# Biomedical Engineering (MS): Translation Innovation and Entrepreneurship Concentration

## Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 501</td>
<td>Biomedical Innovation and Entrepreneurship I - Needs Discovery</td>
<td></td>
<td>27</td>
</tr>
<tr>
<td>BME 502</td>
<td>Biomedical Innovation and Entrepreneurship II - Design and Regulation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBA 576</td>
<td>Technology Entrepreneurship and Commercialization I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME 551</td>
<td>Medical Device Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BEC 575</td>
<td>Global Regulatory Affairs for Medical Products</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME 503</td>
<td>Biomedical Innovation and Entrepreneurship III - Product Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBA 577</td>
<td>Technology Entrepreneurship and Commercialization II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBA 572</td>
<td>Venture Opportunity Analytics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME 525</td>
<td>Bioelectricity</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BME 540</td>
<td>Nanobiotechnology Processing, Characterization, and Applications</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 544</td>
<td>Orthopaedic Biomechanics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME 560</td>
<td>Medical Imaging: X-ray, CT, and Nuclear Medicine Systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME 583</td>
<td>Tissue Engineering Technologies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME 584</td>
<td>Fundamentals of Tissue Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME 790</td>
<td>Advanced Special Topics in Biomedical Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME 590</td>
<td>Special Topics in Biomedical Engineering</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours:** 30

## Faculty

### Full Professors

- Ke Cheng
- Paul A. Dayton
- Caterina M. Gallippi
- 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
- Jacqueline Heather Cole-Husseini
- Michael Daniele
- Robert G. Dennis
- Matthew Bruce Fisher
- 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
Imran Rizvi
Soumya Rahima Benhabbour
Ashley Carson Brown
Yevgeny Brudno
Brian Diekman
Jason Franz
Donald (Danny) Freytes
Andrea Giovannucci
Xiaogang Hu
Alon Greenbaum
Kennita Adrian Johnson
Wesley Legant
Imran Rizvi
Michael Sano

Practice/Research/Teaching Professors
Lianne A. Cartee
Kenneth Donnelly
Oleg V. Favorov
Devin Hubbard
Naji Hussein
George Todd Ligler
Ross Petrella
Anka Veleva