BIOMEDICAL ENGINEERING, MINOR

Saint Louis University’s minor in biomedical engineering allows students to see how the biological and medical sciences can intersect with engineering to improve patient quality of life. They also have an opportunity to see firsthand how interdisciplinary the field of biomedical engineering is and the role that their primary major can play in the development of medical technologies. The minor also provides occupational awareness to students who may not know how medical technologies are created or what job opportunities are available in the field.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BME 2200</td>
<td>Applied Physiology for Engineers</td>
<td>3</td>
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<tr>
<td>or PPY 2540</td>
<td>Human Physiology</td>
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Basic Physiology

Basic Biomedical Engineering Courses

Select a maximum of 2 courses from the following: 0-6

- BME 2000 Biomedical Engineering Computing
- BME 3100 Signals
- BME 3150 Biomedical Instrumentation
- BME 3200 Mechanics
- BME 3300 Transport Fundamentals
- BME 3400 Materials Science

Advanced Biomedical Engineering Courses

Select a minimum of 3 courses and a maximum of 5 courses from the following: 9-15

- BME 4100 Biomedical Signals
- BME 4130 Medical Imaging
- BME 4150 Brain Computer Interface
- BME 4200 Biomechanics
- BME 4210 Human Movement Biomechanics
- BME 4300 Biotransport
- BME 4320 Drug Delivery
- BME 4400 Biomaterials
- BME 4410 Tissue Engineering
- BME 4430 Regenerative Engineering
- BME 4600 Quantitative Physiology I
- BME 4650 Quantitative Physiology II

Total Credits 18

Continuation Standards

- The grades in all BME minor courses must be C- or better.
- Students must maintain a minimum 2.00 GPA.

To initiate a minor in biomedical engineering, a student must file a ‘Minor in BME’ plan with the Department of Biomedical Engineering after meeting with a BME faculty member to discuss the minor courses and their prerequisites. The ‘Minor in BME’ form serves as a planning tool and will be on file in the BME department and with the student’s academic advisor in the major area. The completion of a minor in BME must be certified by the chair of the BME program coordinator as part of the graduation check.