Electrical Engineering Technology
School of Engineering Technology
Purdue Polytechnic Institute

Major Code: EETC
Program Code: PIECET-BS
120-cr for graduation
“D-” or better required in all major courses

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 CC (Critical Course)
(3) ECET 22900 - Concurrent Digital Systems
(3) ECET 27000 - Electronics Prototype Development and Construction
(3) ECET 27400 - Wireless Communications
(3) ECET 27700 - AC & Power Electronics
(3) ECET 27900 - Embedded Digital Systems CC (Critical Course)
(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)
(3) ENGT 18000 - Engineering Technology Foundations
(3) 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 (62 credits)

(12) ECET Selectives (choose from list)
(3) ENGT 18000 - Engineering Technology Foundations
(3) ENGT 18100 - Engineering Technology Applications
(3) Senior Capstone I Selective (choose from list)
(3) Senior Capstone II Selective (choose from list)

University Core Requirements

Human Cultures: Behavioral/Social Sciences

Science

Human Cultures: Humanities

Information Literacy

Oral Communication

Quantitative Reasoning

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

myPurduePlan is the knowledge source for specific requirements and completion.

Updated 04/19/2016
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<td>CNIT 10500 Intro to C Programming</td>
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<td>COM 11400 Fund of Speech Communication*</td>
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<td>MA 16010 Applied Calculus I* (Prereq: ALEKS Score of 75%)</td>
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<td>TECH 12000 Design Thinking in Tech.*</td>
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<td>PHYS 21900 General Physics II* (Prereq: PHYS 21800)</td>
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<td>ECET 27700 AC &amp; Power Electronics</td>
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<td>ECET 37600 Modern Energy Systems (Prereq: ECET 27700 and PHYS 21800)</td>
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<td>ECET 38001 Global Prof Issues in ET (Prereq: Junior Class or higher)</td>
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<td>IET 45100 Monetary Analysis for Ind Dec or IT 45000 Production Cost Analysis (Prereq: Junior Class. or higher, MA 16010)</td>
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Refer to the Supplemental Information Sheet for Electrical Engineering Technology Fall 2016 Plan of Study sheet for a complete list of selectives and requirements.

*Fulfils 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. *Course is identified as a Critical Course by the faculty.

1. 120 semester credits and 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 and Free Elective (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.

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

myPurduePlan is the knowledge source for specific requirements and completion.

Updated 04/19/2016
Supplemental Information Sheet for Electrical Engineering Technology (EETC) Fall 2016 Plan of Study

**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.

**Audio**
- ECET 33700 Analog Signal Processing
- ECET 33900 Digital Signal Processing
- ECET 38800 Analog IC Applications
- ECET 42800 Audio Electronics Topics

**Communications**
- ECET 36400 Fundamentals of Electromagnetics
- ECET 37401 Digital Communication Systems
- ECET 48400 Digital Wireless Systems

**Computer/Digital**
- ECET 32900 Adv Embedded Digital Systems
- ECET 33500 Computer Arch & Perform Eval

**Smart Living**
- ECET 31100 Elec Syst & Signals in Healthcare
- ECET 32100 Introduction to Nanotechnology
- ECET 32700 Instrumentation and DAQ Design
- ECET 34100 Bio-compatibility and Bioissues

**Advanced Analysis Selective** (3 hours): ECET 33700 Analog Signal Processing or ECET 33900 Digital Signal Processing.

**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**: 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**: Upper-level courses:
  - ECET 30201 Introduction to Industrial Controls
  - ECET 32700 Instrumentation and DAQ Design
  - ECET 37200 Process Control

**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 (3 hours):
- **Oral communication** (3 hours): Any communications (COM) course at the 200 level or higher.

**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.
- Or select one of the following courses:
  - AGEC 20300 Intro Microecon for Food & Agribus (BSS)  CSR 34200 Personal Finance
  - AGEC 20400 Resource Econ & Environ Pol (BSS)  IT 10400 Industrial Organizations
  - AGEC 21700 Economics (BSS)  IT 23000 Industrial Supply Chain Mgmt
  - AGEC 25000 Econ Geography of World Food and Resources (BSS)  IT 33200 Purchasing, Inventory & Warehouse
  - ECON 21000 Principles of Economics (BSS)  OLS 25200 Human Relations in Org
  - ECON 25100 Microeconomics (BSS)  OLS 27400 Applied Leadership
  - ECON 25200 Macroeconomics (BSS)  OLS 28400 Leadership Principles

**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].
- 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.

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)
- Art and Design (AD), Classics (CLCS)
- American Studies (AMST), Comparative Literature (CMPL)
- Anthropology (ANTH), Communication (COM)
- Asian American Studies (ASAM), English (ENGL)
- American Sign Language (ASL), History (HIST)

**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*