

Departmental/Program Major Courses (120 credits)

Required Major Courses (34 credits)

- _____ (3) ENGT 18000 - Engineering Technology Foundations
- _____ (1) ENGT 18100 - Engineering Technology Applications
- _____ (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 - AC and Power Electronics
- _____ (3) ECET 27900 - Embedded Digital Systems
- _____ (3) ECET 37600 - Electrical Energy Systems
- _____ (3) ECET 38001 - Global Professional Issues in ET

ECET Selectives – Select the following courses by category (15 credits)

- _____ (3) ECET Advanced Analysis Selective (choose from ECET 33700 or ECET 33900)
- _____ (12) ECET Selectives (choose from list)

ECET Senior Capstone Selectives I and II – (6 credits)

- _____ (3) ECET Senior Capstone Selective I (choose from list)
- _____ (3) ECET Senior Capstone Selective II (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) TLI 33400 - Economic Analysis of Technical Systems
- _____ (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) 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
- _____ (0) Global / Intercultural Requirement
- _____ (0) Professional Requirement

Choose from list: Refer to the Supplemental Information for Electrical Engineering Technology Fall 2017 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"/>	_____			

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

myPurduePlan is the knowledge source for specific requirements and completion.

***** Updated 05/15/2018

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

Fall 1 st Year	CR	GR	SEM	Fulfilled by	Spring 1 st Year	CR	GR	SEM	Fulfilled by
ENGT 18000 Eng Tech Foundations	3				ECET 17700 DAQ & Systems Control (Prereq: ENGT 18000 and ENGT 18100)	3			
ENGT 18100 Eng Tech Applications	1								
ENGL 10600 First Year Comp* or (ENG-W131*IU)	3				ECET 17900 Intro to Digital Systems (Prereq: ENGT 18000/18100 and CNIT 105)	3			
CNIT 10500 (CSCI-C105*IU) Intro to C Programming	3				COM 11400 (SPCH-S121*IU) Fund of Speech Communication*	3			
MA 16010 Applied Calculus I* (Prereq: ALEKS Score of 75%)	3				MA 16020 Applied Calculus II (Prereq: MA 16010 with grade of C-or better)	3			
TECH 12000 Design Thinking in Tech.*	3				General Education Selective*	3			
TOTAL CREDIT HOURS	16				TOTAL CREDIT HOURS	15			

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

Fall 3 rd Year	CR	GR	SEM	Fulfilled by	Spring 3 rd Year	CR	GR	SEM	Fulfilled by
ECET 33700 Cont.Syst Anlys & Design (Prereq: ECET 27700 and MA 16020) or ECET 33900	3				ECET 27900 Embedded Digital Sys ^{CC} (Prereq: ECET 17900) or ECET 27700	3			
ECET Selective	3				ECET Selective	3			
ECET 37600 Electrical Energy Sys (Prereq: ECET 27700 and PHYS 21800)	3				TLI 33400 Economic Analysis For Tech Systems (Prereq: MA 16010)	3			
ECET 38001 Global Prof Issues in ET (Prereq: Junior Class or higher)	3				Business Selective**	3			
STAT 22500 or STAT 30100 (MATH- K300*IU) Elem Statistical Methods	3				Technical Selective	3			
TOTAL CREDIT HOURS	15				TOTAL CREDIT HOURS	15			

Fall 4 th Year	CR	GR	SEM	Fulfilled by	Spring 4 th Year	CR	GR	SEM	Fulfilled by
Senior Capstone I – ECET 43000 (Prereq: ECET 27000, ECET 38001, 9 CR of ECET Sel, of which 3 CR can be concurrent)	3				Senior Capstone II – ECET 46000 (Prereq: Senior Capstone Selective I)	3			
ECET Selective	3				ECET Selective	3			
General Education Selective	3				General Education Selective	3			
Technical Selective	3				Free Elective	3			
Technical Selective	3				Global / Intercultural Requirement	0	—		
					Professional Requirement	0	—		
TOTAL CREDIT HOURS	15				TOTAL CREDIT HOURS	12			

Refer to the Supplemental Information Sheet for Electrical Engineering Technology Fall 2018 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 ^{CC} 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. Pass/no pass grading allowed for General Education Selectives and Free Elective (up to 15 hrs).
- 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.
- Complete the Global / Intercultural Requirement (ungraded) . Complete the Professional Requirement (ungraded) .

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

***** Updated 05/15/2018

Supplemental Information for Electrical Engineering Technology (EETC) Fall 2018 Plan of Study

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 and not all ECET Selectives are taught at all locations.

Audio

ECET 33700 Continuous Syst Analysis & 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 Applications

Computer/Digital

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

ECET 33900 Digital Signal Processing
ECET 34900 Advanced Digital Systems
ECET 35901 Computer Based DAQ Applications
ECET 43900 Advanced Digital Signal Processing

Smart Living

ECET 31100 Elec Syst & Signals in Healthcare
ECET 32100 Introduction to Nanotechnology
ECET 32700 Instrumentation and DAQ Design

Smart Environment

ECET 30201 Introduction to Industrial Controls
ECET 32700 Instrumentation and DAQ Design
ECET 37201 Continuous Control Electronics

ECET 38600 Bldg Elec Codes & Std Practices
ECET 43600 Elec Power Tran Distrib & Smart

Smart Mobility

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

Study Abroad/Professional Practice

ECET 49900 Sustainable Energy Technologies
ECET Co-op Sessions 4 and 5

Advanced Analysis Selective (3 hours): **ECET 33700** Continuous Systems Analysis & Design or ECET 33900 Digital Signal Processing.

ECET Senior Capstone Selectives I and II (6 hours): Select one pair of Senior Capstone Selectives I and II:

- **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, CGT, TLI, OLS, IT. CNIT 13600 and 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 23500, CS 15800 and CS 15900 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
- **Oral communication** (3 hours): Any communications (COM) course at the 200 level or higher. ***SPCH-S229 or OLS 38800**

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)
AGEC 20400 Resource Econ & Environ Pol (BSS)
AGEC 21700 Economics (BSS)
AGEC 25000 Econ Geography of World Food(BSS)
ECON 21000 (**ECON-E101***IU) Prin of Economics (BSS)
ECON 25100 (**ECON-E103***IU) Microeconomics (BSS)
ECON 25200 (**ECON-E104***IU) Macroeconomics (BSS)
CSR 34200 Personal Finance ***BUS-F260**

IT 10400 Industrial Organizations
IT 23000 Industrial Supply Chain Mgmt
IT 33000 Industrial Sales & Sales Mgmt
IT 33200 Purchasing, Inventory & Warehouse
OLS 25200 Human Relations in Org
OLS 27400 Applied Leadership
OLS 28400 Leadership Principles
TLI 11100 Gateway to TLI

TLI 11200 Foundations of Org Leadership
TLI 21300 Project Management
TLI 25200 Business Prin for Org Leadership
TLI 21400 Ind. Supply Chain Mgmt Tech
TLI 34200 Warehouse and Inventory Mgmt
TLI 34300 Technical and Service Selling
TLI 34250 Purchasing and Contract Mgmt

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, and other Foreign Languages**
- 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)
Art and Design (AD),
American Studies (AMST)
Anthropology (ANTH)
Asian American Studies (ASAM)
American Sign Language (ASL)

Bands (BAND)
Classics (CLCS)
Comparative Literature (CMPL)
Communication (COM)
English (ENGL)
History (HIST)

Interdisciplinary Studies (IDIS)
Linguistics (LING)
Music History and Theory (MUS)
Philosophy (PHIL)
Political Science (POL)
Psychology (PSY)

Religious Studies (REL)
Sociology (SOC)
Theater (THTR)
Women's Studies (WGSS)
ROTC (AFT, MILT, NS)

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 Selectives I and II and at least 12 hours of ECET Selectives must be completed at the Purdue University location conferring the degree.

Completing the Global/Intercultural Requirement: All students must complete the School of Engineering Technology (Polytechnic) Growth Plan for Global Awareness and Intercultural Competency at the Developmental Level (see below). Students who are interested in further developing their Global Awareness and Intercultural Competency are encouraged to complete the requirement at the Emerging Level or the Proficient Level (see advisor for more information).

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.

Potential Professional Experiences

Approval Process	Experience
Automatic	Any TECH Professional Practice course (co-op, intern, etc.)
Automatic	MET 29900 Internship for Credit
Automatic	Industry-sponsored Senior Capstone
Automatic	EPICS courses, minimum of two
Automatic	Lab Assistant (satisfactory completion of a minimum of one lab division for one term; e.g., ECET 29900 or MET 39200)
Advisor	Any approved internship (assuming student and/or employer provide documentation)
Advisor	Military service (ROTC, reservist, active duty, veteran)
Faculty	Other undergraduate research experiences (e.g., employed in the AEL as lab technician)
Faculty	Independent study – by petition to ensure the project meets the spirit of the requirement
Faculty	Professional society/club activities (e.g., led the Solar Racing team) - by petition
Faculty	Any approved employment

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