



**South Bend**

School of Engineering Technology Name: \_\_\_\_\_

Major: Mechanical Engineering Technology (MET)

MET-BS Suggested Arrangement of Courses

Accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>

Catalog Term: \_\_\_\_\_ PUID: \_\_\_\_\_

For Catalog Terms beginning in fall 2019  
Major Code: METC Program Code: PIMET-BS

Fall 1 <sup>st</sup> Year	CR	GR	Sem	Fulfilled by	Spring 1 <sup>st</sup> Year	CR	GR	Sem	Fulfilled by
Computer Graphics Tech Selective	3				MA 16010 Applied Calculus I (P: ALEKS score 75)	3			
Freshman Composition Selective+	3				MET 11100 Applied Statics ♦ (P: ENGT 18000)	3			
MET 14300 Materials and Processes I	3				MET 14400 Materials and Processes II	3			
ENGT 18000 Engineering Technology Foundations ♦	3				MET 10200 Production Specifications (Prereqs: CGT selective and ENGT 18000)	3			
ENGT 18100 Engineering Tech Apps	1				PHYS 22000 General Physics I	5			
TECH 12000 Design Thinking in Tech.	3				PHYS-P 221 or 201 (IUSB)				
<b>TOTAL CREDIT HOURS</b>	<b>16</b>				<b>TOTAL CREDIT HOURS</b>	<b>17</b>			

Fall 2 <sup>nd</sup> Year	CR	GR	Sem	Fulfilled by	Spring 2 <sup>nd</sup> Year	CR	GR	Sem	Fulfilled by
ECET 22400 Electronics Systems (Prereq: MA 16010)	3				MET 23000 Fluid Power (Prereqs: MET 11100 and MA 16010)	3			
MA 16020 Applied Calculus II (Prereq: MA 16010 with grade of C- or higher)	3				Programming Selective	3			
MET 21100 Strength of Materials (Prereqs: MET 11100 and MA 16010)	4				Freshmen Speech Selective+	3			
MET 21300 Dynamics (Prereqs: MA 16020 and MET 11100)	3				MET 28400 Intro to Industrial Controls (Prereq: ECET 22400)	3			
MET 24500 Manufacturing Systems (Prereqs: (MET 14300 or 14400) and CGT Sel)	3				PHYS 22100 General Physics II (Prereq: PHYS 2200) – PHYS-P 222 or 202 (IUSB))	5			
<b>TOTAL CREDIT HOURS</b>	<b>16</b>				<b>TOTAL CREDIT HOURS</b>	<b>17</b>			

Fall 3 <sup>rd</sup> Year	CR	GR	Sem	Fulfilled by	Spring 3 <sup>rd</sup> Year	CR	GR	Sem	Fulfilled by
CHM 111 General Chemistry – CHEM-C 101 & CHEM-C 121 (IUSB)	5				MET 32000 Thermodynamics (Prereqs: MA 16010 and MET 22000)	3			
MET 22000 Heat Power (Prereqs: PHYS 22000, MA 16010 & ENGT 18000)	3				MET 34600 Advanced Materials in Mfg (Prereqs: MET 21100, MET 24500 and CHM 11100)	3			
Humanities Selective	3				Economics/Finance Selective	3			
Technical Writing Selective+	3				STAT 30100 Elementary Statistical Methods	3			
Technical/Management Selective	3				Global/Professional Selective	3			
<b>TOTAL CREDIT HOURS</b>	<b>17</b>				<b>TOTAL CREDIT HOURS</b>	<b>15</b>			

Fall 4 <sup>th</sup> Year	CR	GR	Sem	Fulfilled by	Spring 4 <sup>th</sup> Year	CR	GR	Sem	Fulfilled by
TLI 33400 Economic Analysis of Technical Systems (Prereq: MA 16010)	3				MET Capstone Selective II (Prereq: Capstone Selective I)	3			
MET Capstone Selective I	3				MET Elective or approved Focus Area elective	3			
MET 31300 Fluid Mechanics (Prereqs: MA 16020, MET 22000 and MET 23000)	3				Technical Selective or approved Focus Area elective	3			
Mechanics Selective	3				Behavioral Social Science Selective	3			
Communications Selective+	3				Intercultural Requirement	0			
					Professional Requirement	0			
<b>TOTAL CREDIT HOURS</b>	<b>15</b>				<b>TOTAL CREDIT HOURS</b>	<b>12</b>			

Refer to the 2019 MET supplemental Instruction sheet for optional courses to complete selectives and prerequisites.

♦ 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 unless otherwise noted.
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.
5. Complete the Global / Intercultural Requirement (ungraded).
6. Complete the Professional Requirement (ungraded).
7. + denotes optional Cornerstone Certificate course.

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

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

\*\*\*\*\* Updated 4/12/2019

## South Bend 2019 MET SUPPLEMENTAL INFORMATION

All prerequisites must be met

**BOLD indicates courses offered at the South Bend location.**

\*Indicates approved IUSB course for South Bend location.

+ Denotes optional Cornerstone Certificate Course

### CGT SELECTIVE

#### **CGT 11000 Technical Graphics Communications**

CGT 16300 Graphical Communication and Spatial Analysis

IT 10500 Intro to Engineering Design

### PROGRAMMING SELECTIVE

#### **CNIT 10500 Introduction to C Programming** or \*CSCI-C 101

Computer Programming I

CNIT 15500 Introduction to Computer Object-Oriented Programming

Computer CNIT 15501 Intro to Software Development Concepts

#### **CNIT 17500 Visual Programming**

CS 15800 C Programming

CS 15900 Programming Applications for Engineers

CS 17700 Programming with Multimedia Objects

CS 18000 Problem Solving and Object-Oriented Programming

MET 16400 Computing in Engineering Technology

### FRESHMAN COMPOSITION SELECTIVE +

ENGL 10600 First-Year Composition

ENGL 10800 Accelerated First-Year Composition

#### **\*ENG-W 131 Reading, Writing & Inquiry**

#### **SCLA 10100 Transformative Texts, Critical Thinking And Communication I: Antiquity To Modernity**

### FRESHMAN SPEECH SELECTIVE+

COM 11400 Fundamentals of Speech Communication

#### **\*SPCH-S 121 Public Speaking**

#### **SCLA 10200 Transformative Texts, Critical Thinking and Communication II: Modern World**

### ECONOMICS/FINANCE SELECTIVE

AGEC 21700 Agricultural Economics

CSR 3420 Personal Finance

ECON 2100 Principles of Economics

ECON 25100 Microeconomics

#### **\*ECON-E 103 Intro Microeconomics**

#### **\*ECON-E 104 Intro to Macroeconomics**

ECON 25200 Macroeconomics

ENTR 20000 Intro To Entrepreneurship And Innovation

### COMMUNICATIONS SELECTIVE+

COM 31500 Speech Communication of Technical Information

#### **COM 32000 Small Group Communication**

COM 41500 Discussion of Technical Problems

EDPS 31500 Collaborative Leadership: Interpersonal Skills

### TECHNICAL WRITING SELECTIVE+

#### **ENGL 42100 Technical Writing**

ENGL 42400 Writing for High Technology Industries

### TECHNICAL SELECTIVE

A 300-400 level ENGR, ECET, MFET (except MFET 30000), CS or elective IET course.

Purdue 3-session co-op with completed seminar courses.

A CHM, MA, PHYS or STAT course beyond what is required.

Any **MET elective** course

ANSC 23000 Physiology of Domestic Animals

AT 27200 Intro to Composite Technology

AT 27800 Nondestructive Testing

AT 47800 Advanced Nondestructive Testing

BCHM 22100 Analytical Biochemistry

BCM 23000 Mechanical/Electrical Systems

BCM 31500 Mechanical Construction Estimating

BCM 38000 Concrete Construction

BIOL 20300 Human Anatomy and Physiology

BIOL 22100 Introduction to Microbiology

CGT 22600 Intro to Constraint Based Modeling

CGT 30301 Digital Manufacturing

CHM 11200 General Chemistry

CHM 11600 General Chemistry

CHM 48100 Environmental Chemistry

CE 35000 Environmental Engineering

CE 35500 Engineering Environmental Sustainability

HSCI 31200 Radiation Science Fundamentals

IE 57700 Human Factors in Engineering

IT 33000 Industrial Sales and Sales Management

IT 34500 Automatic Identification and Data Capture

IT 35100 Adv Industrial Safety & Health Management

IT 43400 Global Transportation and Logistics Management

MA 26100 Multivariate Calculus

MFET 28800 Smart Manufacturing Operational And Information

Networks

NS 35000 Naval Ship Systems

**TLI 31300 Technology Innovation And Integration: Bar Codes To Biometrics**

**TLI 33620 Total Productive Maintenance**

### TECHNICAL/MANAGEMENT SELECTIVE

AFT 35100 AF Leadership Studies I

AFT 36100 AF Leadership Studies II

#### **ECET 38001 Global Professional Issues in ET**

EDPS 31500 Leadership: Listening

EDPS 31600 Leadership: Cross-Cultural

EDPS 31700 Leadership: Mentoring

ENTR 31000 Marketing Management for New Ventures

ENTR 31500 Business Planning For Social Entrepreneurship

MFET 35800 Smart Manufacturing And The Global Economy  
MGMT 20000 Accounting Principles  
MGMT 20010 Business Accounting  
MGMT 45500 Legal Background for Business  
MSL 20200 Leadership & Teamwork  
MSL 30100 Leadership & Problem Solving  
MSL 40100 Leadership & Management  
NS 21400 Fundamentals of Leadership  
NS 41300 Naval Leadership Management & Ethics  
OLS 25200 Human Relations in Organizations  
OLS 27400 Applied Leadership  
OLS 28400 Leadership Principles

OLS 36400 Tech & the Organization  
OLS 38600 Leadership for Org Change & Innov  
PSY 27200 Intro to Industrial-Organizational Psych  
**TLI 11200 Foundations of Organizational Leadership**  
**TLI 15200 Business Principles for Organizational Leadership**  
**TLI 21300 Project Management**  
**TLI 25300 Principles of Technology Strategy**  
**TLI 25400 Leading Change in Technology Organizations**  
**TLI 41400 Financial Analysis For Technology Systems**  
Approved Study Abroad Course

MECHANICS SELECTIVE *Prerequisites are in parenthesis*

MET 31100 Experimental Strength of Materials (MET 21100, MET 21300, & MA 16020)  
**MET 31400 Applications of Machine Elements** (MET 21100 & MET 21300)  
MET 31500 Applied Kinematics and Dynamics (CGT 11000 & MET 21300)  
MET 31601 Mechanics of Machine Design (MET 21100)  
MET 31700 Machine Diagnostics (MET 21300, Physics 2 & MA 16020)  
**MET 41100 Introduction to the Finite Element Method** (MET 21100, MET 21300, & Physics 2)

MET ELECTIVE (6 credit hours) *Prerequisites are in parenthesis*

5 Session co-op with completed seminar courses.  
**MET 30200 CAD in the Enterprise** (MET 10200 & MET 24500)  
**MET 31100 Experimental Strength of Materials** (MET 21100, MET 21300, & MA 16020)  
**MET 31400 Applications of Machine Elements** (MET 21100 & MET 21300) MET 31700 Machine Diagnostics (Physics 2 & MA 16020)  
MET 31500 Applied Kinematics and Dynamics (CGT 11000 & MET 21300)  
MET 31601 Mechanics of Machine Design (MET 21100)  
MET 33400 Advanced Fluid Power (MET 23000 or MET 33000)  
**MET 34900 Stringed Instrument Design and Manufacture** (MET 21100, MET 21300, MET 24500, & MA 16020)  
MET 38200 Controls and Instrumentation for Automation (MA 16010, & MET 28400)  
**MET 40000 Mechanical Design** (MET 10200, MET 23000, MET 28400, and MET 34600)  
**MET 40100 Capstone Projects I** (MET 10200, MET 23000, MET 28400, and MET 34600)  
**MET 40200 Capstone Projects II** (MET 40100 or ECET 43000)  
**MET 41100 Introduction to the Finite Element Method** (MET 21100, MET 21300, & Physics 2)  
**MET 42100 Air Conditioning and Refrigeration** (MET 32000 or MET 30000)  
MET 42200 Power Plants & Energy Conversion (MET 31300 and MET 32000)  
MET 42600 Internal Combustion Engines (MET 32000 or MET 30000)  
MET 43200 Hydraulic Motion Control Systems (MET 23000 or MET 33000)  
MET 43600 Pneumatic Motion Control Systems (MET 23000 or MET 33000)  
MET 44301 Joining Processes (MET 10200, MET 21400, & MET 34600)  
MET 45100 Manufacturing Quality Control (STAT 30100)  
MET 48200 Mechatronics (MET 10200, MET 21400, and MET 28400)  
MET 48600 Fundamentals of Motorsports (MET 31300, & MET 32000)  
MET 49000 Green Manufacturing and Sustainability  
MET 49900 MET Independent Study

MET CAPSTONE SELECTIVES I & II (6 credit hours) *Prerequisites are in parenthesis*

**ECET 43000 Product/Project Management** (ECET 38001 and 9-12 cr. hrs. of coursework in a technical focus area)  
ECET 43100 International Capstone Plan  
**ECET 46000 Project Design and Development** (ECET 43000)  
ECET 46100 International Capstone Execution (ECET 43100)  
**ENGT 40500 Entrepreneurial Capstone I**  
**ENGT 40600 Entrepreneurial Capstone II** (ENGT 40500)  
MET 33400 Advanced Fluid Power (MET 23000 or MET 33000)  
**MET 40000 Mechanical Design** (MET 10200, MET 23000, MET 28400, and MET 34600)  
**MET 40100 Capstone Projects I** (MET 10200, MET 23000, MET 28400, and MET 34600)  
**MET 40200 Capstone Projects II** (MET 40100 or ECET 43000)  
**MET 42100 Air Conditional and Refrigeration** (MET 32000 or MET 30000)  
MET 42200 Power Plants & Energy Conversion (MET 31300 and MET 32000)  
MET 42600 Internal Combustion Engines  
MET 43200 Hydraulic Motion Control Systems (MET 23000 or MET 33000)  
MET 43600 Pneumatic Motion Control Systems (MET 23000 or MET 33000)  
MFET 48000 Project Planning for Integration (MFET 37400)

GLOBAL/PROFESSIONAL SELECTIVE

ANTH 20500 Human Cultural Diversity  
 ANTH 34100 Culture & Personality  
 ARAB 28000 Arabic Culture  
 CHNS 28000 Selected Topics on China  
 CHNS 28500 Chinese Calligraphy  
 COM 22400 Communicating in the Global Workplace  
 COM 30300 Intercultural Communication  
**ECET 38001 Global Professional Issues In ET**  
 EDPS 31600 Leadership: Cross-Cultural  
 FNR 48800 Global Environmental issues  
 FR 33000 French Cinema  
 GER 23000 German Folklore & Fairy Tales  
 GER 28000 Beer Brewing in the German Culture  
 GER 33000 German Cinema  
 HIST 30000 Eve of Destruction  
 HIST 33300 Science & Technology in Western Civilization I  
 HIST 33400 Science & Technology in Western Civilization II  
 HIST 36000 Gender in Middle East History  
 JPNS 28000 Introduction to Modern Japanese Civilization

LC 23500 East Asian Literature in Translation  
 LC 23900 Contemporary Foreign Women Writers in Translation  
 MFET 35800 Smart Manufacturing And The Global Economy  
 MGMT 45500 Legal Background for Business  
 MSL 30200 Leadership & Ethics  
 MUS 37600 World Music  
 NS 41300 Naval Leadership Management & Ethics  
 OLS 45600 Tech & the Global Society  
 PHIL 11400 Global Moral Issues for Engineers  
 PHIL 20600 Philosophy of Religion  
 PHIL 29000 Environmental Ethics  
 POL 23100 Introductions to United States Foreign Policy  
 PSY 33500 Stereotyping & Prejudice  
 PTGS 33000 Brazilian, Portuguese & African Cinema  
 SOC 31000 Racial & Ethnic Diversity  
 SPAN 23500 Spanish American Literature in Translation  
 SPAN 33000 Spanish & Latin American Cinema  
 TECH 33000 Tech and the Global Society  
 Approved Study Abroad Course

HUMANITIES FOUNDATIONAL SELECTIVE: see <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>

- |   |   |
|---|---|
| *FINA-F 100 Fundamentals of Studio Drawing    | *HIST-H 114 History of Western Civilization 2 |
| *HIST-H 105 American History I                | *MUS-M 17400 Music for the Listener           |
| *HIST-H 106 American History II               | *PHIL-P 110 Introduction to Philosophy        |
| *HIST-H 113 History of Western Civilization 1 | *PHIL-P 140 Introduction to Ethics            |

BEHAVIORAL/SOCIAL SCIENCE FOUNDATIONAL SELECTIVE: see <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

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- |   |                                       |
|---|---------------------------------------|
| *ECON-E 103 Introduction to Microeconomics          | *PSY-P 103 Introduction to Psychology |
| *ECON-E 104 Introduction to Macroeconomics          | *SOC-S 161 Principles of Sociology    |
| *POLS-Y 103 Introduction to American Politics       | *SOC-S 163 Social Problems            |
| *POLS-Y 109 Introduction to International Relations |                                       |

**Intercultural Requirement – ALL students must complete**

<b>Polytechnic Minimum Global Requirements</b>	
<b>STEP 1:</b>	Complete the Pre-test Intercultural Development Inventory Assessments (1 <sup>st</sup> year)
<b>STEP 2:</b>	Complete <b>one (1)</b> of the following global experiences:* <ul style="list-style-type: none"> <li>• Participate in a Purdue University international capstone, collaborative project, <b>or</b></li> <li>• Participate in an international internship (international location), <b>or</b></li> <li>• Participate in a full semester abroad program, <b>or</b></li> <li>• Complete 3 credit hours from the Polytechnic list of recommended Global/Cultural courses.</li> </ul>
<b>STEP 3</b>	Complete the Post-test Intercultural Development Inventory Assessments (4 <sup>th</sup> 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 (taking the IDI Pre-test).  *Global experiences must take place during the time of enrollment in 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.

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

AAS 27100 Intro to African American Studies  
AAS 37300 Variable Title: History of Injustice  
AGR 20100 Communication Across Cultures  
ANSC 381 Leadership for a Diverse workplace  
ANTH 203 Biological Bases of Human Social Behavior  
ANTH 20500 Human cultural Diversity  
ANTH 21000 Technology and Culture  
ANTH 21200 Culture, Food and Health  
ANTH 23000 Gender Across Cultures  
ANTH 34000 Global Perspectives on Health  
ANTH 341 Culture and Personality  
ANTH 379 Native American Cultures  
ARAB 28000 Arabic culture  
ASAM 240Intro to Asian American Studies  
AT 23300 Ethics and Aviation  
CNIT 320 Policy, Regulation, and Globalization in information Technology  
COM 224 Communicating in the Global Workplace  
COM 30300 Intercultural Communication  
COM 32000 Small Group Communication  
COM 373 Self-Presentation & Social Image  
COM 412 Theories of Human interaction  
COM 423 Leadership, Communication & Organizations  
ECET 29000 International Experience  
ECET 38001 Global Professional Issues in ET  
EDPS 30000 Student Leadership Development  
EDPS 30100 Peer Counselling Training  
EDPS 31500 Collaborative Leadership: Listening  
EDPS 31600 Collab Leadership: Cross-cultural Settings  
EDPS 31700 Collaborative Leadership: Mentoring  
ENGL 41400 Literature & Culture  
HDFS 280 Diversity in Individual and Family Life  
HDFS 33200 Stress & Coping in Contemporary Families  
HEBR 38500 The Holocaust in Modern Hebrew Literature  
HIST 19500 Historical Research & Film!  
HIST 30000 Eve of Destruction: Global Crises and World Organization in the 20th Century  
HIST 33805 History of Human Rights  
HIST 35000 Science and Society in the 20th-Century World  
HIST 36600 Hispanic Heritage of the USA  
HIST 37700 History & Culture of Native America  
HIST 46900 Black Civil Rights Movement  
HIST 47900 American Representations of Middle East & N. Africa  
HTM 37000 Sustainable Tourism and Responsible Travel  
HTM 37200 Global Tourism Geography  
MSL 20100 Individual Leadership Studies  
OLS 35000 Creativity In Business & Industry  
PHIL 11400 Global Moral Issues  
PHIL 43500 Philosophy of Mind  
POL 22000 Women, Politics & Public Policy  
POL 23500 Rich and Poor Nations  
POL 326 Black Political Participation in America  
POL 32700 Global Green Politics  
POL 36000 Women and the Law  
POL 41300 The Human Basis of Politics  
POL 42300 International Environmental Policy  
POL 42900 Variable Title: It's a Complex World (Cross listed with IE49000, ME29700)  
POL 43300 International Organization  
PSY 12000 Elementary Psychology  
PSY 25100 Health Psychology  
PSY 32200 Research Design  
SOC 10000 Intro to Sociology  
SOC 31000 Racial and Ethnic Diversity  
SOC 33900 Intro to Sociology of Developing Nations  
**TECH 330 Technology and the Global Society**  
**TLI 11200 Foundations of Tech Leadership**  
**TLI 31400 Leading Innovation in Organizations**  
WGSS 28200 Intro to LGBT Studies  
WGSS 38000 Gender and Multiculturalism  
WGSS 38300 Women and Work

Any foreign language 200 or higher (201, 202, 301, 302, 401, 402)

## 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-H 211 Latin American Culture and Civilization 1  
HIST-H 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  
 POLS-Y 107 Introduction to Comparative Politics  
 POLS-Y 109 Introduction to International Relations  
 POLS-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

**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.

**Potential Professional Experiences**

Approval Process	Experience
Automatic	Any TECH Professional Practice course (co-op, intern, etc.)
Automatic	MET 29900 Internship for Credit
Automatic	EPICS courses, minimum of 2
Advisor	Any approved internship (assuming student and/or employer provide documentation)
Advisor	Military service (ROTC, 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.