Sample Engineering Courses: Fulfill Your Requirements AND Stay within Your Four Year Plan.

Please note: This is not an extensive list of options. To see all CIsabroad programs within this field refer to pages 127-134 of our catalog or cisabroad.com/STEM

CHEMICAL ENGINEERING
Semester at the University of Sydney
- Introduction to Chemical Engineering
- Material and Energy Transformations
- Energy and Fluid Systems Practice
- Molecular Reactivity & Spectroscopy
- Chemical & Biological Systems Behavior

Semester at the University of Melbourne
- Fluid mechanics
- Chemical process analysis
- Engineering risk analysis
- Engineering systems design 1
- Food processing and preservation

Semester in Linz
- Process Engineering Computation Methods
- Bioprocess Engineering 1
- Chemical Engineering Thermodynamics
- Sustainable Energy Processes
- Principles of Chemical Engineering
- Chemical Engineering Design Methods
- Chemistry for Engineers

Semester in South Africa
- Chemical Engineering Principles and Processes
- Extraction Processes
- Fluid Mechanics for Chemical Engineers
- Materials Engineering for Chemical Engineers
- Mass Transfer Operations
- Modeling and Optimization
- Reaction Engineering
- Thermodynamics

CIVIL ENGINEERING
Semester in Lima
- Concrete technology 1
- Emerging technologies
- Highway design
- Introduction to transport engineering
- Quality management

Semester at the University of Melbourne
- Earth processes for engineering
- Engineering project implementation
- Fluid mechanics
- Structural theory and design
- Systems modeling and design

Semester in Edinburgh
- Civil Engineering Materials
- Construction Engineering
- Engineering Communication
- Geotechnics 1 and 2
- Engineering Geology
- Principles of Civil Engineering
- Railway Engineering
- Structural Engineering
- Water Engineering

Semester in South Africa
- Basic Building Materials Practice
- Object Oriented Programming and Modeling
- Flow Theory and Pipe Flow
- Geotechnical Theories
- Open Channel Flow and Water Treatment
- Strength of Materials: Structural Analysis
- Strength of Materials: Stress Analysis
- Transport Science: Road Design

ELECTRICAL ENGINEERING
Semester in Dublin
- Circuits
- Digital and Analogue Electronics
- Electromagnetics
- Electromechanical Systems
- Industrial Electronics
- Signals
- Smartphone Application Development
- Solid State Electronics

Semester in South Africa
- Control Systems
- Digital signal processing
- Electromagnetics
- Electrical energy systems
- Electro-techniques
- Frequency domain techniques
- Introduction to Circuit Theory and Electrical Machines
- Signal theory
- Stochastic signals

Semester in Greece
- Automatic Control Systems
- Electronic Design
- Electric Energy Systems
- Electromagnetic Fields and Waves
- Signals and Systems
Although the work was challenging, it gave me a better outlook on my education and made me appreciate the opportunities that were available to me both overseas and in the states. It was great to meet people from different universities and different walks of life to see how everyone’s college experience was different. I tried new foods and experienced new things that I will never forget.”

Brittany W, Hampton University