

Supplemental Information for Electrical Engineering Technology (EETC) Fall 2017 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 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

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

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

Communications

ECET 36400 Fundamentals of Electromagnetics
ECET 44400 Wireless Systems: Design & Meas
ECET 31410 Military RF Applications

Smart Living

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

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
ECET 33500 Computer Arch & Perform Eval

Smart Environment

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

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:** 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.

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.

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 and Resources (BSS)
ECON 21000 Principles of Economics (BSS)
ECON 25100 Microeconomics (BSS)
ECON 25200 Macroeconomics (BSS)

CSR 34200 Personal Finance
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
OLS 32500 Meeting Management

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>).
- 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)
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).

School of Engineering Technology (Polytechnic) Growth Plan for Global Awareness & Intercultural Competency

Intercultural Growth Plan	Developmental Level Competency
Assessment	___ Complete the Pre- and Post-Intercultural Development Inventory Assessments (1 st year and 4 th year) ___ Complete the pre- and post- BEVI (1 st and 4 th years)
	___ Complete one of the following Intercultural Knowledge and Effectiveness components below: (This list will be reviewed and updated each year) <ul style="list-style-type: none"> • Crosswalk Commons (residential living Experience for a minimum of one semester) • Serve as a BGRI Program leader • PUPIL (Purdue University Passport to Intercultural Learning) (Obtain at least two badges) • Participate in two (2) Boiler Out Program Activities • Participate in Host-a-Boiler
	___ Complete one of the following: <ul style="list-style-type: none"> • An international project or collaborative project, or • An international internship, or • A Faculty-led Study Abroad program, or • Three credit hours of courses** from the Polytechnic list of approved of recommended Global/Intercultural courses. **<i>Must be in a category other than Increasing Self-awareness</i>

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