South Bend Supplemental Information Sheet for Electrical Engineering Technology (EETC) Fall 2019 Plan of Study

**BOLD** indicates courses offered at the South Bend location
*Indicates approved IUSB course for South Bend location.

**ECET Electives** (12 hours): ECET Electives can be selected from one or more of the following groups. Please note that **not** all ECET Electives are offered every year and not all ECET Electives are taught at all locations.

<table>
<thead>
<tr>
<th>Group</th>
<th>Courses</th>
</tr>
</thead>
</table>
| **Audio** | ECET 32700 Instrumentation and DAQ Design  
ECET 33900 Digital Signal Processing  
ECET 34900 Advanced Digital Systems  
ECET 38800 Analog IC Applications  
ECET 42800 Audio Electronics-Selected Topics |
| **Communications** | ECET 36400 Fundamentals of Electromagnetics  
ECET 44400 Wireless Systems: Design & Meas  
ECET 31410 Military RF Electronic Apps |
| **Computer/Digital** | ECET 32900 Adv Embedded Digital Systems  
ECET 33500 Computer Arch & Perform Eval |
| **Smart Living** | ECET 33900 Digital Signal Processing  
ECET 34900 Advanced Digital Systems  
ECET 35901 Computer Based DAQ Applications  
ECET 38900 Advanced Digital Signal Processing |
| **Smart Environment** | ECET 31100 Elec Syst & Signals in Healthcare  
ECET 32100 Introduction to Nanotechnology  
ECET 32700 Instrumentation and DAQ Design |
| **Advanced Analysis Selectives** (3 hours) | ECET 33700 Analog Signal Processing  
ECET 33900 Digital Signal Processing |
| **ECET Senior Capstone I and II Selectives** (6 hours): Select one pair of Senior Capstone I and II Selectives  
ECET 43000 Electrical and Electronic Product and Program Management and ECET 46000 Project Design and Development  
ECET 43100 International Capstone Plan and ECET 46100 International Capstone Project Execution  
ENGT 40500 Entrepreneurial Capstone I and ENGT 40600 Entrepreneurial Capstone II |
| **Technical Selectives** (9 hours) | ECET: ECET 29900 and other lab assistant courses is limited to 3 credit hours.  
**College of Engineering**: ME 29700 and Engineering Projects in Community Service (EPICS) are each limited to 3 credit hours.  
First-Year Engineering (ENGR) courses cannot be used.  
**Purdue Polytechnic Institute**: CNIT 13600 & CNIT 15501 cannot be used.  
**College of Science**: Additional lab-based physics (PHYS), chemistry (CHM) and biology (BIOL) courses; Computer Science (CS) courses; and higher-level mathematics (MA) courses: MA 26100, MA 26500 and MA 26600. CS 11000, CS 15800, CS 15900, and CS 23500 cannot be used.  
**College of Liberal Arts**: Up to 9 hours of THTR 25300, THTR 35300, THTR 55300, FVS 26100, FVS 33200, FVS 33700, or FVS 33800.  
ECET Co-op sessions 1, 2, & 3 with seminar.  
ECET 49900 Electrical Engineering Technology – Sust Engy Tech: Intl Perspectv Purdue In Germany |

**Freshman Selective** (3 hours)
- COM 11400 Fundamentals of Speech Communication  
  OR *SPCH-S 121 Public Speaking (IUSB)  
- SCLA 10200 Transformative Texts, Critical Thinking and Communication II: Modern World

**Written Communication Selective** (3 hours)
- ENGL 20500 Introduction to Creative Writing  
- ENGL 30400 Advanced Composition  
- ENGL 42000 Business Writing  
- ENGL 42400 Writing for High Technology Industries

**Oral communication Selective** (3 hours): Any communication (COM) or *SPCH-S courses (IUSB) course at the 20000 level or higher.

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Updated 04/14/2019
English Composition Selective (3 hours)
- ENGL 10600 First-Year Composition or *ENG-W 131 Reading, Writing, & Inquiry (IUSB)
- ENGL 10800 Accelerated First-Year Composition
- SCLA 10100 Transformative Texts, Critical Thinking and Communication I: Antiquity to Modernity

Business Selective (3 hours)
- Any Agricultural Economics course (AGEC) at the 20000-level or higher.
- Any Economics (ECON) course at the 20000-level or higher.
- Any Entrepreneurship (ENTR) course at the 20000-level or higher.
- Any Management (MGMT) course at the 20000-level or higher or *BUS-A 201 Intro to Financial Accounting (IUSB); BUS-L 201

Legal Environment of Business (IUSB)
- Or select one of the following courses:
  - AGEC 20300 Int to Microecon for Food & Agribus (BSS)
  - AGEC 20400 Intro to Resource Economics and Environmental Policy (BSS)
  - AGEC 21700 Economics (BSS)
  - AGEC 25000 The Economic Geography of World Food and Resources (BSS)
  - CSR 34200 Personal Finance
  - ECON 21000 Principles of Economics (BSS)
  - ECON 25100 Microeconomics (BSS)
  - ECON 25200 Macroeconomics (BSS)
  - *ECON-E 103 Microeconomics (IUSB) (BSS)
  - *ECON-E 104 Microeconomics (IUSB) (BSS)
  - IT 10400 Industrial Organizations
  - IT 23000 Industrial Supply Chain Mgmt

General Education Selectives (12 hours)
Select 12 hours in one or more of the subject areas (disciplines) listed below, subject to the following conditions:
- One course must be from the UCC approved list of Human Culture: Humanities (see below)
- One course must be from the UCC approved list of Human Culture: Behavioral/Social Sciences, unless the student selects a Business Selective, which meets the Human Culture: Behavioral/Social Sciences requirement for core.

Human Culture: Humanities Selective (3 hours)
(http://www.purdue.edu/provost/initiatives/curriculum/course.html).
Students attending the South Bend location can go to the following link to review how IU courses transfer to Purdue University to meet Core Course Requirements:

*HIST-H 105 American History I
*HIST-H 106 American History II
*HIST-H 113 History of Western Civilization 1

Human Culture: Behavior/Social Sciences Selective (3 hours)
(http://www.purdue.edu/provost/initiatives/curriculum/course.html), unless the student has selected a course indicated with a BSS to satisfy the Business Selective requirement.
Students attending the South Bend location can go to the following link to review how IU courses transfer to Purdue University to meet Core Course Requirements:

*ECON-E 103 Introduction to Microeconomics
*ECON-E 104 Introduction to Macroeconomics
*POLS-Y 103 Introduction to American Politics
*POLS-Y 109 Introduction to International Relations

*PSY-P 103 Introduction to Psychology
*SOC-S 161 Principles of Sociology
*SOC-S 163 Social Problems

Foreign languages (except for courses in a student’s native language)
- African American Studies (AAS)
- Art and Design (AD),

American Studies (AMST)

ECET Supplemental Information – POS 2019
Updated 04/14/2019
**Industrial Economics Selective** (3 hours)
- IT 45000 Production Cost Analysis
- IET 45100 Monetary Analysis for Industrial Decisions
- TLI 33400 Economic Analysis for Technology Systems

**Minor:** Minors are offered through a variety of disciplines. The discipline offering the minor establishes the requirements. A minor is not required.

### Intercultural Requirement – ALL students must complete

<table>
<thead>
<tr>
<th>Polytechnic Minimum Global Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STEP 1:</strong> Complete the Pre-test Intercultural Development Inventory Assessments (1st year)</td>
</tr>
<tr>
<td><strong>STEP 2:</strong> Complete one (1) of the following global experiences:*</td>
</tr>
<tr>
<td>- Participate in a Purdue University international capstone, collaborative project, or</td>
</tr>
<tr>
<td>- Participate in an international internship (international location), or</td>
</tr>
<tr>
<td>- Participate in a full semester abroad program, or</td>
</tr>
<tr>
<td>- Complete 3 credit hours from the Polytechnic list of recommended Global/Cultural courses.</td>
</tr>
<tr>
<td><strong>STEP 3</strong> Complete the Post-test Intercultural Development Inventory Assessments (4th year)</td>
</tr>
</tbody>
</table>

*Global experiences must take place during the time of enrollment in Polytechnic to complete Step 2. Experiences taken place prior to a student’s initial enrollment will not serve to complete Step 2. Intercultural competencies gained on experiences prior to Polytechnic enrollment will be captured as baseline data on a student’s IDI.

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**Purdue University (West Lafayette) courses that meet the global requirement**

AAS 27100 Intro to African American Studies
AAS 37300 Variable Title: History of Injustice
AGR 20100 Communication Across Cultures
ANSC 38100 Leadership for a Diverse Workplace
ANTH 20300 Biological Bases of Human Social Behavior
ANTH 20500 Human Cultural Diversity
ANTH 21000 Technology and Culture
ANTH 21200 Culture, Food and Health
ANTH 23000 Gender Across Cultures
ANTH 34000 Global Perspectives on Health
ANTH 34100 Culture and Personality
ANTH 37900 Native American Cultures
ARAB 28000 Arabic Culture
ASAM 24000 Intro to Asian American Studies
AT 23300 Ethics and Aviation
CNIT 32000 Policy, Regulation, and Globalization in Information Technology
COM 22400 Communicating in the Global Workplace
COM 30300 Intercultural Communication
COM 32000 Small Group Communication
COM 37300 Self-Presentation & Social Image
COM 41200 Theories of Human Interaction
COM 42300 Leadership, Communication & Organizations
ECET 29000 International Experience
ECET 38001 Global Professional Issues in ET
EDPS 23500 Learning and Motivation
EDPS 30000 Student Leadership Development
EDPS 30100 Peer Counselling Training
EDPS 31500 Collaborative Leadership: Listening
EDPS 31600 Collab Leadership: Cross-cultural Settings
EDPS 31700 Collaborative Leadership: Mentoring
ENGL 41400 Literature & Culture
HDFS 33200 Stress & Coping in Contemporary Families
HEBR 38500 The Holocaust in Modern Hebrew Literature
HIST 19500 Historical Research & Film!
HIST 30000 Eve of Destruction: Global Crises and World Organization in the 20th Century
HIST 33805 History of Human Rights
HIST 35000 Science and Society in the 20th-Century World
HIST 36600 Hispanic Heritage of the USA
HIST 37700 History & Culture of Native America
HIST 46900 Black Civil Rights Movement

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ECET Supplemental Information - POS 2019
Updated 04/14/2019
HIST 47900 American Representations of Middle East & N. Africa  
HTM 37000 Sustainable Tourism and Responsible Travel  
HTM 37200 Global Tourism Geography  
MSL 20100 Individual Leadership Studies  
OLS 35000 Creativity In Business & Industry  
PHIL 11400 Global Moral Issues  
PHIL 43500 Philosophy of Mind  
POL 222 Women, Politics & Public Policy  
POL 23500 Rich and Poor Nations  
POL 32600 Black Political Participation in America  
POL 32700 Global Green Politics  
POL 36000 Women and the Law  
POL 41300 The Human Basis of Politics  
POL 42300 International Environmental Policy  

Any foreign language 200 or higher (201, 202, 301, 302, 401, 402)  

POL 42900 Variable Title: It’s a Complex World (Cross listed with IE49000, ME29700)  
POL 43300 International Organization  
PSY 12000 Elementary Psychology  
PSY 25100 Health Psychology  
PSY 32200 Research Design  
SOC 1000 Intro to Sociology  
SOC 31000 Racial and Ethnic Diversity  
SOC 33900 Intro to Sociology of Developing Nations  

**Polytechnic Statewide- South Bend (IUSB) Approved Courses**

**South Bend- Offered through IUSB**  
ANTH-E  Indias of Indiana  
ANTH-E 105 Culture & Society  
ANTH-E 300 Culture Areas & Ethnic Groups  
ANTH-E 310 Introduction to Cultures of Africa  
ANTH-E 321 Peoples of Mexico  
ANTH-E 335 Ancient Civilization of Mesoamerica  
ANTH-E 397 Peoples & Cultures of the Middle East  
EALC-J 101 Elementary Japanese I  
GEOG-110 Introduction to Human Geography  
GEOG-G 120 Regions of the World  
GEOG-G 201 World Regional Geography  
HIST-A 371 History of Indiana I  
HIST-A 372 History of Indiana II  
HIST-A 301 Colonial America  
HIST-A 373 American History Through Film  
HIST-A 355 African American History I  
HIST-B 300 Issues in Western European History  
HIST-B 378 History of Germany Since 1648 II  
HIST-C 386 Greek History from the Minoans to Alexander  
HIST-D 310 Russian Revolution and Soviet Regime  
HIST-F 300 Issues in Latin American History  
HIST-A 352 History of Latinos in the United States  
HIST-G 358 Early Modern Japan  
HIST-H 101 The World in the Twentieth Century I  
HIST-H 201 History of Russia I  
HIST-H 202 History of Russia II  
HIST-H 207 Modern East Asian Civilization  
HIST-H 211 Latin American Culture and Civilization 1  
HIST-H 212 Latin American Culture and Civilization 2  
HIST-W 300 Issues in World History  
LSTU-L 330 Global Comparisons: Labor Relations – Examples from Three Continents  
LSTU-L 331 Global Problems: Local Solutions  
LSTU-L 385 Class, Race Gender, and Work  
PHIL-P 102 Critical Thinking and Applied Ethics  
PHIL-P 105 Critical Thinking  
PHIL-P 140 Introduction to Ethics  
POLS-Y 107 Introduction to Comparative Politics  
POLS-Y 109 Introduction to International Relations  
POLS-Y 343 The Politics of International Development  
PSY-P 103 Introduction to Psychology  
PSY-P 327 The Psychology of Motivation  
PSY-P 391 Psychology of Gender and Ethnicity  
REL-R 152 Jews, Christians, Muslims  
REL-R 153 Religions of Asia  
SOC-S 163 Social Problems  
REL-R 257 Introduction to Islam  
REL-R 354 Buddhism  
SOC-S 161 Principles of Sociology  
SOC-S 335 Race and Ethnic Relations  
SPAN-S 101 Elementary Spanish I  
SPCH-B 399 Human Behavior and Social Institutions  
SPCH-S 324 Persuasive Speaking  
SPCH-S 427 Cross Cultural Communication  

**Professional Requirement – All students must complete**

Completing the Professional Experience Requirement: All students must complete an acceptable professional experience. The SOET Professional Experience requirement is intended to document those experiences which help expose SOET students to the expectations of their profession prior to graduation. This may occur through industrial experience, technical or administrative involvement with community service, military service, or by other possible means. Approval is automatic for certain experiences, while additional experiences may also satisfy this graduation requirement with advisor or faculty approval (see below). Requests for faculty approval must be submitted to the SOET Curriculum Subcommittee Chair for consideration, allowing at least four academic weeks for review and response.

ECET Supplemental Information - POS 2019
Updated 04/14/2019
Table 1: Approved Professional Experiences

<table>
<thead>
<tr>
<th>Approval by</th>
<th>Experience:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic</td>
<td>Any TECH Professional Practice course (co-op, intern, etc.)</td>
</tr>
<tr>
<td>Automatic</td>
<td>MET 29900 Internship for Credit</td>
</tr>
<tr>
<td>Automatic</td>
<td>EPICS courses, minimum of two</td>
</tr>
<tr>
<td>Advisor</td>
<td>Any approved internship (assuming student and/or employer provide documentation)</td>
</tr>
<tr>
<td>Advisor</td>
<td>Military service (ROTC completion, reservist, active duty, veteran)</td>
</tr>
<tr>
<td>Faculty</td>
<td>Supervised undergraduate research experiences or laboratory assistantships (e.g., employed in the AEL as lab technician)</td>
</tr>
<tr>
<td>Faculty</td>
<td>Independent study – by petition to ensure the project meets the spirit of the requirement</td>
</tr>
<tr>
<td>Faculty</td>
<td>Professional society/club activities (e.g., led the Solar Racing team) - by petition</td>
</tr>
<tr>
<td>Faculty</td>
<td>Any approved employment or industry project</td>
</tr>
</tbody>
</table>

*Approval Key:*
- Automatic – student participation in this professional experience is already documented through existing means.
- Advisor – advisor reviews student’s experience to determine if it meets the spirit of the Professional Experience requirement.
- Faculty – designated committee reviews student’s experience to determine if it meets the spirit of the Professional Experience requirement.

**Upper-level courses:** At least 32 hours of upper level (300 level or higher) must be completed at Purdue University; ECET Senior Capstone I and II Selectives and at least 12 hours of ECET Electives must be completed at the Purdue University location conferring the degree.
# EET - Electrical Engineering Technology (EETC)

## School of Engineering Technology
Purdue Polytechnic Institute

**EET BS Suggested Arrangement of Course - South Bend**

Accredited by the Engineering Technology Accreditation Commission of ABET, [http://www.abet.org](http://www.abet.org)

### Fall 1st Year

<table>
<thead>
<tr>
<th>Course</th>
<th>CR</th>
<th>GR</th>
<th>Sem</th>
<th>Fulfilled by</th>
<th>Spring 1st Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGT 18000 Engineering Technology Foundations</td>
<td>3</td>
<td></td>
<td></td>
<td>ECET 17700 DAQ &amp; Systems Control (P: ENGT 1800 &amp; ENGT 18100)</td>
<td>3</td>
</tr>
<tr>
<td>ENGT 18100 Engineering Technology Applications</td>
<td>1</td>
<td></td>
<td></td>
<td>ECET 17900 Intro to Digital Systems (P: ENGT 1800/18100 and CNT 10500/CSCI C-1011)</td>
<td>3</td>
</tr>
<tr>
<td>English Composition Selective**+</td>
<td>3</td>
<td></td>
<td></td>
<td>MA 16010 Applied Calculus I* (P: ALEKS Score of 75%)</td>
<td>3</td>
</tr>
<tr>
<td>CNIT 10500 Intro to C Programming – CSCI-C 101 Computer Program I (IUSB)</td>
<td>3</td>
<td></td>
<td></td>
<td>General Education Human Cultures Selective**+</td>
<td>3</td>
</tr>
<tr>
<td>Freshmen Speech Selective**+</td>
<td>3</td>
<td></td>
<td></td>
<td>PHYS 22000 General Physics* - PHYS-P 221 or 201 (IUSB)</td>
<td>5</td>
</tr>
<tr>
<td>TECH 12000 Design Thinking in Tech.*</td>
<td>3</td>
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<tr>
<td><strong>TOTAL CREDIT HOURS</strong></td>
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<td></td>
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<td><strong>TOTAL CREDIT HOURS</strong></td>
<td>17</td>
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### Fall 2nd Year

<table>
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<tr>
<th>Course</th>
<th>CR</th>
<th>GR</th>
<th>Sem</th>
<th>Fulfilled by</th>
<th>Spring 2nd Year</th>
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</thead>
<tbody>
<tr>
<td>MA 16020 Applied Calculus II (P: MA 16010 with grade of C or better)</td>
<td>3</td>
<td></td>
<td></td>
<td>ECET 27000 Electronics Prototype Dev/Const (P: ECET 17900, ECET 22700, and ECET 22900)</td>
<td>3</td>
</tr>
<tr>
<td>ECET 22700 DC &amp; Pulse Electronics (P: ENGT 17700 and MA 16010)</td>
<td>3</td>
<td></td>
<td></td>
<td>ECET 27400 Wireless Communications (P: ECET 22700, ECET 27000 (may be taken concurrently, and PHYS 22100)</td>
<td>3</td>
</tr>
<tr>
<td>ECET 22900 Concurrent Digital Systems (P: ENGT 18000/ENG 18100)</td>
<td>3</td>
<td></td>
<td></td>
<td>ECET 27700 AC &amp; Power Electronics* (P: ENGT 17700 and MA 16010)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 22100 General Physics* (P: PHYS 22200) - PHYS-P 221 or 202 (IUSB)</td>
<td>5</td>
<td></td>
<td></td>
<td>Technical Selective</td>
<td>3</td>
</tr>
<tr>
<td>Oral Communication Selective+</td>
<td>3</td>
<td></td>
<td></td>
<td>General Education Behavioral/Social Sciences Selective**+</td>
<td>3</td>
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<tr>
<td><strong>TOTAL CREDIT HOURS</strong></td>
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<td><strong>TOTAL CREDIT HOURS</strong></td>
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### Fall 3rd Year

<table>
<thead>
<tr>
<th>Course</th>
<th>CR</th>
<th>GR</th>
<th>Sem</th>
<th>Fulfilled by</th>
<th>Spring 3rd Year</th>
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</thead>
<tbody>
<tr>
<td>ECET Elective</td>
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<td>ECET Elective</td>
<td>3</td>
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<tr>
<td>ECET Advanced Analysis Selective</td>
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<td>STAT 22500 Intro to Probability Methods or STAT 30100 Elementary Statistical Methods</td>
<td>3</td>
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<tr>
<td>Industrial Economics Selective</td>
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<td>ECET 37600 Modern Energy Systems (P: ECET 27700 and PHYS 21800)</td>
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<tr>
<td>Written Communication Selective+</td>
<td>3</td>
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<td></td>
<td>ECET 38001 Global Prof Issues in ET</td>
<td>3</td>
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<tr>
<td>Business Selective**</td>
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<td></td>
<td></td>
<td>ECET 27900 Embedded Digital Systems* (P: ECET 27900)</td>
<td>3</td>
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<tr>
<td><strong>TOTAL CREDIT HOURS</strong></td>
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<td></td>
<td></td>
<td><strong>TOTAL CREDIT HOURS</strong></td>
<td>15</td>
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### Fall 4th Year

<table>
<thead>
<tr>
<th>Course</th>
<th>CR</th>
<th>GR</th>
<th>Sem</th>
<th>Fulfilled by</th>
<th>Spring 4th Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Capstone I Selective</td>
<td>3</td>
<td></td>
<td></td>
<td>Senior Capstone II Selective (P: Senior Capstone Selective I)</td>
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<tr>
<td>ECET Elective</td>
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<td>ECET Elective</td>
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</tr>
<tr>
<td>General Education Selective+</td>
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<td>Free Elective+</td>
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<td>Technical Selective</td>
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<td>General Education Selective+</td>
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<tr>
<td>Technical Selective</td>
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<td>Intercultural Requirement</td>
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<td><strong>TOTAL CREDIT HOURS</strong></td>
<td>12</td>
</tr>
</tbody>
</table>

Refer to the Supplemental Information Sheet for Electrical Engineering Technology 2019 Plan of Study sheet for a complete list of selectives and requirements.

* Fulfills University Core Curriculum requirement.

**Human Cultures Behavioral/Social Science for University Core may be selected to satisfy either the Business Selective or a General Education Selective requirement.

* The course is considered critical. A critical course is one that a student must be able to pass to persist and succeed in a particular major.

The student is ultimately responsible for knowing and completing all degree requirements. The myPurduePlan powered by DegreeWorks is the knowledge source for specific requirements and completion.

Updated 04/14/2019

1. A 2.0 Graduation GPA are required for the Bachelor of Science degree.
2. Students must earn a "D-" or better in all courses. Pass/No Pass grading allowed for General Education Selectives & Free Electives (up to 15 hrs)
3. Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.
4. Senior Capstone Selective I/II and 12 hours of ECET Selectives must be taken at the Purdue University location conferring the degree.
5. 32 credit hours of 300-level or higher courses must be completed at Purdue University.
6. Intercultural & Professional Requirements (ungraded) must be completed. Professional & Intercultural requirements will be satisfied by completion of experiences, assessments, and courses that are pre-approved by the EET Curriculum Subcommittee. Approved courses may fulfill other degree requirements.