



Requirements

- Full time enrollment at Simon's Rock for six semesters (four semesters for 2-1-1-1)
- Completion of both the foundational and major-specific prerequisite coursework
- 3.5 GPA overall and in pre-engineering coursework for preferred admission
- Favorable faculty recommendation letters from Prof. Mike Bergman (program co-ordinator), and a science and a math instructor
- Undergraduate thesis required for Dual Degree Program students
- Approved study abroad semester is possible

DUAL-DEGREE ENGINEERING PROGRAMS

FOR MORE
INFORMATION,
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Columbia University 3-2
Dartmouth College 3-2
and 2-1-1-1

THAYER SCHOOL OF ENGINEERING AT **DARTMOUTH COLLEGE**

3-2 Program:

- Three years at Simon's Rock
- Two years at Dartmouth
- Finish with an AA from Simon's Rock, a BA from Simon's Rock, and a BE from Dartmouth College

2-1-1-1 Program:

- Two years at Simon's Rock
- Junior year away at Dartmouth College
- Return to Simon's Rock for senior year
- Fifth year at Dartmouth
- Finish with an AA from Simon's Rock, a BA from Simon's Rock, and a BE from Dartmouth College

Sample courses at Dartmouth

- Introduction to Engineering
- Science of Materials
- Thermodynamics
- Control Theory
- Discrete and Probabilistic Systems
- Digital Electronics
- Solid Mechanics
- Fluid Dynamics
- Biotechnology and Biochemical Engineering
- Chemical Engineering
- Introduction to Environmental Engineering

For 2-1-1-1, some of the foundational courses can be taken at Dartmouth.

SCHOOL OF ENGINEERING AND APPLIED SCIENCE AT **COLUMBIA UNIVERSITY**

3-2 Program:

- Three years at Simon's Rock
- Two years at Columbia
- Finish with an AA from Simon's Rock, a BA from Simon's Rock, and a BS from Columbia

Engineering Majors at Columbia

- Applied Mathematics
- Applied Physics
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Environmental Engineering
- Financial Engineering
- Industrial Engineering
- Materials Science
- Mechanical Engineering
- Operations Research

Foundational Coursework

- Calculus I, II
- Linear Algebra
- Vector Calculus
- ODE's
- Physics I, II
- Quantum Physics
- Chemistry I, II
- Introduction to Computer Science
- Principles of Economics
- 24 humanities credits

Some engineering majors will substitute required coursework with classes such as Organic Chemistry or Discrete Math, and Algorithms and Data Structures when applicable.

