

A GUIDE TO EDUCATION ABROAD FOR

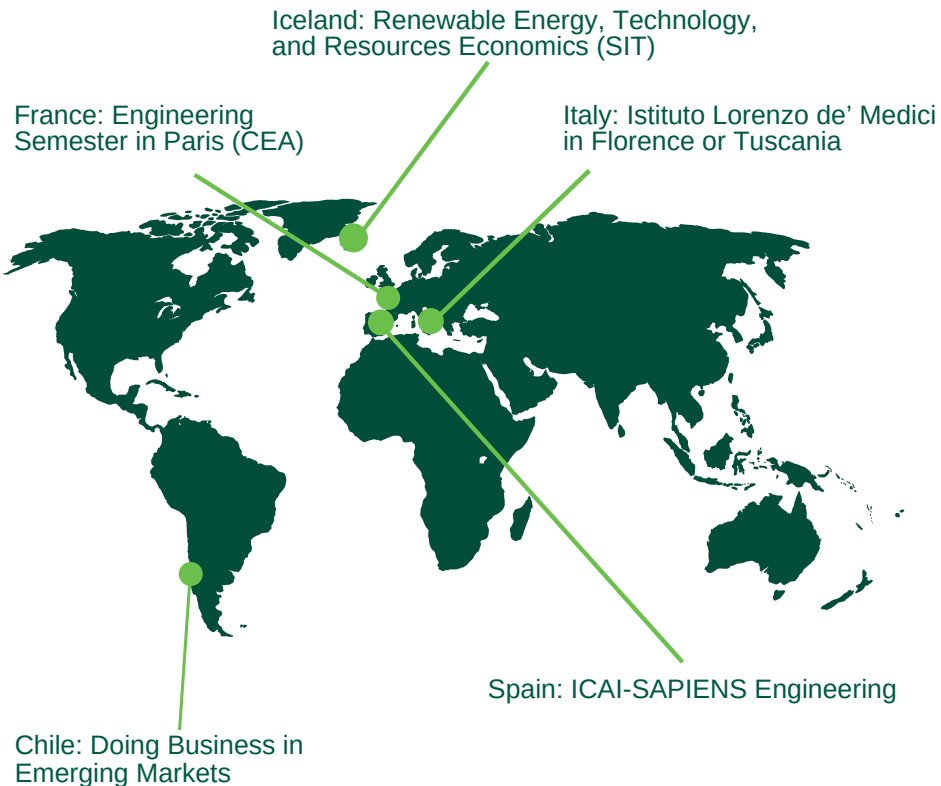
# MECHANICAL ENGINEERING

MAJORS



## WHERE HAVE MECHANICAL ENGINEERING STUDENTS STUDIED?

These are examples of some locations that Binghamton University Mechanical Engineering students have studied. There are hundreds of other programs to choose from through SUNY and programs offerings can change each year.



"I've always dreamed of studying abroad. Thanks to IEGI, I spent my spring semester of sophomore year in Madrid, Spain. During my time abroad, I experienced Spanish culture to the fullest and traveled from the Northern region of Basque country all the way down south to Barcelona in Catalonia. Being abroad allowed me to step outside my comfort zone and practice my Spanish speaking skills. I met plenty of friends from all around the globe and learned about their own cultures. I credit my study abroad experience for making me a more open-minded individual and exposing me to different walks of life.

While abroad, I was grouped with other engineers and learned what it's like to work with peers from India, France, and Hong Kong. I'm confident this experience has helped prepare me for the expanding global business market and I hope to return to Spain in the near future."

XXXXXXXXXXXX  
**JOSIP, MECHANICAL  
ENGINEERING STUDENT  
STUDIED IN MADRID,  
SPRING 2020**



## WHY YOU SHOULD STUDY ABROAD

### You can gain:

- Competencies Employers Seek
  - Critical Thinking/Problem Solving
  - Oral/Written Communication
  - Teamwork/Collaboration
  - Global/Intercultural Fluency
- Connections in your field
- Inspiration



### It's affordable and practical:

- Financial Aid is generally applicable
- Find programs without language requirements
- Programs keep you on track with your degree progress



**JOSEPH, MECHANICAL  
ENGINEERING STUDENT  
STUDIED IN PARIS,  
SPRING 2020**

## **EDUCATION ABROAD BASICS**

There are two semester Binghamton programs that allow mechanical engineering students to take courses according to their Binghamton University requirements:

- Spain: ICAI-SAPIENS Engineering
- France: CEA Paris Engineering

Some other Binghamton programs include engineering courses and are offered during a winter or summer session. Examples:

- Iceland: Renewable Energy, Technology, and Resource Economics
- South Korea: Korea University International Summer Campus



## **EXPLORE PROGRAMS**

## **GETTING CREDIT**

Explore three great semester options for Mechanical Engineering students on pages 7-9. Talk with your academic advisor to develop a similar plan that works for you.

Click on the paper icon to the right and scroll through the classes to see what credit students have received on other programs in the past.



## COURSE MAPPING

### EXAMPLE OF **SOPHOMORE FALL** STUDY ABROAD ON FRANCE: CEA PARIS ENGINEERING

*Important note about General Education electives for this program: It is recommended that you leave either the General Education Social Science (N) or Aesthetics (A) to take while abroad.*

#### FIRST YEAR

**Take normally sequenced courses**

**Summer before going abroad:**

PHYS 132. General Physics II

ME 212. Mechanical Engineering Programming

#### SECOND YEAR

**Fall (ABROAD)**

MATH 323. Calculus III

ME 273. Statics

General Education Elective

General Education Elective

**TOTAL CREDITS - 15**



**PROGRAM WEBSITE**

**Spring**

MATH 324. ODE's for Scientists/Engineers

ME 211. Introduction to Solid Mechanics

ME 274. Dynamics

EECE 260. Electric Circuits

**TOTAL CREDITS - 14**

#### THIRD YEAR

**Continue with normally sequenced courses**

## COURSE MAPPING

### EXAMPLE OF **SOPHOMORE SPRING** STUDY ABROAD ON FRANCE: CEA PARIS ENGINEERING

*Important note about General Education electives for this program: It is recommended that you leave either the General Education Social Science (N) or Aesthetics (A) to take while abroad.*

#### FIRST YEAR

**Take normally sequenced courses**



**PROGRAM WEBSITE**

#### SECOND YEAR

**Fall**

MATH 324. ODE's for Scientists/Engineers

PHYS 132. General Physics II

ME 212. Mechanical Engineering Prog

ME 273. Statics

**TOTAL CREDITS - 13**

**Spring (ABROAD)**

MATH 323. Calculus III

EECE 260. Electric Circuits

ME 274. Dynamics

General Education Elective

**TOTAL CREDITS - 15**

**Summer after going abroad:**

ME 211. Introduction to Solid Mechanics\*\*

#### THIRD YEAR

**Continue with normally sequenced courses**



## COURSE MAPPING

EXAMPLE OF **SOPHOMORE SPRING** STUDY ABROAD ON  
SPAIN: ICAI - SAPIENS ENGINEERING PROGRAM

### FIRST YEAR

Take normally sequenced courses



**PROGRAM WEBSITE**

### SECOND YEAR

#### Fall

MATH 323. Calculus III

PHYS 132. General Physics II

ME 212. Mechanical Engineering  
Programming

ME 273. Statics

General Education Elective

**TOTAL CREDITS - 17**

#### Spring (ABROAD)

MATH 324. ODE's for  
Scientists/Engineers

EECE 260. Electric Circuits

ME 274. Dynamics

ME 362/363. Materials Science & Lab

**TOTAL CREDITS - 13**

#### Summer after going abroad:

ME 211. Introduction to Solid Mechanics\*\*

### THIRD YEAR

Take one less course of your normal sequencing or another course of your choosing (in consultation with your academic advisor), then continue with normal sequencing.



## **EDUCATION ABROAD PLANNING**

### **COST AND FINANCIAL AID**

Some programs are similar or less in cost than Binghamton University and some are more. It is important to consider financial aid as you plan to go abroad. Some grants and scholarships have specific requirements that you must maintain while abroad. To ensure these guidelines can be met, inform your academic advisor what aid you receive and discuss your plans to go abroad with the Financial Aid office.

### **TIMELINE**

#### **As Early As Possible -**



1. Discuss your interest in studying abroad with your academic advisor and program advisor in IEGI.
2. Attend education abroad fairs and info sessions, and talk to education abroad ambassadors to determine the best program for you.

#### **Semester Before Going Abroad -**

1. Discuss the program costs with Financial Aid - bring the costs with you
2. Apply for the program on the program website

**Application Deadlines** - The latest deadline to complete an application for an education abroad program is noted below. Some programs have earlier deadlines.

- October 1 - for a program in the winter or spring semester
- March 1 - for a program in the summer or fall semester

## **EDUCATION ABROAD PLANNING**

### **APPLICATION PROCESS**

Each program can have a different application process. For more detailed information, check the program website. Most applications require:

1. A 24-48 hour waiting period after you start your application,
2. An essay,
3. Your transcript,
4. At least one faculty reference, and
5. Basic information to fill out.

## TIPS

Start planning with your advisor during your first year, if you can!

This is the best way to make a program fit well into your degree.



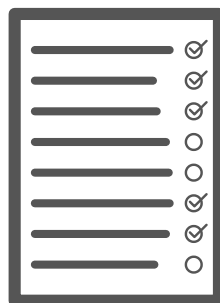
If the programs listed do not work for you, consider a spring break, summer, or winter program



You can receive General Education credit abroad - ask your advisor about how to plan for this as early as your first year.

## YOUR PLAN

*Discuss your interest in participating on an education abroad program with your academic advisor in Watson to make a plan that works for you.*



The sooner you do this the better! Even if you're just considering going abroad, come by and talk to us. Start with your academic advisor, then stop by IEGI.

## **QUESTIONS? CONTACT US!**



### **WATSON ADVISING**

Engineering Building (EB), Room M00

(607) 777-6203

[wtsnadv@binghamton.edu](mailto:wtsnadv@binghamton.edu)

**BINGHAMTON**  
UNIVERSITY

THOMAS J. WATSON COLLEGE OF  
ENGINEERING AND APPLIED SCIENCE

### **OFFICE OF INTERNATIONAL EDUCATION AND GLOBAL INITIATIVES**

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