Study Abroad and the Picker Engineering Program

October 2022

Summary

- 1) Use Lewis Global Studies resources and make your plan (select one or two schools and find courses)
- 2) Meet with your academic advisor, and bring:
 - PEP Plan of Study (filled in)
 - College 8-semester-grid application page (filled in)
 - Information on each course abroad and PEP form
- 3) Meet with Professor Cardell (me) with same items
- 4) Submit **ALL** to EGR office (Martin Green) with all signatures **2** weeks before your College Due Date

Most EGR Students' Deadline

Third Monday in February

 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).

First Monday in February

Applications due for study on a Smith Program
 Abroad in Florence, Hamburg or Paris (full-year), and
 Geneva (full-year or fall only); and highly
 recommended for spring in Hamburg and Geneva.

Making Your Plan

- To find courses of interest:
 - Use the online resources from your school of interest
 - Use the resources from Global Studies here at Smith
 - Talk/email/Zoom with other students
 - Check the listing of courses taken abroad, available at the Global Studies office.
- Develop a list of courses 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

Where Smith Engineers have gone

- Univ. of Auckland
- Univ. of Bristol
- Unvi. of Canterbury NZL
- CIEE-Jordan
- DIS-Denmark
- Univ. of Edinburgh
- Univ. of Glasgow
- IEG: EWHA Summer Program
- IEG: Urban Study Tour
- St. Edmund's Hall, Oxford
- St. Catherine's, Oxford
- University College London
- Queen Mary University of London

- Smith in Florence
- Smith in Hamburg
- Smith in Paris
- King's College London
- Univ. of Melbourne
- Technion School Engineering
- Univ. of Toronto
- University College Dublin
- Programa de Estudios Hispanicos en Cordoba (PRESHCO)
- Skidmore-Tufts in Madrid

Hamburg

- Technical University thinking about technology, not really EGR courses
- Applied Sciences University HAW Hamburg, has actual engineering courses
 - In German and English
 - In Hamburg with Tech U and Hamburg U.
 - GO HERE
 - Previous EGR grads who went to Hamburg: Gaea Ridenhour, Karen Komu, Ha Phuong Le

Start at... The Global Studies Office

- https://www.smith.edu/about-smith/study-abroad
- https://www.smith.edu/about-smith/study-abroad/applying
- 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.



Applicant's Name	Plan of S	Study Form Majon	(e)
Program		Term .	Abroad
FIRST YEAR Fall Semester 20	In residency at Smith?	FIRST YEAR Spring Semester 20	In residency at Smith?
	Credits Grade Major Outsid	e	Credits Grade Major Outside
SOPHOMORE YEAR	In residency at Smith?	SOPHOMORE YEAR	In residency at Smith?
Fall Semester 20	Credits Grade MajorOutsid	Spring Semester 20	Credits Grade Major Outside
		<u> </u>	Greatis Grade Major Galside
JUNIOR YEAR		JUNIOR YEAR	
Fall Semester 20	In residency at Smith?	Spring Semester 20	In residency at Smith?
	Credits Grade Major Outsid	e	Credits Grade Major Outside
SENIOR YEAR	In regidency of Smith?	SENIOR YEAR	In regidency at Smith?
Fall Semester 20	In residency at Smith?	Spring Semester 20	In residency at Smith?
	Credits Grade Major Outsid	e	Credits Grade Major Outside
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Students need 64 outside the major credits to complete their Smith degree. Please indicate the total number of outside the major credits you have included on this Plan of Study: _____

Mege Application:	bring to meetings	h advisor and me
Colle	To b	wth



Office for International Study

Plan of Study Form

Applicant's Name		Majoi	r(s)
Program		Term	Abroad
FIRST YEAR Fall Semester 20	In residency at Smith? Credits Grade MajorOutside	FIRST YEAR Spring Semester 20	In residency at Smith? Credits Grade Major Outside
SOPHOMORE YEAR Fall Semester 20	In residency at Smith? Credits Grade MajorOutside	SOPHOMORE YEAR Spring Semester 20	In residency at Smith? Credits Grade Major Outside

College Application (next page): 1) Meet with your academic adviser

Smith	College Application Major Adviser				
Silliul	Major Adviser				
By signing to check all the	below, I grant departmental approval for this study abroad plan, and confirm the following: (please at 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.				
4 0	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:				
	le sign (approve) only after you complete the EGR forms				
Major Advise	r Name Department				
Major Advise	er Signature Date				
,					

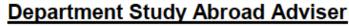
Course Approval on College Application...

- For the section indicated in the slide above above,
 "I confirm this student will receive..."
- Put the name and number of each course that is approved for EGR credit into the comment field in your submitted application.
- If the courses are not listed there, you may not get credit for them.

College Application:

2) Meet with Professor Cardell (me)

Smith	College A	Application	
	conege i	ppiication	



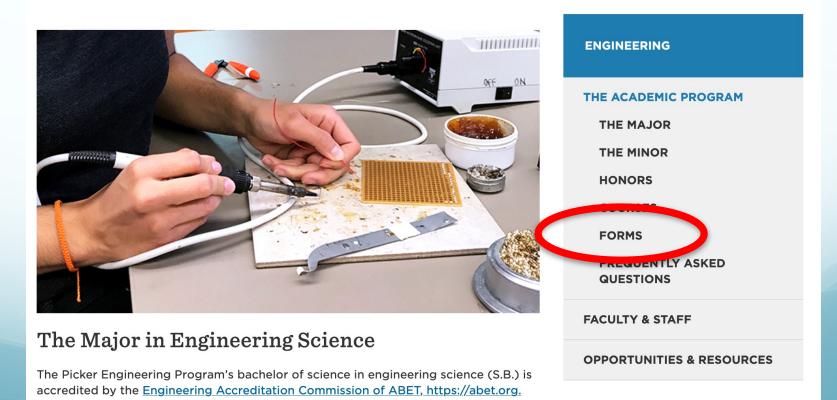
	(if same adviser as above, please sign twice	e)
	g below, I grant departmental approval for this study abroad plan that apply)	, and confirm the following: (please
	I have read this plan of study and course descriptions.	
	The student has included study of the native language. (Smit language whenever language courses are available, includin and South Asia.)	•
	The student has not selected any courses for which Smith wi business, journalism, etc.	ll not grant credit, such as
	This plan allows this student to fulfill her major requirements.	
	This plan allows this student to satisfy general degree require outside of her major.	ements, including earning 64 credits
Departmer	nt Study Abroad Adviser Name	Department
Departmer	nt Study Abroad Adviser Signature	Date

EGR forms, for ABET

https://www.smith.edu/academics/engineering/forms

Scroll down to "Plan of Study" & "Course Approvals"

The Academic Program



Math & Science Core 8 credits from MTH 111,		Credits	Year/Term Taken	Transfer (# of credits on transcript)	AP/IB/Cam. A-level (# of credits)	Notes
MTH	,	(4 cr)				
MTH		(4 cr)				
MTH 212	Calculus III	(4 cr)				
MTH/SDS 220	Probability & Statistics	(5 cr)				
CHM 111 or CHM 118	Chemistry I : General Chemistry OR Advanced General Chemistry	(5 cr)				
PHY 210	Mathematical Methods	(4 cr)				
PHY 117 or PHY 119	Introductory Physics I OR Advanced Introductory Physics	(5 cr)				
	se, choose one: PHY 118, PHY 119, CHM 11 /131_BIO 132/133_AP BIO_(PHY 119 can ful					

Subtotal Math & Science credits, nominally 36 cr. (ABET min = 30 cr.)

OR the 5 credit lab based science course requirement but not both)

introductory physics requirement OR the 5 credit lab based science course requirement but not both, CHM 118 can fulfill the general chemistry requirement

Note: If AP/IB/A-level exam credit is used toward these requirements, credits must appear on the official Smith transcript. If transfer credits are used to fulfill math/science requirements and the credits are fewer than those associated with the Smith course, the student may need to take additional courses to satisfy the 30-credit math/science ABET minimum requirement. Computer science is required for the major, but does not count as a basic science.

(5 cr)

Computer Science

One of CSC 110, 111, 120, 205, 210, 220

(4-5 cr.)

Engineering Core

EGR Capstone

Engineering for Everyone	(4 cr.)
Fundamental Engineering Principals	(4 cr.)
Engineering Circuit Theory	(5 cr.)
Engineering Mechanics	(5 cr.)
Engineering Thermodynamics	(4 cr.)
Fluid Mechanics	(5 cr.)
Engineering Design and Professional Practice	(2 cr.)
	Fundamental Engineering Principals Engineering Circuit Theory Engineering Mechanics Engineering Thermodynamics Fluid Mechanics

Pick one: EGR 421D, 422D, 431D

Five (5) Engineering Technical Depth Courses (At least for must be

engineering sources at the 300-level or higher)

	Year/Term Taken	(# of credits on transcript)	Notes
(4 cr.)			
(4 cr.)			
(5 cr.)			
(5 cr.)			
(4 cr.)			
(5 cr.)			
(2 cr.)			
(6 - 8 cr.)			

Forms for Course Approvals on EGR page

https://www.smith.edu/academics/engineering/forms

Course Approvals

- Petition to replace a required course with a non-Smith course
- Petition to replace a required course with a Smith course
- Petition for Technical Depth courses

CORE COURSES (MTH, SCI, CSC & EGR)

Petition to replace a required course with a non-Smith course

I would like to count a

Non-Smith course as a required course for my engineering degree

(For example: Five College courses, study abroad courses, courses taken during the summer)

In order to count a non-Smith course towards your engineering degree, you need to do a few things. First, is to meet with your major advisor to make sure that your plan to take a course away dovetails with the rest of your academic plans. Second, is to make sure that the course meets the curricular needs of the Picker Engineering Program. Third, is to have the Picker Engineering Program double-check that we have the documentation we need. You also need to make sure that the college will grant credit for the course (which, if all other approvals are obtained, is highly likely). **Follow these steps to complete this process**:

Smith College Picker Engineering Program

EGR

290

374

Five (5) Engineering Technical Electives*

Engineering Thermodynamics

Engineering Design and Professional Practice (2 cr.) po: FGR 421D, 422D, 431D, 432D)

Fluid Mechanics

Engineering Science, B.S. Plan of Study

Name:				Expected D	ate of Gradua	tion:	
Student ID: Advisor:							
				Year/Term	Transfer (# of gradity on	AP/IB ?	Notes
	Science (edits from MT	Core TH 111, 112/114,211,222	Credits	Taken	(# of credits on transcript)	(# of credits on transcript	
(1)	мтн		(4 cr.)				
(2)	мтн		(4 cr.)				
MTI	1 212	Calculus III	(4 cr.)				
MTH	H 220	Probability & Statistics	(5 cr.)				
CH	И 111	Chemistry I: General Chemistry	(5 cr.)				
PH	Y 117	Introductory Physics I	(5 cr.)				
PH	Y 210	Mathematical Methods of Physical Scien & Engineering	ces (4 cr.)				
	based science 32+133, or Bl	course (one of PHY118, CHM118, CHM222, D130+131)					
(1)			(5 cr.)				
Subtotal Math & Science credits, nominally 36 cr (ABET min=32)							
fulfil	Note: If AP/IB/Alevel exam credit is used toward these requirements, credits must appear on the official Smith transcript. If transfer credits are used to fulfill math/science requirements and the credits are fewer than those associated with the Smith course, the student may need to take additional courses to						
satis	fy the 32 cred	dit math/science ABET minimum requiremen	nt. Computer sci	ence is required	d for the major, but	does not count as	s a basic science.
Compu	ter Scienc						
COMPU		Introduction to Computer Science Throug	gh (4 or 5 cr.)				
000		Program (or higher CSC course)	(40000.)				
					Transfer		
Engine	ering Core	:		Year/Term Taken	Transfer (# of credits on transcript)		Notes
EGF	R 100	Engineering for Everyone	(4 cr.)				
EGF	R 110	Fundamental Engineering Principles	(4 cr.)				
EGF	R 220	Engineering Circuit Theory	(5 cr.)				
EGF	R 270	Engineering Mechanics	(5 cr.)				
EGE	290	Engineering Thermodynamics	(4 cr.)				

(5 cr.)

(6 or 8 cr.)

(4 cr)

Technical Elective Approval & Credit Transfer

Petition for Technical_Depth courses

I would like to count a <u>Special Studies</u>, <u>non-engineering</u> Smith class, or <u>non-Smith</u> class as a <u>Technical-Depth Course</u>

Use this form to obtain approval to count a course towards your technical-depth requirement. Such courses needing approval include courses that are outside the Picker Engineering Program or a course within Picker at the 400 level. First, meet with your major advisor to make sure that this course dovetails with the rest of your academic plans. Second, have the Picker Engineering Program double-check that we have the documentation we need. You also need to make sure that the college will grant credit for the course (which, if all other approvals are obtained, is highly likely). Follow these steps to complete this process:

1. Obtain a course description and syllabus for the course you wish to take; more information is better. A syllabus is required for regular courses; if you are unable to get one in advance, you must append one after the course is taken, and final approval will be determined *after* the syllabus is reviewed. If this is for a Special Studies course, include your Special Studies application.

Approval for Technical Depth

- Required Evidence of each course being 300-level or above
 - 1) A syllabus, now or bring one back
 - 2) Prerequisites that we recognize as being 200-level, and/or
 - 3) Statement from school abroad that the course is typically taken junior year or later
 - 4) In your advisor's expertise (or other EGR faculty)

PEP Course Approval Forms

- So, to summarize, in addition to the College (online) application, PEP forms you need to complete are:
 - 1) BS Plan of Study to make sure you will graduate (not to submit to the College)
 - 2) Petition to replace a required course with a non-Smith course
 - 3) Petition for Technical_Depth courses

(forms found at: https://www.smith.edu/academics/engineering/forms)

Schedule

- Start NOW gather 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 is not part of a semester).

Nov/Dec – Obtain Signatures

- 1. <u>Core courses</u> (*i*) signature of a professor who teaches the core course or the math/sci department chair, (*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. <u>Smith Study Abroad application</u> signatures of (i) your academic adviser and (ii) then the study abroad adviser
- 4. Drop off the entire packet to the EGR office for the signature of the EGR Director or Assistant Director

Questions?