International Engineering Program

College of Engineering and Computer Science
University of Central Florida
Current Global Situation

• The world has changed
• Multinationals are now truly multinational!
• Mergers and acquisitions becoming more commonplace
  • Siemens Westinghouse
  • Chrysler-Fiat
• International collaborations becoming increasingly common
• Essential for US engineers and scientists to experience professional field from multinational perspective
International Engineering Minor

• The IEP offers a minor in International Engineering as its main attraction
• Excellent vehicle to gain international perspective
• Completion of minor goes on transcript – proof of completion
• Fifteen carefully selected partner institutions – all over the world.
  • Focus on Europe, Latin America, and Asia ... in that order
What does this minor consist of?

Total of 18-20 hours

1. Six to eight credits of a foreign language, preferably at UCF (but possibly overseas)

2. Three credits of cultural coursework at overseas partner institution

3. An experience abroad consisting of either:
   • Nine credits of pre-approved engineering/technical coursework
   • Nine credits of internship overseas

See:

www.cecs.ucf.edu/minors/internationalengineering/
Foreign Language Training: Three Cases

1) What if I already speak the language of the country, or the country is Anglophone?
   • Instead of the six language credits, the student will take two restricted cultural courses at UCF.
   • Long list of possible courses to take.
     • See catalog link on previous page
     • See International Engineering advisor

2) What if the country is not Anglophone but they teach courses in English?
   • You will still need to take language training (6-8 credits) but proficiency need not be high – conversational level only
3) What if I plan to take coursework in a language I do not yet speak (well)?

- It has been done successfully, but the situation becomes more complicated.
- Proficiency must be very advanced!
  - Your proficiency must be verified before taking the engineering courses, either through instructor consent or by taking a standard Foreign Language Proficiency Exam.
- Else,
  - You must take two years worth of language instruction here at UCF (if available), or equivalent.
  - You must stay abroad for two academic semesters.
    - The first semester is strictly for language training.
    - The second semester is for taking engineering classes.
  - You may require an immersion program while abroad.
Eligibility

- UCF undergraduate in any Engineering major, Computer Science or Information Tech.
  - 2.75 UCF GPA or recommendation from faculty
  - Graduate students not eligible for minor, but can do study abroad
- Junior or senior standing (not too close to graduation)
  - Just prior to enrolling in Senior Design is the best time to go abroad
  - But can be a bit earlier or later, depending on the case.
Question #1

• Can I participate in the International Engineering program if the only language I speak is English?

A) Yes  
B) No  
C) Maybe
What if I don’t want to go overseas?

• The IE minor requires an experience abroad
• Central focus of program!!!
  • No exceptions!!
• Can be for:
  • 1 semester (minimum)
  • 2 semesters
• Note: A second semester is not guaranteed, pending available slots at the desired institution.
Study Locations

Several institutions and countries are currently available.
Europe

• Jonkoping University, Jonkoping, Sweden
• Malardalen University, Vasteras, Sweden
• Universidad de Cantabria, Santander, Spain
• Universidad de Jaen, Jaen, Spain
• Technische Universität Ilmenau, Ilmenau, Germany
Europe

• Fachhochschule Erfurt, Erfurt, Germany
• Westfalische Hochschule, Gelsenkirchen, Germany
• University of Technology of Compiègne, France
• Dublin Institute of Technology, Dublin, Ireland
• University of Surrey, Surrey, UK
Central and South America

- Universidad de Costa Rica, San Jose, Costa Rica
- Instituto Tecnologico de Costa Rica, Cartago, Costa Rica
- Pontificia Universidad Catolica de Rio Grande do Sul, Porto Alegre, Brazil
Asia and Pacific

- Saitama University, Japan
- Hong Kong Polytechnic Inst., Hong Kong, China
- RMIT University, Melbourne, Australia
- Yamaguchi University, Japan (to come)
Further Information on Available Programs

• For further information on the various programs available as part of the IEP, please visit:

  www.studyabroad.ucf.edu
Future Study Locations

- Italy
- Taiwan
- Japan
- South Korea
- India
- Chile
- Argentina
- Peru
- New Zealand
Question #2

• In what country is Jonkoping University?

a) Spain
b) United States
c) Sweden
d) Zimbabwe
e) Peru
Procedure

Making the arrangements for pursuing the minor is a five stage procedure:

I. Academic arrangements: Course selection
II. Administrative arrangements
III. Financial and logistic arrangements
IV. Experience abroad itself
V. Post-return activities
Stage I – Academic: Course Selection

1. Begin by visiting the IEP website:
   http://cecs.ucf.edu/minors/internationalengineering

2. Complete the Declaration of Interest form found on the IEP site main page and submit it electronically.

3. Make an appointment to speak to an IEP advisor by calling 4-7-823-2455 to:
   a. Select semester for study abroad
   b. Select most appropriate overseas institution for study abroad
   c. Select coursework to take abroad
   d. Assist w/ language requirements (if applicable)
   e. Petition courses through your department to ensure that coursework applies towards your degree
   f. Submit to language fluency evaluation and obtain waiver (if applicable)
   g. Declare the minor online in MyUCF
   h. Enroll in appropriate classes at UCF
Stage II – Administrative Steps

4. Make a follow-up appointment to see Ms. Maureen Waked Maureen.Waked@ucf.edu to:
   a. Complete the UCF study abroad application
   b. Apply to overseas partner institution of choice
   c. Obtain help in enrolling at partner institution
   d. Obtain help in making living arrangements
   e. Become informed about country of destination
Stage III – Financial and Travel Docs

3. Financial arrangements
   • Apply for need-based or merit-based scholarships

4. Travel documents
   • Get your passport
   • Apply for and secure your visa
   • Purchase airline tickets
Stage IV – Experience Abroad

5. Pack your bags and go forth!
   • Do well in classes
   • Enjoy!
Stage V – Upon Return to UCF

• Grades will be sent in by overseas institution to Office of International Studies
• Grade will be converted to A/B/C/D/F and assigned to your UCF course
• You may remain in country for additional time
  • Depending on country, visa, and length of visit
How much will it cost me?

Very important, but a bad excuse to not do it

- Cost of tuition is same – you pay it at UCF!
  - You can use any financial aid you currently have
- Cost of apartment is **roughly** the same
- Cost of food is **roughly** the same
- Transportation on site generally cheaper - no car
- Air fare: $500 to $2000, depending on location
- Visa, passport, fees, etc: $300 to $700
- Entertainment – can be high ($2K to $3K)

- Visit [studyabroad.ucf.edu](http://studyabroad.ucf.edu) and then search for “engineering” to see all engineering programs. Then click on “budgets sheets”
Financial Aid Sources

Several potential sources of financial aid

1. UCF general aid
2. CECS Novo Family Scholarship
3. Third-party opportunities
4. Paid internships
5. Rich uncle

Let’s go over these ...
UCF General Aid

Several sources of small amounts of money are available from UCF:

- Burnett Honors College – grants available to members of the BHC (~ $1,000)
- UCF Global – Small need-based grants are available from UCF Global (~$1,000)
- SGA – Provides small sums of $$ to cover some expenses (~ $300 to $500)
Novo Family Scholarship for International Study

• New program
• Donation by one of our benefactors
• Six $2,5000 scholarships to support study abroad will be awarded competitively for students going abroad in Fall 2016 and Spring 2017.
• Criteria will include mainly merit but need will also be considered.
• Look for announcements of the start of competition.
UCF Specific Program Aid

• Specific programs exist expressly to financially support students on study abroad experiences
  • Very attractive, but only for specific locations
  • Competitive, but not highly so
  • Students currently being sought!!
  • Must be US citizen or hold a green card
  • Limitations on majors

• Professors who may have research funds for international collaborations
Paid Internships

• A viable possibility to work abroad for a minimum of 15 weeks.

• Not many opportunities available at the moment
  • Siemens in Erfurt, Germany is the only active one now.

• Very competitive, but nevertheless possible
Third Party Organizations

Many organizations provide funds for study abroad
You would apply directly to them

- The Gilman Foundation ([www.iie.org/gilman](http://www.iie.org/gilman))
- The Lincoln Scholarship Program ([Google it](https://www.google.com))
- The Fulbright Program ([www.fulbrightonline.org](http://www.fulbrightonline.org))
- The Whitaker Foundation ([www.whitakeraward.org](http://www.whitakeraward.org))
- National Security Education Program([www.iie.org/nsep](http://www.iie.org/nsep))
- [StudyAbroad.com](http://www.studyabroad.com)
Other Resources

- Study Abroad Scholarships
- Domestic Exchange and Study Abroad Programs
- International Financial Aid and College Scholarship Search
- International Scholarships
- Financial Aid for Study Abroad
- Study Abroad Loans
- SIT Study Abroad
- Study Abroad Scholarships and Financial Aid
No, seriously, ask your
• Parents
• Grandparents
• Uncles/aunts
• Anyone who has money
Question #3

• Can I participate in the International Engineering Program even though I’m poor?

A) Yes
B) No
C) Maybe
Interested? Then contact:

Ms. Maureen Waked  
407-823-6037  
ENG I 107  
Maureen.waked@ucf.edu

Dr. Anna Canlon  
407-823-2455  
EN I - 107  
Anna.Canlon@ucf.edu

And be sure to visit

www.cecs.ucf.edu/minors/internationalengineering/  
http://www.cecs.ucf.edu/study-abroad  
www.studyabroad.ucf.edu
Questions?
Back Up Slides
Jönköping University - Sweden

- Located in Jönköping, about 400 km southwest of Stockholm, 5 hours by train
- Beautiful, medium-sized city at foot of Lake Vatern (2nd largest in Sweden)
Mälardalen University - Sweden

- Medium-sized industrial city,
- Approx. 100 km west of Stockholm
- Easy access to Stockholm
  - 1 hour by train
Universidad de Cantabria - Santander, Spain

- Small, high quality university
- Located in Santander, a beautiful seaside resort city on the northern coast
Universidad de Jaen – Jaen, Spain

• Excellent university
• Located in the “Paradise of the Interior” (of Spain)
• Near Granada
Université Joseph Fourier - Grenoble, France

- Located in the French Alps
- Financial aid available
- Numerous international students
- Programs in EE, CS and CpE taught in English
Technical University of Ilmenau - Germany

• One of the most prestigious technical universities in Germany
• Small city in the former East Germany
• Located in Thuringia - “The green heart of Germany”
• Rolling hills and beautiful countryside
• About 30 min. drive from Erfurt, a beautiful, medieval city
Westfälische Hochschule - Germany

• Mid-sized town in the industrial and cultural center of Germany – the Ruhr Region, European Capital of Culture in 2010
• A variety of traditional and alternative cultural offerings
• Strong on future energy
• Cooperation with Siemens Power Generation: Internships possible
University of Applied Sciences – Erfurt

- Nearly 5,000 students in different faculties including: Applied Computer Science, Civil Engineering, Engineering in Building, and Energy Technology
- Study in FH-Erfurt and TU-Ilmenau - courses are partly in English
- Intern at Siemens or N3EOS
- Beautiful medieval city dating back to 742 A.D.
- Capital of the state of Thuringia, located in the centre of Germany (2h->Berlin, 2h->Frankfurt, 4h->Munich...)
- 210,000 inhabitants
Brno University of Technology – Brno, Czech Republic

- Technical university in the Czech Republic
- Near Prague and Vienna
- EE, CpE, CS and ME majors
Universidad de Costa Rica - San Jose, Costa Rica

- General university with many majors
- Most engineering disciplines covered
- Beautiful country with stunningly beautiful sights
- Low cost of living
- Classes in Spanish
Instituto Tecnologico de Costa Rica – Cartago, Costa Rica

- Specializes in Engineering and CS
- Located in Cartago - the ancient capital of Costa Rica
- Low cost of living
- Classes in Spanish
• Excellent private university specializing in Aerospace Engineering
Tongji University - Shanghai, China

- Shanghai is China’s Second City and center of the economy
- Tongji University is one of two top universities in Engineering in China
- 55,000 Students (2437 International)
- 3300 Teaching & Research Faculty and Staff
- 1.16 Billion RMB Research Budget ($170 million)
Other Current Study Locations

- Hong Kong
  - HK Institute of Technology