

**Departmental/Program Major Courses (120 credits)**

120 cr for graduation

"D-" or better required in all major courses

**Required Major Courses (59 credits)**

- \_\_\_\_\_ (3) MET 10200 – Production Specifications
- \_\_\_\_\_ (3) MET 11100 – Applied Statics
- \_\_\_\_\_ (3) MET 14300 – Materials and Processes I
- \_\_\_\_\_ (3) MET 14400 – Materials and Processes II (MET Gateway Course)
- \_\_\_\_\_ (4) MET 21100 – Applied Strength of Materials
- \_\_\_\_\_ (3) MET 21300 – Dynamics
- \_\_\_\_\_ (3) MET 22000 – Heat/Power
- \_\_\_\_\_ (3) MET 23000 – Fluid Power
- \_\_\_\_\_ (3) MET 24500 – Manufacturing Systems
- \_\_\_\_\_ (3) MET 28400 – Introduction to Industrial Controls
- \_\_\_\_\_ (3) MET 31300 – Fluid Mechanics
- \_\_\_\_\_ (3) MET 32000 – Thermodynamics
- \_\_\_\_\_ (3) MET 34600 – Advanced Materials in Manufacturing
- \_\_\_\_\_ (3) ENGT 18000 – Engineering Technology Foundations
- \_\_\_\_\_ (1) ENGT 18100 – Engineering Technology Applications

**MET Selectives – (15 credits, included in required major credit total)**

- \_\_\_\_\_ (3) <sup>1</sup>MET Elective or approved Focus Area elective
- \_\_\_\_\_ (3) <sup>2</sup>Mechanics Selective
- \_\_\_\_\_ (3) <sup>3</sup>MET Capstone Selective I
- \_\_\_\_\_ (3) <sup>3</sup>MET Capstone Selective II
- \_\_\_\_\_ (3) <sup>4</sup>Technical Selective or approved Focus Area Selective

**Other Departmental/Program Course Requirements (61 credits)**

- \_\_\_\_\_ (3) COM 11400 – Fundamentals of Speech Communication (**\*SPCH-S 121**) (*satisfies Oral Communication for core*)
- \_\_\_\_\_ (3) COM 32000 – Small Group Discussion
- \_\_\_\_\_ (3) ENGL 42100 – Technical Writing
- \_\_\_\_\_ (3) IET 45100 or **TLI 33400 (or IT 45000)** – Engineering Economics
- \_\_\_\_\_ (3) MA 16010 – Applied Calculus I (*satisfies Quantitative Reasoning for core*)
- \_\_\_\_\_ (3) MA 16020 – Applied Calculus II
- \_\_\_\_\_ (3) ECET 22400 – Electronics Systems
- \_\_\_\_\_ (3) CHM 11100 – General Chemistry (**\*CHEM-C 105 3 cr. + \*CHEM-C 125 2cr.**)
- \_\_\_\_\_ (4) PHYS 22000 – General Physics (**\*PHYS-P 201, 5 cr.**) (*satisfies Science for core*)
- \_\_\_\_\_ (4) PHYS 22100 – General Physics II (**\*PHYS-P 202, 5 cr.**) (*satisfies Science for core*)
- \_\_\_\_\_ (3) STAT 30100 – Statistical Methods (or **\*MATH-K 300**)
- \_\_\_\_\_ (3) TECH 12000 – Design Thinking in Technology (*satisfies Information Literacy and Science, Technology & Society for core*)
- \_\_\_\_\_ (3) <sup>5</sup>Freshman Composition Selective (choose from ENGL 10600 or ENGL 10800) (**\*ENG-W 131**) (*satisfies Written Communication for core*)
- \_\_\_\_\_ (3) <sup>6</sup>Economics/Finance Selective (choose from [ECON 21000, ECON 25100 (**\*ECON-E 103**), or ECON 25200 (**\*ECON-E 104**)], CSR 34200, or ENTR 20000 & 31000)
- \_\_\_\_\_ (3) <sup>7</sup>General Education Human Cultures: Humanities Selective (*satisfies Human Cultures Humanities for core*)
- \_\_\_\_\_ (3) <sup>8</sup>General Education Human Cultures: Behavior/Social Sciences (*satisfies Human Cultures: Behavioral Sciences for core*)
- \_\_\_\_\_ (2) <sup>9</sup>Computer Graphics Technology Selective (choose from CGT 11000, **CGT 16300**, IT 10500)
- \_\_\_\_\_ (3) <sup>10</sup>Programming Selective (choose from **CNIT 10500, CNIT 15500, CNIT 15501, CNIT 17500**, CS 15800 or CS 15900, MET 16400)
- \_\_\_\_\_ (3) <sup>11</sup>Global/Professional Selective
- \_\_\_\_\_ (3) <sup>12</sup>Technical/Management (TECH/MGMT) Selective
- \_\_\_\_\_ (0) <sup>13</sup>Professional Requirement
- \_\_\_\_\_ (0) <sup>14</sup>Intercultural Requirement

**\*Denotes Richmond Location Course Offering**

**University Core Requirements**

Human Cultures: Behavioral/Social Sciences	<input type="checkbox"/>	_____	Science	<input type="checkbox"/>	<b>PHYS 22000 (*PHYS-P 101)</b>
Human Cultures: Humanities	<input type="checkbox"/>	_____	Science	<input type="checkbox"/>	<b>PHYS 22100 (*PHYS-P 202)</b>
Information Literacy	<input type="checkbox"/>	<b>TECH 12000</b>	Science, Technology & Society	<input type="checkbox"/>	<b>TECH 12000</b>
Oral Communication	<input type="checkbox"/>	<b>COM 11400 (*SPCH-S 121)</b>	Written Communication	<input type="checkbox"/>	<b>ENGL 10600 or 10800 (*ENG-W 131)</b>
Quantitative Reasoning	<input type="checkbox"/>	<b>MA 16010</b>			

The student is ultimately responsible for knowing and completing all degree requirements.  
myPurduePlan is the knowledge source for specific requirements and completion.

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Fall 1 <sup>st</sup> Year	CR	GR	Fulfilled by	Spring 1 <sup>st</sup> Year	CR	GR	Fulfilled by
ENGT 18000 ENG Tech Foundations	3			MA 16010 Applied Calculus I (Pre-req: ALEKS score 75)	3		
ENGT 18100 ENG Tech Applications	1						
MET 14400 Materials and Processes II	3			MET 14300 Materials and Processes I	3		
TECH 12000 Design Thinking in Tech*	3			MET 11100 Applied Statics (Pre-req: ENGT 18000)	3		
CGT 16300 Graphic Comm & Spatial Anly [ <sup>9</sup> Computer Graphics Tech Selective]	2			MET 10200 Production Specifications (Pre-reqs: CGT selective and ENGT 18000)	3		
COM 11400 Fundmntls of Speech Comm* *SPCH-S 121 (IUE)	3			*ENG-W 131 (IUE) [ <sup>5</sup> Freshman Composition Selective]	3		
<b>TOTAL CREDIT HOURS</b>	<b>15</b>			<b>TOTAL CREDIT HOURS</b>	<b>15</b>		

Fall 2 <sup>nd</sup> Year	CR	GR	Fulfilled by	Spring 2 <sup>nd</sup> Year	CR	GR	Fulfilled by
MET 21100 Strength of Materials (Pre-reqs: MET 11100 and MA 16010)	4			MET 21300 Dynamics (Pre-reqs: MA 16020 and MET 11100)	3		
ECET 22400 Electronics Systems (Pre-req: MA 16010)	3			MET 28400 Intro to Industrial Controls (Pre-req: ECET 22400)	3		
PHYS 22000 General Physics I* *PHYS-P 201 (IUE, 5 cr.)	4			PHYS 22100 General Physics II* *PHYS-P 202 (IUE, 5 cr.) [Pre-req: PHYS 22000/*PHYS-P 201 (IUE)]	4		
MA 16020 Applied Calculus II (Pre-req: MA 16010 with C- or higher)	3			MET 22000 Heat Power [Pre-reqs: PHYS 22000/*PHYS-P 201 (IUE), MA 16010 and ENGT 18000]	3		
				MET 23000 Fluid Power (Pre-reqs: MET 11100 and MA 16010)	3		
<b>TOTAL CREDIT HOURS</b>	<b>14</b>			<b>TOTAL CREDIT HOURS</b>	<b>16</b>		

Fall 3 <sup>rd</sup> Year	CR	GR	Fulfilled by	Spring 3 <sup>rd</sup> Year	CR	GR	Fulfilled by
[ <sup>12</sup> Technical/Management Selective]	3			[ <sup>2</sup> Mechanics Selective]	3		
MET 24500 Manufacturing Systems (Pre-reqs: MET 14300 or MET 14400, and CGT Selective)	3			MET 32000 Thermodynamics (Pre-reqs: MA 16010 and MET 22000)	3		
CHM 11100 General Chemistry *CHEM-C 105 + *CHEM-C 125 (IUE, 5 cr.)	3			MET 34600 Advanced Materials in Mfg [Pre-reqs: MET 21100, MET 24500 and CHM 11100/*CHEM-C 105 + C 125 (IUE)]	3		
CNIT 17500 Visual Programming [ <sup>10</sup> Programming Selective]	3			[ <sup>11</sup> Global/Professional Selective]	3		
[ <sup>7</sup> Humanities Selective]	3			*ECON-E 103 (IUE) or *ECON-E 104 (IUE) [ <sup>6</sup> Economics/Finance Selective]	3		
<b>TOTAL CREDIT HOURS</b>	<b>15</b>			<b>TOTAL CREDIT HOURS</b>	<b>15</b>		

Fall 4 <sup>th</sup> Year	CR	GR	Fulfilled by	Spring 4 <sup>th</sup> Year	CR	GR	Fulfilled by
[ <sup>3</sup> MET Capstone Selective I]	3			[ <sup>3</sup> MET Capstone Selective II] (Pre-reqs: Capstone Selective I)	3		
MET 31300 Fluid Mechanics (Pre-reqs: MA 16020, MET 22000 and MET 23000)	3			[ <sup>1</sup> MET Elective or approved Focus Area elective]	3		
TLI 33400 Engineering Economics	3			STAT 30100 Statistical Methods [or *MATH-K 300 (IUE)]			
MFET 34400 Automated Mfg. Processes (Pre-req: MET 24500) or ECET 33700 Analog Signal Processing [Pre-reqs: ECET 22400, MA 16010, and PHYS 220/*PHYS-P 201 (IUE)] [ <sup>4</sup> Technical Selective or approved Focus Area elective]	3			[ <sup>8</sup> Behavioral Social Science Selective]	3		
ENGL 42100 Technical Writing [Pre-req: ENGL 10600/*ENG-W 131 (IUE)]	3			COM 32000 Small Group Discussion [Pre-req: COM 11400/*SPCH-S 121 (IUE)]	3		
<b>TOTAL CREDIT HOURS</b>	<b>15</b>			<b>TOTAL CREDIT HOURS</b>	<b>15</b>		

Refer to the 2017 MET supplemental Instruction form for optional courses to complete selectives and pre-requisites.

- 120 semester credits and a 2.0 Graduation GPA are required for the Bachelor of Science degree.
- Students must earn a "D-" or better in all courses unless otherwise noted.
- Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.
- 32 credit hours of 300-level or higher courses must be completed at the Purdue location conferring the degree.
- Complete a Professional Requirement.  Co  be an Intercultural Requirement.

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Revised 5/1/2017 (Effective Fall 2017)

2017-2018 MET SUPPLEMENTAL INFORMATION

All prerequisites must be met.

**Bold indicates courses offered at Richmond Location.**

**\*Indicates IUE courses for Richmond Location only.**

See Student Services Coordinator for course availability.

**<sup>1</sup>MET ELECTIVE:**

MET 30200 CAD in the Enterprise  
MET 31100 Experimental Strength of Materials  
MET 31700 Machine Diagnostics  
MET 33400 Advanced Fluid Power  
MET 34900 Stringed Instrument Design and Manufacture  
MET 38200 Controls and Instrumentation for Automation  
MET 40000 Mechanical Design  
MET 40100 Capstone Projects I  
MET 40200 Capstone Projects II  
MET 41100 Introduction to the Finite Element Method

MET 42100 Air Conditioning and Refrigeration  
MET 42200 Power Plants & Energy Conversion  
MET 42600 Internal Combustion Engines  
MET 43200 Hydraulic Motion Control Systems  
MET 43600 Pneumatic Motion Control Systems  
MET 44301 Joining Processes  
MET 45100 Manufacturing Quality Control  
MET 48200 Mechatronics  
MET 48600 Fundamentals of Motorsports  
MET 49000 Green Manufacturing and Sustainability

**<sup>2</sup>MECHANICS SELECTIVE:**

MET 31100 Experimental Strength of Materials  
MET 31400 Applications of Machine Elements  
MET 31500 Applied Kinematics and Dynamics

MET 31601 Mechanics of Machine Design  
MET 31700 Machine Diagnostics

**<sup>3</sup>MET CAPSTONE SELECTIVES I & II:**

ECET 43000 Electrical & Electronic Product & Program Mgmt.  
ECET 43100 International Capstone Project Planning & Design  
ECET 46000 Project Design & Development  
ECET 46100 International Capstone Project Execution  
ENGT 40500 Entrepreneurial Capstone I  
ENGT 40600 Entrepreneurial Capstone II  
MET 33400 Advanced Fluid Power

MET 40000 Mechanical Design  
MET 40100 Capstone Projects I  
MET 40200 Capstone Projects II  
MET 42100 Air Conditioning & Refrigeration  
MET 42200 Power Plants & Energy Conversion  
MET 43200 Hydraulic Motion Control Systems  
MET 43600 Pneumatic Motion Control Systems

**<sup>4</sup>TECHNICAL SELECTIVE:**

A 300-400 level ENGR, **ECET**, **MFET**, CS or **elective IET course**.

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

**Any MET elective course.**

ANSC 23000 Physiology of Domestic Animals  
AT 27200 Introduction to Composite Technology  
AT 27800 Nondestructive Testing for Aircraft  
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 & Physiology  
BIOL 22100 Introduction to Microbiology  
**\*MICR-J 200 + \*MICR-J 201**  
**CGT 22600 Introduction to Constraint-Based Modeling**  
CHM 11200 General Chemistry  
**\*CHEM-C 106 + \*CHEM-C 126**

CHM 11600 General Chemistry  
CHM 22300 Principles of Biochemistry  
CHM 48100 Environmental Chemistry  
CE 35000 Introduction to Environmental & Ecological Engineering  
CE 35500 Engineering Environmental Sustainability  
FNR 41800 Properties of Wood Related to Manufacturing  
FNR 42500 Secondary Wood Products Manufacturing  
FS 22200 Safety of Foods  
HSCI 31200 Radiation Science Fundamentals  
IE 47700 Work Methods and Measurement  
IE 57700 Human Factors in Engineering  
**IT 33000 Industrial Sales & Sales Management**  
**IT 34500 Automatic Identification & Data Capture**  
**IT 35100 Advanced Industrial Safety & Health Management**  
**IT 43400 Global Transportation & Logistics Management**  
MA 26100 Multivariate Calculus

**<sup>5</sup>FRESHMAN COMPOSITION:**

ENGL 10600 First-Year Composition  
**\*ENG-W 131**

ENGL 10800 Accelerated First-Year Composition

**<sup>6</sup>ECONOMICS/FINANCE SELECTIVE:**

CSR 3420 Personal Finance  
**\*BUS-F 260**  
ECON 2100 Principles of Economics

ECON 25100 Microeconomics  
**\*ECON-E 103**  
ECON 25200 Macroeconomics

**\*ECON-E 104**  
ENTR 20000 Introduction to  
Entrepreneurship & Innovation

**<sup>7</sup>HUMANITIES FOUNDATIONAL SELECTIVE:** see <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**

2017-2018 MET SUPPLEMENTAL INFORMATION

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**<sup>8</sup>BEHAVIORAL/SOCIAL SCIENCE FOUNDATIONAL SELECTIVE:** see <http://www.purdue.edu/provost/initiatives/curriculum/course.html>.

**\*ANTH-A 104, \*ANTH-E 320**

**\*POLS-Y 103, \*POLS-Y 109,**

**\*SOC-S 100**

**\*ECON-E 103, \*ECON-E 104**

**\*POLS-Y 324**

**\*SPCH-S 122**

**\*ENG-G 205**

**\*PSY-P 103, \*PSY-P 216**

**<sup>9</sup>COMPUTER GRAPHICS TECHNOLOGY SELECTIVE:**

**CGT 11000 Technical Graphics Communications**

IT 10500 Intro to Engineering Design

**CGT 16300 Graphical Communication and Spatial Analysis**

**<sup>10</sup>PROGRAMMING SELECTIVE:**

**CNIT 10500 Intro. to C Programming**

**CNIT 17500 Visual Programming**

**CNIT 15500 Intro. to Object-Oriented Programming**

CS 15800 C Programming

**CNIT 15501 Intro. to Software Development Concepts**

CS 15900 Programming Applications for Engineers

**<sup>11</sup>GLOBAL/PROFESSIONAL SELECTIVE:**

ANTH 20500 Human Cultural Diversity

MGMT 45500 Legal Background for Business

**\*ANTH-A 104**

MSL 30200 Leadership & Ethics

ANTH 34100 Culture & Personality

MUS 37800 World Music

ARAB 28000 Arabic Culture

**\*MUS-Z 393**

CHNS 28000 Selected Topics on China

NS 41300 Naval Leadership Management & Ethics

CHNS 28500 Chinese Calligraphy

**OLS 45600 Tech & the Global Society**

COM 22400 Communicating in the Global Workplace

PHIL 11400 Global Moral Issues for Engineers

COM 30300 Intercultural Communication

PHIL 20600 Philosophy of Religion

ECET 38001 Global Professional Issues In ET

**\*PHIL-P 371**

EDPS 31600 Leadership: Cross-Cultural

PHIL 29000 Environmental Ethics

FLL 23500 East Asian Literature in Translation

PHIL 33000 Religions of the East

FLL 23900 Contemporary Foreign Women Writers in Translation

PHIL 33100 Religions of the West

FNR 48800 Global Environmental issues

**\*REL-R 152**

FR 33000 French Cinema

POL 23100 Introductions to United States Foreign Policy

GER 23000 German Folklore & Fairy Tales

PSY 33500 Stereotyping & Prejudice

GER 23000 German Literature in Translation

PTGS 33000 Brazilian, Portuguese & African Cinema

GER 330 German Cinema

SOC 31000 Racial & Ethnic Diversity

HIST 30000 Eve of Destruction

**\*SOC-S 335**

HIST 33300 Science & Technology in Western Civilization I

SPAN 23500 Spanish American Literature in Translation

HIST 33400 Science & Technology in Western Civilization II

SPAN 33000 Spanish & Latin American Cinema

HIST 35000 Science & Technology in Twentieth Century World

**TECH 33000 Tech and the Global Society**

HIST 36000 Gender in Middle East History

**Approved Study Abroad Course**

JPNS 28000 Introduction to Modern Japanese Civilization

**<sup>12</sup>MANAGEMENT SELECTIVE:**

AFT 35100 AF Leadership Studies I

NS 41300 Naval Leadership Management & Ethics

AFT 36100 AF Leadership Studies II

**OLS 25200 Human Relations in Organizations**

**ECET 38001 Global Professional Issues in ET**

**OLS 27400 Applied Leadership**

EDPS 31500 Leadership: Listening

**OLS 28400 Leadership Principles**

EDPS 31600 Leadership: Cross-Cultural

**OLS 36400 Tech & the Organization**

EDPS 31700 Leadership: Mentoring

**OLS 38600 Leadership for Org Change & Innov**

ENTR 31000 Marketing Management for New Ventures

PSY 27200 Intro to Industrial-Organizational Psych

MGMT 20000 Accounting Principles

**\*PSY-B 366**

**\*BUS-A 201**

**TLI 11200 Foundations of Organizational Leadership**

MGMT 20010 Business Accounting

**TLI 15200 Business Principles for Organizational Leadership**

MGMT 45500 Legal Background for Business

**TLI 21300 Project Management**

MSL 20200 Leadership & Teamwork

**TLI 25300 Principles of Technology Strategy**

MSL 30100 Leadership & Problem Solving

**TLI 25400 Leading Change in Technology Organizations**

MSL 40100 Leadership & Management

**Approved Study Abroad Course**

NS 21400 Fundamentals of Leadership

**2017-2018 MET SUPPLEMENTAL INFORMATION**

All prerequisites must be met.

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See Student Services Coordinator for course availability.

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**<sup>13</sup>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

**<sup>14</sup>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"> <li>___ Complete the Pre- and Post-Intercultural Development Inventory Assessments (1st year and 4th year)</li> <li>___ Complete the pre- and post- BEVI (1st and 4th years)</li> </ul>
	<ul style="list-style-type: none"> <li>___ Complete one of the following Intercultural Knowledge and Effectiveness components below: (This list will be reviewed and updated each year)                             <ul style="list-style-type: none"> <li>· Crosswalk Commons (residential living Experience for a minimum of one semester)</li> <li>· Serve as a BGRI Program leader</li> <li>· PUPIL (Purdue University Passport to Intercultural Learning) (Obtain at least two badges)</li> <li>· Participate in two (2) Boiler Out Program Activities</li> <li>· Participate in Host-a-Boiler</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>___ Complete one of the following:                             <ul style="list-style-type: none"> <li>· An international project or collaborative project, or</li> <li>· An international internship, or</li> <li>· A Faculty-led Study Abroad program, or</li> <li>· Three credit hours of courses** from the Polytechnic list of approved of recommended Global/Intercultural courses. **<i>Must be in a category other than Increasing Self-awareness</i></li> </ul> </li> </ul>