FRESHMAN COMPOSITION SELECTIVE
ENGL 10600 First-Year Composition
ENGL 10800 Accelerated First-Year Composition

COMPUTER GRAPHICS SELECTIVE
CGT 11000 Technical Graphics Communications
IT 10500 Intro to Engineering Design
CGT 16300 Graphical Communications and Spatial Analysis

TECHNICAL SELECTIVE

- any 2xxxx or higher ECET course which is not currently required on the plan of study.

CGT 32600 Graphics Standards For Product Definition
CGT 42300 Product Data Management
CGT 42600 Industry Applications Of Simulation And Visualization
FNR 30110 Sustainable Forest Products Manufacturing
IT 33000 Industrial Sales And Sales Management
IT 34500 Automatic Identification And Data Capture
IT 35100 Advanced Industrial Safety And Health Management
IT 38100 Total Productive Maintenance
IT 434000 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 43200 Hydraulic Motion Control Systems
MET 43600 Pneumatic Motion Control Systems
MGMT 45500 Legal Background For Business I
OLS 28400 Leadership Principles
TLI 31600 Statistical Quality Control
TLI 31300 Tech Integration:Bar Codes to Biometrics
TLI 33620 Total Productive Maintenance
TLI 44275 Global Transportation And Logistics Management

STATISTICS OR QUALITY SELECTIVE
STAT 30100 Elementary Statistical Methods
TLI 31600 Statistical Quality Control

PHYSICS SELECTIVE
PHYS 21800 General Physics
PHYS 22000 General Physics

PHYS 21900 General Physics II
PHYS 22100 General Physics
PHYS 24100 Electricity and Optics

SCIENCE SELECTIVE
BiO 11000 Fundamentals of Biology I
BiO 20300 Human Anatomy and Physiology
CHM 11200 General Chemistry II
CHM 11600 General Chemistry

MECHATRONICS SELECTIVE
MET 43200 Hydraulic Motion Control Systems
MET 43600 Pneumatic Motion Control Systems
MET 48200 Mechatronics

MET 58100 Design for Mechatronics
MFET 34800 Advanced Industrial Robotics

CONTROLS SELECTIVE
MET 33400 Advanced Fluid Power
MET 43600 Pneumatic Motion Control Systems
MET 43200 Hydraulic 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 32600 Graphics Standards For Product Definition
CGT 42300 Product Data Management
CGT 42600 Industry Applications Of Simulation And Visualization
ECET 49900 Applied Comp Vision Sensing & Auto
IT 38100 Total Productive Maintenance
IT 43400 Global Transportation And Logistics Management
IT 44200 Total Productive Maintenance
IT 48300 Facility Design For Lean Manufacturing
MEF 29200 Projects in Automation, Robotics, and Mechatronics
MET 30200 CAD In The Enterprise
MET 45100 Manufacturing Quality Systems
MFET 39200 Advanced Projects in Automation, Robotics, and Mechatronics
MFET 29200 Projects in Automation, Robotics, and Mechatronics

HUMANITIES FOUNDATIONAL SELECTIVE: 6 credits – see http://www.purdue.edu/provost/initiatives/curriculum/course.html

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

HUMANITIES/SS ELECTIVE:
Any 2xxx or higher course in Psychology, Sociology, English, History, Political Science, Philosophy, Anthropology, Economics, or a foreign language. Art history, art appreciation, music appreciation or theater appreciation are acceptable.

FREE ELECTIVE: Any non-remedial course

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

<table>
<thead>
<tr>
<th>Intercultural Growth Plan #1</th>
<th>Developmental Level Competency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment</td>
<td>Complete the Pre- and Post-Intercultural Development Inventory Assessments (1st year and 4th year)</td>
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<tr>
<td></td>
<td>Complete the pre- and post- BEVI (1st and 4th years)</td>
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<tr>
<td></td>
<td>Complete one of the following Intercultural Knowledge and Effectiveness components below: (This list will be reviewed and updated each year)</td>
</tr>
<tr>
<td></td>
<td>Crosswalk Commons (residential living Experience for a minimum of one semester)</td>
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<td></td>
<td>Serve as a BGRI Program leader</td>
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<tr>
<td></td>
<td>PUPIL (Purdue University Passport to Intercultural Learning) (Obtain at least two badges)</td>
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<tr>
<td></td>
<td>Participate in two (2) Boiler Out Program Activities</td>
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<tr>
<td></td>
<td>Participate in Host-a-Boiler</td>
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<tr>
<td></td>
<td>Complete one of the following:</td>
</tr>
<tr>
<td></td>
<td>An international project or collaborative project, or</td>
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<td></td>
<td>An international internship, or</td>
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<td></td>
<td>A Faculty-led Study Abroad program, or</td>
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<tr>
<td></td>
<td>Three credit hours of courses** from the Polytechnic list of approved of recommended Global/Intercultural courses. **Must be in a category other than Increasing Self-awareness</td>
</tr>
</tbody>
</table>

http://www.purdue.edu/provost/initiatives/curriculum/course.html
**Professional Requirement**

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 1: Approved Professional Experiences**

<table>
<thead>
<tr>
<th>Approval by</th>
<th>Experience</th>
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</thead>
<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>Industry-sponsored senior capstone</td>
</tr>
<tr>
<td>Automatic</td>
<td>EPICS courses, minimum of two</td>
</tr>
<tr>
<td>Automatic</td>
<td>Lab Assistant (satisfactory completion of a minimum of one lab division for one term; e.g., ECET 29900 or MET 39200)</td>
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<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, reservist, active duty, veteran)</td>
</tr>
<tr>
<td>Faculty</td>
<td>Other 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</td>
</tr>
</tbody>
</table>