

Engineering

Colorado College has cooperative programs in Engineering (3-2 and 4-2 years) with Columbia University, Rensselaer Polytechnic Institute, The University of Southern California, and Washington University (in St. Louis, Missouri). These cooperative programs lead to a Bachelor of Arts (B.A.) degree from Colorado College and a Bachelor of Science (B.S.) or Masters degree from one of the four engineering schools. The 3-2/4-2 programs offer an education that is increasingly valuable, as engineers progressively deal with more complex societal and environmental issues as well as the technical ones.

Under the 3-2 program, a student attends Colorado College for three years, then transfers to one of the four engineering schools for two additional years. At the end of the process, assuming satisfactory completion of all requirements, she or he receives both degrees (B.A. and B.S.). Under the 4-2 program, a student attends Colorado College for four years, completes the B.A. degree in the normal time, and then transfers to the engineering school for two additional years. There, she or he earns the B.S. (Bachelor of Science) degree or possibly the M.S. (Master of Science) degree.

Both programs have advantages. The advantage of the 3-2 program is that it requires less time to complete. The advantage of the 4-2 program is that it allows a student more time to decide if she or he is interested in pursuing the program and allows for course flexibility within the four years spent at Colorado College. Both options provide a unique educational experience that allows students to reach their full potential in the program of their interest. Students' preference of the programs varies. However, students at Colorado College have used both options in the past and either option is satisfactory to both Colorado College and the engineering schools.

Financial Aid

Students interested in receiving financial aid in the 3-2 and 4-2 B.A./B.S. programs are required to reapply for financial aid at the engineering school. In the case of the 3-2 program, no degree is yet granted at Colorado College and the aid should be considered under an undergraduate model. In the 4-2 program, students requesting aid are able to receive undergraduate consideration if they do not technically receive their B.A. degree until completion of the engineering program. After completing their work at the engineering school, students would then receive both the B.A. and the B.S. degrees, similar to the 3-2 program.

Under the 4-2 B.A./M.S. program students interested in receiving financial aid at the school of engineering receive their B.A. at Colorado College and then their aid will be determined under a graduate student model.

Requirements

Colorado College degree requirements

In order to obtain a B.A. from CC, a student must fulfill all the requirements of the college. These include completing a major, the distribution requirements (see the Colorado College Bulletin), and 32 units of credit. Normally the major and distribution requirements should be completed before a student leaves Colorado College because there are very few opportunities to take courses, other than engineering courses, during the final two years spent at the engineering schools. Under the 3-2 program, the requirement for 32 units of academic credit are satisfied by transferring engineering course credits taken at the engineering school back to Colorado College. It is also possible to make up deficiencies at an accredited summer school.

Engineering School Prerequisites

These requirements vary slightly from school to school, but, in general, in order to be accepted for admission into one of the cooperative programs, a student must have adequately completed the following while at Colorado College:

- Four to five blocks of Mathematics, through differential equations
- One block of digital computing
- Three blocks of calculus based Physics
- Two blocks of Chemistry

There is no graduate school entrance exam required. With the four engineering schools that have established agreements with Colorado College students are guaranteed admission by completing the credits required, as well as maintaining a minimum 3.0 GPA. If a student does not attain a 3.0 GPA she or he is evaluated on a case-by-case basis at each engineering school during the admissions process. In addition, students may transfer to any school of engineering and Colorado College will still grant them a B.A. degree upon completion of the program. In this case, students who apply outside the four-school agreement are not guaranteed admission, but are evaluated on a case-by-case basis.

For more information, please contact:

**Colorado College Physics Department
14 East Cache La Poudre Street
Colorado Springs, CO 80903
719-389-6577
FAX: 719-389-6322
physics@ColoradoCollege.edu**