Have you ever thought of studying abroad for (at least) one semester?

Option a)

Option b), c), d), e), …
A better question is:

• Are you ready to make a difference in your career?
  ▪ Taking the exact same courses as you would take here, in English and with no “detour” from your flowsheet
  ▪ Learning or improving your knowledge of a foreign language and culture
  ▪ Meeting people from all over the world
If you answered yes…

- Congratulations! UB EE is ready to help you fulfill your aspirations and take you to the next level!
Three EE-Sponsored Programs

ENSEA, France  Chalmers, Sweden  Sapienza, Italy
Who is eligible?

• The program at ENSEA (FAME) in France is designed for **junior students** in their second semester
  ▪ **Apply NOW at the beginning of your junior fall semester**

• The other two programs (Sweden and Italy) are designed for **senior students** in their Fall and/or Spring semesters
  ▪ **Apply at the beginning of your junior spring semester**
## Course Flowsheet

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>MTH 141  Calculus I</td>
<td>MTH 142  Calculus II</td>
<td>MTH 306  Intro to Differential Equations</td>
<td>MTH 241  College Calculus III</td>
</tr>
<tr>
<td>CHE 107  Chemistry I</td>
<td>PHY 107  Physics I</td>
<td>PHY 108  General Physics II</td>
<td>PHY 207  General Physics III</td>
</tr>
<tr>
<td>Thematic or Global Pathway Course</td>
<td>Thematic or Global Pathway Course</td>
<td>EAS 360  STEM Comms.</td>
<td>EAS 240  Programming for Engineers</td>
</tr>
</tbody>
</table>

18 hours 16 hours 15 hours 16 hours 17 hours 15 hours 16 hours 13 hours
ENSEA, FAME Program
Cergy, France
FAME Program

- French American Exchange Program
  - Directors:
    - Professor Philippe Marc
    - Professor Vanita Misquita
  - Partner Institutions:
    - IIT (Illinois Institute of Technology)
    - UB (University at Buffalo), The State University of New York
    - Georgia Tech Europe, Lorraine
    - University of Pittsburgh
    - Colorado School of Mines
    - University of Colorado at Boulder
    - University of Illinois at Urbana-Champaign (UIUC)
    - University of Michigan at Ann Arbor
ENSEA, FAME Program
Cergy, France

- Top University located in Cergy, France
  - 35 minutes from the center of Paris!

- Study Abroad Model
  - UB Junior students in their Spring semester take the exact same courses as they would take at UB, in English and in smaller focused groups (bring your GPA up!)
    - Students are directly registered in the FAME program at ENSEA
      - Discounted rates for groups of UB students!
    - Students pay at UB to transfer their credits upon return
      - Seamless transfer of credits!
Direct Mapping of Courses

- Electronic Circuits & Laboratory
  - UB EE 311 & 353 Electronic Devices & Circuits 2 – 6 credits

- Computer Architecture and Introduction to Microprocessors
  - UB EE 379 Embedded Systems – 3 credits

- Communication Systems
  - UB EE 383 Communication Systems – 3 credits

- Fundamentals of Power Engineering
  - UB EE 336 Fundamentals of Energy Systems – 3 credits

- Operating Systems
  - UB CSE 421 Introduction to Operating Systems – 3 credits

- Signals and Systems
  - UB EE 205 Signals and Systems – 3 credits

- Probability and Statistics
  - UB EE 305 Applied Probability – 3 credits

- French Language and Culture
  - UB GEN ED – 3 credits

- Algorithms Design and Analysis
  - UB CSE 331 Introduction to Algorithm Analysis and Design – 3 credits
Elective Courses

• Choose one out of six (3 credits):
  ▪ Microelectronics
  ▪ UAVs / Drones
  ▪ Internet of Things
  ▪ Image and Virtual Reality
  ▪ Artificial Intelligence
  ▪ Big Data

• Transfer as Elective (3 credits)
Chalmers University
Gothenburg, Sweden

• **Top-ranked Engineering School in Sweden**
  ▪ Among the first in Europe!

• **Exchange Model**
  ▪ UB Senior students take master-level courses in English for up to two semesters
    - Students are registered at UB
      • Can take online version of required courses such as EE 408 Senior Seminar
    - Only administrative fees are paid at Chalmers
Very Comprehensive Program

- Students can take courses in all focus areas in UB EE (Communications & Networking, Electronics & Solid State Physics, Photonics & Optics, Power Systems)
  - Digital Communications
  - Wireless Communication Networks
  - Multimedia and Video Communication
  - Real Time Systems
  - Introduction to Electronic System Design
  - Introduction to Integrated Circuit Design
  - Methods for Electronic System Design and Verification
  - Electric Drives
  - High Voltage Engineering
  - Power Market Engineering
  - Power System Operation
  - Power System Analysis
How To Find Courses at Chalmers

2. Click on Studies
3. Click on Programme information
4. Click on Search programme
5. On Programme type select Masters Programme
6. Click on Search
7. Example: click on MPCOM COMMUNICATION ENGINEERING, MSC PROGR
How To Find Courses at Chalmers

8. You will see the courses offered in the academic year 2018/2019
   ▪ Their academic year is divided into 4 terms

9. Take for instance AUTUMN TERM Study period 1
   ▪ Starts early September

8. For example, click on the course SSY121 Introduction to Communication Engineering (7.5 ECTS)
   • NOTE: 2 ECTS = 1 US credit hour

9. The following information on the course is shown: Eligibility, Prerequisite, Aim, Learning outcome, Content/Organization/Literature
Sapienza, University of Rome
Rome, Italy
Sapienza, University of Rome
Rome, Italy

• Top-ranked Engineering School in Italy
  ▪ Largest university in Europe, one of the oldest (founded in 1303 A.D.)

• Exchange Model
  ▪ UB Senior students take master-level courses in English for up to two semesters
    - Students are registered at UB
      ▪ Can take online version of required courses such as EE 408 Senior Seminar
    - Only administrative fees are paid at Sapienza
Focused Programs

• Sapienza should be the target destination for students willing to specialize in **Communications, Networking, Machine Learning, AI and other CSE-flavored topics**
  - Wireless Networking Systems
  - Computer Networks
  - Network Infrastructures
  - Computer and Network Security
  - Machine Learning
  - Artificial Intelligence I & II
  - Data Management
  - Distributed Systems
  - Robotics 1
  - Neural Networks
  - Micro Controllers
  - Computer Graphics
  - Vision and Perception
Course Availability

• For the most updated list, go to:
  ▪ http://cclii.dis.uniroma1.it/?q=en
  ▪ MS in Computer Science
  ▪ MS in Artificial Intelligence and Robotics

• Complete list of courses:
  ▪ http://inspatdiet.uniroma1.it/?page_id=4535
Additional programs available to EE students…

<table>
<thead>
<tr>
<th>Program Name</th>
<th>City</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom: Cardiff University</td>
<td>Cardiff</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>United Kingdom: Newcastle University</td>
<td>Newcastle upon Tyne</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>United Kingdom: Swansea University</td>
<td>Swansea</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>United Kingdom: University of Kent</td>
<td>Canterbury</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>United Kingdom: University of Leicester</td>
<td>Leicester</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>United Kingdom: University of Sheffield</td>
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# Additional programs available to EE students...

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</tr>
</thead>
<tbody>
<tr>
<td><strong>Australia: Monash University</strong> (Exchange)</td>
<td>Melbourne</td>
<td>Australia</td>
</tr>
<tr>
<td><strong>Denmark: Technical University of Denmark</strong> (Exchange)</td>
<td>Copenhagen</td>
<td>Denmark</td>
</tr>
<tr>
<td><strong>Finland: University of Oulu</strong> (Exchange)</td>
<td>Oulu</td>
<td>Finland</td>
</tr>
<tr>
<td><strong>Germany: International Research Experience Program</strong> (Exchange)</td>
<td>Darmstadt</td>
<td>Germany</td>
</tr>
<tr>
<td><strong>Korea: Korea University</strong> (Exchange)</td>
<td>Seoul</td>
<td>South Korea</td>
</tr>
<tr>
<td><strong>Singapore: Nanyang Technological University</strong> (Exchange)</td>
<td>Singapore</td>
<td>Singapore</td>
</tr>
</tbody>
</table>
Cost of Study Abroad???

$$$ Housing???

€€€ Tuition???

$$$ Transportation???
Cost of Study Abroad 😊😊😊

• In all the programs:
  ▪ Your financial support is still in place!!!
  
  ▪ Living in Europe is comparable (or even cheaper) than living in Buffalo (more bang for the buck…)

  ▪ Please check the budget sheets in each program
EE Fellowships

• EE provides travel fellowships up to $2,000 per fellowship

• Fully compatible with other Fellowships provided by the UB Study Abroad Office!

• See the EE Study Abroad Information page for details:
  ▪ Submit your resume and a 500-word Statement of Plans essay (what you hope to learn and how it will impact your studies and career) to Kimberly Kriz after receiving acceptance to your Study Abroad program.
Academic Calendar

• ENSEA:
  ▪ January 18 – May 30

• Chalmers University
  ▪ September 1 - January 15
  ▪ January 20 – June 1

• Sapienza, University of Rome
  ▪ October 1 – December 20 (Exams in January, February)
  ▪ February 20 – May 30 (Exams in June, July)
How to Apply?

- **ENSEA:**

- **Chalmers University**

- **Sapienza, University of Rome**

- **Other Programs**
  - Consult the UB Office of Study Abroad Programs Website
Deadlines

• To Start in the Spring Semester
  ▪ Apply by October 1\textsuperscript{st}!

• To Start in the Fall Semester
  ▪ Apply by March 15\textsuperscript{th}!

• Please contact us if you need flexibility with the dates above
You are not alone!

- EE Faculty will work with you individually to pre-approve the list of courses you will take abroad so you will not have problems with requirements/equivalencies.

- UB Study Abroad (Krista Paszkowsky, studyabroad@buffalo.edu) will work with you on everything else!
Interested?

• Download these slides from: https://engineering.buffalo.edu/ee/academics/enhancing-your-undergraduate-experience/study-abroad-and-international-exchanges.html

• Leave us your name & e-mail address
  ▪ We will email you these slides, any updates, upcoming deadlines

• Feel free to contact
  ▪ Krista Paszkowsky: kristapa@buffalo.edu
STUDY ABROAD FAIR
Thursday, September 26
11am-2pm | Student Union Lobby

201 Talbert Hall
www.buffalo.edu/studyabroad
#UBabroad
THANKS FOR YOUR ATTENTION