Study Abroad and the Picker Engineering Program

October 27, 2015

Investigate Information at the Study Abroad office

- Use resources at
  - the Study Abroad office
  - http://www.smith.edu/studyabroad/
  - http://www.smith.edu/studyabroad/apply.php

- Determine when your forms are due to the Smith College Study Abroad office.
  - It is your responsibility to make sure you know your own deadlines.
Most EGR Students’ Deadline

- **Third Monday in February (2/15/16)**
  - Smith Study Abroad Credit Application due for study abroad on Smith Consortium and Smith-Approved study abroad programs during the following academic year (fall, spring or full-year).

Investigate Courses Abroad

- Develop a list of courses that you would like to take abroad. Make sure you will complete your EGR major.
  - No courses are guaranteed to be offered
  - No courses are guaranteed to be approved
  - *You must have contingency plans*

- To find courses of interest:
  - Use the online resources from your school of interest
  - Use the Study Abroad office resources
  - Talk with other students
  - Check the listing of courses taken abroad, available at the Study Abroad office.
- Arcadia-Melbourne
- Auckland
- Benemerita Univ de Puebla
- Bristol-IFSA/Butler
- CIEE-Jordan
- Columbia University in Beijing
- DIS-Denmark
- Edinburgh
- Edinburgh-Arcadia
- Glasgow-IFSA/Butler
- IEG: EWHA Summer Program
- IEG: Urban Study Tour
- IFSA/Butler-Edinburgh
- IFSA/Butler-Melbourne
- IFSA/Butler-Oxford - Hertford
- IFSA/Butler-Queensland
- IFSA/Butler-University College London
- James Cook-IFSA/Butler
- JYA in Florence
- JYA in Hamburg
- JYA in Paris
- King's College
- Melbourne
- Melbourne-Arcadia
- Natal-Durban, Interstudy
- Oxford-St. Edmund Hall
- Queen Mary
- SFS-Kenya
- SIT-Brazil
- SIT-Tanzania
- Technion School Engineering
- Toronto
- University College Dublin
About the Programs

ENGINEERING AND THE LIBERAL ARTS

There are two goals for the study of engineering at Smith College, both of which we believe will be realized by a rigorous program of study integrated with the liberal arts and sciences.

Bachelor of Science in Engineering Science
Approved by the Engineering Accreditation Commission of ABET (211 Market Street, Suite 100, Boston, MA, 02109).

1. Bachelor of Science in Engineering Science
2. Bachelor of Arts in Engineering Arts
   a. The Minor in Engineering
   b. The Minor in Research Opportunities
   c. Student Engineering Organizations
   d. News & Events

Study Abroad

Credit Approval

1) Core Courses
   - To receive credit for core courses, seek approval using the Departmental Supplement for Petition to Transfer Credit form, located on our Forms page.

2) Technical Electives
   - To receive credit for core courses and for electives, seek additional approval using the Departmental Supplement for Technical Elective form, located on our Forms page.

More Information

Study Abroad Lunch Meeting for Sophomores
Each fall semester, a lunch meeting is held for all
Gather Forms

- All the College forms for study abroad – see the study abroad office and webpage.
- Online application

**Additional Picker Engineering forms:**
- BS or BA Plan of Study – to make sure you will graduate
- For each course you want to count toward the EGR major
  - Petition to Transfer Credit – for core courses
    - The College has one for you also
  - Non-standard Technical Elective Petition
  - (“Core Course Substitution” form – DO NOT USE)
Do Not Use for Study Abroad

DEPARTMENTAL SUPPLEMENT
Core Course Substitution Petition

Use this form to obtain approval to substitute a Smith College course for a required Picker Engineering core course. The student should attach a current course description and provide an explanation for the request. The completed form can be submitted to the Picker Engineering Program in Ford Hall 155.

Name: ___________________________ Student Number: ________________________

e-mail address: ___________________ Extension: ___________ Class: ______

Student Signature: __________________ Date Submitted: ______________________

Core Course being replaced:

Academic Year: 20____ Fall ___ Spring___

(Course Number & Name) ____________________________ Credit Hours _____________________

Proposed Replacement Course: __________________________

(Course Number & Name) ____________________________ Credit Hours _____________________

Student Comments: __________________________

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EGR Plan of Study, B.S. Plan of Study

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Electives

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Engineering Science, B.S.

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Math & Science Core

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Computer Science

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Engineering Core

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Notes
ABET Outcomes – Choose 2 or 3

a) An ability to apply knowledge of mathematics, science, and engineering
b) An ability to design and conduct experiments, as well as to analyze and interpret data
c) An ability to design a system, component, or process to meet desired needs within realistic constraints ...
d) An ability to function on multidisciplinary teams
e) An ability to identify, formulate, and solve engineering problems
f) An understanding of professional and ethical responsibility
g) An ability to communicate effectively
h) The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
i) A recognition of the need for, and an ability to engage in life-long learning
j) A knowledge of contemporary issues
k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
l) An ability to demonstrate information literacy
* Gather Documentation *

- For each course you want to count toward the engineering major, you **must** obtain
  - A syllabus. Often these are not available to you in advance of going.
    - You **MUST** bring one back with you for every course.
  - If no syllabus can be obtained in advance, then find:
    - A course description including the material covered.
    - The level (200-, 300- or 400- level) of the course.
      - What are the pre-requisites for your course?
      - Students of which year at the school abroad take this course?
    - Does the course have a lab? homework? Exams?

  **Without this information, I cannot sign your forms**

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**Meet with your academic adviser FIRST**

By signing below, I grant departmental approval for this study abroad plan, and confirm the following: (please check all that apply)

- [ ] I have read this plan of study and course descriptions.
- [ ] The student’s GPA meets the 3.0 eligibility requirement for study abroad approval.
- [ ] The student has included study of the native language. (Smith requires study of the native language whenever language courses are available, including pre-colonial languages in Africa and South Asia.)
- [ ] The student has not selected any courses for which Smith will not grant credit, such as business, journalism, etc.
- [ ] This plan allows this student to fulfill her major requirements.
- [ ] This plan allows this student to satisfy general degree requirements, including earning 64 credits outside of her major.
- [ ] I confirm this student will receive major credit for the following courses, as per her Plan of Study:

  ____________________________________________________________

  ____________________________________________________________

**Major Adviser**

Major Adviser Name ____________________________ Department ____________________________

Major Adviser Signature ____________________________ Date ____________________________

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When Changes Happen Abroad…

- Let your academic adviser and me know as soon as you know any new courses you are taking.
- For courses to count toward the EGR major, send us the required information, and obtain approval for your course as soon as possible.
- If you take a course and do not gain approval for transferring credit, you might not ever get that approval – it might not meet the PEP requirements!
Upon Your Return

- You must bring home with you:
  - Each Course Syllabus
  - ‘Evidence’ for the work you completed toward ABET outcomes, what you learned
  - ‘Evidence’ = homework, lab, other assignments, exams...

Schedule

- **Start NOW** – gathering information on schools and courses. Use the study abroad office resources.
- Make an appointment to meet with your academic adviser in November (spring advising)
- Meet with your academic adviser and with Prof. Cardell (Winter break and J-term are not part of a semester). This means you need to be meeting before you leave for winter break.
- 2 weeks before your deadline, drop off your forms for the PEP director’s signature
- 1 week before deadline – time to fix errors
NOW – Research Schools

1. Visit Smith's Office for International Study in the Global Studies Center, Wright Hall.
2. Select a few schools that are of particular interest to you.
3. Look for information on courses that will fulfill EGR major requirements.
4. Download FORMS from the EGR website
   - http://www.smith.edu/engin/forms.php
5. Find the study abroad application, including the page with a box for your courses for each semester of your Smith career, and fill this out (this can be filled out online, and printed out).

November – Advising Meeting

- During your advising appointment for the spring semester, bring the forms you have filled out and information on courses.
- Confirm with your adviser that your plans will allow you to graduate.
- If evidence of a course’s level (e.g., 3rd year) and/or technical content are not available from the international school’s website (or other means) you will not gain approval to take the course for EGR credit.
- Common courses to find abroad include
  - EGR technical electives,
  - Math courses,
  - Computer science,
  - Occasionally circuits or thermo (EGR 220 and 290)
Nov/Dec – Obtain Signatures

1. **Core courses** – (i) the signature of the Smith professor who teaches the core course, (ii) your adviser and (iii) the study abroad adviser (Professor Cardell), in that order.

2. **Electives** – (i) the signature of your academic adviser and (ii) the study abroad adviser, in that order.

3. Obtain the signature of (i) your academic adviser and (ii) the study abroad adviser on your **Smith Study Abroad application**

4. Drop off the entire packet to the EGR office for the signature of the EGR Director or Assistant Director

Summary

- Information is posted on the EGR website.
- Use the study abroad office resources.
- Meet with your academic adviser early, and probably more than once.
- Returning students are here today, and around to help you out.
- **Remember to bring graded work back to Smith**

Questions?