First Year Experience Goes Global!
CSE 1002 January 2016

CSE 1002, Spring Semester 2016
- An incredible opportunity for first year CSE students to go abroad with faculty!
- Sites around the globe!
- An excellent professional development and networking opportunity.
- Get to know faculty and other CSE students while learning in the real world.
- No language pre-requisites.
- Preparation will take place during Fall Semester, travel during January 2016.
- Registration for CSE 1002 (1 credit) and billing will take place during Spring Semester.
- Program fees will be finalized during Fall Semester, but are estimated to be between $2,999 and $3,599 depending on location.

Italy—Engineering an Empire
Professor: Professor Marvin Marshak, School of Physics and Astronomy
Instructor: James Liberman, CSE Career Center
Travel Dates: January 8–17, 2016

Location and Description
Learn first-hand about the skills and mathematics of Greek and Roman engineers and architects as they built colossal structures that exemplify the achievements of their empires. The group will also experience structures of the Middle Ages and the Renaissance and discuss the development of design and construction methods over two millennia. The program will visit Sicily, Naples, and Rome. Sites will include Greek ruins, Pompeii, the Coliseum, the Vatican, and more!

Ireland—Manufacturing and Research in the Gateway of the EU
Professor: Associate Professor Alena Talkachova, Department of Biomedical Engineering
Instructor: Kevin Allen, CSE Academic Advising
Travel Dates: January 8–17, 2016

Location and Description
This group will visit companies, universities and research centers in Ireland—a center of manufacturing and research for global companies. Using the biomedical device industry—a specialty of the Twin Cities—as a case study, students will see how companies access the EU market while leveraging the special aspects of Ireland. Students will also experience charming and historic cities like Dublin and Limerick, while visiting Irish universities popular with STEM students interested in spending a semester abroad.

I had an amazing time abroad! Traveling with your classmates is a completely different experience than traveling with your family!—Previous participant
Spain—The First Engineers
Professor: Teaching Specialist Ann Johnson, Department of Civil Engineering
Instructor: Jessie Behr, CSE Academic Advising
Travel Dates: January 8–17, 2016
Location and Description
Based in Madrid, Spain with site visits in the surrounding region to explore some of the finest examples of ancient Roman engineering. Discussions will encompass engineering principles that are relevant today, history, and Spanish language skills (no previous Spanish language required to participate).

Hong Kong—Research and Manufacturing in a Global Hub
Professor: Professor Sue Mantell, Department of Mechanical Engineering
Instructor: Adam Pagel, International Programs Director
Travel Dates: January 8–17, 2016
Location and Description
Hong Kong is a global hub of research and development, with direct access to mega production sites across the border in mainland China. These features, along with strong government and educational initiatives, have lead to a surge in startups. In this seminar, students will explore state of the art research facilities at Hong Kong University of Science and Technology (HKUST), a government sponsored start up incubator, and a trip across the border to a manufacturing facility in mainland China. Students will also experience the cultural diversity and unique history that has led to an environment that supports entrepreneurship and business development.

France—Energy Research and Development in Universities and Industry
Professor: Professor Ulrike Tschirner, Department of Bioproducts and Biosystems Engineering
Instructor: Suzi Pyawasay, CSE Diversity Program Coordinator
Travel Dates: January 8–17, 2016
Location and Description
Access to renewable energy is one of the driving efforts of global research today. Join CSE faculty and staff in Montpellier, France to explore developments in energy production within the European research framework. Students will be introduced to the University of Minnesota study center in Montpellier, and the University of Montpellier. This program will also include a visit to Paris! French language background is not required to participate, but students will have the opportunity to practice French during the program.

Next Steps
• Talk with your family about adding one of these experiences to your freshmen year.
• Apply for a passport if you don’t already have one!
• Attend an information meeting at the start of Fall Semester!
• Once on campus for Fall Semester, final details will be shared with interested students and study abroad online applications will be available.
• Groups will have a limit of 25 students each, and applications will be reviewed on a rolling basis. Apply early if you are interested! Any program could fill at any time.
• Accepted participants will be required to confirm their place in the seminar with confirmation materials, a deposit of $400 billed through the student account system, and a passport copy by October 5, 2015.