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<td>Materials and Processes Selective</td>
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<td>TECH 12000 - Design Thinking in Technology</td>
<td>MA 16010 Applied Calculus I</td>
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<td>MA 16020 Applied Calculus II (Prereq: MA 16101 with a grade of C- or better)</td>
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<td>MA 16010 Applied Calculus I</td>
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<td>(Prereq: ALEKS score of 75)</td>
<td>CNIT 10500 Intro to C Programming</td>
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<td>CNIT 10500 Intro to C Programming</td>
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<td>ENGT 18000 ENG Tech Foundations</td>
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<td>Freshman Speech Selective*</td>
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<td>ENGT 18100 ENG Tech Applications</td>
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<td>ECET 22400 Electronic Systems (Prereq: MA 15800 or MA 16010)</td>
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<td>Freshman Composition Selective*</td>
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<td>ECET 17900 Intro to Digital Systems</td>
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<td>(Prereqs: ENGT 18000 &amp; 18100 or ECET 22400) and (CNIT 10500)</td>
<td>MET 10200 Production Specifications (Prereqs: CGT Selective and ENGT 18000)</td>
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<td>Humanities Foundation Selective*</td>
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<td>ECET 27900 Embedded Digital Systems (Prereq: EET 17900)</td>
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<td>MET 11300 Mechanics Applications (Prereq: MET 11100)</td>
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<td>MET 24500 Manufacturing Systems (Prereqs: (MET 14300 or MET 14400) and Computer graphics selective)</td>
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<td>MET 28400 Intro to Industrial Controls (Prereq: ECET 22400)</td>
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<td>Behavioral/Social Science Foundation Elective*</td>
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<td>Computer Graphics Selective</td>
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<td>Physics Selective*</td>
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<td>CHM 11100 General Chemistry*</td>
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<td>MET 23000 Fluid Power (Prereqs: MET 11100 or PHYS 22000) and MA 16010</td>
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<td>MFET 37400 Mfg Integration I (Prereq: MET 28400)</td>
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<td>MFET 34400 Automated Mfg Processes (Prereq: MET 24500)</td>
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<td>ECET 38001 Global Professional Issues in Engineering Technology</td>
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<td>Technical Writing Selective (Prereq: ENGL 10600)</td>
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<td>ECET 33700 Analog Signal Processing (Prereq: ECET 22400 + MA 16200)</td>
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<td>ECET 32700 Instrument &amp; DAQ Design (Prereqs: ECET 22400, MA 16101, PHYS Sel.)</td>
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<td>Manufacturing Selective</td>
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<tr>
<td>Science Selective*</td>
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<td>Statistics or Quality Selective</td>
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<td>Capstone Selective I</td>
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<td>Capstone Selective II (Prereq: Capstone Selective I)</td>
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<td>Communication Selective</td>
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<td>MET 38200 Controls/Instr for Automation (Prereq: MET 28400 and MA 16010)</td>
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<td>Free Elective</td>
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<td>TLI 33400 Economic Analysis for Tech. Systems (Prereqs: MA 15800 or 16010)</td>
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*Fulfills University core:
1. 120 semester credits and a 2.0 Graduation GPA are required for the Bachelor of Science degree.
2. Students must earn a "D-" or better in all courses.
3. Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.
4. 32 credit hours of 300-level or higher courses must be completed at Purdue University.

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

myPurduePlan is knowledge source for specific requirements and completion.

********************************************************** Updated 4/4/2019
Freshman Composition Selective
ENGL 10600 First-Year Composition
ENGL 10800 Accelerated First-Year Composition
SCA 10100 Transformative Texts, Critical Thinking and Communication I: Antiquity to Modernity

Freshman Speech Selective
COM 11400 Fundamentals of Speech Communication
SCA 10200 Transformative Texts, Critical Thinking and Communication II: Modern World

Materials and Processes Selective
MET 14300 Materials and Processes I
MET 14400 Materials and Processes II

Computer Graphics Selective
CGT 11000 Technical Graphics Communications
CGT 16300 Graphical Communication and Spatial Analysis
IT 10500 Industrial Technology Introduction to Design

Communications Selective
COM 31500 Speech Communication of Technical Information
COM 32000 Small Group Communication
COM 41500 Discussion of Technical Problems
EDPS Collaborative Leadership: Interpersonal Skills

Technical Writing Selective
ENGL 42100 Technical Writing
ENGL 42400 Writing for High Technology Industries

Statistics or Quality Selective
STAT 30100 Elementary Statistical Methods
IT 34200 Introduction to Statistical Quality
TLI 31600 Statistical Quality Control

Physics Selective
PHYS 17200 Modern Mechanics
PHYS 22000 General Physics

Science Selective
BIOL 11000 Fundamentals of Biology I
BIOL 20300 Human Anatomy and Physiology
CHM 11200 General Chemistry II
CHM 11600 General Chemistry
PHYS 21900 General Physics II
PHYS 22100 General Physics
PHYS 24100 Electricity and Optics

Mechatronics Selective
MET 43200 Hydraulic Motion Control Systems
MET 43600 Pneumatic Motion Control Systems
MET 48200 Mechatronics
MET 58100 Workshop In Mechanical Engineering Technology
MFET 29200 Projects In Automation, Robotics And Mechatronics
MFET 34800 Advanced Industrial Robotics
MFET 39200 Advanced Projects In Automation, Robotics, And Mechatronics

Controls Selective
MET 33400 Advanced Fluid Power
MET 38200 Controls And Instrumentation For Automation
MET 43200 Hydraulic Motion Control Systems
MET 43600 Pneumatic Motion Control Systems
MET 48200 Mechatronics
MFET 29200 Projects In Automation, Robotics And Mechatronics
MFET 39200 Advanced Projects In Automation, Robotics, And Mechatronics
ECET 27400 Wireless Communications 3.00
ECET 35901 Computer Based Data Acquisition Applications
ECET 49900 Electrical Engineering Technology-Applied Comp Vision Sensing & Auto
Manufacturing Selective
AT 27200 Introduction To Composite Technology
AT 30802 Aircraft Materials Processes
AT 47200 Advanced Composite Technology
CGT 32600 Graphics Standards For Product Definition
CGT 42300 Product Data Management
CGT 42600 Industry Applications Of Simulation And Visualization
ECET 27400 Wireless Communications
ECET 49900 Electrical Engineering Technology
(Reader Comp Vision Sensing & Automation)
IT 38100 Total Productive Maintenance
IT 43400 Global Transportation And Logistics Management
IT 44275 Global Transportation And Logistics Management
IT 48300 Facility Design For Lean Manufacturing
MET 30200 CAD In The Enterprise
MET 33400 Advanced Fluid Power
MET 34600 Advanced Materials In Manufacturing
MET 34900 Stringed Instrument Design And Manufacture
MET 43200 Hydraulic Motion Control Systems
MET 43600 Pneumatic Motion Control Systems
MET 45100 Manufacturing Quality Control
MFET 24800 Introduction To Robotics
MFET 29200 Projects In Automation, Robotics And Mechatronics
MFET 34800 Advanced Industrial Robotics
MFET 39200 Advanced Projects In Automation, Robotics, And Mechatronics
MFET 49900 Manufacturing Engineering Technology Independent Project
- Technology, Innovation and Culture in Bavaria (Study Abroad)
MGMT 45500 Legal Background For Business I
OLS 28400 Leadership Principles
TLI 33620 Total Productive Maintenance
TLI 44275 Global Transportation And Logistics Management

Capstone Selective I
ECET 43000 Electrical and Electronic Product and Program Management
ECET 43100 International Capstone Project Planning and Design
ENGT 40500 Entrepreneurial Capstone I
MET 40100 Capstone Projects I
MFET 48000 Project Planning For Integration

Capstone Selective II
ECET 46000 Project Design and Development
ECET 46100 International Capstone Project Execution
ENGT 40600 Entrepreneurial Capstone II
MET 40200 Capstone Project II
MFET 48100 Integration of Manufacturing Systems

Behavioral/Social Science Foundational Selective
Must be a Behavioral Social Science course from the approved UCC list: http://www.purdue.edu/provost/initiatives/curriculum/course.html
SOC 10000 Intro to Sociology
PSY 12000 Elementary Psychology
ECON 21000 Principles of Economics

Humanities Foundational Selective
Must be a Humanities course from the approved UCC list: http://www.purdue.edu/provost/initiatives/curriculum/course.html
HIST 15100 American History to 1877
HIST 15200 US from 1877
MUS 25000 Music Appreciation
PHIL 1100 Intro to Philosophy
PHIL 11100 Ethics

Humanities/Social Science Selective
Any 20000 level course or higher in PSY, SOC, HIST, ECON, POL, PHIL, REL, ANTH, English Literature, or a Foreign Language
AD 22600 History Of Art To 1400
AD 22700 History Of Art Since 1400
AD 25100 History Of Photography I
AD 25500 Art Appreciation
AD 30701 History Of Contemporary Photography
AD 31100 Ancient Greek Art
AD 31200 Ancient Roman Art
MUS 25000 Music Appreciation
MUS 37400 Contemporary Music
MUS 37600 World Music
MUS 37800 Jazz History
MUS 38100 Music History I: Antiquity To Mozart
MUS 38200 Music History II: Beethoven To The Present

Free Elective
Any non-remedial course
Intercultural Requirement
Step 1: Complete the Pre-test Intercultural Development Inventory Assessments (1st year)

Step 2: Complete one (1) of the following global experiences:*
Participate in an A Purdue University international capstone, collaborative project, or participate in an international internship (international location), or participate in a full semester abroad program 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 (4th year)

NOTE FOR TRANSFER/CODO STUDENTS: Transfer and CODO students with less than 75 credit hours remaining to completed their Polytechnic Plan of Study are exempt from Step 1 (taking the IDI Pre-test).

*Global experiences must take place during the time of enrollment in Polytechnic to complete Step 2. Experiences 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.

AAS 27100 Introduction To African American Studies 3.00
AAS 37300 Issues In African American Studies 3.00
AGR 20100 Communicating Across Culture 3.00
ANSC 38100 Leadership For A Diverse Workplace 3.00
ANTH 20300 Biological Bases Of Human Social Behavior 3.00
ANTH 20500 Human Cultural Diversity 3.00
ANTH 21000 Technology And Culture 3.00
ANTH 21200 Culture, Food And Health 3.00
ANTH 23000 Gender Across Cultures 3.00
ANTH 34000 Global Perspectives On Health 3.00
ANTH 34100 Culture And Personality 3.00
ANTH 37900 Native American Cultures 3.00
ARAB 28000 Arabic Culture 3.00
ASAM 24000 Introduction To Asian American Studies 3.00
AT 23300 Ethics And Aviation 3.00
CNIT 32000 Policy, Regulation, And Globalization In Information Technology 3.00
COM 22400 Communicating In The Global Workplace 3.00
COM 30300 Intercultural Communication 3.00
COM 32000 Small Group Communication 3.00
COM 37300 Self-Presentation And Social Image 3.00
COM 41200 Theories Of Human Interaction 3.00
COM 42300 Leadership, Communication And Organizations 3.00
ECET 29000 International Experience 1.00 to 3.00
ECET 38001 Global Professional Issues In Engineering Technology 3.00
EDPS 23500 Learning And Motivation 3.00
EDPS 30000 Student Leadership Development 1.00 to 3.00
EDPS 30100 Peer Counseling Training 1.00 to 3.00
EDPS 31500 Collaborative Leadership: Interpersonal Skills 3.00
EDPS 31600 Collaborative Leadership: Cross-Cultural Settings 3.00
EDPS 31700 Collaborative Leadership: Mentoring 3.00
ENGL 41400 Studies In Literature And Culture 3.00
HDFS 28000 Diversity In Individual And Family Life 3.00
HDFS 33200 Stress And Coping In Contemporary Families 3.00
HEBR 38500 The Holocaust In Modern Hebrew Literature 3.00
HIST 19500 The Historian's Craft: Historical Research And Film 3.00
HIST 30000 Eve Of Destruction: Global Crises And World Organization In The 20th Century3.00
HIST 35000 Science And Society In The Twentieth Century World 3.00
HIST 36600 Hispanic Heritage Of The United States 3.00
HIST 37700 History And Culture Of Native America 3.00
HIST 46900 Black Civil Rights Movement 3.00
HIST 47900 American Representations Of The Middle East And North Africa 3.00
HTM 37000 Sustainable Tourism And Responsible Travel 3.00
HTM 37200 Global Tourism Geography 3.00
MSL 20100 Individual Leadership Studies 2.00 or 3.00
OJS 35000 Creativity In Business And Industry 3.00
PHIL 11400 Global Moral Issues 3.00
PHIL 43500 Philosophy Of Mind 3.00
POL 22200 Women, Politics, And Public Policy 3.00
POL 23500 International Relations Among Rich And Poor Nations 3.00
POL 32600 Black Political Participation In America 3.00
POL 32700 Global Green Politics 3.00
POL 36000 Women And The Law 3.00
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, etc. 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

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<tr>
<td>Automatic</td>
<td>Any TECH Professional Practice course (co-op, intern, etc.)</td>
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<tr>
<td>Automatic</td>
<td>MET 29900 Internship for Credit</td>
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<tr>
<td>Automatic</td>
<td>EPICS courses, minimum of two</td>
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<tr>
<td>Advisor</td>
<td>Any approved internship (assuming student and/or employer provide documentation)</td>
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<tr>
<td>Advisor</td>
<td>Military service (ROTC completion, reservist, active duty, veteran)</td>
</tr>
<tr>
<td>Faculty</td>
<td>Supervised undergraduate research experiences or laboratory assistantships (e.g., employed in the AEL as lab technician)</td>
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<tr>
<td>Faculty</td>
<td>Independent study - by petition to ensure the project meets the spirit of the Requirement</td>
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<tr>
<td>Faculty</td>
<td>Professional society/club activities (e.g., led the Solar Racing team) – by Petition</td>
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<tr>
<td>Faculty</td>
<td>Any approved employment or industry project.</td>
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*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.