

Electrical Engineering Technology B.S. Course Sequence (typical)

Total undergraduate credits: 124 Catalog Year: 2017-18

Name: _____

Z-ID: _____

Advisor: _____

Freshman (Fall)	
<input type="checkbox"/>	ENGL103 - Composition I (F,S)
<input type="checkbox"/>	COMS 100 - Fundamentals of Oral Communication (F,S)
<input type="checkbox"/>	MATH 229 - Calculus I (F,S) <i>PRQ: MATH 155 w/C</i>
<input type="checkbox"/>	PHYS 210 - General Physics or PHYS 253 (F,S) <i>PRQ: MATH 155 (PHYS 253 CRQ: MATH 229)</i>
<input type="checkbox"/>	Gen. Ed.1 (Creativity/Critical Analysis) Class: _____

Freshman (Spring)	
<input type="checkbox"/>	CHEM 110 - Chem or CHEM 210 - General Chem I (F,S)
<input type="checkbox"/>	CHEM 111 - Chem Lab or CHEM 212 - Gen Chem Lab I (F,S)
<input type="checkbox"/>	ENGL 203 - Composition II (F,S) <i>PRQ: ENG 103 w/C</i>
<input type="checkbox"/>	MATH 230 - Calculus II (F,S) <i>PRQ: MATH 229 w/C</i>
<input type="checkbox"/>	TECH 175 - Elec. & Elect. Fund. (F,S) T175A Lab <input type="checkbox"/> <i>PRQ: MATH 155 w/C, PHYS 150&151 or 210 CRQ: T175A</i>

Sophomore (Fall)	
<input type="checkbox"/>	TECH 211 - CAD/Computer-Aided Modeling (F,S)
<input type="checkbox"/>	TECH 270 - Elec. Fund & Circuit Analysis I (F) T270A Lab <input type="checkbox"/> <i>PRQ: MATH 155 w/C, T175 w/C, PHYS 150/151 or 210 or 253, Crq: 270A Lab</i>
<input type="checkbox"/>	TECH 277 - Digital Logic Design (F) T277A Lab <input type="checkbox"/> <i>PRQ: PHYS 211 or both T175 & T175A; CRQ: T277A</i>
<input type="checkbox"/>	CSCI 240 - Computer Programming in C++ (F,S) <i>PRQ: MATH 110</i>
<input type="checkbox"/>	Gen. Ed. 2 (Creativity/Critical Analysis) Class: _____

Sophomore (Spring)	
<input type="checkbox"/>	TECH 271 - Elec. Fund & Circuit Analysis II (S) T271A Lab <input type="checkbox"/> <i>PRQ: T270; CRQ: MATH 229, PHYS 210 or 253, T271A</i>
<input type="checkbox"/>	TECH 276 - Electronics I (S) T276A Lab <input type="checkbox"/> <i>PRQ: PHYS 150/151 or 210 or 253, T270; CRQ: T276A</i>
<input type="checkbox"/>	TECH 265 - Basic Manufacturing Processes (F,S) <i>PRQ: MATH 155 w/C</i>
<input type="checkbox"/>	TECH 377 - Microprocessors and Interfacing (S) T377A Lab <input type="checkbox"/> <i>PRQ: T277, CRQ: T377A</i>
<input type="checkbox"/>	EET Elective 1 - Class: _____

Junior (Fall)	
<input type="checkbox"/>	TECH 376 - Electronics II (F) T376A Lab <input type="checkbox"/> <i>PRQ: MATH 229 w/C, T276 CRQ: T376A</i>
<input type="checkbox"/>	TECH 375 - Control Systems (F) <i>PRQ: MATH 230, T271</i>
<input type="checkbox"/>	STAT 208 - Basic Stats or STAT 301 - Elementary Stats (F,S)
<input type="checkbox"/>	EET Elective 2 - Class: _____
<input type="checkbox"/>	EET Elective 3 - Class: _____

Junior (Spring)	
<input type="checkbox"/>	TECH 378 - Com. System Design I (S) T378A Lab <input type="checkbox"/> <i>PRQ: MATH 229 w/C, T276 CRQ: T378A or Dept Consent</i>
<input type="checkbox"/>	TECH 379 - Elec. Machines and Transformers (s) T379A Lab <input type="checkbox"/> <i>PRQ: MATH 229 w/C, T271 CRQ: 379A</i>
<input type="checkbox"/>	Engl 308 - Tech Writing or Mgmt 346 - Business Comms (F,S) <i>PRQ: COMS 100, ENG 203 or 204, Jr. Standing</i>
<input type="checkbox"/>	EET Elective 4 - Class: _____

Senior (Fall)	
<input type="checkbox"/>	TECH 477 - Egr Tech Senior Design Project I (F,S) <i>PRQ: ENGL 308, T376, T377, T378</i>
<input type="checkbox"/>	Gen. Ed. 3 (Society/Culture) Class: _____
<input type="checkbox"/>	Gen. Ed. 4 (Society/Culture) Class: _____
<input type="checkbox"/>	EET Elective 5 - Class: _____
<input type="checkbox"/>	EET Elective 6 - Class: _____

Senior (Spring)	
<input type="checkbox"/>	TECH 478 - Egr Tech Senior Design Project II (F,S) <i>PRQ: T477</i>
<input type="checkbox"/>	EET Elective 7 - Class: _____
<input type="checkbox"/>	EET elective 8 - Class: _____
<input type="checkbox"/>	Gen. Ed. 5 (Any Knowledge Domain) Class: _____

Electives (24 Total Hours Required)

Electives - Choose 2 courses	
<input type="checkbox"/>	TECH 295 - Mfg Comp Apps or CSCI 215 - Visual Basic (F,S) <i>PRQ: MATH 155 w/C, T265</i>
<input type="checkbox"/>	TECH 409 - Internship <i>PRQ: Jr. Standing, Department Consent</i>
<input type="checkbox"/>	TECH 419 - Energy Auditing (F,S) <i>PRQ: MATH 155 w/C</i>
<input type="checkbox"/>	TECH 425 - Programmable Electronic Controllers (F,S) <i>PRQ: T175, T265, T295 or CSCI 215 or 240</i>
<input type="checkbox"/>	TECH 445 - Ind Energy Utilization & Environmental Impacts (S) <i>PRQ: MATH 155 w/C, CHEM 110 or 210</i>
<input type="checkbox"/>	TECH 481 - Ergonomics (F) <i>PRQ: T434, MATH 155 w/C, PHYS 150&151 or 210</i>

Electives - Choose 3 courses	
<input type="checkbox"/>	TECH 426 - Electronic Sys Apps for Alternative Energy (F,S) <i>PRQ: MATH 155 w/C, PHYS 211 or TECH 175 & 175A</i>
<input type="checkbox"/>	TECH 430 - Microcontrollers Interfacing & Applications (F) <i>PRQ: T377, CSCI 240</i>
<input type="checkbox"/>	TECH 470 - Fiber Optics Communications <i>PRQ: T378</i>
<input type="checkbox"/>	TECH 471 - Digital and Data Communication <i>PRQ: T378</i>
<input type="checkbox"/>	TECH 473 - Advanced Digital Design <i>PRQ: T277 & T277A, CSCI 240</i>
<input type="checkbox"/>	TECH 475 - Computer Simulation in Electronics (S) <i>PRQ: T271, T276</i>
<input type="checkbox"/>	TECH 476 - Industrial Control Electronics (S) <i>PRQ: T376, T379, or Dept Consent</i>
<input type="checkbox"/>	TECH 479 - Special Topics in Engineering Technology (F) <i>See my NIU for any prerequisites for semester</i>

Electives - Choose 3 courses

<input type="checkbox"/>	TECH 391 - Industrial Quality Control (F,S) <i>PRQ: MATH 155, STAT 208 or 301</i>
<input type="checkbox"/>	TECH 393 - Structure and Properties of Materials (F) <i>PRQ: T265, CHEM 110 or 210</i>
<input type="checkbox"/>	TECH 415 - Applied Industrial Experimental Analysis (S) <i>PRQ: MATH 155, STAT 208</i>
<input type="checkbox"/>	TECH 417 - Design for Energy Efficiency & Green Materials (F) <i>PRQ: MATH 155, PHYS 210</i>

<input type="checkbox"/>	TECH 420 - Computer-Integrated Manufacturing (F) <i>PRQ: T175/175A, T211, T265</i>
<input type="checkbox"/>	TECH 443 - Engineering Economy (S) <i>PRQ: MATH 155</i>
<input type="checkbox"/>	TECH 444 - Production Control Systems (S) <i>PRQ: MATH 155, T265</i>
<input type="checkbox"/>	TECH 492 - Manufacturing Distribution Applications (F,S) <i>PRQ: MATH 155, T265, STAT 208 or 301</i>

Refer to current catalog for updated pre-reqs

Human Diversity Requirement
Satisfied with: _____