# Biomedical Engineering (MS)

## Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Core Courses</strong></td>
<td>27</td>
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<tr>
<td>BME 501</td>
<td>Biomedical Innovation and Entrepreneurship I - Needs Discovery</td>
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<tr>
<td>BME 502</td>
<td>Biomedical Innovation and Entrepreneurship II - Design and Regulation</td>
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<tr>
<td>MBA 576</td>
<td>Technology Entrepreneurship and Commercialization I</td>
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<tr>
<td>BME 551</td>
<td>Medical Device Design</td>
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<td>BEC 575</td>
<td>Global Regulatory Affairs for Medical Products</td>
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<tr>
<td>BME 503</td>
<td>Biomedical Innovation and Entrepreneurship III - Product Development</td>
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<tr>
<td>MBA 577</td>
<td>Technology Entrepreneurship and Commercialization II</td>
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<td>MBA 572</td>
<td>Venture Opportunity Analytics</td>
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<td><strong>BME Technology Elective</strong></td>
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<td>Select one of the following courses:</td>
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<tr>
<td>BME 525</td>
<td>Bioelectricity</td>
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<tr>
<td>BME 540</td>
<td>Nanobiotechnology Processing, Characterization, and Applications</td>
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<td>BME 544</td>
<td>Orthopaedic Biomechanics</td>
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<td>BME 560</td>
<td>Medical Imaging: X-ray, CT, and Nuclear Medicine Systems</td>
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<td>BME 583</td>
<td>Tissue Engineering Technologies</td>
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<td>BME 584</td>
<td>Fundamentals of Tissue Engineering</td>
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<td>BME 790</td>
<td>Advanced Special Topics in Biomedical Engineering</td>
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<tr>
<td>BME 590</td>
<td>Special Topics in Biomedical Engineering</td>
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<td><strong>Total Hours</strong></td>
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</table>

## Faculty

### Full Professors
- Ke Cheng
- Paul A. Dayton
- Shawn Gomez
- Edward Grant
- He (Helen) Huang
- Frances Smith Ligler
- H. Troy Nagle Jr.
- Roger Jagdish Narayan
- J. Michael Ramsey
- Koji Sode

### Associate Professors
- Ted Bateman
- Robert G. Dennis
- Caterina M. Gallippi
- Michael Gamcsik
- Derek Gary Kamper
- David S. Lalush
- Jeffrey M. Macdonald
- Scott Magness
- Gianmarco Francesco Pinton
- Nitin Sharma
- Mark A. Tommerdahl
- David Alexander Zaharoff

### Assistant Professors
- Soumya Rahima Benhabbour
- Ashley Carson Brown
- Yevgeny Brudno
- Jacqueline Heather Cole-Husseini
- Michael Daniele
- Brian Diekman
- Matthew Bruce Fisher
- Jason Franz
- Donald (Danny) Freytes
- Andrea Giovannucci
- Xiaogang Hu
- Alon Greenbaum
- Wesley Legant
- Imran Rizvi
- Michael Sano

### Practice/Research/Teaching Professors
- Lianne A. Cartee
- Kenneth Donnelly
- Oleg V. Favorov
Richard L. Goldberg
Devin Hubbard
Naji Hussein
George Todd Ligler
Hatice Orun Ozturk
Ross Petrella
Anka Veleva