

Master of Science in Bioengineering

Track: Biomedical Product Design and Development

Students entering SP20 to present

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	<i>Intro to Bioengineering - replaced with breadth course</i>
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 Development (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)

or other Design course(s) as approved by committee

BREADTH	12 hours minimum
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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)

RESEARCH	6 hours minimum
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BIOE 899 Independent Investigation (Thesis)

These hours are taken under your advisor/committee chair.

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.