

Fall 1 st Year	CR	GR	Sem	Fulfilled by	Spring 1 st Year	CR	GR	Sem	Fulfilled by
MA 15800 PreCalculus – Functions & Trigonometry* (Pre-req ALEKS score 60)	3				MA 16010 Applied Calculus I (Pre-req: MA 15800 with grade of C- or better or ALEKS score 75)	3			
ENGT 18000 Engineering Technology Foundations	3				MET 11100 Applied Statics (Pre-reqs: MA 15800 and ENGT 18000)	3			
ENGT 18100 Engineering Technology Applications	1				TLI 23500 Intro to Lean and Sust. Systems [⁸ Technical Selective]	3			
SCLA 10100 – Transformative Texts, Critical Thinking & Communication I* [¹² Written Communication Selective*]	3				SCLA 10200 – Transformative Texts, Critical Thinking & Communication II* [¹¹ Oral Communication Selective*]	3			
CGT 11000 Technical Graphic Comm. or CGT 11600 Geom Model for Vis & Comm	3				MET 14300 Materials & Processes I or MET 14400 Materials & Processes II	3			
TECH 12000 Design Thinking in Tech.*	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
[³ Programming Selective]	3				MET 10200 Production Design & Specs. [¹ Computer-Aided Design Selective]	3			
PHYS 22000 General Physics* *PHYS-P 201, 5 cr. (IUE)	4				*PHYS-P 202, 5 cr. (IUE) [⁶ Lab Science Foundation Selective*]	4			
ECET 22400 Electronics Systems [² ECET Selective]	3				ECET 30201 Intro. to Industrial Controls {Pre-req: ECET 17700 or ECET 22400} [² ECET Selective]	3			
MET 24500 Manufacturing Systems (Pre-reqs: MET 14400 & CGT 11000)	3				[¹⁰ Humanities Foundation Selective*]	3			
TLI 11100 Intro to Mfg & Supply Chain	3				TLI 11200 Found'n of Organiz'l Leadership	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
TLI 31600 Statistical Quality Control or IT 34200 Intro to Statistical Quality (Pre-req: MA 15800)	3				TLI 43640 Lean Six Sigma or IT 44600 Six Sigma Quality [⁸ Technical Selective (300- 400 level)]	3			
[⁸ Technical Selective]	3				[⁸ Technical Selective]	3			
[⁹ Technical/Management Selective]	3				[⁴ Global/Professional Selective]	3			
[⁷ Humanities/Liberal Arts Elective]	3				MET 213 Dynamics (Pre-reqs: MA 16010 & MET 11100) [¹⁶ Free Elective (200+level)]	3			
[¹⁶ Free Elective (200+level)] (*Apply excess Physics credits here)	3				ECON 21000 Principles of Economics *ECON-E 103 (IUE) or *ECON-E 104 (IUE)	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
TECH 39900 Special Topics in Tech III [⁵ Senior Capstone Project Selective I]	3				TECH 49900 Special Topics in Tech IV [⁵ Senior Capstone Project Selective II]	3			
TLI 33400 Economic Anlys for Tech Systems or IT 45000 Production Cost Analysis (Pre-req: Math/Stat Selective)	3				COM 32000 Small Group Communication [Pre-req: SCLA 10200] [¹³ Adv Oral Communication Selective]	3			
[⁸ Technical Selective (300- 400 level)]	3				[⁸ Technical Selective (300- 400 level)]	3			
[⁸ Technical Selective (300- 400 level)]	3				[⁸ Technical Selective (300- 400 level)]	3			
ENGL 42100 Technical Writing [Pre-req: SCLA 10100]	3								
TOTAL CREDIT HOURS	15				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 a ¹⁵Professional Requirement. ☐ Complete an ¹⁴Intercultural Requirement. ☐

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

MyPurduePlan is knowledge source for specific requirements and completion.

ET Supplemental Information

All prerequisites must be met

Bold indicates courses offered at Richmond location.

See Student Affairs Administrator for course availability.

***Indicates IUE courses for Richmond location only.**

¹**COMPUTER-AIDED DESIGN SELECTIVES**

CGT 22600 Introduction to Constraint-based Modeling

MET 10200 Production Design and Specifications

²**ECET SELECTIVES**

Select one two-course sequence from the table below.

ECET 17700 DAQ & Systems Control (P: ENGT 18000 & 18100)	AND	ECET 17900 Intro to Digital Systems (P: ENGT 18000, ENGT 18100 & CNIT 10500)
ECET 22400 Electronic Systems	AND	ECET 17900 Intro to Digital Systems (P: ENGT 18000, ENGT 18100 & CNIT 10500)
ECET 22400 Electronic Systems	AND	ECET 30201 Introduction to Industrial Controls (P: ECET 17700 or ECET 22400)
ECET 22400 Electronic Systems	AND	ECET 38501 (formerly ECET 38500) Intro to Automotive Electronics (P: ECET 22400 or 22700)

³**PROGRAMMING SELECTIVES**

CNIT 10500 Introduction to C Programming

CNIT 15500 Introduction to Object-Oriented Programming

CNIT 15501 Introduction to Software Development Concepts

CNIT 17500 Visual Programming

MET 16400 Computing in Engineering Technology

⁴**GLOBAL/PROFESSIONAL SELECTIVES**

ECET 38001 Global/Professional Issues in EET

TECH 33000 Technology and the Global Society

TLI 35600 Global Technology Leadership

Approved Study Abroad

⁵**SENIOR PROJECT CAPSTONE SELECTIVES**

Select one two-course sequence from the table below.

⁵ Senior Capstone Project Selective I		⁵ Senior Capstone Project Selective II	
ECET 43000 – Product/Project Management (P: ECET 38001 & 9-12 cr. hrs. of coursework in technical focus area)	And	ECET 46000 – Project Design & Development	
MET 40100 – Capstone Projects I (P: MET 10200, MET 23000, MET 28400, MET 34600)	And	MET 40200 – Capstone Projects II	
MFET 48000 – Project Plan Integration (P: MFET 37400)		MFET 48100 Integration Manufacturing Systems (P: MFET 48000)	
ECET 43000 –Product/Project Management (P: ECET 38001 and 9-12 cr. hrs. of coursework in technical focus area)	And	MET 40200 – Capstone Projects II	
ENGT 40500 – Entrepreneurial Capstone I (for entrepreneurial minor senior students only)	And	ENGT 40600 – Entrepreneurial Capstone II (for entrepreneurial minor senior students only)	
ECET 43100 – International Capstone Plan	And	ECET 46100 International Capstone Project Execution	
TECH 39900 Special Topics in Technology III	And	TECH 49900 Special Topics in Technology IV	

⁶**LAB SCIENCE SELECTIVES**

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

BIOL 11000 Fundamentals of Biology I

BIOL 20300 Human Anatomy and Physiology

CHM 11200 General Chemistry II

PHYS 22100 General Physics

***PHYS-P 202**

PHYS 24100 Electricity and Optics

ET Supplemental Information

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⁷HUMANITIES/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)

***ANTH-A 104, *ANTH-E 320**
***ECON-E 103, *ECON-E 104**
***ENG-G 205, *ENGL-L 204,**
***FINA-A 101, *FINA-A 102**
***FINA-F 100, *FINA-H 100**
***FINA-S 200, *FINA-S 260,**
***FREN-F 100, *FREN-F 150,**

***FREN-F 200, *FREN-F 250,**
***HIST-H 105, *HIST-H 106**
***MUS-M 174, *MUS-T 101,**
***MUS-Z 393,**
***PHIL-P 100, *PHIL-P 120,**
***PHIL-P 140**
***POLS-Y 103, *POLS-Y 109,**

***POLS-Y 324,**
***PSY-P 103, *PSY-P 216,**
***SOC-S 100,**
***SPAN-S 100, *SPAN-S 150,**
***SPAN-S 200, *SPAN-S 250,**
***SPCH-S 122,**
***THTR-T 210**

⁸TECHNICAL 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
ECET 32100 Introduction to Nanotechnology
ECET 32700 Instrumentation and DAQ Design
ECET 38501 Intro to Automotive Electronics or ECET 38502 Intro to Automotive Electronics Lab
TLI 23500 Introduction to Lean and Sustainable Systems
TLI 31400 Leading Innovation in Organizations
TLI 31500 New Product Development
or **TECH 22000 Design Technology for People**
TLI 33520 Human Factors for Technology Systems
TLI 33400 Economic Factors for Technology Systems
or **IT 45000 Prod Cost Analysis**
TLI 33610 Risk Analysis & Assessment
or **IT 38500 Industrial Ergonomics**
TLI 33620 Total Production Maintenance
or **IT 38100 Total Productive Main**
TLI 41400 Financial Analysis for Tech Systems
or **IT 43200 Financial Transaction Distrib**

TLI 43530 Operations Planning and Management
or **IT 44200 Production Planning**
TLI 43540 Facilities Planning
or **IT 48300 Facilities Design Lean Manufacturing**
TLI 43640 Lean Six Sigma
or **IT 44600 Six Sigma Quality**
TLI 45700 Technology Policy & Law
MET 30200 CAD in the Enterprise
MET 32000 Applied Thermodynamics
MET 38200 Controls & Instrumentation
MET 34600 Adv. Materials in Manufacturing
MET 42100 Air Conditioning & Refrigeration
MET 43200 Hydraulic Motion Control
MET 43600 Pneumatic Motion Control
MET 45100 Manufacturing Quality Control
MFET 30000 Applications of Automation in Manufacturing
MFET 34400 Automated Manufacturing Processes
MFET 34800 Advanced Industrial Robotics
MFET 37400 Manufacturing Integration I

⁹TECHNICAL/MANAGEMENT SELECTIVES

Any Management (MGMT) course at the 200-level or higher

TECH 32000 Technology and the Organization
TLI 15200 Business Principles in Org Leadership
TLI 23100 Project Management
TLI 21400 Intro to Supply Chain Systems
TLI 25300 Principles of Technology Strategy

TLI 25400 Leading Change in Technology Organizations
TLI 31400 Leading Innovation in Org
TLI 43530 Operations Plan & MGMT
TLI 41400 Financial Analysis for Tech
Approved Study Abroad

¹⁰HUMANITIES FOUNDATION SELECTIVE

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

***ENGL-L 204**
***FINA-A 101, *FINA-A 102**
***FINA-F 100, *FINA-H 100**
***FINA-S 200, *FINA-S 260**
***FREN-F 100, *FREN-F 150,**

***FREN-F 200, *FREN-F 250**
***HIST-H 105, *HIST-H 106**
***MUS-M 174, *MUS-T 101,**
***MUS-Z 393**
***PHIL-P 100, *PHIL-P 120,**

***PHIL-P 140**
***SPAN-S 100, *SPAN-S 150,**
***SPAN-S 200, *SPAN-S 250**
***THTR-T 210**

ET Supplemental Information

All prerequisites must be met

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See Student Affairs Administrator for course availability.

¹¹ORAL COMMUNICATION SELECTIVE

COM 11400 Fundamental of Speech Communication

***SPCH-S 121**

SCLA 10200 Transformative Texts, Critical Thinking & Com II

¹²WRITEN COMMUNICATION SELECTIVE

ENGL 10600 First-Year Composition

ENGL 10800 Accelerated First Year Composition

***ENG-W 131**

SCLA 10100 Transformative Texts, Critical Thinking & Com I

¹³ADVANCED ORAL COMMUNICATION SELECTIVE

COM 32000 Small Group Communications

***300- or 400-level course in *SPCH-S or *CMCL-C**

COM 30300 Intercultural Communication

or COM 31400 Adv. Presentational Speaking

¹⁴INTERCULTURAL REQUIREMENT

	<i>Polytechnic minimum global requirement</i>
Step 1:	_____ Complete the Pre-test Intercultural Development Inventory Assessments (1 st year)
Step 2:	_____ Complete one (1) of the following global experiences: <ul style="list-style-type: none"> ○ Participate in a Purdue University international capstone, collaborative project, or ○ Participate in an international internship (international location), or ○ Participate in Faculty-led Study Abroad program, or ○ Participate in a full semester abroad program, or ○ Complete 3 credit hours from the Polytechnic list of recommended Global/ Cultural courses.
Step 3:	_____ Complete the Post-test Intercultural Development Inventory Assessments (4 th year)
	NOTE FOR TRANSFER/CODO STUDENTS: Transfer and CODO students with less than 75 credit hours remaining to complete their Polytechnic Plan of Study are exempt from Steps 1 & 3 (taking the IDI Pre & Post-tests) but must complete one option from Step 2. * Global experiences must take place during the time of enrollment in the Polytechnic to complete Step 2. Experiences that have taken place prior to a student's initial enrollment will not serve to complete Step 2. Intercultural competencies gained on experiences prior to Polytechnic enrollment will be captured as baseline data on a student's IDI.

Approved Global Courses:

***ANTH-A 104**

***ANTH-E 300**

***ANTH-E 320**

***FREN-F 200**

***FREN-F 250**

***POLS-Y 206**

***POLS-Y 324**

***PSY-P 103**

***SOC-S 100**

***SOC-S 335**

***SPAN-S 200**

***SPAN-S 250**

AAS	27100	Intro to African American Studies		ANTH	34000	Global Perspectives on Health
AAS	37300	Issues in African American Studies		ANTH	34100	Culture and Personality
AGR	20100	Communicating Across Culture		ANTH	37900	Native American Cultures
ANSC	38100	Leadership for a Diverse Workplace		ARAB	28000	Arabic Culture
ANTH	20300	Bio. Bases of Human So. Behavior		ASAM	24000	Intro to Asian American Studies
ANTH	20500	Human Cultural Diversity		AT	23300	Ethics and Aviation
ANTH	21000	Technology and Culture		CNIT	32000	Policy, Reg, & Globalization in IT
ANTH	21200	Culture, Food and Health		COM	22400	Comm. in the Global Workplace
ANTH	23000	Gender Across Cultures		COM	30300	Intercultural Communication

Revised 3/17/2019 (Effective Fall 2019)

ET Supplemental Information

All prerequisites must be met

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¹⁴**INTERCULTURAL REQUIREMENT CONTINUED**

COM	32000	Small Group Communication		HTM	37200	Global Tourism Geography
COM	37300	Self-Presentation and Social Image		MSL	20100	Individual Leadership Studies
COM	38000	Soc. Study of African Amer. English		OLS	35000	Creativity in Business & Industry
COM	41200	Theories of Human Interaction		PHIL	11400	Global Moral Issues
COM	42300	Leadership, Communication & Orgs		PHIL	43500	Philosophy of Mind
ECET	29000	International Experience		POL	22200	Women, Politics, and Public Policy
ECET	38001	Global Professional Issues in ENGT		POL	23500	Intl. Rels Among Rich & Poor Nats
EDPS	23500	Learning and Motivation		POL	32600	Black Political Part. in America
EDPS	30000	Student Leadership Development		POL	32700	Global Green Politics
EDPS	30100	Peer Counseling Training		POL	36000	Women and the Law
EDPS	31500	Collab. Ldrship: Interpersonal Skills		POL	41300	The Human Basis of Politics
EDPS	31600	Collab. Ldrship: Cross-Cult. Settings		POL	42300	International Environmental Policy
EDPS	31700	Collab. Leadership: Mentoring		POL	42900	Contemporary Political Problems
ENGL	41400	Studies in Literature and Culture		POL	43300	International Organization
HDFS	23300	Stress & Human Health		PSY	12000	Elementary Psychology
HDFS	28000	Diversity in Individual & Family Life		PSY	25000	Psychology of Adjustment
HDFS	33200	Stress & Coping in Contemp. Fam.		PSY	25100	Health Psychology
HEBR	38500	Holocaust in Mod. Hebrew Lit.		PSY	32200	Neurosci. of Motivated Behavior
HIST	19500	Historian's Craft: Hist. Rsrch. & Film		SOC	10000	Introductory Sociology
HIST	30000	Eve of Des: Glob Cris Wrld Org 20th Cen		SOC	31000	Racial and Ethnic Diversity
HIST	33805	History of Human Rights		SOC	33900	Intro to Soc. of Developing Nations
HIST	35000	Sci. & Soc. in 20th Century World		TECH	33000	Technology and the Global Society
HIST	36600	Hispanic Heritage of the US		TLI	11200	Foundations of Org. Leadership
HIST	37700	Hist & Culture of Native America		TLI	31400	Leading Innovation in Orgs.
HIST	46900	Black Civil Rights Movement		WGSS	28200	Intro to LGBT Studies
HIST	47900	Amer. Reps of Mid. East & N. Africa		WGSS	38000	Gender and Multiculturalism
HIST	49900	History of Sexual Reg. in the US		WGSS	38300	Women and Work
HTM	37000	Sustainable Tourism & Resp. Travel				
Any foreign language course 20100, 20200, 30100, 30200, 40100, 40200.						
Any Purdue-approved Study Abroad (SA) that includes reflective learning assignments.						

ET Supplemental Information

All prerequisites must be met

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POLYTECHNIC STATEWIDE- ADDITIONAL GLOBALIZATION SELECTIVE COURSES THAT ARE PROVIDED BY THE HOST LOCATION OR OFFERED SPECIFICALLY AT STATEWIDE LOCATION.

***RICHMOND – OFFERED THROUGH IU EAST**

INTERNATIONAL STUDIES COURSES		CULTURAL PRODUCTIONS COURSES	
*INTL-I220	Global Connections	*CLAS-C205	Classical Mythology
CULTURAL SYSTEMS COURSES		*ENG-L225	Intro. to World Masterpieces
*ANTH-E200	Social & Cultural Anthropology	*ENG-L382	Fiction of the Non-Western World
*ANTH-E310	Cultures of Africa	*FINA-A101	Ancient and Medieval Art
*CMCL-C205	Intro to Communication & Culture	*FINA-A102	Renaissance through Modern Art
*CMCL-C380	Nonverbal Communication	*FINA-A342	Twentieth-Century Art
*CMCL-C427	Cross-Cultural Communication	HISTORICAL PERSPECTIVES	
*CMCL-C450	Gender and Communication	*HIST-A380	The Vietnam War
*GEOG-G110	Introduction to Human Geography	*HIST-B244	The Viking Age
*REL-R152	Jews, Christians, and Muslims	*HIST-B306	European Race, Gender, & Identity
CULTURAL SYSTEMS COURSES CONTINUED		*HIST-B356	French Revolution
*REL-R153	Religions of Asia	*HIST-B408	European Nationalism and Identity
*REL-R160	Religion in America	*HIST-B418	Germany: Nation and Volk
*REL-R171	Religion, Ethics, and Public Life	*HIST-B436	Making Modern Britain
*PHIL-P200	Problems of Philosophy	*HIST-B444	The Scandinavian Model
*PHIL-P371	Philosophy of Religion	*HIST-D410	Russian Rev. and the Soviet Regime
*PHIL-P393	Biomedical Ethics	*HIST-H108	Perspectives on the World to 1800
*SOC-S217	Social Inequality	*HIST-H109	Perspectives on the World since 1800
*SOC-S313	Religion and Society	*HIST-H205	Ancient Civilization
*SPAN-S284	Women in Hispanic Culture	*HIST-H219	Origins & Hist of the 2nd World War
		*HIST-H232	The World in the Twentieth Century
		*HIST-F341	Latin America: Conquest and Empire

ET Supplemental Information

All prerequisites must be met

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¹⁵**PROFESSIONAL REQUIREMENT**

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.

Approved Professional Requirement Experiences

Approval by	Experience
Automatic	Any TECH Professional Practice course (co-op, intern, etc.)
Automatic	MET 29900 Internship for Credit
Automatic	EPICS courses, minimum of two
Advisor	Any approved internship (assuming student and/or employer provide documentation)
Advisor	Military service (ROTC completion, reservist, active duty, veteran)
Faculty	Supervised undergraduate research experiences or laboratory assistantships (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 or industry project

* 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

¹⁶**FREE ELECTIVES**

Any non-remedial course offered for credit at the University not already required/being used on the Plan of Study.

