRQ: T277 &amp; T277A, CSCI 240</i>

Refer to current catalog for updated pre-reqs

Human Diversity Requirement
Satisfied with: _____

**Industrial Management & Technology: Environmental Health & Safety Course Sequence**

Name: \_\_\_\_\_

Undergraduate Catalog - 2018/2019

Z-ID: \_\_\_\_\_

Total undergraduate credits: 120

Advisor: \_\_\_\_\_

Freshman (Fall)	
<input type="checkbox"/>	ENGL 103 - Rhetoric & Composition I (F,S)
<input type="checkbox"/>	MATH 155 - Trigonometry (F,S) <i>PRQ: MATH 110 w/C</i>
<input type="checkbox"/>	CHEM 110 - General Chemistry I (F,S)
<input type="checkbox"/>	CHEM 111 - General Chemistry I Lab (F,S)
<input type="checkbox"/>	COMS 100 - Fund of Oral Communications (F,S)
<input type="checkbox"/>	Gen. Ed. 1 (Creativity/Critical Analysis) Class: _____

Freshman (Spring)	
<input type="checkbox"/>	TECH 211 - CAD/Computer-Aided Modeling (F,S)
<input type="checkbox"/>	ENGL 203 - Rhetoric & Composition II (F,S) <i>PRQ: ENG 103 w/C</i>
<input type="checkbox"/>	PHYS 150 - Physics (F,S)
<input type="checkbox"/>	PHYS 151 - Physics Lab (F,S)
<input type="checkbox"/>	Gen. Ed. 2 (Creativity/Critical Analysis) Class: _____
<input type="checkbox"/>	Gen. Ed. 3 (Society/Culture) Class: _____

Sophomore (Fall)	
<input type="checkbox"/>	TECH 175/A - Electricity and Electrical Fund. (F,S) <i>PRQ: MATH 155 w/C, PHYS 150&amp;151 or 210 CRQ: T175A</i>
<input type="checkbox"/>	TECH 175A - Electricity and Electrical Fund Lab (F,S) <i>CRQ: T175A</i>
<input type="checkbox"/>	TECH 265 - Basic Manufacturing Processes (F,S) <i>PRQ: MATH 155 w/C</i>
<input type="checkbox"/>	TECH 231 - Safety Programs (F)
<input type="checkbox"/>	STAT 208 - Basic Stats or STAT 301 - Elementary Stats (F,S)
<input type="checkbox"/>	Gen. Ed. 4 (Society/Culture) Class: _____

Sophomore (Spring)	
<input type="checkbox"/>	TECH 404 - Supervision in Industry (F,S) <i>PRQ: STAT 208</i>
<input type="checkbox"/>	ACCY 288 - Fund of Acctg or ACCY 206 - Intro Financial Acctg (F,S)
<input type="checkbox"/>	TECH 245 - Pollution Prevention and Sustainable Production (S)
<input type="checkbox"/>	TECH 434 - Human Factors in Accident Prevention (F,S)
<input type="checkbox"/>	TECH 492 - Manufacturing Distribution Applications (F) <i>PRQ: MATH 155, STAT 208</i>

Junior (Fall)	
<input type="checkbox"/>	TECH 391 - Industrial Quality Control (F,S) <i>PRQ: MATH 155, STAT 208 or 301</i>
<input type="checkbox"/>	TECH 429 - Plant location, Layout, and Materials Handling (F) <i>PRQ: MATH 155, T265</i>
<input type="checkbox"/>	EHS Elective 1 Class: _____
<input type="checkbox"/>	Ind Mgmt & Tech Elective 1 Class: _____
<input type="checkbox"/>	Gen. Ed. 5 (Any Knowledge Domain) Class: _____

Junior (Spring)	
<input type="checkbox"/>	TECH 406 - Facilities Management Technology (S) <i>PRQ: MATH 155, T211</i>
<input type="checkbox"/>	TECH 415 - Applied Industrial Experimental Analysis (S) <i>PRQ: MATH 155, STAT 208</i>
<input type="checkbox"/>	ENGL 308 - Tech Writing or MGMT 346 - Business Comms (F,S) <i>MGMT 346 PRQ: COMS 100, ENGL 203 or 204, Jr.Standing</i>
<input type="checkbox"/>	TECH 436 - Des & Admin of Ind Safety Systems (S) <i>PRQ: T231, T434, or consent of department</i>
<input type="checkbox"/>	EHS Elective 2 Class: _____

Senior (Fall)	
<input type="checkbox"/>	TECH 441 - Hazard Control in Industrial Operations (F) <i>PRQ: MATH 155 w/C, PHYS 150/151, T231, T245</i>
<input type="checkbox"/>	TECH 437 - Fundamentals of Industrial Hygiene (F) <i>PRQ: CHEM 110/111, PHYS 150/151, T231, T415</i>
<input type="checkbox"/>	Ind Mgmt & Tech Elective 2 Class: _____
<input type="checkbox"/>	Tech Elective 1 Class: _____

Senior (Spring)	
<input type="checkbox"/>	TECH 496 - Industrial Project Management (F,S) <i>PRQ: T429, T415, MGMT 346 or ENGL 308, Sr. Status</i>
<input type="checkbox"/>	Tech Elective 2 Class: _____
<input type="checkbox"/>	General Elective 1 Class: _____
<input type="checkbox"/>	General Elective 2 Class: _____
<input type="checkbox"/>	TECH 481 - Ergonomics (F) <i>PRQ: T434, MATH 155 w/C, PHYS 150/151 or 210</i>

Industrial Management and Technology Electives (Choose 2)		
TECH 305 - Green Technologies (F,S) <i>PRQ: MATH 155, CHEM 110</i>	TECH 411 - Env. Sust. Practices for IND Ops. (F) <i>PRQ: MATH 155 with C or better, T245 or T305</i>	TECH 443 - Engineering Economy (S) <i>PRQ: MATH 155</i>
TECH 402 - Ind. Training and Evaluation	TECH 419 - Energy Auditing (F,S) <i>PRQ: MATH 155 w/C</i>	TECH 444 - Production Control Systems (S) <i>PRQ: MATH 155, T265</i>
TECH 407 - Maintenance Management Tech (F) <i>PRQ: Either STAT 208 or 301, T265</i>	TECH 442 - Work Simp. and Measurement (F) <i>PRQ: MATH 155, T265</i>	TECH 484 - Energy Management (S) <i>PRQ: MATH 155</i>

Environmental Health and Safety Electives (choose two):	
TECH 409 - Internship <i>PRQ: Jr. Standing, Department Consent</i>	TECH 438 - Safety in Transportation systems (S) <i>PRQ: CHEM 110 &amp; 111, MATH 155 w/C, T231, T245</i>
TECH 432 - Disaster Preparedness (F,S)	TECH 468 - Construction Safety Management (S) <i>PRQ: MATH 155 w/C, PHYS 150/151 or 210, T231</i>
TECH 433 - Chemical Hazards in Industry (S) <i>PRQ: CHEM 110 &amp; 111, MATH 155 w/C, T231 or T245</i>	TECH 485 - Risk Management (F) <i>PRQ: MATH 155 w/C, Phys 150 &amp; 151, T231, T245, T434</i>
TECH 435 - Legal Aspects of Safety	

Refer to current catalog for updated pre-reqs

<b>Human Diversity Requirement</b>
Satisfied with: _____