Global E3 Annual Meeting 2014

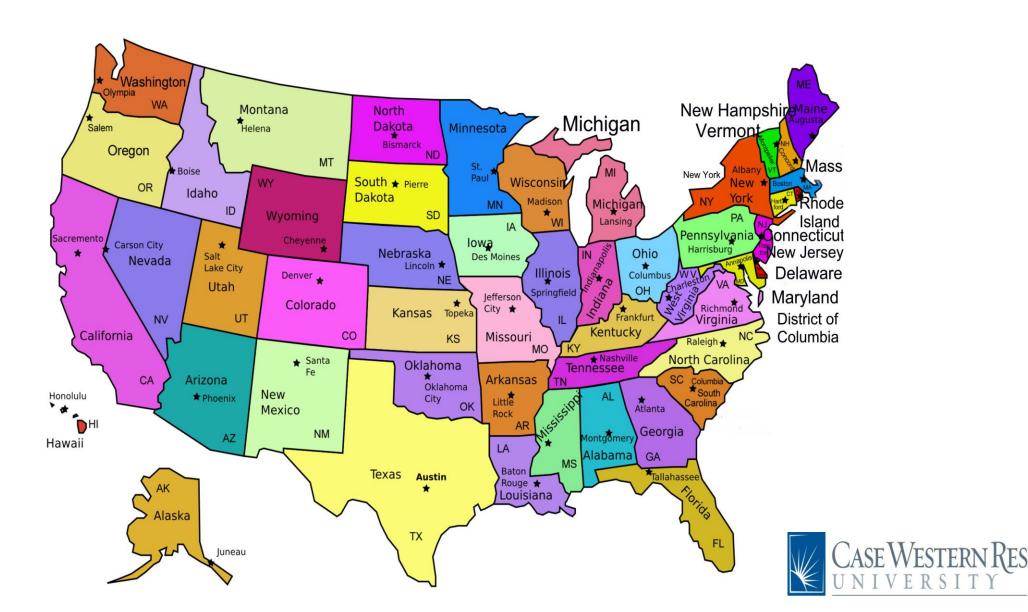
The Role of the Dean's Office in Facilitating with Departments to Integrate Study Abroad into the Curriculum

Debbie Fatica

Assistant Dean, Case School of Engineering Case Western Reserve University



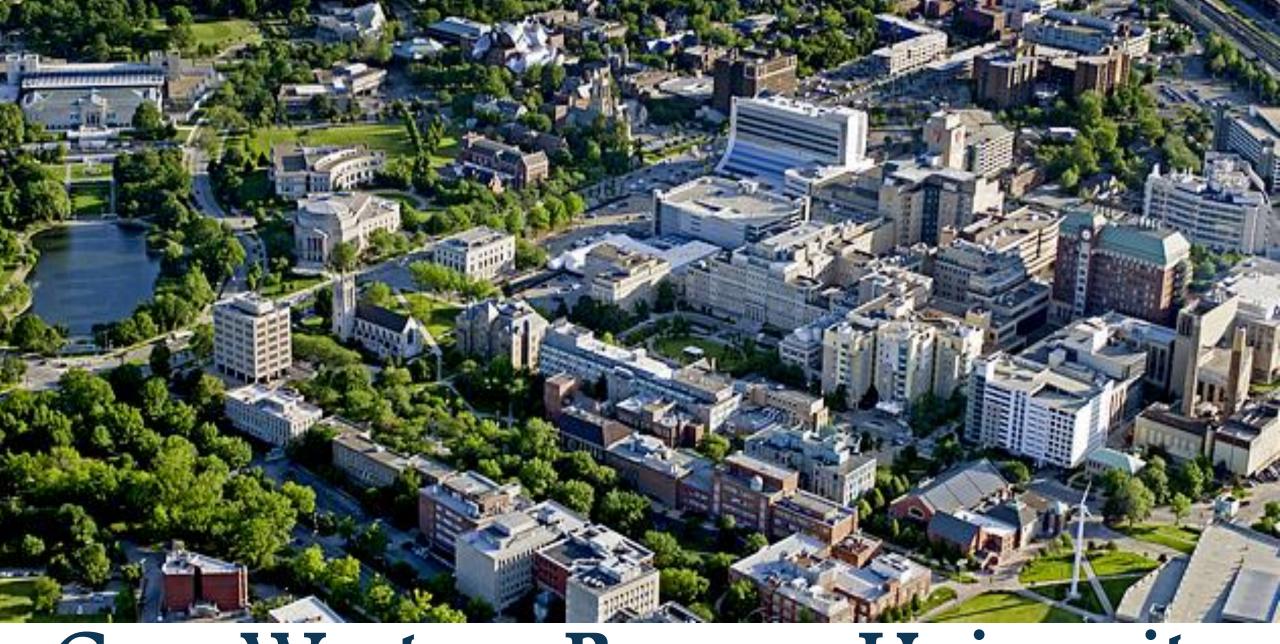
Where in the World is Case Western Reserve University?



Where in the World is Case Western Reserve University?







Case Western Reserve University



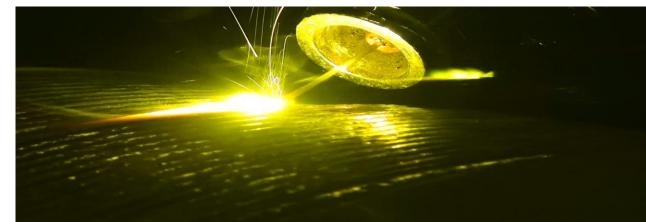
Founded in 1826





- * Endowment of \$1.8 billion
- ❖ 100 designated academic and research centers receiving nearly \$400 million in external research awards each year.





Schools and Colleges

- Case School of Engineering
- College of Arts & Sciences
- Frances Payne Bolton School of Nursing
- ❖ Jack, Joseph, & Morton Mandel School of Applied Social Sciences
- School of Dental Medicine
- School of Graduate Studies
- School of Law
- School of Medicine
- Weatherhead School of Management



CWRU Facts

- ❖U.S. News and World Report, 2014 ranking for CWRU, 37 out of 280 national universities
- *Ranked best university in the State of Ohio
- ❖ 15 Nobel Laureates
- ❖ 10,000 students total at University; 40% undergraduates
- Represent 50 States and over 100 countries



Case School of Engineering

❖ U.S News & World Report Ranking 35th

Undergraduate Students
1298 (6% International)

Graduate Students633 (52% International)

❖ National Academy of Engineers 37

Research Revenues \$33.3 million

Engineering Endowment \$224 million







Departments and Majors.

Biomedical Engineering

Chemical Engineering

Civil Engineering

Electrical Engineering & Computer Science

Computer Engineering

Computer Science

Electrical Engineering

Systems & Control Engineering

Macromolecular Science & Engineering

Materials Science & Engineering

Mechanical & Aerospace Engineering

Aerospace Engineering

Mechanical Engineering

Engineering Physics



International Offerings

Study Abroad.

Traditional study abroad, including GE3, offered out of Office of International Affairs

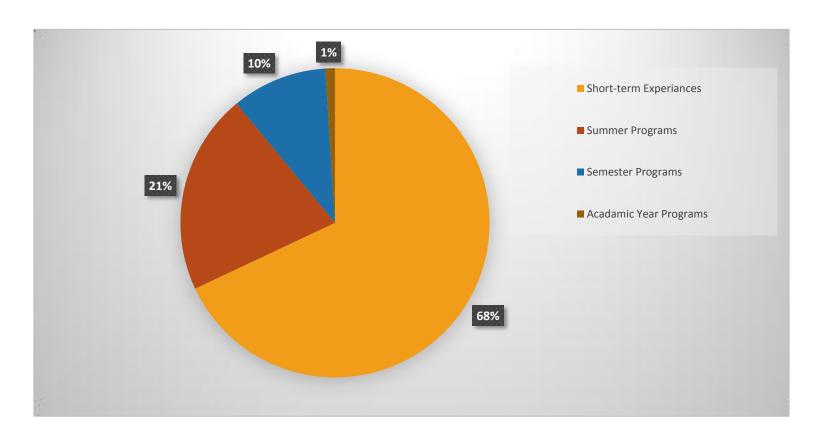
Executive Director, Molly Watkins







Study Abroad 2012 – 2013 Academic Year



Of the students that study abroad, 30% are Engineers



Engineering Courses

ENGR 225 – Thermodynamics

University of Botswana

3-week intensive course intertwines engineering content with regional issues specific to sub-Saharan Africa

ENGR 484 - International Engineering Entrepreneurship

U.S. Department of State recognized this course as the first U.S. college course in Myanmar Student participants are involved in the Masters of Engineering and Management Program

EECS 342 – Introduction to Global Issues

Interact with students from 15 strategically selected universities to provide global coverage to UNESCO's Global-problematique Education Network Initiative (GENIe) in joint participatory scenario via the internet

ECHE 362 – Chemical Engineering Laboratory

Summer laboratory in Chemical Engineering at the Technical University of Denmark





2+2 Programs

Undergraduate programs in China and Taiwan

3+2 Programs

Graduate programs with several countries

Summer Research Abroad

Switzerland, Brazil, Sweden, China, etc.

Engineering Faculty Survey

Partnerships in 33 countries and on 6 continents

Engineers Without Borders

Students travel to Dominican Republic, Cameroon, Thailand



ABET – Program Outcomes and Assessment

H) ... the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context



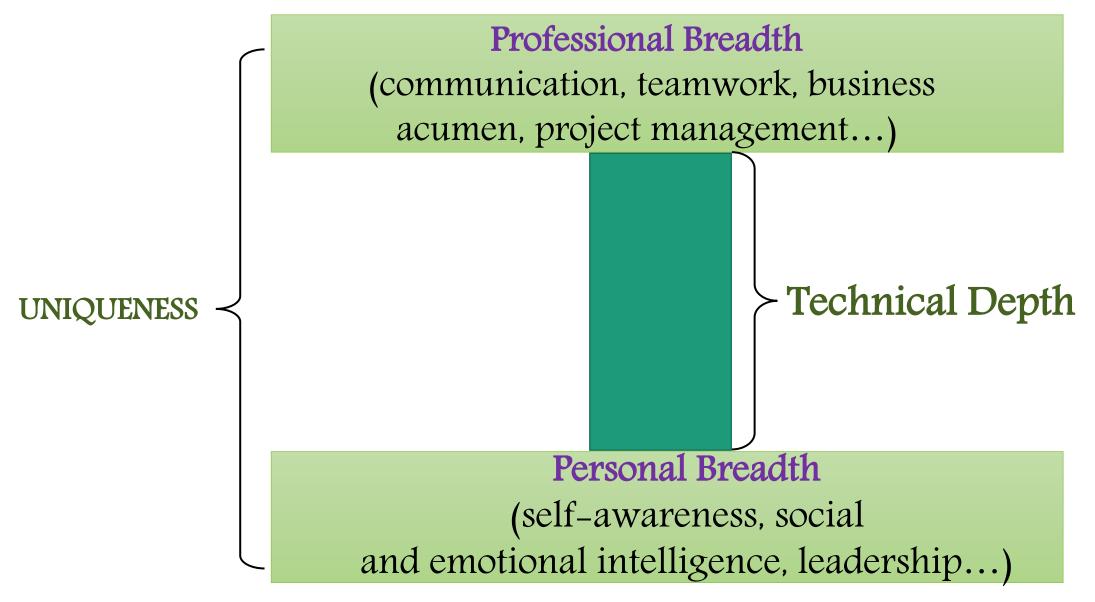
Create disciplinary and interdisciplinary programs that address global challenges

Promote enrollment of high-quality students from other nations including developing countries

Develop an international scholars program



The 21st Century Engineer I-Shaped Engineer



The Future

- Global Faculty Liaisons in each Engineering Department
- ❖ Academic mapping of courses to optimal semesters and locations
- International summer internships and Cooperative Education experiences
- ❖ Increase Global Programs and Opportunities
- Survey Faculty for International Activities and Partnerships

