Undergraduate Certificate in Global Engineering

The engineering profession has become one in which its practitioners need to be competent in developing systemic solutions with global impact. Whether your career aspirations involve small projects in developing communities, or mega-projects, it’s likely that you will be working in a multi-disciplinary and international context.

Completing the new Undergraduate Certificate in Global Engineering will help you to:

- expand your understanding of how to operate in an international context from an engineering perspective;
- acquire the capacity to work as part of an international team within an office located domestically or internationally; and,
- gain an appreciation of the economic, social, and cultural considerations that should be considered when working on engineering projects.

Work environments in the 21st century demand that you understand multi-national contexts as well as local office and non-governmental agency contexts.

Join us and make a difference in your future!

“This [global engineering] class is one of the best courses I have ever taken!”

- Engineering Student, spring 2013

Revised August 2015
Admission Requirements
To enroll in the Undergraduate Certificate in Global Engineering Certificate, you must:

- be admitted to the College of Engineering and Applied Science;
- have a minimum 2.50 cumulative GPA; and
- complete a certificate enrollment form and submit it to the program director, Dr. Diane Sieber in the Engineering Dean’s Office, or the program manager, Robyn Sandekian in ECOT 532.

Only students enrolled in Applied Mathematics, Engineering Physics, or a designated engineering degree program (Aerospace, Chemical, Civil, Electrical, Mechanical, etc.) are eligible to earn this certificate.

In addition, certificate students must complete all requirements for their respective engineering majors.

Upon Completion
Submit a completed and signed certificate advising form to the College of Engineering and Applied Science, front desk of the Dean’s office, at least one month prior to graduation. Completion of the certificate will be noted on your transcript.

For additional information, please contact:
Robyn Sandekian, MS, EdS, PhD student
Managing Director, Mortenson Center in Engineering for Developing Communities
Program Manager, Undergraduate Certificate in Global Engineering and Graduate Certificate in Engineering for Developing Communities
Robyn.Sandekian@colorado.edu
303-735-6708
mcedc.colorado.edu/education/undergraduate-certificate-global-engineering

Curriculum Requirements (15-18 credit hours)*
The Undergraduate Certificate in Global Engineering includes:

- one course in world language (at the 3rd or 4th-semester college level, minimum, depending on the student’s prior language coursework/ability);
- one course in communications, development, economics, or history:
  - COMM 1210 Perspectives on Human Communication
  - ECON 2020 Principles of Macroeconomics,
  - HIST 1800 Introduction to Global History
- two courses (one lower and one upper division) in international culture, sociology, or governance:
  - COMM 2400 Discourse, Culture and Identities
  - HUEN 2020 The Meaning of Information Technology,
  - HUEN 2843 Informatica Global
  - IAFS 1000 Global Issues and International Affairs,
  - LDSP 1000 Fundamentals of 21st Century Leadership, or
  - PSCI 2223 Introduction to International Relations,
  - and either
  - GEOG 3682 Geographies of International Development
  - GEOG 3742 Power, Place and Contemporary Culture, or
  - PSCI 3193 International Behavior; and
- one upper division technical elective course in global engineering
  - Example: CVEN 4147 Civil Engineering Systems

Students may petition to count other courses by contacting the program’s coordinator, Robyn Sandekian (Sandekian@colorado.edu) and providing a course description.

*Students are responsible for identifying and completing course prerequisites prior to enrolling in courses listed to meet certificate requirements.