# Master of Engineering in Bioengineering

## Track: Biomedical Product Design and Development

Track Co-Directors: Lisa Friis, Ph.D. (lfriis@ku.edu) and Sara Wilson, Ph.D. (sewilson@ku.edu)

### Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPE 756</td>
<td>3</td>
<td>Intro to Bioengineering - replaced with breadth course</td>
</tr>
<tr>
<td>BIOE 800</td>
<td></td>
<td>Bioengineering Colloquium (.5) (2 total hours req)</td>
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<tr>
<td>BIOE 801</td>
<td></td>
<td>Responsible Conduct of Research in Engineering (1)</td>
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</tbody>
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### Depth

9 hours required

1. **Fundamental Courses (6 credits)**
   - ME 765 Biomaterials (3)
   - **AND**
     - ME 760 Biomedical Product Design (3)

2. **Design (3 credits)**
   - ME 696 Design for Manufacturability (3)
   - ME 767 Molecular Biomimetics (3)
   - ME 790 Bioadditive Manufacturing (3)
   - ME 790 Biomedical Microdevices (3)
   - CPE 715 Drug Delivery (3)
   - CPE 715 Polymer Science & Technology (3)
   - AE 709 Structural Composites (3)
   - CE 710 Structural Mechanics (3)
   - EECS 644 Intro to Digital Signal Processing (3)
   - EECS 721 Antennas (3)
   - EECS 728 Fiber-Optic Measurement & Sensors (3)
   - EECS 739 Parallel Scientific Computing (3)
   - EECS 741 Computer Vision (3)
   - or other Design course(s) as approved by committee

### Breadth

18 hours minimum

Choose appropriate courses from the Master Breadth Course List.

1. Math, Statistics, Numerical Methods (1 course minimum)
2. Advanced Engineering (700 or above) (1 course minimum)
3. Sciences (1 course minimum)
4. Management & Business (0 required, 1 course max)

**Minimum Hours Required for Degree:** 30

No more than 3 classes may be taken at the 500-600 level and counted towards the graduate degree.