

# STUDY ABROAD FOR ENGINEERING MAJORS

SANTA CLARA UNIVERSITY



# In this Presentation:



- What are the goals of a study abroad experience?
- What are the basic characteristics of SCU's study abroad offerings?
- Why is study abroad especially important for engineering students?
- Who studies abroad at SCU?
- When is the best time to go abroad?
- Where do our SCU engineering students go?
- How do I plan for study abroad?

# SCU Goals For Your Study Abroad

## Experience:

- Engage in a meaningful academic experience
- Develop an understanding of the country in which you study
- Seek ways to live like a local
- Engage with the local culture through: living with a home stay; volunteering; participating in an academic internship; joining a local student club; studying the local language
- Understand the impact that your presence has on the local community
- Give back to the local community that is hosting you and teaching you about their culture
- Connect your experience abroad with your experience at SCU.

# Basic Facts about Study Abroad at

SCU.



- Over 50 programs for all majors
- Participate during fall; winter; spring of junior or senior year or summer of sophomore, junior or senior year
- Grades count in GPA
- By permission, coursework may count for major/minor/Core
- Cost ranges from \$17,616 to \$23,616 per term during the academic year and generally includes, tuition, housing and emergency evacuation insurance. Cost does not include: meals, airfare, visas, immunizations, incidentals
- Financial Aid applies to academic year programs.

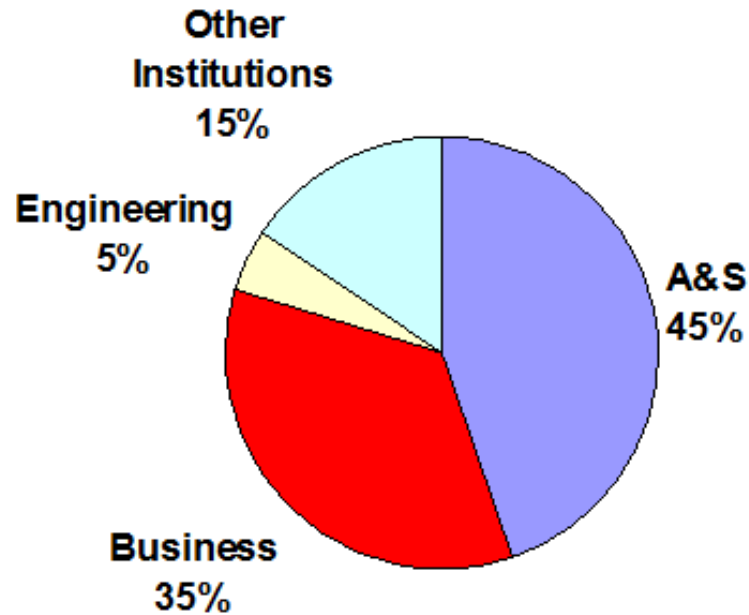
# Why should SCU engineers study abroad?



- There are very few times in your life when you can immerse yourself in another culture for a significant period of time.
- The engineering workplace is becoming much more global—thus global understanding is key to success in the days ahead.
- International experience is a strong, positive addition to a professional resume.
- Global understanding is an important part of what Santa Clara seeks to create in its students.

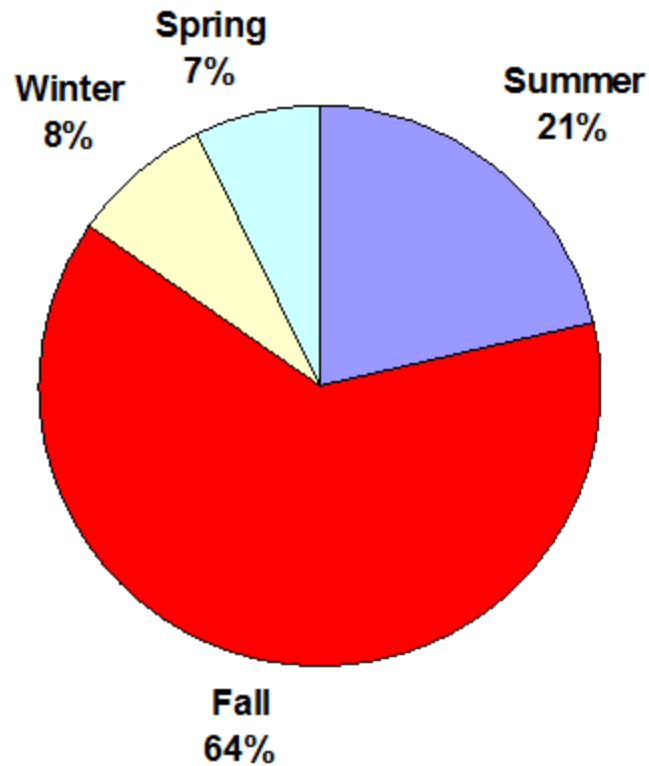
# Who studies abroad at SCU?

**Distribution of Students  
in Study Abroad by Academic Unit.  
(473 Person Terms)**



# When do SCU students typically study abroad?

SCU Study Abroad Participation by Term



# Why is this so?

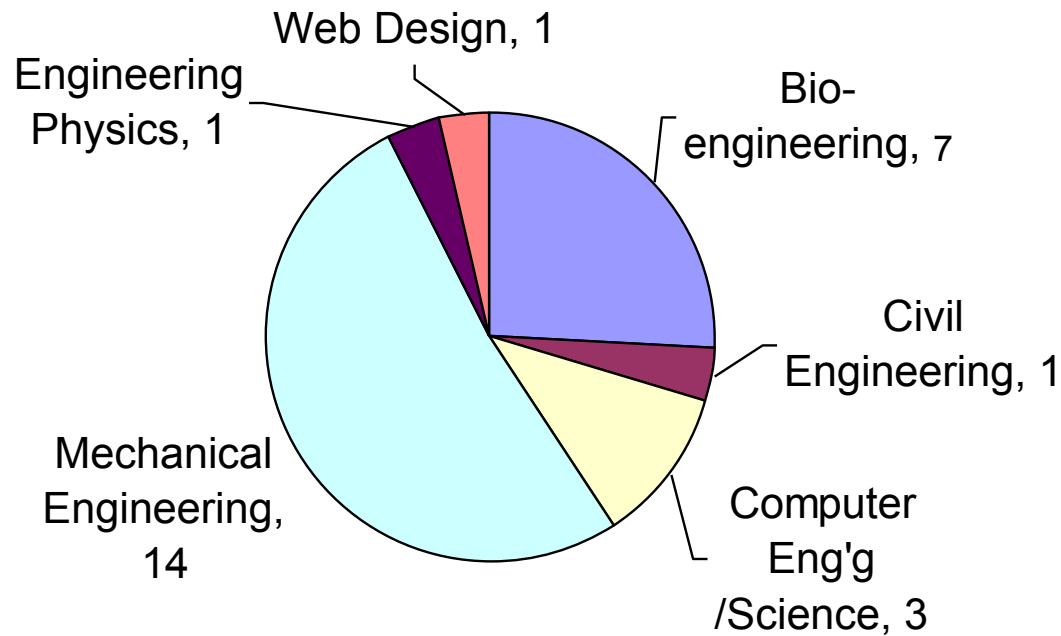


- Most universities around the world are on the semester system.
- When you go abroad in the Fall you sacrifice one quarter at SCU and receive 1 semester's worth of academic credit. (16 semester credits = 24 quarter units) This seems to be a good value.
- When you go abroad in the Winter you sacrifice two quarters at SCU and receive only one semester's worth of academic credit. This may not seem like as good a value.
- Summer is typically revenue and credit neutral.



# Who is currently Studying Abroad from Engineering?

Eng'g Disciplines Using Study Abroad in 2012



# What criteria have we used in selecting the portfolio of study abroad programs for engineers?



- Engineering course offerings.
- Instruction in English.
- Fall term availability.
- Complete exams before Christmas.
- High quality programs.
- Housing and local assistance from our experienced provider partners.

# The Engineering Portfolio of Choices

Provider	Country	City	University Name	Price Tier	Bio-Med.	Elect.	Civil	Comp.	Mech.	Web
Arcadia	Australia	Brisbane	Queensland Univ. of Technology	3	•	•		•		•
Arcadia	Australia	Brisbane	University of Queensland	3	•	•		•		•
Arcadia	Australia	Sydney	University of Sydney	4		•	•		•	
Arcadia	England	London	Queen Mary University of London	2	•	•		•	•	•
Arcadia	England	London	QM+London Internship Program	3	•	•		•	•	•
Arcadia	Ireland	Dublin	University College Dublin	4		•	•	•	•	•
Arcadia	Ireland	Cork	University College Cork	3	•	•	•	•	•	•
CIEE	Korea	Seoul	Yonsei University	1				•		•
Arcadia	New Zealand	Auckland	University of Auckland	1	•	•	•	•	•	•
Arcadia	New Zealand	Christchurch	University of Canterbury	2	•	•	•	•	•	•
Arcadia	New Zealand	Dunedin	University of Otago	2				•		•
Arcadia	Scotland	Edinburgh	University of Edinburgh	3	•		•	•		•
GE3	Singapore	Singapore	Nanyang Technological University	1*	•	•	•	•	•	•
CIEE	South Africa	Stellenbosch	Stellenbosch University	3		•	•	•	•	•
IES	Spain	Madrid	Universidad Carlos III de Madrid	3	•	•	•	•	•	•
Exchange	Sweden	Lund	Lund University	1*		•	•	•	•	•
CIEE	United Arab Emirates	Sharjah	American Univ. of Sharjah	2		•	•	•	•	•

# Where do we currently have our engineering students placed in study abroad?

Place	Country	Number
University of Sydney	Australia	1
Queen Mary Univ. of London	England	8
SCU London	England	1
University College Cork	Ireland	1
Univeristy of Auckland	New Zealand	1
University of Edinburgh	Scotland	8
University of Lund	Sweden	2
Madrid	Spain	3
Barcelona	Spain	2
<b>Total</b>		<b>27</b>

# SCU Eligibility Requirements:

- 2.75 minimum GPA; some programs require higher
- 88 units completed by the time program starts
- Declared major through Registrar's Office
- Not on disciplinary probation at time of application
- Eligibility requirements vary by program. Students are expected to meet or exceed all prerequisites.
- *Please Note: Selection is competitive and SCU applications may not be approved for first choice programs.*

# How to design your own study abroad program:



- Decide when you would like to go. (Fall, Spring, Summer, etc.)
- Choose two or three programs that are a good match for your discipline. Do some research about the course offerings that are available at the locations you have chosen.
- Talk with your academic advisor.
- Talk with students who have gone abroad.
- Talk with a study abroad advisor.
- Apply by the required deadline.

# Good Value – Queen Mary University of London



- Founded in 1887, Queen Mary University of London has an outstanding engineering program in a superb location.
- Queen Mary is among the top 10 universities in the United Kingdom and has produced 5 Nobel Prize winners.
- This particular study abroad location features a volunteer industrial internship as an extra cost option.
- Queen Mary is particularly well suited for mechanical engineers.

# Good Value - The University of Edinburgh



- Among the top 20 universities in the world. Among the top 5 universities in the UK. The top university in Scotland.
- Famous students include Charles Darwin and James Clerk Maxwell
- 4.5 hours by train north of London.
- Edinburgh is a city that offers an exciting array of entertainment, history, culture and sports. ,
- This institution is particularly well suited for SCU bioengineers, civil engineers, and computer science/engineering majors.



# Global E<sup>3</sup> Engineering Exchange: Multiple Locations Worldwide

- Global E<sup>3</sup> is an exchange program for engineering students: a student can study abroad while continuing to pay tuition at their home institution.
- With member universities in 20 countries, students at nearly 60 universities have the opportunity to study abroad.
- Options in Australia; Austria; China; Denmark; Egypt; France; Germany; Hong Kong; India; Indonesia; Israel; Italy; Japan; Malaysia; Mexico, Singapore; South Korea; Spain; United Kingdom)
- Global E<sup>3</sup> placements are limited.
- Housing varies by program.

# ***A New Program this year: United Arab Emirates: American University of Sharjah,***

## **CIEE**

■ This CIEE program in Sharjah allows students to enroll at the American University of Sharjah. Students combine Arabic language and Middle Eastern and Gulf studies courses with electives in engineering. The following engineering options are available:

- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Mechanical Engineering

■ Students take **15-16** semester credits and live in on-campus residence halls.

# Strategies for Planning Study Abroad

Option	Advantages	Disadvantages
Study abroad in the Fall Term	<ul style="list-style-type: none"> <li>Compatible engineering courses</li> <li>Great locations</li> <li>Excellent universities</li> <li>SCU financial aid applies</li> </ul>	<ul style="list-style-type: none"> <li>Requires careful planning</li> <li>Some are expensive</li> </ul>
The SCU London Summer Program	<ul style="list-style-type: none"> <li>An excellent program</li> <li>Great price &amp; location</li> <li>No missed quarters at SCU</li> <li>An internship is included</li> </ul>	<ul style="list-style-type: none"> <li>No financial aid.</li> <li>No engineering courses</li> </ul>
Summer with an exchange partner	<ul style="list-style-type: none"> <li>No missed quarters at SCU</li> <li>Lower price than academic year</li> <li>Lille is a good choice</li> </ul>	<ul style="list-style-type: none"> <li>Limited choices</li> <li>No financial aid</li> <li>No engineering courses</li> </ul>
Summer with an affiliate provider	<ul style="list-style-type: none"> <li>No missed quarters at SCU</li> <li>Plenty of good options</li> </ul>	<ul style="list-style-type: none"> <li>No financial aid</li> <li>No engineering courses</li> </ul>
The SCU Sydney Spring Internship Program	<ul style="list-style-type: none"> <li>Interesting location</li> <li>Great price</li> <li>SCU financial aid applies</li> <li>Includes an internship</li> </ul>	<ul style="list-style-type: none"> <li>No engineering courses</li> <li>Requires careful planning</li> </ul>

# As you consider options and make plans you may find it useful to use a spreadsheet to plan your proposed program abroad:

## My SCU Program

Mechanical Engineering (Fall Junior Year)	
Course	Title
CORE	
M/S elect	MECH 102 or Math Sci. Elect.
free elective	
MECH 122	Fluid Mechanics

## Proposed Program, Queen Mary University of London

Course	Title
ANRS199	Enchanted City: Religious Experience in Secular London
MTH4107	Introduction to Probability
ARCADIA	Internship in Industry (free elective)
DEN101	Mechanics of Fluids 1

## Notes

Religion 2 core class taught by Arcadia London
Check with SCU Math Dept.
Use as free elective
Check with advisor on this one

# **Don't miss out on the deadlines:**

**(Apply online by the application deadlines)**

- **Fall Semester/Fall Quarter 2013 Abroad:  
Deadline December 15, 2012**
- **Summer 2013 Abroad:  
Deadline March 15, 2013**
- **Winter Quarter/Spring Semester/Spring  
Quarter 2014 Abroad:  
Deadline June 15, 2013**



# Need More Information?

- Visit the Study Abroad Office in Varsi Hall, First floor.  
No appointment necessary.  
Mondays/Tuesdays, 10:00 AM – 12:00 PM  
Wednesdays/Thursdays, 2:00 PM-4:00 PM
- Visit with Dr. Shoup or Dr. Davis in Engineering.



# Recent wisdom:

Study abroad is part of a life-long process of moving between and among different cultures.

*The world is becoming a borderless, global work place. Children born today will spend part of their lives abroad, if they are successful professionals, in the same way their parents moved to different states.*

Ryssdal, Kai. Interview with Paul Saffo. "Jobs of the Future: The Next Generation's Job Market," *Marketplace*. APM. 26 Oct. 2010. Radio



# In conclusion



- Those returning from study abroad will tell you the experience is life-changing.
- All engineering disciplines at SCU can undertake study abroad.
- There are some exciting possibilities for our engineering students in unique locations.
- The most successful study abroad placements begin with careful research and planning about options and possibilities.



QUESTIONS?

