

Industrial Management & Technology: Design and Production Course Sequence
Undergraduate Catalog - 2019/2020
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 - 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 - Electricity and Electrical Fund. (F,S) <i>PRQ: MATH 155 w/C, PHYS 150&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 100 - Basic Stats or STAT 200 - 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 100</i>
<input type="checkbox"/>	TECH 492 - Manufacturing Distribution Applications (F) <i>PRQ: MATH 155, STAT 100, TECH 265</i>
<input type="checkbox"/>	TECH 311 - Adv Computer-Aided Modeling (F, 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 100 or 200</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"/>	TECH 406 - Facilities Management Technology (F) <i>PRQ: MATH 155, T211</i>

Junior (Spring)	
<input type="checkbox"/>	TECH 415 - Applied Industrial Experimental Analysis (S) <i>PRQ: MATH 155, STAT 100</i>
<input type="checkbox"/>	TECH 312 - Design Dimensioning and Tolerancing (S) <i>PRQ: T211, T260 or T265</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"/>	Ind Mgmt & Tech Elective 1 Class: _____
<input type="checkbox"/>	ACCY 288 - Fund of Acctg or ACCY 206 - Intro Financial Acctg (F,S)

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; Senior Status 90 hrs</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 Industrial 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 (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 <i>PRQ: Either STAT 100 or 200, 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 414 - Computer-Aided Machine Design (F) <i>PRQ: PHYS 150/151, TECH 265, TECH 311</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 150/151 or PHYS 210</i>
TECH 344 - Materials and Processes in the Plastics Industry (F) <i>PRQ: MATH 155, T265, CHEM 110</i>	TECH 295 - Mfg Computer Apps <i>PRQ: Math 155, Tech 265</i> OR CSCI 215-Visual Basic <i>PRQ: MATH 110 or higher Math</i> OR CSCI 240-Comp Programming C++ (F, S) <i>PRQ: MATH 110 or higher Math</i>
TECH 409 - Internship <i>PRQ: Junior standing, department consent</i>	

Refer to current catalog for updated pre-reqs

Human Diversity Requirement
Satisfied with: _____