| Energy and Environmental Technology Course sequence | Name: ____________________________ | Z-ID: ____________________________ | Advisor: ____________________________ |
|---------------------------------------------------|-----------------------------------|-----------------------------------|
| Undergraduate Catalog - 2019/2020                 |                                    |                                   |
| Total undergraduate credits: 120                 |                                    |                                   |

**Freshman (Fall)**

- ENGL103 - Rhetoric & Composition I (F,S)
- MATH 155 - Trigonometry (F,S)
  - PRQ: MATH 110
- CHEM 110 - General Chemistry I (F,S)
- CHEM 111 - General Chemistry I Lab (F,S)
- COMS100 - Fundamentals of Oral Communication (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
- MATH 229 - Calculus 1 (F,S)
  - PRQ: MATH 155
- PHYS 150 - Physics (F,S)
- PHYS 151 - Physics Lab (F,S)
  - CRQ: PHYS 150

**Sophomore (Fall)**

- TECH175 - Electricity and Electrical Fund. (F,S)
  - PRQ: MATH 155, PHYS 150 or 151
- STAT 100 - Basis Stats or STAT 200 - Elementary Stats (F,S)
- TECH 265 - Basic Manufacturing Processes (F,S)
  - PRQ: MATH 155
- TECH 231 - Safety Programs (F)
- Gen. Ed. 2 (Society/Culture) Class: ____________

**Sophomore (Spring)**

- TECH 305 - Green Technologies (F,S)
  - PRQ: MATH 155, CHEM 110
- GEOG 256 - Maps and Mapping (F,S)
- TECH 295 or CSCI 215 or CSCI 240 (F,S)
  - PRQ: MATH 155 w/C, T265 (CSCI 240 PRQ: MATH 110)
- TECH 245 - Pollution Prevention & Sustainable Production (S)
- Gen. Ed. 3 (Creativity/Critical Analysis) Class: ____________

**Junior (Fall)**

- TECH 391 - Industrial Quality Control (F,S)
  - PRQ: MATH 155, STAT 100 or 200
- TECH 417 - Design for Energy Efficiency and Green Materials (F)
  - PRQ: MATH 155, PHYS 150 or 151, or PHYS 210
- TECH 411 - Env Sustainability Practices for Ind Ops (F)
  - PRQ: MATH 155 w/C, T245 or T265
- GEOG 359 - Intro to Geographic Info Systems (F,S)
  - PRQ: GEOG 256 or 352
- Gen. Ed. 4 (Society/Culture) Class: ____________

**Junior (Spring)**

- TECH 419 - Energy Auditing (S)
  - PRQ: MATH 155
- TECH 416 - Heating, Vent, and Air Cond. Technology (S)
  - PRQ: MATH 155, PHYS 150 or 151
- ENGL 308 - Tech Writing or MGMT 346 - Business Comms (F,S)
  - MGMT 346 PRQ: COMS 100, ENG 203 or 204, Jr. Standing
- TECH 443 - Engineering Economy (S)
  - PRQ: MATH 155
- TECH 326 - Fluid Power Technology (F, S)
  - PRQ: MATH 229, PHYS 150 or 151

**Senior (Fall)**

- TECH 406 - Facilities Management Technology (F)
  - PRQ: MATH 155, T211
- TECH 325 - Programmable Electronic Controllers (F)
  - PRQ: T175, T175A, T265, CSCI 215 or CSCI 240 or T295
- ENVS 304 - Environmental Law, Policy, & Economics (F)
- Tech Elective 1 Class: ____________
- TECH 407 - Maintenance Management Technology
  - PRQ: STAT 100 or 200 and T265

**Senior (Spring)**

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

**Technology Electives (Choose 2)**

- ENVS 301 - Environmental Sciences I: Physical Systems (S)
- ENVS 302 - Environmental Sciences II: Biological Systems (F)
  - PRQ: ENVS 301
- GEOG 455 - Land-Use Planning (S)
- GEOG 459 - Geographic Information Systems (F)
  - PRQ: GEOG 359
- TECH 409 - Internship (F,S)
  - PRQ: Jr. Standing, Department Consent
- TECH 415 - Applied Industrial Experimental Analysis (S)
  - PRQ: MATH 155, STAT 100
- TECH 426 - Electric Systems Applications for Alternative Energy (S)
  - PRQ: MATH 155 with a C or better, and TECH 276 & 276A
- TECH 427 - Testing Methods, Procedures, and Selection of Sust. Plastics
  - PRQ: T265 or T344, CHEM 110, ENGL 308
- TECH 437 - Fundamentals of Industrial Hygiene (F)
  - PRQ: CHEM 110 or 111, PHYS 150 or 151, T231, T415
- TECH 441 - Hazard Control in Industrial Operations (F)
  - PRQ: MATH 155 with a C or better, PHYS 150 or 151, T231 and T245
- TECH 479 - Special Topics in Engineering Technology (S)
  - See my NIU for any prerequisites for semester

Refer to current catalog for updated pre-reqs

**Human Diversity Requirement**

Satisfied with: ____________________________