

The Ohio State University  
College of Engineering

**Biomedical Engineering Minor (Biomed E, 078)**

Biomedical Engineering Department, Melanie Senitko  
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Columbus, OH 43210-1002; 614-292-7152  
<http://www.bme.ohio-state.edu>

The minor is designed to provide undergraduate students education and problem solving skills in biomedical engineering and its applications to better prepare them for jobs in industry, or advanced studies and research in this field. It is anticipated that students taking the minor will be more employable in health services, pharmaceutical industries, rehabilitation engineering, biomedical product companies, and many relatively new high-tech industries such as those developing and manufacturing bio-microelectromechanical systems.

The biomedical engineering minor consists of 20 credit hours of course work as listed below. You are responsible for taking the prerequisites for each course. If you are interested in this minor, you will contact the biomedical engineering minor adviser (Ms. Senitko) and propose a plan for your minor program. Next, you must obtain your adviser's signature on the Minor Program Form and return to BME for the signed approval of the minor faculty adviser. You must file the signed form with your college or school counselor.

For further information about the minor program, contact the Biomedical Engineering Department.

**Required core courses (8 credit hours)**

Evolution, Ecology, and Organismal Biology 232 (5); prereq: 5 cr hrs of general biology or general chemistry (Biology 113 recommended)

OR

Physiology and Cell Biology 311 (5); prereq: 2 qtrs chem.; anatomy 199 or 200 or equiv recommended; or permission of instructor

AND

Biomedical Engineering 500 (3); prereq: EEOB 232 or PhysioCB 311 or equiv; and Mech Eng 410, or equiv.

**Elective course work (12 credit hours)**

Biomedical Engineering 631 (3); prereq: ME 410; ME 420; and EEOB 232 or PhysioCB 601; or permission of instructor  
Biomedical Engineering 701; Prereq or concurrent BME 500; or grad standing in engineering, medicine, or science; or permission of instructor

Biomedical Engineering 721 (3); prereq: Math 255 or 415; Chem 125 or equiv; ME 500 or equiv; BME 500 or graduate standing; or permission of instructor

Biomedical Engineering 732 (3); BME 631 or permission of instructor

Biomedical Engineering 733 (3); BME 631 or permission of instructor

Biomedical Engineering 739 (3); Chem 125 or equiv; Chem 231 or equiv; BME 500 or grad standing; or permission of instructor

Biomedical Engineering 741 (3); Prereq or concurrent BME 500 or 600; ME 410; EEOB 232 or PhysioCB 311 or 601; or permission of instructor

Biomedical Engineering 761 (3); BME 500; or graduate standing in engineering, medicine, or science; or permission of instructor

Biomedical Engineering 762 (3); BME 400 or 500 or 600 or permission of instructor

Biomedical Engineering 771 (4); prereq: BME 500 or 600; EEOB 232 or PhysioCB 311 or PhysioCB 601; EE 300 or equiv; or permission of instructor

**Biomedical Engineering minor program guidelines**

The following guidelines govern this minor.

Required for graduation No

Credit hours required A minimum of 20

Transfer credit hours allowed A maximum of 10

Overlap with the GEC Permitted, unless specifically disallowed by an individual minor program.

Overlap with the major Not allowed and

- The minor must be in a different subject than the major.
- The same courses cannot count on the minor and on the major.

Overlap between minors Each minor completed must contain 20 unique hours.

Grades required

- Engineering students can have a grade lower than C- in a course, as long as they maintain a minimum 2.00 overall CPHR for courses comprising this minor.
- Minimum 2.00 cumulative point-hour ratio required for the minor.
- Course work graded Pass/Non-Pass cannot count on the minor.

Approval required The minor program description sheet indicates if the minor course work must be approved by:

- The academic unit offering the minor, or
- A college/school counselor.

Filing the minor program form The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

Changing the minor Once the minor program is filed in the college office, any changes must be approved by:

- The academic unit offering the minor, or
- A college/school counselor (depending on the minor).