## MS ENGINEERING, SPECIALIZATION IN BIOENGINEERING

NOTE: Applications to the Bioengineering Specialization are not currently being accepted. Contact the College of Engineering for further information.

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 551</td>
<td>Advanced Topics in Bioengineering</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 581</td>
<td>Biochemical Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 599</td>
<td>Design Project (Thesis)</td>
<td>9</td>
</tr>
<tr>
<td>MATE 530</td>
<td>Biomaterials</td>
<td>4</td>
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</tbody>
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Select from the following: 12

- CSC 471: Introduction to Computer Graphics
- CSC 473: Advanced Rendering Techniques
- CSC 474: Computer Animation
- ENGR 451: Special Topics in Bioengineering
- ENVE 443: Bioremediation Engineering
- ENVE 536: Biological Wastewater Treatment Engineering
- IME 507: Graduate Seminar
- MATE 425: Corrosion Engineering
- ME 401: Stress Analysis
- ME 504: Finite Element Analysis
- ME 552: Advanced Heat Transfer I
- ME 553: Advanced Heat Transfer II
- ME 554: Computational Heat Transfer
- ME 556: Advanced Heat Transfer III
- STAT 419: Applied Multivariate Statistics
- STAT 511: Statistical Methods
- STAT 542: Statistical Methods for Engineers

### Approved Engineering Electives

<table>
<thead>
<tr>
<th>Electives</th>
<th>Units</th>
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<tbody>
<tr>
<td></td>
<td>12</td>
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Total units: 45