

Name: _____ PUID: _____ Date: _____

Departmental/Program Major Courses (70 credits)

- _____ (3) CGT 11000 Technical Graphic Communications OR CGT 11600 Geometric Modeling for Visualization & Communication
- _____ (3) Computer-Aided Design Selective
- _____ (3) ECET Selective
- _____ (3) ECET Selective
- _____ (3) ENGT 18000 Engineering Technology Foundations
- _____ (1) ENGT 18100 Engineering Technology Foundations Laboratory
- _____ (3) MET 11100 Applied Statics
- _____ (3) MET 14300 Materials & Processes I OR MET 14400 Materials & Processes II
- _____ (3) MET 24500 Manufacturing Systems
- _____ (3) Programming Selective
- _____ (3) TLI 11100 Introduction to Manufacturing & Supply Chain Systems
- _____ (3) TLI 11200 Foundation of Organizational Leadership
- _____ (3) TLI 31600 Statistical Quality Control or IT 342000 Statistical Quality
- _____ (3) TLI 33400 Economic Analysis for Tech Systems or IT 45000 Production Cost Analysis
- _____ (6) Senior Capstone Project Selectives

Technical Selectives 24 cr. hrs. (15 cr. hrs. must be 300/400 level)

- _____ (3) _____ (3) _____ (3) _____ (3)
- _____ (3) _____ (3) _____ (3) _____ (3)

Other Departmental /Program Course Requirements (50 credits)

- _____ (3) MA 15800 – Precalculus – Functions and Trigonometry (*satisfies Quantitative Reasoning for core*)
- _____ (3) MA 16010 - Applied Calculus I
- _____ (4) Lab Science Foundation Selective (*satisfies Science for core*)
- _____ (4) PHYS 21800 General Physics (***PHYS-P 201 OR 221**) General Physics (*satisfies Science for core*)
- _____ (3) TECH 12000 Design Thinking in Technology (*satisfies Science, Technology & Society Selective and Information Literacy for core*)
- _____ (3) Technical/Management Selective
- _____ (3) Global/Professional Selective
- _____ (3) ECON 21000 (***ECON-E 103 or ECON-E 104**) (*satisfies Human Culture Behavioral/Social Science for core*)
- _____ (3) Humanities Foundation Selective (*satisfies Human Cultures Humanities for core*)
- _____ (3) COM 11400 (***SPCH-S 121** – Public Speaking) - Fundamentals of Speech Communication (*satisfies Oral Communication for core*)
- _____ (3) Written Communication Foundation Selective (***ENG-W 131**) (*satisfies Written Communication for core*)
- _____ (3) Advanced Oral Communication Selective
- _____ (3) ENGL 42100 Technical Writing
- _____ (3) Humanities/Liberal Arts Elective
- _____ (0) Global/Intercultural Requirement
- _____ (0) Professional Requirement

Free Electives (6 cr. hrs.)

- _____ (3) _____ (3) _____

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"/>	TECH 12000	Science, Technology & Society	<input type="checkbox"/>	TECH 12000
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 knowledge source for specific requirements and completion.

*****Updated 04-28-2017

Name: _____

Major: Engineering Technology (ET)
 Concentration: Technology Integration
 ET-BS Suggested Arrangement of Courses

Catalog Term: _____ PUID: _____
 For Catalog Term beginning in fall 2017
 Major Code: ENGT Program Code: SoET-ET-BS

Fall 1 st Year	CR	GR	Sem	Fulfilled by	Spring 1 st Year	CR	GR	Sem	Fulfilled by
Written Communication Foundation Selective* – ENG-W 131 (IUSB)	3				Programming Selective	3			
ENGT 18000 – Engineering Technology Foundations	3				MA 16010 Applied Calculus I (Prereq: MA 15800 with grade of C- or better or ALEKS score 75)	3			
ENGT 18100 – Engineering Technology Applications	1				Humanities Foundation Selective*	3			
MA 15800* - Precalculus – Functions & Trigonometry (Prereq ALEKS score 60)	3				PHYS 21800 General Physics* PHYS-P 221 or 201 (IUSB)	5			
MET 14300 – Materials & Processes I OR MET 14400 Materials & Processes II	3				COM 11400 Fundamental of Speech Communication* - SPCH-S 121 (IUSB)	3			
TECH 12000 Design Thinking in Tech.*	3								
TOTAL CREDIT HOURS	16				TOTAL CREDIT HOURS	17			

Fall 2 nd Year	CR	GR	Sem	Fulfilled by	Spring 2 nd Year	CR	GR	Sem	Fulfilled by
CGT 11000 – Technical Graphic Communications OR CGT 11600	3				MET 11100 Applied Statics (Prereqs: MA 15800 and MET 16200)	3			
ECET Selective	3				ECET Selective	3			
Humanities/Liberal Arts	3				Computer-Aided Design Selective	3			
Technical Selective	3				Lab Science Foundation Selective*	5			
TLI 11100 Introduction to Manufacturing & Supply Chain	3				TLI 11200 Foundation of Organizational Leadership	3			
TOTAL CREDIT HOURS	15				TOTAL CREDIT HOURS	17			

Fall 3 rd Year	CR	GR	Sem	Fulfilled by	Spring 3 rd Year	CR	GR	Sem	Fulfilled by
MET 24500 – Manufacturing Systems	3				Technical Selective	3			
ENGL 42100 Technical Writing (Prereq: ENGL 10600 or ENG-W 131 (IUSB))	3				Technical Selective	3			
Technical/Management Selective	3				Global/Professional Selective	3			
TLI 31600 Statistical Quality Control or IT 34200 Intro to Statistical Quality (Prereq: MA 15800)	3				ECON 21000 – Principles of Econ - ECON-E 103 Intro to Microeconomics (IUSB) or ECON-E 104 Intro to Macroeconomics (IUSB)	3			
Advanced Oral Communication Selective	3				Technical Selective (30000- 40000 level)	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 Project Selective	3				Senior Capstone Project Selective	3			
TLI 33400 Economic Analysis for Tech Systems or IT 45000 Production Cost Analysis (Prereq: Math/Stat Selective)	3				Technical Selective (30000- 40000 level)	3			
Technical Selective (30000- 40000 level)	3				Technical Selective (30000- 40000 level)	3			
Technical Selective (30000- 40000 level)	3				Free Elective	3			
Free Elective	3				Global/Intercultural Requirement	0			
Professional Selective	0								
TOTAL CREDIT HOURS	13				TOTAL CREDIT HOURS	12			

*Fulfills University Core Requirement

- 120 semester credits and a 2.0 Graduation GPA are required for the Bachelor of Science degree.
- 2.0 Graduation GPA required for Bachelor of Science degree.
- 32 credits of upper division courses (30000 level or higher) must be taken at the Purdue University location conferring the degree.
- Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.
- 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 knowledge source for specific requirements and completion.

***** Updated 04/28/2017

Engineering Technology
Concentration: Technology Integration
Supplemental Information
All prerequisites must be met

BOLD indicates courses offered at the South Bend location

*Indicates approved IUSB course for South Bend location

WRITTEN COMMUNICATION FOUNDATION SELECTIVE

ENGL 10600 First Year Composition

ENGL 10800 Accelerated First Year Composition

ENG-W 131 Reading, Writing, & Inquiry

PROGRAMMING SELECTIVES

CNIT 10500 Introduction to C Programming

CNIT 15501 Introduction to Software Development Concepts

CNIT 17500 Visual Programming

MET 16400 Computing in Engineering Technology

HUMANITIES FOUNDATIONAL SELECTIVE

See approved UCC Humanities list at: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

Students attending the South Bend location can go to the following link to review how IU courses transfer to Purdue University to meet University Core Course Requirements:

<http://www.purdue.edu/provost/initiatives/curriculum/documents/Retro%20and%20Transfer%20Credit%20Course%20list%205-27-14.pdf>

*FINA-F 100 Fundamentals of Studio Drawing

*HIST-H 105 American History I

*HIST-H 106 American History II

*HIST-H 113 History of Western Civilization 1

*HIST-H 114 History of Western Civilization 2

*MUS-M 174 Music for the Listener

*PHIL-P 110 Introduction to Philosophy

*PHIL-P 140 Introduction to Ethics

ECET SELECTIVES

ECET 22400 Electronics Systems

ECET 17700 DAQ and Systems Control

ECET 17900 Intro to Digital Systems

COMPUTER-AIDED DESIGN SELECTIVES

CGT 22600 Introduction to Constraint-based Modeling

MET 10200 Production Design and Specifications

LAB SCIENCE SELECTIVES

BIOL 11000 Fundamentals of Biology I

BIOL 20300 Human Anatomy and Physiology

CHM 11200 General Chemistry II

PHYS 21900 General Physics II

PHYS 22100 General Physics

*PHYS-P 222-Physics II or PHYS-P 202 – General Physics II

*BIOL-L 100 – Humans & the Biological World

*CHEM-C 101 & 121 – Elementary Chemistry & Lab

TECHNICAL /MANAGEMENT SELECTIVES

MGMT 20000 Intro to Accounting

MGMT 45500 Legal Background for Business I

TECH 32000 Technology and the Organization

TLI 21300 Project Management

GLOBAL/PROFESSIONAL SELECTIVES

ECET 38001 Global/Professional Issues in ET

TECH 33000 Technology and the Global Society

TLI 35600 Global Technology Leadership

ADVANCED ORAL COMMUNICATION SELECTIVE

COM 3200 Small Group Communications OR *SPCH-S 229

Discussion & Group Methods

COM 30300 Intercultural Communication OR COM 31400 Adv.

Presentational Speaking

*SPCH-S 223 Business & Professional Speaking

*SPCH-S380 Nonverbal Communication

*SPCH-S 427 Cross Cultural Communication

*SPCH-S 440 Organizational Communication

*SPCH-S 450 Gender & Communication

TECHNICAL SELECTIVES

At least 15 credit hours must be at the 30000 level or above and at least 6 credit hours must be in the same discipline

- CGT 32300 Virtual Product Integration
- CGT 32600 Graphics Standards for Product Definition
- ECET 30201 Introduction to Industrial Controls OR MET 28400**
- ECET 32100 Introduction to Nanotechnology
- ECET 38500/ECET 49900 Intro to Automotive Electronics**
- ECET 32700 Instrumentation & Data Acquisition
- ECET 33700 Analog Signal Processing**
- TLI 23500 Introduction to Lean and Sustainable Systems**
- TLI 31400 Leading Innovation in Organizations**
- TLI 31500 Innovative Product Development**
- TLI 33520 Human Factors for Technology Systems
- TLI 33610 Risk Analysis & Assessment**

- TLI 33620 Total Production Maintenance**
- TLI 41400 Financial Analysis for Technology Systems**
- TLI 43530 Operations Planning and Management**
- TLI 43540 Facilities Planning**
- TLI 43640 Lean Six Sigma**
- TLI 45700 Technology Policy & Law**
- MET 30200 CAD in the Enterprise**
- MET 38200 Controls & Instrumentation**
- MET 45100 Manufacturing Quality Control
- MFET 30000 Applications of Automation in Manufacturing
- MFET 31100 Computer-Aided Design in Manufacturing

HUMANITIES/LIBERAL ARTS ELECTIVES

Any course from the following disciplines: Anthropology, English, History, Philosophy, Political Science, Psychology, Religious Studies, Sociology, Theatre, Women’s Studies, or Foreign Languages (except native language courses)

FREE ELECTIVES

Any non-remedial course from any discipline at the 20000 – 40000 level.

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).

Polytechnic Growth Plans for Global Awareness & Intercultural Competency

Intercultural Growth Plan #1	Developmental Level Competency
Assessment	<ul style="list-style-type: none"> ___ Complete the Pre- and Post-Intercultural Development Inventory Assessments (1st year and 4th year) ___ Complete the pre- and post- BEVI (1st and 4th years)
	<ul style="list-style-type: none"> ___ Complete one of the following Intercultural Knowledge and Effectiveness components below: (This list will be reviewed and updated each year) • 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
	<ul style="list-style-type: none"> 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. **Must be in a category other than Increasing Self-awareness

PROFESSIONAL REQUIREMENT

The SoET Professional Experience requirement is intended to document those experiences which help expose SOET students to the expectations of their professional prior to graduation. This may occur through industrial experience, technical or administrative involvement with community service, military service, et cetera. Approval has been granted for the following experiences. Additional experiences may also satisfy this graduation requirement. Requests for approval should be submitted to the SOET Curriculum Subcommittee Chair for consideration, allowing at least four academic weeks for review and response.

Table 1: Approved Professional Experiences

Approval by	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