

Energy and Environmental 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</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"/>	COMS100 - Fundamentals of Oral Communication (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"/>	MATH 229 - Calculus 1 (F,S) <i>PRQ: MATH 155 w/C</i>
<input type="checkbox"/>	PHYS 150 - Physics (F,S)
<input type="checkbox"/>	PHYS 151 - Physics Lab (F,S) <i>CRQ: PHYS 150</i>

Sophomore (Fall)	
<input type="checkbox"/>	TECH175 - Electricity and Electrical Fund. (F,S) T175A Lab <i>PRQ: MATH 155 w/C, PHYS 150&151 or 210 CRQ: T175A</i>
<input type="checkbox"/>	STAT 208 - Basis Stats or STAT 301 - Elementary Stats (F,S)
<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"/>	Gen. Ed. 2 (Society/Culture) Class: _____

Sophomore (Spring)	
<input type="checkbox"/>	TECH 305 - Green Technologies (F,S) <i>PRQ: MATH 155, CHEM 110</i>
<input type="checkbox"/>	GEOG 256 - Maps and Mapping (F,S)
<input type="checkbox"/>	TECH 295 or CSCI 215 or CSCI 240 (F,S) <i>PRQ: MATH 155 w/C, T265 (CSCI 240 PRQ: MATH 110)</i>
<input type="checkbox"/>	TECH 245 - Pollution Prevention & Sustainable Production (S)
<input type="checkbox"/>	Gen. Ed. 3 (Creativity/Critical Analysis) 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 417 - Design for Energy Efficiency and Green Materials (F) <i>PRQ: MATH 155, PHYS 150 & 151, or PHYS 210</i>
<input type="checkbox"/>	TECH 411 - Env Sustainability Practices for Ind Ops (F) <i>PRQ: MATH 155 w/C, T245 or T305</i>
<input type="checkbox"/>	GEOG 359 - Intro to Geographic Info Systems (F,S) <i>PRQ: GEOG 256 or 352</i>
<input type="checkbox"/>	Gen. Ed. 4 (Society/Culture) Class: _____

Junior (Spring)	
<input type="checkbox"/>	TECH 406 - Facilities Management Technology (S) <i>PRQ: MATH 155, T211</i>
<input type="checkbox"/>	TECH 416 - Heating, Vent. and Air Cond. Technology (S) <i>PRQ: MATH 155, PHYS 150 & 151 or 210</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 443 - Engineering Economy (S) <i>PRQ: MATH 155</i>
<input type="checkbox"/>	TECH 326 - Fluid Power Technology (S) <i>PRQ: MATH 229, PHYS 150 & 151 or 210</i>

Senior (Fall)	
<input type="checkbox"/>	TECH 419 - Energy Auditing (F,S) <i>PRQ: MATH 155 w/C</i>
<input type="checkbox"/>	TECH 325 - Programmable Electronic Controllers (F) <i>PRQ: T175, T175A, T265, CSCI 215 or CSCI 240 or T295</i>
<input type="checkbox"/>	ENVS 304 - Environmental Law, Policy, & Economics (F)
<input type="checkbox"/>	Tech Elective 1 Class: _____
<input type="checkbox"/>	TECH 407 - Maintenance Management Technology (F) <i>PRQ: Either STAT 208 or 301 and T265</i>

Senior (Spring)	
<input type="checkbox"/>	TECH 445 - Industrial Energy Utilization and Env. Impacts (S) <i>PRQ: MATH 155, CHEM 110 or 210</i>
<input type="checkbox"/>	TECH 496 - Industrial Project Management (F,S) <i>PRQ: MGMT 346 or ENGL 308, TECH 416, TECH 419, Senior Status 90+ hrs</i>
<input type="checkbox"/>	Tech Elective 2 Class: _____
<input type="checkbox"/>	General Elective 1 Class: _____
<input type="checkbox"/>	Gen. Ed. 5 (Any Knowledge Domain) Class: _____

Technology Electives (Choose 2)	
ENVS 301 - Environmental Sciences I: Physical Systems <i>PRQ: None</i>	TECH 426 - Electric Systems Applications for Alternative Energy (F) <i>PRQ: MATH 155 with a C or better, and PHYS 211 or TECH 175 and 175A</i>
ENVS 302 - Environmental Sciences II: Biological Systems <i>PRQ: ENVS 301</i>	TECH 427 - Testing Methods, Procedures, and Selection of Sust. Plastics <i>PRQ: T265 or T344, CHEM 110, ENGL 308</i>
GEOG 455 - Land-Use Planning <i>PRQ: None</i>	TECH 437 - Fundamentals of Industrial Hygiene (F) <i>PRQ: CHEM 110&111, PHYS 150 & 151, T231, T415</i>
GEOG 459 - Geographic Information Systems <i>PRQ: GEOG 359</i>	TECH 441 - Hazard Control in Industrial Operations (F) <i>PRQ: MATH 155 with a C or better, PHYS 150 & 151, T231 and T245</i>
TECH 409 - Internship (F,S) <i>PRQ: Jr, Standing, Department Consent</i>	TECH 479 - Special Topics in Engineering Technology (F) <i>See my NIU for any prerequisites for semester</i>
TECH 415 - Applied Industrial Experimental Analysis (S) <i>PRQ: MATH 155, STAT 208</i>	

Refer to current catalog for updated pre-reqs

Human Diversity Requirement
Satisfied with: _____