Minor in Biomedical Engineering

Plan of Study

School of Engineering

2006-2007

Minor in Biomedical Engineering
Biomedical engineers apply engineering methods, science and technology to problems in medicine and biology. Biomedical Engineering is a growing field that will continue to have a significant impact on health care. In fact, many feel that biomedical engineering will be the technological area with the most impact on peoples lives in the 21st century. A minor in Biomedical engineering is offered for students at the University of Connecticut who wish to expand their knowledge in the field.

Biomedical engineering involves learning about biology in new ways and developing new tools to diagnose and treat disease and to repair or replace diseased organs. Many students select biomedical engineering to be of service to people and for the excitement of working in a health field. Additionally, biomedical engineering provides excellent preparation for entrance into medical school.

Biomedical engineering is interdisciplinary; that is, biomedical engineers often work with other medical health care professionals as members of a team. Exciting advances in medicine, such as the artificial hearts, pacemakers, medical imaging techniques, lasers, prosthetic implants, life support systems, and devices that help the paralyzed walk, have been the result of team efforts by biomedical engineers and other professionals. In addition, bioengineers have developed new processes for manufacturing products for the pharmaceutical and biotechnology industries, an example being humulin, or human insulin, the first product based on recombinant DNA technology.

Requirements. The following five courses are necessary to fulfill requirements of the Biomedical engineering minor.

1. Introduction to Biomedical Engineering (BME 211, 3 credits)
2. Biochemical Engineering (BME 221, 3 credits) or Introduction to Biochemical Engineering (CHEG 273)
3. Biomedical Engineering Measurements (BME 252, 4 credits)
4. Biomechanics (BME 261W, 4 credits)
5. Biomaterials (BME 271, 4 credits)

Students are strongly advised to ensure that all appropriate prerequisites are met prior to taking each of the required courses.
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Minor Requirements – Audit Check List 2006-2007

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Instructions to Students: When you are preparing your final plan of study, you must obtain approval from both the Head of your Department and the Biomedical Engineering Program Director. Submit the original of this form with your final plan of study to the Registrar, give one copy to your advisor, and keep one copy for your records.

Name of Student: _________________________________________

Student’s Social Security Number: ____________________________

I approve the above program for the Minor in Biomedical Engineering

Dept. Head  Biomedical Engineering Program Director

3/17/06