



## Minor in Biomedical Engineering Plan of Study School of Engineering 2009-2010

### 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 21<sup>st</sup> 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.

- Physiological Modeling - BME 3100, 3 credits
- Biochemical Engineering - BME 3300, 3 credits or Introduction to Biochemical Engineering - CHEG 3173, 3 credits
- Biomedical Engineering Measurements - BME 3500, 4 credits
- Biomechanics - BME 3600W, 4 credits
- Biomaterials - BME 3700, 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 2009-2010

Course Requirements

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- Biomaterials - BME 3700, 4 credits

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 \_\_\_\_\_

Peoplesoft Number \_\_\_\_\_

I approve the above program for the Minor in Biomedical Engineering:

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BME Program Director

Date

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Department Head

Date