

STUDY  
ABROAD



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# Developing and Supporting Summer Programs for Engineering Students



MISSISSIPPI STATE  
UNIVERSITY™



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MISSISSIPPI STATE UNIVERSITY

# By the Numbers

## Fall 2012

### Mississippi



## Mississippi State University Enrollment

- 20,365

## Engineering Enrollment

- 3,337 (*top 20% US*)

- Top 10% nationally in research expenditures among U.S. colleges of engineering\*
- More than \$100 million in engineering research awards annually

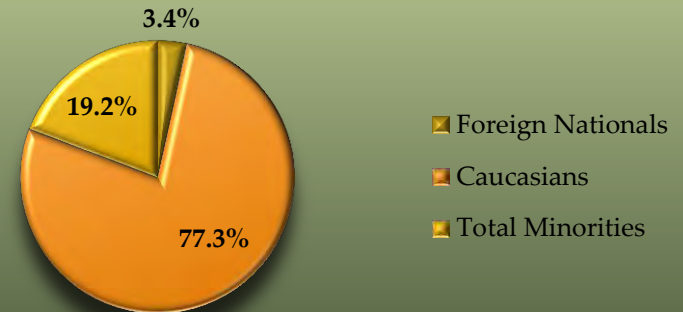
\* NSF Annual Ranking

# Student Demographics

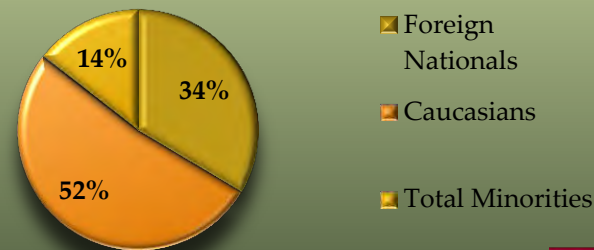


- High percentage of
  - rural
  - first-generation
  - minority
  - economically-challenged students

## BCoE Demographics - UG



## BCoE Demographics - Graduate





# Barriers to Study Abroad



- **COST**
- Lack of awareness of existing possibilities
- Students are unaware of the value of study abroad
- Families do not have an international experience and do not encourage students to participate in studying abroad
- Requires a cooperative effort between student and academic adviser
- Students are afraid of the unknown
- Cultural barriers
- Perceived barriers:
  - Student needs to know the language of the host country
  - It costs more to study abroad for a semester than it does at MSU
  - Studying abroad delays graduation
  - GPA might be affected

# When Students Select Short-Term SA Programs



- The cost of long-term programs is too high
- Student is afraid to go abroad on his/her own
- Student has a full-time job
- Student is trying to decide if he/she should participate in a semester-long program
- Student has a family

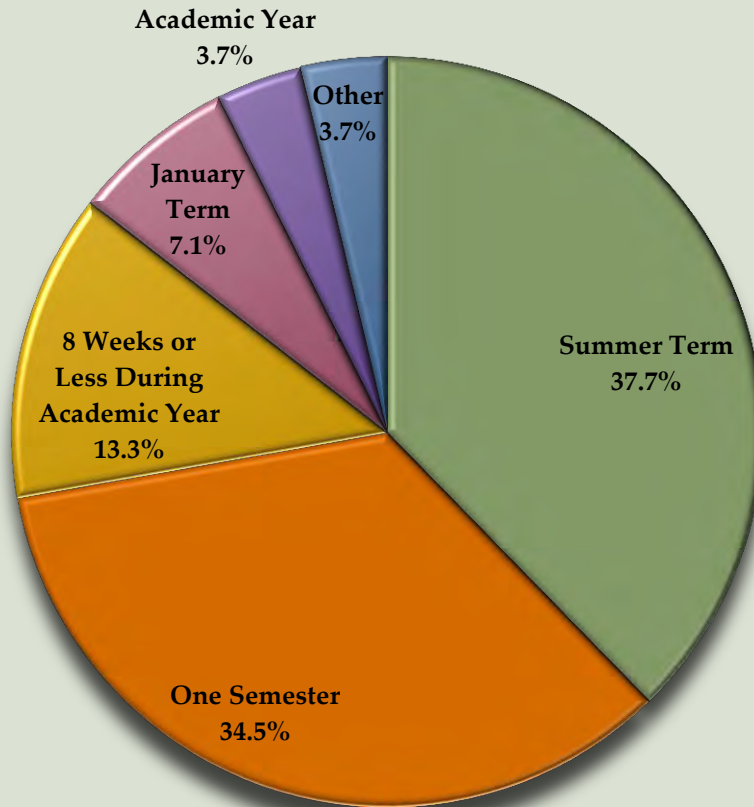
Additional reasons to select a Maymester program:

- Student has to work in summer to support him/herself
- Student wants to take additional courses during summer terms

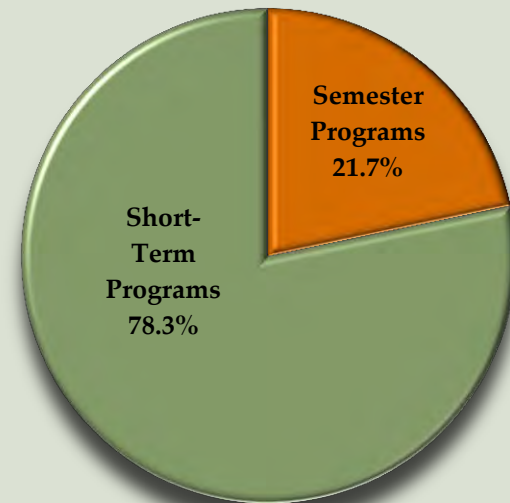
# Short-Term SA Programs in Numbers

INSTITUTE OF  
INTERNATIONAL  
EDUCATION

Open Doors Data  
U.S. Study Abroad: Duration of  
Study Abroad



BCoE

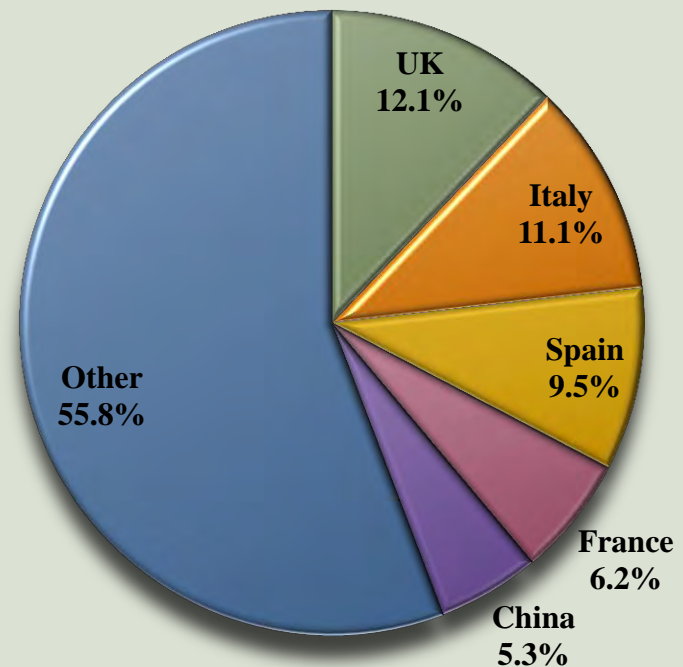
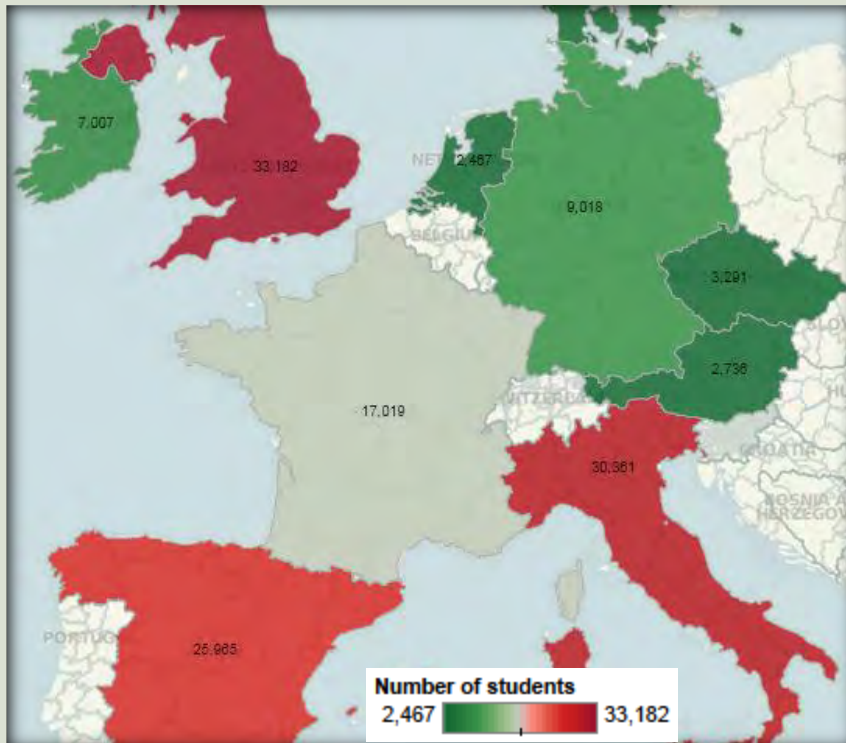




# Top Study-Aboard Destinations for U.S. Students in 2010-2011

INSTITUTE OF  
INTERNATIONAL  
EDUCATION

Open Doors Data  
U.S. Study Abroad: Leading Destinations



Sources: <http://www.iie.org/Research-and-Publications/Open-Doors/Data/US-Study-Abroad/Leading-Destinations/2009-11>  
<http://chronicle.com/article/Growth-in-Study-Abroad/135716/>

# BCoE Study Abroad



## Faculty-led Summer Programs

### Targeted countries

- United Kingdom
- Italy
- France

### Targeted Timing

Maymester



# BCoE Faculty-Led SA Summer Programs – Programs that work



## “Introduction to Satellite Imaging of the Earth”

May 11 – June 1, 2013

### Guildford, UK

\$2,750\*

- ❑ Open to all students with sophomore standing and above
- ❑ Can be taken as a graduate level course
  - tuition, travel to/from Guildford, UK are not included; most meals are included



## “Structure and Beauty”

May 10 – May 30, 2013

### Italy

\$2,200\*

MILAN, VICENZA, VERONA, VENICE,  
ROME, PISA, FLORENCE

- ❑ Open to all students with sophomore standing and above
- \*meals, tuition, travel to/from Italy are not included; domestic transportation (in Italy) and hotel stays are included



# BCoE Faculty-Led SA Summer Programs – Programs that did not make



## “Analysis & Design of Lightweight Structures”

May 11 – June 9, 2013

## “Mechanics of Materials”

May 12 – June 11, 2012

## Clermont-Ferrand, France

\$2,021(\$2,100 in 2012)

- **Prerequisite:** Grade C or better in Calculus III and Mechanics of Materials (Calculus III and Engineering Mechanics I in 2012)
- tuition, travel to/from Clermont-Ferrand are not included; **3-day trip to Paris is included**



## “Engineering Economy”

July 3 – August 2, 2012

## Istanbul, Turkey

\$2,550\*

- Taught by MSU faculty member
- **Prerequisite:** Calculus I

\*meals, tuition, travel to/from Istanbul, Turkey are not included





# Short-Term Faculty-Led SA Programs



## Why does a program fail?

- Not advertised properly
- Undesirable Country
- A prerequisite required
- Timing not suitable for students
- Too many SA courses offered at the same period of time
- The course cannot be counted toward degree for some or all students



# Short-Term Faculty-Led SA Programs



## Important strategies

- Proper advertisement of the program
- Students have to be aware of the importance of international experience in today's globalized world
- Academic integration of SA in curriculum
- Program quality and sustainability
- Incentives for both, students and faculty
- Diversity of Programs Offered
  - Technical Electives
  - Arts/Humanities Electives
- Efficient administration



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# Questions - ????

