

# DUAL DEGREE PROGRAMS

## Engineering Dual Degree Program with Dartmouth College

Through a cooperative arrangement with the Thayer School of Engineering at Dartmouth College, students may earn both the Bachelor of Arts degree from Skidmore at the end of the fourth year and, at the end of the fifth year, the Bachelor of Engineering degree from Dartmouth. Normally, students spend their junior and fifth year at Dartmouth, returning to Skidmore in their senior year to finish their Bachelor of Arts degree requirements (2-1-1-1 option). In unusual circumstances, it may be possible to spend successive years at Dartmouth, beginning with the senior year (3+2 option; see the engineering coordinator for relevant details). In either case, some courses taken at Dartmouth may count toward major requirements at Skidmore.

An additional one or two years may lead to the Master of Engineering Management or the Master of Science degree from Dartmouth.

### Requirements

A student entering this combined program must have a GPA of at least 3.30 in science and mathematics. At the end of the fall semester of the sophomore year, the student shall apply to the Engineering Advisory Committee for nomination to the program, demonstrating that all prerequisites have been met or will be met by the completion of the sophomore year. The Engineering Advisory Committee will recommend to Dartmouth only those students who have met the requirements noted above, and who, in the estimation of the Committee, are likely to profit from the program.

The prerequisites for this program are two courses in general physics, mathematics courses through multivariable calculus, one course in general chemistry, and one course in computer science.

### Minimum Prerequisite Courses for Application to Dartmouth

Code	Title	Hours
MA 111	Calculus I	4
MA 113	Calculus II	4
MA 211	Calculus III	3
PY 130	Introductory Physics I with Laboratory: Forces and Energy	4
PY 140	Introductory Physics II with Laboratory: Electrodynamics	4
CH 125	Principles of Chemistry	4
CS 106	Introduction to Computer Science I	4

Careful planning is required to fulfill prerequisites as well as meet all college requirements. Consultation with the engineering coordinator should be initiated in the student's first semester at Skidmore.

For more information on Dartmouth's program, see <http://engineering.dartmouth.edu/academics/undergraduate/dual/>.

## Engineering Dual Degree Program with Rensselaer Polytechnic Institute

A cooperative agreement with Rensselaer Polytechnic Institute (RPI) allows students at Skidmore to obtain a Bachelor of Arts degree from Skidmore and a Bachelor of Science degree in engineering from RPI in five years of study, through either a 2-1-1-1 or a 3 + 2 option.

### Requirements

A student entering this cooperative program must major in biology, mathematics, computer science, chemistry, or physics, and must have a cumulative GPA of at least 3.30 in science and mathematics courses after the third semester of study. By March of the sophomore year, the student shall apply to the Engineering Advisory Committee for nomination to the program, demonstrating that all prerequisites have been met or will be met by the completion of the sophomore year. The Engineering Advisory Committee will recommend to RPI only those students who have met the requirements noted above, and who, in the estimation of the Committee, are likely to profit from the program.

The prerequisites for this program include two courses in calculus-based physics, mathematics courses through linear algebra and differential equations, one course in general chemistry, and at least 12 credits in the humanities and social sciences. Additional prerequisites specific to the different engineering majors at RPI also apply:

- **For biomedical engineering:** one semester of molecular biology and one semester of cell biology;
- **For environmental engineering:** one semester of introductory biology, one semester of organic chemistry;
- **For electrical engineering:** one semester of introductory computer science;
- **For chemical engineering:** two semesters of organic chemistry;
- **For computer and systems engineering:** two semesters of introductory computer science, one semester of discrete mathematics;
- **For industrial & management engineering:** one additional course in the natural sciences, introductory biology recommended;
- **For materials engineering:** one additional course in the natural sciences, introductory biology recommended.

Specific programs at RPI are only accessible from some Skidmore majors.

Careful planning is required to fulfill prerequisites as well as to meet all-college requirements. Consultation with the Engineering Coordinator should be initiated in the student's first semester at Skidmore.