

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 | 3 hours required |
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| CPE 756 | Intro to Bioengineering - replaced with breadth course |
| BIOE 800 | Bioengineering Colloquium (.5) (2 total hours req) |
| BIOE 801 | Responsible Conduct of Research in Engineering (1) |

| DEPTH | 9 hours required |
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| 1. Fundamental Courses (6 credits) | |
| ME 765 | Biomaterials (3) |
| AND | |
| ME 760 | Biomedical Product Design (3) |
| 3. 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) |
| | <i>or other Design course(s) as approved by committee</i> |

| BREADTH | 18 hours minimum |
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| <i>Choose appropriate courses from the Master Breadth Course List.</i> | |
| 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.