Colgate

Engineering

Colgate offers two ways for students to prepare for careers in engineering: by majoring in physics and pursuing graduate school in engineering, or through a joint program between Colgate and affiliate engineering schools (3-2 engineering programs).

To allow students to combine education in the liberal arts with engineering training, Colgate has cooperative agreements with Columbia University, Rensselaer Polytechnic Institute, and Washington University in St. Louis. Students may spend three years at Colgate and two at the engineering school (the 3-2 plan) to earn bachelor's degrees from both institutions. Students may be eligible to continue study for a master of science (MS) degree, which can sometimes be completed in as little as one additional year after earning the bachelor's degree in engineering.

A pre-engineering adviser works closely with interested students on course selection and career plans.

Prerequisites for admission to engineering schools vary among schools and fields of study; therefore, it is necessary to indicate an interest in pre-engineering to the physics faculty as soon as possible.

The pre-engineering program lets the student get the best of both worlds: a broad liberal arts background followed by specific engineering training. In addition, some of the benefits of a liberal arts education can really put the student ahead once in an engineering job. The ability to write well and think critically, in particular, are skills that are often lacking in young engineers since the training for their disciplines needs to be so extensive.

- Kenneth Segall, associate professor of physics



RELATED COLGATE COURSES:

- Electronics
- Computational Mechanics
- · Electricity and Magnetism
- Introductory Quantum Mechanics
- Thermodynamics and Statistical Mechanics



ASHISH SHAH'10

Majors: Physics and mathematics

Current position: PhD candidate in mechanical engineering,

Columbia University

"I came to Colgate with an interest in physics and mathematics and I had the opportunity to take courses in various areas before I had to decide on these majors. My academic experience at Colgate was greatly enhanced by the various research opportunities I had, working under the very close guidance of professors. This experience is proving to be very helpful as I continue my graduate studies in mechanical engineering."

Colgate

OFFICE OF ADMISSION

13 Oak Drive Hamilton, New York 13346 315-228-7401 fax: 315-228-7544 admission@colgate.edu www.colgate.edu