

**Departmental/Program Major Courses (120 credits)**

**Required Major Courses (55 credits)**

- \_\_\_\_\_ (3) ECET 17700 - Data Acquisition and Systems Control
- \_\_\_\_\_ (3) ECET 17900 - Introduction to Digital Systems
- \_\_\_\_\_ (3) ECET 22700 - DC and Pulse Electronics
- \_\_\_\_\_ (3) ECET 22900 - Concurrent Digital Systems
- \_\_\_\_\_ (3) ECET 27000 - Electronics Prototype Development and Construction
- \_\_\_\_\_ (3) ECET 27400 - Wireless Communications
- \_\_\_\_\_ (3) ECET 27700 - DC & Pulse Electronics
- \_\_\_\_\_ (3) ECET 27900 - Embedded Digital Systems
- \_\_\_\_\_ (3) ECET 37600 - Electrical Energy Systems
- \_\_\_\_\_ (3) ECET 38001 - Global Professional Issues in ET
- \_\_\_\_\_ (3) ECET Advanced Analysis Selective (choose from ECET 33700 or ECET 33900)
- \_\_\_\_\_ (12) ECET Selectives (choose from list)
- \_\_\_\_\_ (3) ENGT 18000 - Engineering Technology Foundations
- \_\_\_\_\_ (1) ENGT 18100 - Engineering Technology Applications
- \_\_\_\_\_ (3) Senior Capstone I Selective (choose from list)
- \_\_\_\_\_ (3) Senior Capstone II Selective (choose from list)

**Other Departmental/Program Course Requirements (65 credits)**

- \_\_\_\_\_ (3) CNIT 10500 (CSCI-C105\*IU) - Introduction to C Programming
- \_\_\_\_\_ (3) COM 11400 (SPCH-S121\*IU) - Fundamentals of Speech Communication (*satisfies Oral Communication for core*)
- \_\_\_\_\_ (3) MA 16010 - Applied Calculus I (*satisfies Quantitative Reasoning for core*)
- \_\_\_\_\_ (3) MA 16020 - Applied Calculus II
- \_\_\_\_\_ (4) PHYS 21800 (PHYS-P201\*IU) - General Physics (*satisfies Science for core*)
- \_\_\_\_\_ (4) PHYS 21900 (PHYS-P202\*IU) - General Physics II (*satisfies Science for core*)
- \_\_\_\_\_ (3) TECH 12000 - Design Thinking in Technology (*satisfies Information Literacy and Science, Technology & Society for core*)
- \_\_\_\_\_ (3) English Composition Selective (ENG-W131\*IU) (*satisfies Written Communication for core*)
- \_\_\_\_\_ (6) Business Selective and General Education Selective (choose from list, with the requirement that the *Human Cultures: Behavioral/Social Sciences* category for core must be met by either the Business Selective or a General Educ. Selective)
- \_\_\_\_\_ (3) General Education Human Cultures: Humanities Selective (choose from list)
- \_\_\_\_\_ (6) General Education Selectives (choose from list)
- \_\_\_\_\_ (6) Communication Selectives (choose from list)
- \_\_\_\_\_ (3) Industrial Economics Selective (choose from IET 45100 or IT 45000 )
- \_\_\_\_\_ (3) Statistics Selective (MATH-K300\*IU) (choose from STAT 30100 or STAT 22500)
- \_\_\_\_\_ (9) Technical Selectives (choose from list: 9 additional credit hours of *technical courses*, including additional *ECET courses*)
- \_\_\_\_\_ (3) Free Elective

Choose from list: Refer to the Supplemental Information for Electrical Engineering Technology Fall 2016 Plan of Study sheet for a complete list of selectives and requirements.

**University Core Requirements**

Human Cultures: Behavioral/Social Sciences	<input type="checkbox"/>	_____	Science	<input type="checkbox"/>	_____
Human Cultures: Humanities	<input type="checkbox"/>	_____	Science	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Science, Technology & Society	<input type="checkbox"/>	_____
Oral Communication	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Quantitative Reasoning	<input type="checkbox"/>	_____			

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**The student is ultimately responsible for knowing and completing all degree requirements.**

**myPurduePlan is the knowledge source for specific requirements and completion.**

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Major: Electrical Engineering Technology (EETC)  
 School of Engineering Technology  
 Purdue Polytechnic Institute  
 EETC-BS Suggested Arrangement of Courses

Major Code: EETC

Program Code: PIECET-BS

For Catalog Terms beginning in Fall 2016

Accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>

Fall 1 <sup>st</sup> Year	CR	GR	Sem	Fulfilled by	Spring 1 <sup>st</sup> Year	CR	GR	Sem	Fulfilled by
<b>ENGT 18000</b> Eng Tech Foundations	3				<b>ECET 17700</b> DAQ & Systems Control (Prereq: ENGT 18000 and ENGT 18100)	3			
<b>ENGT 18100</b> Eng Tech Applications	1								
ENGL 10600 First Year Composition* ( <b>ENG-W131</b> *IU)	3				<b>ECET 17900</b> Intro to Digital Systems (Prereq: ENGT 18000/18100 and CNIT 10500)	3			
CNIT 10500 ( <b>CSCI-C105</b> *IU) Intro to C Programming	3				COM 11400 ( <b>SPCH-S121</b> *IU) Public Speaking*	3			
<b>MA 16010</b> Applied Calculus I* (Prereq: ALEKS Score of 75%)	3				<b>MA 16020</b> Applied Calculus II (Prereq: MA 16010 with grade of C-or better)	3			
<b>TECH 12000</b> Design Thinking in Tech.*	3				General Education Selective*	3			
<b>TOTAL CREDIT HOURS</b>	<b>16</b>				<b>TOTAL CREDIT HOURS</b>	<b>15</b>			

Fall 2 <sup>nd</sup> Year	CR	GR	Sem	Fulfilled by	Spring 2 <sup>nd</sup> Year	CR	GR	Sem	Fulfilled by
<b>ECET 22700</b> DC & Pulse Electronics <sup>CC</sup> (Prereq: ECET 17700 and MA 16010)	3				<b>ECET 27000</b> Electronics Prototype Dev/Const (Prereq: ECET 17900, ECET 22700, ECET 229)	3			
<b>ECET 22900</b> Concurrent Digital Systems (Prereq: ENGT 18000/ENGT 18100)	3				<b>ECET 27400</b> Wireless Communications (Prereq: ECET 22700, ECET 27000)	3			
<b>ECET 27700</b> AC & Power Electronics (Prereq: ECET 17700 and MA 16010) <b>or</b> <b>ECET 27900</b> Embedded Digital System <sup>CC</sup> (Prereq: ECET 17900)	3				PHYS 21900 General Physics II* ( <b>PHYS-P202</b> *IU) (Prereq: PHYS 21800)	4			
PHYS 21800 ( <b>PHYS-P201</b> *IU) General Physics I*	4				General Education Selective**	3			
Communication Selective	3				Communication Selective	3			
<b>TOTAL CREDIT HOURS</b>	<b>16</b>				<b>TOTAL CREDIT HOURS</b>	<b>16</b>			

Fall 3 <sup>rd</sup> Year	CR	GR	Sem	Fulfilled by	Spring 3 <sup>rd</sup> Year	CR	GR	Sem	Fulfilled by
<b>ECET Selective</b>	3				<b>ECET Selective</b>	3			
<b>ECET 33700</b> Analog Signal Processing (Prereq: ECET 27700 and MA 16020) <b>or</b> <b>ECET 33900</b> Digital Signal Processing (Prereq: ECET 27900 and MA 16020)	3				ECET 27700 AC & Power Electronics (Prereq: ECET 17700 and MA 16010) <b>or</b> <b>ECET 27900</b> Embedded Digital Systems <sup>CC</sup> (Prereq: ECET 17900)	3			
<b>ECET 37600</b> Modern Energy Systems (Prereq: ECET 27700 and PHYS 21800)	3				Business Selective**	3			
<b>ECET 38001</b> Global Prof Issues in ET	3				Technical Selective	3			
IET 45100 Monetary Analysis <b>or</b> <b>IT 45000</b> Prod Cost Analysis (Prereq: Junior or higher, MA 16010)	3				STAT 22500 Intro to Probability Models or STAT 30100 ( <b>MATH-K300</b> *IU) Elem Statistical Methods	3			
<b>TOTAL CREDIT HOURS</b>	<b>15</b>				<b>TOTAL CREDIT HOURS</b>	<b>15</b>			

Fall 4 <sup>th</sup> Year	CR	GR	Sem	Fulfilled by	Spring 4 <sup>th</sup> Year	CR	GR	Sem	Fulfilled by
<b>Senior Capstone Selective I</b> (Prereq: ECET 27000, ECET 38001, 9 CR of ECET Selectives, of which 3 CR can be concurrent)	3				<b>Senior Capstone Selective II</b> (Prereq: Senior Capstone Selective I)	3			
<b>ECET Selective</b>	3				<b>ECET Selective</b>	3			
General Education Selective	3				General Education Selective	3			
Technical Selective	3				Free Elective	3			
Technical Selective	3								
<b>TOTAL CREDIT HOURS</b>	<b>15</b>				<b>TOTAL CREDIT HOURS</b>	<b>12</b>			

Refer to the **Supplemental Information for Electrical Engineering Technology Fall 2016 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. <sup>CC</sup> Course is identified as a Critical Course by the faculty.

- 120 semester credits and a 2.0 Graduation GPA are required for the Bachelor of Science degree.
- Students must earn a "D-" or better in all courses.
- Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.
- Senior Capstone Selective I/II and 12 hours of ECET Selectives must be taken at the Purdue University location conferring the degree.
- 32 credit hours of 300-level or higher courses must be completed at Purdue University.

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\*\*\*\*\* Updated 03/31/2016

## Fall 2016 Supplemental Information for Electrical Engineering Technology (EETC)

**Bold indicates courses offered at New Albany Campus.**

**\*Indicates IU Southeast course for New Albany Campus only (See Student Services Coordinator for availability.)**

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

<p><b>Audio</b>  <b>ECET 33700 Analog Signal Processing</b>                      ECET 33900 Digital Signal Processing                      ECET 38800 Analog IC Applications                      ECET 42800 Audio Electronics-Selected Topics</p> <p><b>Communications</b>  <b>ECET 36400 Fundamentals of Electromagnetics</b>                      ECET 37401 Digital Communication Systems                      ECET 44400 Wireless Systems: Design &amp; Meas                      ECET 48400 Digital Wireless Systems</p> <p><b>Computer/Digital</b>  <b>ECET 32900 Adv Embedded Digital Systems</b>                      ECET 33500 Computer Arch &amp; Perform Eval</p>	<p>ECET 33900 Digital Signal Processing                      ECET 34900 Advanced Digital Systems                      ECET 35901 Computer Based DAQ Applications                      ECET 43900 Advanced Digital Signal Processing</p> <p><b>Smart Living</b>                      ECET 31100 Elec Syst &amp; Signals in Healthcare                      ECET 32100 Introduction to Nanotechnology                      ECET 32700 Instrumentation and DAQ Design                      ECET 34100 Bio-compatibility and Bioissues</p> <p><b>Smart Environment</b>  <b>ECET 30201 Introduction to Industrial Controls</b>                      ECET 32700 Instrumentation and DAQ Design  <b>ECET 37200 Process Control</b></p>	<p>ECET 38600 Bldg Elec Codes &amp; Std Practices                      ECET 43600 Elec Power Tran Distrib &amp; Smart Control</p> <p><b>Smart Mobility</b>                      ECET 32300 Intro to Elec Vehicle Systems                      ECET 33300 Power Electronics in Energy System                      ECET 37300 Applied Electronic Drives                      ECET 42301 Elec Vehicle Integr/Fabrication</p> <p><b>Study Abroad/Professional Practice</b>                      ECET 49900 Sustainable Energy Technologies                      ECET Co-op Sessions 4 and 5</p>
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**Advanced Analysis Selective** (3 hours): **ECET 33700 Analog Signal Processing** or 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 Product/Project Management and ECET 46000 Project Design and Development**
- ECET 43100 International Capstone Plan **and** ECET 46100 International Capstone Project Execution

**Technical Selectives** (9 hours) from the following departments and Colleges. Limitations in courses or areas are noted below.

- **ECET:** ECET 29900 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:** MET, MFET, CGT, TLI, OLS, IET. CNIT 136 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 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. **\*MUS-A101**

**Communications Selective** (6 hours): Must complete at least one course from each category (oral communication and written communication).

- **Written communication** (3 hours). ENGL 20500 Creative Writing; ENGL 30400 Adv. Composition; ENGL 42000 Business Writing; ENGL 42100 Technical Writing **\*ENG-W234, ENG-W231, ENG-W203**
- **Oral communication** (3 hours): Any communications (COM) course at the 200 level or higher. **\*SPCH-S229**

**Business Selective** (3 hours): Select one of the following (courses that satisfy the UCC Human Cultures Behavior/Social Sciences (BSS) requirement are marked BSS):

- Any Agricultural Economics course (AGEC) at the 200 level or higher: AGEC 20000 or higher.
- Any Economics (ECON) course at the 200 level or higher: ECON 20000 or higher.
- Any Entrepreneurship (ENTR) course at the 200-level or higher: ENTR 20000 or higher.
- Any Management (MGMT) course at the 200-level or higher: MGMT 20000 or higher. **\*BUS-A201 or BUS-L201**
- Or select one of the following courses:

AGEC 20300 Intro Microecon for Food & Agribus (BSS)	CSR 34200 Personal Finance <b>*BUS-F260</b>	<b>TLI 11100 Gateway to TLI</b>
AGEC 20400 Resource Econ & Environ Pol (BSS)	<b>IT 10400 Industrial Organizations</b>	<b>TLI 11200 Foundations of Org Leadership</b>
AGEC 21700 Economics (BSS)	<b>IT 23000 Industrial Supply Chain Mgmt</b>	<b>TLI 21300 Project Management</b>
AGEC 25000 Econ Geography of World Food and Resources (BSS)	<b>IT 33000 Industrial Sales &amp; Sales Mgmt</b>	<b>TLI 25200 Business Prin for Org Leadership</b>
ECON 21000 Principles of Economics (BSS)	<b>IT 33200 Purchasing, Inventory &amp; Warehouse</b>	<b>TLI 21400 Ind. Supply Chain Mgmt Tech</b>
ECON 25100 Microeconomics (BSS)	<b>OLS 25200 Human Relations in Org</b>	<b>TLI 34200 Warehouse and Inventory Mgmt</b>
ECON 25200 Macroeconomics (BSS)	<b>OLS 27400 Applied Leadership</b>	<b>TLI 34300 Technical and Service Selling</b>
	<b>OLS 28400 Leadership Principles</b>	<b>TLI 34250 Purchasing and Contract Mgmt</b>
	<b>OLS 32500 Meeting Management</b>	

**General Education Selectives** (12 hours). Select 12 hours in one or more of the subject areas (discipline) listed below, subject to the following constraints:

- One course must be from the UCC approved list of Human Culture: Humanities <http://www.purdue.edu/provost/initiatives/curriculum/course.html>. **\*ENG-L104, FINA-F100, FINA-H100, HIST-H105, HIST-H106, MUS-M174, EALC-J101**
- One course must be from the UCC approved list of Human Culture: Behavior/Social Sciences (<http://www.purdue.edu/provost/initiatives/curriculum/course.html>), unless the student has selected a course on the BSS list for the Business Selective. **\*POLS-Y103, PSY-P101, SOC-S163**

Within this framework, the student must select courses from the following subject areas:

Foreign languages (except for courses in a student's native language)			
African American Studies (AAS)	Bands (BAND)	Interdisciplinary Studies (IDIS)	Religious Studies (REL)
Art and Design (AD),	Classics (CLCS)	Linguistics (LING)	Sociology (SOC)
American Studies (AMST)	Comparative Literature (CMPL)	Music History and Theory (MUS)	Theater (THTR)
Anthropology (ANTH)	Communication (COM)	Philosophy (PHIL)	Women's Studies (WOST)
Asian American Studies (ASAM)	English (ENGL)	Political Science (POL)	ROTC (AFT, MILT, NS)
American Sign Language (ASL)	History (HIST)	Psychology (PSY)	

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

**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 Selectives must be completed at the Purdue University location conferring the degree.

*Updated 04/19/2016*