M.S. in Biomedical Engineering

The M.S. program will include:

- 24 credit hours of core biomedical engineering courses
- 3 credit hours of technical electives
- 3 credit hours of seminars
- 6 thesis credit hours

Applicants from countries where English is not the first language are required to demonstrate English proficiency. Please consult the graduate school website for required scores.

Degree Plan

Required Credits: 36

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS in Biomedical Engineering (All courses require a grade of C or better)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Required Courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME 5101</td>
<td>Research Seminar I</td>
<td>2</td>
</tr>
<tr>
<td>&amp; BME 5102</td>
<td>and Research Seminar II</td>
<td></td>
</tr>
<tr>
<td>BIOL 6304</td>
<td>Physiological Regulatory Mech</td>
<td>3</td>
</tr>
<tr>
<td>BME 5192</td>
<td>Clinical Rotations for Eng</td>
<td>1</td>
</tr>
<tr>
<td>BME 5196</td>
<td>Medical Device Practicum</td>
<td>1</td>
</tr>
<tr>
<td>BME 5301</td>
<td>BME for Global Health</td>
<td>3</td>
</tr>
<tr>
<td>BME 5302</td>
<td>Telemedicine &amp; Imaging Info.</td>
<td>3</td>
</tr>
<tr>
<td>BME 5303</td>
<td>Research &amp; Lab Methods</td>
<td>3</td>
</tr>
<tr>
<td>BME 5304</td>
<td>BME Device Design &amp; Regulation</td>
<td>3</td>
</tr>
<tr>
<td>DRSC 5495</td>
<td>Anatomy for Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 5314</td>
<td>Corporate Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>BME 5193</td>
<td>Graduate Clinical Research</td>
<td>1</td>
</tr>
</tbody>
</table>

Thesis/Non-Thesis Option:

Select one sequence below:

**Thesis Option:**

- BME 5398 Thesis
- & BME 5399 and Thesis

Select three additional hours of graduate work

**Non-Thesis Option:**

- BME 5394 Graduate Research
- or BME 5395 Project or Internship

An exit examination is required for the non-thesis option; thesis defense is required for the thesis option.

Select six additional hours from one of the following tracks

Total Hours 36

Tracks

**Biomedical Devices Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 5350</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BME 5351</td>
<td>Physiological Measurements</td>
<td>3</td>
</tr>
<tr>
<td>BME 5353</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 9
### Regenerative Medicine Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 5310</td>
<td>Biomaterials</td>
<td>3</td>
</tr>
<tr>
<td>BME 5312</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BME 5313</td>
<td>Tissue Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 9

### Rehabilitation Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 5320</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BME 5321</td>
<td>Biomechatronics</td>
<td>3</td>
</tr>
<tr>
<td>BME 5323</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 9