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<tr>
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<tr>
<td>Materials and Processes Selective</td>
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<td>MA 16010 Applied Calculus I *♦ (Prereq: ALEKS score of 75)</td>
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<td>Freshman Composition Selective♦♦</td>
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<td>CNIT 10500 Introduction to C Programming</td>
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<td>MET 11100 Applied Statics (Prereqs: ENGT 18000)</td>
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<td>Behavioral/Social Science Selective♦</td>
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<td>ENGT 18100 ENG Tech Applications♦</td>
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<td>Physics Selective♦</td>
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<td>ECET 22400 Electronic Systems (Prereq: MA 16010) ♦</td>
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<td>MET 10200 Production Specifications (Prereqs: CGT Selective and ENGT 18000)</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>MET 28400 Intro to Industrial Controls (Prereq: ECET 22400)</td>
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<td>MET 11100 Mechanics Applications (Prereq: MET 11100)</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>Humanities Foundation Selective♦</td>
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<td></td>
<td>Science Selective♦</td>
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<td>Computer Graphics Selective ♦</td>
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<td>MFET 24800 Introduction to Robotics (Prereq: CNIT 10500)</td>
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<tr>
<td>ECET 33700 Analog Signal Processing (Prereq: ECET 22400 + MA 16020)</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 ET</td>
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<tr>
<td>MFET 34800 Advanced Industrial Robotics (Prereq: MET 28400)</td>
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<td></td>
<td>CHM 11100 General Chemistry - CHEM-C 101 &amp; CHEM-C 121 (IUSB)</td>
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</tr>
<tr>
<td>ECET 32700 Instrument &amp; DAQ Design (Prereqs: ECET 22400, MA 16010, PHYS Sel.)</td>
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<td>Manufacturing Selective</td>
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<tr>
<td>MET 245000 Manufacturing Systems (Prereqs: MET 14300 or MET 14400 and Computer graphics selective) ♦</td>
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<td>Statistics or Quality Selective</td>
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<tr>
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<td>Capstone Selective II</td>
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<tr>
<td>TLI 33400 Monetary Analysis for Industrial Decisions or IET 45000 Monetary Analysis For Industrial Decisions</td>
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<td>Technical Elective</td>
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<tr>
<td>Technical Writing Selective♦</td>
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<td></td>
<td>Humanities/Social Science Elective</td>
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<tr>
<td>Mechatronics/Controls Selective</td>
<td>3</td>
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<td></td>
<td>Manufacturing/Controls Selective</td>
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<tr>
<td>Communications Selective♦</td>
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</table>

*Fulfills University core.
♦Denotes Cornerstone Certificate option.
♦Indicates course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.
1. 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.

The myPurduePlan powered by DegreeWorks is knowledge source for specific requirements and completion.

******************************************************************************************************************************************

For Catalog Terms beginning in fall 2019 (202010)
For Catalog Terms beginning in fall 2019 (202010)
For Catalog Terms beginning in fall 2019 (202010)
For Catalog Terms beginning in fall 2019 (202010)
For Catalog Terms beginning in fall 2019 (202010)
For Catalog Terms beginning in fall 2019 (202010)
For Catalog Terms beginning in fall 2019 (202010)
For Catalog Terms beginning in fall 2019 (202010)
For Catalog Terms beginning in fall 2019 (202010)
For Catalog Terms beginning in fall 2019 (202010)
For Catalog Terms beginning in fall 2019 (202010)
BOLD indicates course offered at the South Bend location.

FRESHMAN COMPOSITION SELECTIVE+
ENGL 10600 First-Year Composition
ENGL 10800 Accelerated First-Year Composition
*ENG-W 131 Reading, Writing & Inquiry

*S Indicates approved IUSB course for South Bend location.

FRESHMAN SPEECH SELECTIVE+
COM 11400 Fundamentals Of Speech Communication
*SPCH-S 121 Public Speaking

SCLA 10100 Transformative Texts, Critical Thinking & Communication I: Antiquity to Modernity

COMMUNICATION SELECTIVE+
COM 31500 Speech Communication Of Technical Information
COM 32000 Small Group Communication

SCLA 10200 Transformative Texts, Critical Thinking And Communication II: Modern World

TECHNICAL WRITING SELECTIVE+
ENGL 42100 Technical Writing

COM 41500 Discussion Of Technical Problems
EDPS 31500 Collaborative Leadership: Interpersonal Skills

ENGL 42400 Writing For High Technology Industries

COMPUTER GRAPHICS SELECTIVE
CGT 11000 Technical Graphics Communications
CGT 16300 Graphical Communications and Spatial Analysis

IT 10500 Intro to Engineering Design

TECHNICAL SELECTIVE
Any 30000 or higher ECET course which is not currently required on the plan of study.

CGT 11301 Product Data Management
CGT 20301 Model-Based Definition
CGT 21301 Simulation And Visualization Applications
CGT 30301 Digital Manufacturing
CGT 31301 The Business of Managing Digital Product Data
CGT 32600 Graphics Standards For Product Definition
CGT 42300 Product Data Management
CGT 42600 Industry Applications Of Simulation And Visualization
ECET 27900 Embedded Digital Systems
FNR 30110 Sustainable Forest Products Manufacturing
IT 33000 Industrial Sales And Sales Management
IT 345000 Automatic Identification And Data Capture
IT 35100 Advanced Industrial Safety And Health Management
IT 38100 Total Productive Maintenance
IT 43400 Global Transportation And Logistics Management

IT 44200 Production Planning
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 38200 Controls And Instrumentation For Automation
MET 43200 Hydraulic Motion Control Systems
MET 43600 Pneumatic Motion Control Systems
MFET 28800 Smart Manufacturing Operational And Information Networks
MGMT 45500 Legal Background For Business I
OLS 28400 Leadership Principles
TLI 31300 Tech Integration:Bar Codes to Biometrics
TLI 33620 Total Productive Maintenance
TLI 44275 Global Transportation And Logistics Management

STATISTICS OR QUALITY SELECTIVE
IT 34200 Introduction To Statistical Quality
STAT 30100 Elementary Statistical Methods
TLI 31600 Statistical Quality Control

PHYSICS SELECTIVE
PHYS 21800 General Physics
PHYS 22000 General Physics
PHYS 17200 Modern Mechanics
*PHYS-P 221 Physics I or 201 General Physics I

Updated 04/14/2019
**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  
*BIOI-L 100 Humans & the Biological World*  
*PHYS-P 222 Physics 2 or 202 General Physics 2*

**MECHATRONICS SELECTIVE**

MET 43200 Hydraulic Motion Control Systems  
MET 43600 Pneumatic Motion Control Systems  
MET 48200 Mechatronics  
MET 58100 Design for Mechatronics  

MFET 29200 Projects in Automation, Robotics And Mechatronics  
MFET 34800 Advanced Industrial Robotics  
MFET 39200 Advanced Projects In Automation, Robotics, And  
Mechatronics

**CONTROLS SELECTIVE**

ECET 27400 Wireless Communications  
ECET 35901 Computer Based Data Acquisition Applications  
ECET 49900 Electrical Engineering Technology: Applied Comp Vision  
Sensing & Auto  
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  

TLI 31300 Tech Integration: Bar Codes to Biometrics

**MANUFACTURING SELECTIVE**

AT 27200 Introduction To Composite Technology  
AT 30802 Aircraft Materials Processes  
AT 47200 Advanced Composite Technology  
CGT 20301 Model-Based Definition  
CGT 21301 Simulation And Visualization Applications  
CGT 30301 Digital Manufacturing  
CGT 31301 The Business of Managing Digital Product Data  
CGT 32600 Graphics Standards For Product Definition  
CGT 42300 Product Data Management  
CGT 42600 Industry Applications Of Simulation And Visualization  
ECET 27000 Electronics Prototype Development And Construction  
ECET 49900 Electrical Engineering Technology: Applied Comp Vision  
Sensing & Auto  
IT 38100 Total Productive Maintenance  

IT 43400 Global Transportation And Logistics Management  
IT 44200 Production Planning  
IT 48300 Facility Design For Lean Manufacturing  
MET 30200 CAD In The Enterprise  
MET 34900 (Stringed Instrument Design and Manufacture  
MET 45100 Manufacturing Quality Systems  
MFET 29200 Projects in Automation, Robotics, and Mechatronics  
MFET 39200 Advanced Projects in Automation, Robotics, and  
Mechatronics  

MFET 49900 Manufacturing Engineering Technology Independent  
Project: Technology, Innovation and Culture In Bavaria (Study Abroad)  
TLI 33620 Total Productive Maintenance  
TLI 44275 Global Transportation And Logistics Management

**HUMANITIES FOUNDATIONAL SELECTIVE**: (6 credits) see [http://www.purdue.edu/provost/initiatives/curriculum/course.html](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 Core Course Requirements: [http://www.purdue.edu/provost/initiatives/curriculum/documents/Retro%20and%20Transfer%20Credit%20Course%20list%205-27-14.pdf](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 114 History of Western Civilization 2  
*MUS-M 17400 Music for the Listener  
*PHIL-P 110 Introduction to Philosophy  
*PHIL-P 140 Introduction to Ethics

**BEHAVIORAL/SOCIAL SCIENCE FOUNDATIONAL SELECTIVE**: see [http://www.purdue.edu/provost/initiatives/curriculum/course.html](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 Core Course Requirements: [http://www.purdue.edu/provost/initiatives/curriculum/documents/Retro%20and%20Transfer%20Credit%20Course%20list%205-27-14.pdf](http://www.purdue.edu/provost/initiatives/curriculum/documents/Retro%20and%20Transfer%20Credit%20Course%20list%205-27-14.pdf)

*ECON-E 103 Introduction to Microeconomics  
*ECON-E 104 Introduction to Macroeconomics  
*POLS-Y 103 Introduction to American Politics  

*PSY-P 103 Introduction to Psychology  
*SOC-S 161 Principles of Sociology  
*SOC-S 163 Social Problems

Updated 04/14/2019
HUMANITIES/Social Science ELECTIVE:
Any 20000 or higher course in Psychology, Sociology, English Literature, History, Economics Political Science, Philosophy, Religion, Anthropology, a foreign language.

CAPSTONE SELECTIVES 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 SELECTIVES II
ECET 46000 Project Design And Development
ECET 46100 International Capstone Project Execution
ENGT 40600 Entrepreneurial Capstone II
MET 40200 Capstone Projects II
MFET 48100 Integration Of Manufacturing Systems

ELECTIVE: Any non-remedial course

INTERCULTURAL REQUIREMENT - ALL students must complete

<table>
<thead>
<tr>
<th>Polytechnic Minimum Global Requirements</th>
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<tbody>
<tr>
<td><strong>STEP 1</strong>:</td>
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<td><strong>STEP 2</strong>:</td>
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<tr>
<td><strong>STEP 3</strong>:</td>
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</table>

**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 (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.

Purdue University (West Lafayette) courses that meet the global requirement

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>AAS 27100</td>
<td>Intro to African American Studies</td>
</tr>
<tr>
<td>AAS 37300</td>
<td>Variable Title: History of Injustice</td>
</tr>
<tr>
<td>AGR 20100</td>
<td>Communication Across Cultures</td>
</tr>
<tr>
<td>ANSC 38100</td>
<td>Leadership for a Diverse Workplace</td>
</tr>
<tr>
<td>ANTH 20300</td>
<td>Biological Bases of Human Social Behavior</td>
</tr>
<tr>
<td>ANTH 20500</td>
<td>Human cultural Diversity</td>
</tr>
<tr>
<td>ANTH 21000</td>
<td>Technology and Culture</td>
</tr>
<tr>
<td>ANTH 21200</td>
<td>Culture, Food and Health</td>
</tr>
<tr>
<td>ANTH 23000</td>
<td>Gender Across Cultures</td>
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<tr>
<td>ANTH 34000</td>
<td>Global Perspectives on Health</td>
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<tr>
<td>ANTH 34100</td>
<td>Culture and Personality</td>
</tr>
<tr>
<td>ANTH 37900</td>
<td>Native American Cultures</td>
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<tr>
<td>ARAB 28000</td>
<td>Arabic culture</td>
</tr>
<tr>
<td>ASAM 24000</td>
<td>Intro to Asian American Studies</td>
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<tr>
<td>AT 23300</td>
<td>Ethics and Aviation</td>
</tr>
<tr>
<td>CNIT 32000</td>
<td>Policy, Regulation, and Globalization in Information Technology</td>
</tr>
<tr>
<td>COM 22400</td>
<td>Communicating in the Global Workplace</td>
</tr>
<tr>
<td>COM 30300</td>
<td>Intercultural Communication</td>
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<tr>
<td>COM 32000</td>
<td>Small Group Communication</td>
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<tr>
<td>COM 37300</td>
<td>Self-Presentation &amp; Social Image</td>
</tr>
<tr>
<td>COM 41200</td>
<td>Theories of Human Interaction</td>
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<tr>
<td>COM 42300</td>
<td>Leadership, Communication &amp; Organizations</td>
</tr>
<tr>
<td>ECET 29000</td>
<td>International Experience</td>
</tr>
</tbody>
</table>

Updated 04/14/2019
Polytechnic Statewide- South Bend (IUSB) Approved Courses

South Bend- Offered through IUSB

ANTH-E  Indians of Indiana
ANTH-E 105 Culture & Society
ANTH-E 300 Culture Areas & Ethnic Groups
ANTH-E 310 Introduction to Cultures of Africa
ANTH-E 321 Peoples of Mexico
ANTH-E 335 Ancient Civilization of Mesoamerica
ANTH-E 397 Peoples & Cultures of the Middle East
EALC-J 101 Elementary Japanese I
GEOG-110 Introduction to Human Geography
GEOG-G 120 Regions of the World
GEOG-G 201 World Regional Geography
HIST-A 371 History of Indiana I
HIST-A 372 History of Indiana II
HIST-A 301 Colonial America
HIST-A 373 American History Through Film
HIST-A 355 African American History I
HIST-B 300 Issues in Western European History
HIST-B 378 History of Germany since 1648 II
HIST-C 386 Greek History from the Minoans to Alexander
HIST-D 310 Russian Revolution and Soviet Regime
HIST-F 300 Issues in Latin American History
HIST-A 352 History of Latinos in the United States
HIST-G 358 Early Modern Japan
HIST-H 101 The World in the Twentieth Century I
HIST-H 201 History of Russia I
HIST-H 202 History of Russia II
HIST-H 207 Modern East Asian Civilization

HIST-E 211 Latin American Culture and Civilization 1
HIST-E 212 Latin American Culture and Civilization 2
HIST-W 300 Issues in World History
LSTU-L 330 Global Comparisons: Labor Relations – Examples from Three Continents
LSTU-L 331 Global Problems: Local Solutions
LSTU-L 385 Class, Race Gender, and Work
PHIL-P 102 Critical Thinking and Applied Ethics
PHIL-P 105 Critical Thinking
PHIL-P 140 Introduction to Ethics
POL-S-Y 107 Introduction to Comparative Politics
POL-S-Y 109 Introduction to International Relations
POL-S-Y 343 The Politics of International Development
PSY-P 103 Introduction to Psychology
PSY-P 327 The Psychology of Motivation
PSY-P 391 Psychology of Gender and Ethnicity
REL-R 152 Jews, Christians, Muslims
REL-R 153 Religions of Asia
SOC-S 163 Social Problems
REL-R 257 Introduction to Islam
REL-R 354 Buddhism
SOC-S 161 Principles of Sociology
SOC-S 335 Race and Ethnic Relations
SPAN-S 101 Elementary Spanish I
SPCH-B 399 Human Behavior and Social Institutions
SPCH-S 324 Persuasive Speaking
SPCH-S 427 Cross Cultural Communication

Updated 04/14/2019
PROFESSIONAL REQUIREMENT – ALL students must complete

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, 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 I: Approved Professional Experiences

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

*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.