The biomedical engineering minor is open to undergraduate students rostered in the College of Engineering and Applied Science who are interested in an exciting, multidisciplinary field that lies at the interface of medicine, biology and engineering.

Already, there are many approved products and applications of the biomedical engineering field. These include pharmaceutical drugs, prosthetics (replacement limbs and stents) and bioprosthetics (e.g., heart valve replacements), drug delivery and other implantable devices, and medical imaging techniques (X-ray, CT, MRI and fluoroscopy).

Current research in the biomedical engineering field is focusing on the use of biologics and genetically modified organisms for the treatment of cell- and gene-based diseases. Because of its diverse nature, the biomedical engineering field will continue to call upon individuals with backgrounds in computer science and mechanical, chemical and electrical engineering.

For more information, visit the college’s Minor in Biomedical Engineering (http://www.colorado.edu/engineering/minor-biomedical-engineering) webpage.

Requirements

Students must complete 18 credits (6 courses) for the minor:

- BMEN 2000 Introduction to Biomedical Engineering (3 credits)
- Five elective courses (15 credits)

At least four of the five elective courses (see a complete listing of elective courses on the Minor in Biomedical Engineering (http://www.colorado.edu/engineering/minor-biomedical-engineering) webpage) must be upper division (3000-level or higher). One course can be petitioned to come from outside engineering with preapproval, relevant independent study coursework can be petitioned, and 5000-level courses are allowed where undergraduate students are eligible to enroll.

Prior coursework may be transferred from other institutions with approval. At least three courses need to be taken on the CU Boulder campus. At least two of these three courses have to be at the upper division. Two of the six courses for the minor may not be applied toward BS degree requirements.