

Departmental/Program Major Courses (120 credits)

Required Major Courses (34 credits)

- _____ (3) ECET 12000 - Gateway to EET
- _____ (3) ECET 17700 - Data Acquisition and Systems Control
- _____ (3) ECET 17900 - Introduction to Digital Systems
- _____ (1) ECET 22000 - Professional Career Development
- _____ (3) ECET 22700 - DC and Pulse Electronics
- _____ (3) ECET 22900 - Concurrent Digital Systems
- _____ (3) ECET 27000 - Electronics Prototype Development and Construction
- _____ (3) ECET 27300 - Modern Energy Systems
- _____ (3) ECET 27400 - Wireless Communications
- _____ (3) ECET 38001 - Global Professional Issues in EET
- _____ (3) ECET 43000 - Electrical & Electronic Product & Program Management
- _____ (3) ECET 46000 - Project Design & Develop

Selectives within ECET- Select six of the following courses by category (18 credits)

- _____ (3) ECET Sophomore Selective (choose from ECET 27700 or ECET 27900)
- _____ (3) ECET Advanced Analysis Selective (choose from ECET 33500, ECET 33700, ECET 33900)
- _____ (12) ECET Selectives _____

Other Departmental/Program Course Requirements (68 credits)

- _____ (3) Human Cultures Humanities Selective (*satisfies Human Cultures Humanities for core*)
- _____ (3) Human Culture Behavioral/Social Science Selective (*satisfies Human Cultures Behavioral/Social Science for core*)
- _____ (3) TECH 12000 - Design Thinking in Technology (*satisfies Information Literacy and Science, Technology & Society for core*)
- _____ (4) PHYS 21800 - General Physics (*satisfies Science Selective for core*)
- _____ (4) PHYS 21900 - General Physics II (*satisfies Science Selective for core*)
- _____ (3) English Composition Selective (*satisfies Written Communication for core*)
- _____ (3) COM 11400 - Fundamentals of Speech Communication (*satisfies Oral Communication for core*)
- _____ (3) MA 22100 - Calculus for Technology I (*satisfies Quantitative Reasoning for core*)
- _____ (3) MA 22200 - Calculus for Technology II
- _____ (3) CNIT 10500 - Introduction to C Programming
- _____ (3) Statistics Selective (choose from STAT 30100 or STAT 22500)
- _____ (3) Business Selective (choose from list)
- _____ (3) Industrial Economics Selective (choose from IET 45100 **or** IT 45000)
- _____ (6) Communication Selectives (choose from list)
- _____ (6) General Education Selectives (choose from list)
- _____ (3) Free Elective
- _____ (12) Technical Selectives (choose 4 additional *technical courses*, two of which can be *ECET Selectives*)

University Core Requirements

Human Cultures Humanities	€ _____	Science, Technology & Society Selective	€ _____
Human Cultures Behavioral/Social Science	€ _____	Written Communication	€ _____
Information Literacy	€ _____	Oral Communication	€ _____
Science Selective	€ _____	Quantitative Reasoning	€ _____
Science Selective	€ _____		

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

Degree Works is knowledge source for specific requirements and completion

Electrical Engineering Technology

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
3	CNIT 10500		3	COM 11400	
3	ECET 12000		3	ECET 17700	ECET 12000
3	English Composition Selective*		3	ECET 17900	ECET 12000 and CNIT 10500
3	MA 22100*	ALEKS Score of 65%	3	MA 22200*	MA 22100 (C- or higher)
3	TECH 12000*		4	PHYS 21800*	
15			16		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
1	ECET 22200		3	ECET 27000	ECET 17900, ECET 22700 and ECET 22900
3	ECET 22700	ECET 17700 and MA 22100	3	ECET 27400	ECET 22700, ECET 27000 (may be taken concurrently), PHYS 21900
3	ECET 22900	ECET 12000	3	ECET 27700 <i>or</i> ECET 27900	ECET 17700 ECET 17900
3	ECET 27300	ECET 12000 and PHYS 21800	3	Communication Selective	
4	PHYS 21900*	PHYS 21800	3	General Education Selective*	
14			15		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	ECET 33500 <i>or</i> ECET 33700 <i>or</i> ECET 33900	ECET 27900, MA 22200 and STAT 22500 (may be taken concurrently) ECET 27700 and MA 22200 ECET 27900 and MA 22200	3	ECET 38001	Junior classification or higher
3	ECET Selective		3	ECET Selective	
3	STAT 22500 <i>or</i> STAT 30100	MA 22200	3	IET 45100 <i>or</i> IT 45000	
3	Communication Selective		3	General Education Selective**	
3	Business Selective**		3	Technical Selective	
15			15		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	ECET 43000	ECET 27000, ECET 38001 and nine hours of ECET Selectives (three may be taken concurrently)	3	ECET 46000	ECET 43000
3	ECET Selective		3	ECET Selective	
3	General Education Selective		3	General Education Selective	
3	Technical Selective		3	Technical Selective	
3	Technical Selective		3	Free Elective	
15			15		

*Satisfies a University Core Requirement;

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

Students must earn a "D-" or better in all courses

120 semester credits required for Bachelor of Science degree.

2.0 Graduation GPA required for Bachelor of Science degree.

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Supplemental EET Information Fall 2013 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-Selected Topics	ECET 33500 Computer Arch & Perform Eval ECET 33900 Digital Signal Processing ECET 34900 Advanced Digital Systems ECET 43900 Advanced Digital Signal Processing	ECET 37200 Process Control ECET 38600 Bldg Elec Codes & Std Practices ECET 43600 Elec Power Tran Distrib & Smart Control
Communications ECET 36400 Fundamentals of Electromagnetics ECET 37401 Digital Communication Systems ECET 44400 Wireless Systems: Design & Meas ECET 48400 Digital Wireless Systems	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	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
Computer/Digital ECET 32900 Adv Embedded Digital Systems	Smart Environment ECET 30200 Introduction to Controls ECET 32700 Instrumentation and DAQ Design	Study Abroad/Professional Practice ECET 49900 Sustainable Energy Technologies ECET Co-op Sessions 4 and 5

Advanced Analysis Selective (3 hours): Choose one of the following courses in addition to the ECET Selectives: ECET 33500 Computer Architecture and Performance Evaluation, ECET 33700 Analog Signal Processing, or ECET 339 Digital Signal Processing.

Technical Selectives (12 hours): Choose courses from the following categories with no more than 6 hours at the 100 level. To ensure breadth, students may take no more than 6 hours in any one subject area. Certain courses or areas are limited to 3 hours or cannot be used, as noted below.

- **ECET:** up to 6 hours additional ECET courses. ECET 29900 is limited to 3 credit hours.
- **College of Engineering:** up to 6 hours per subject area (discipline). ME 29700 and Engineering Projects in Community Service (EPICS) are each limited to 3 credit hours. First-Year Engineering (ENGR) courses cannot be used.
- **College of Technology:** up to 6 hours per subject area (discipline). ECET Co-op Sessions 1, 2 and 3. CNIT 136 cannot be used.
- **College of Science:** up to 6 hours per subject area (discipline) of 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 6 hours of THTR 25300, THTR 35300, or THTR 55300.

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

- **Written communication** (3 hours). ENGL 20500 Introduction to Creative Writing; ENGL 30400 Advanced Composition; ENGL 42000 Business Writing; ENGL 42100 Technical Writing
- **Oral communication** (3 hours): Any communications (COM) course at the 200 level or higher.

Business Selective (3 hours): Select one of the following:

- 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 Int to Microecon for Food & Agribus (BSS)	CSR 34200 Personal Finance	IT 33000 Industrial Sales & Sales Mgmt
AGEC 20400 Intro to Resource Economics and Environmental Policy (BSS)	ECON 21000 Principles of Economics (BSS)	IT 33200 Purchasing, Inventory & Warehouse
AGEC 21700 Economics (BSS)	ECON 25100 Microeconomics (BSS)	OLS 25200 Human Relations in Org
AGEC 25000 The Economic Geography of World Food and Resources (BSS)	ECON 25200 Macroeconomics (BSS)	OLS 27400 Applied Leadership
	IT 10400 Industrial Organizations	OLS 28400 Leadership Principles
	IT 23000 Industrial Supply Chain Mgmt	OLS 32500 Meeting Management

Courses that will satisfy the University Core Curriculum Human Cultures Behavior/Social Sciences (BSS) requirement are indicated with a BSS.

General Education Selectives (12 hours). Select 12 hours in one or more of the subject area (discipline) listed below, with a limit of 6 hours in any one discipline; foreign languages are limited to 12 hours.

- One course must be selected from the UCC approved list of Human Culture: Humanities (<http://www.purdue.edu/provost/initiatives/curriculum/course.html>).
- One course must be selected 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 indicated with a BSS for to satisfy the Business Selective requirement.

Within this framework, the student may select courses from the following subject area (discipline):

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 requirement. 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 430, ECET 460 and at least 12 hours of ECET Selectives must be completed on the West Lafayette campus.