

Doctor of Philosophy in Bioengineering
Track: Biomedical Product Design and Development

Students entering FA14 to present

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

CORE	6 hours required
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CPE 756	Intro to Bioengineering (3)
BIOE 800	Bioengineering Colloquium (.5) (2 total hours req)
BIOE 801	Responsible Conduct of Research in Engineering (1)

DEPTH	16 hours required
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1. Courses required for track (3 courses minimum)

ME 765	Biomaterials (3)
ME 760	Biomedical Product Design (3)
BIOE 802	Internship or Clinical Preceptorship (3)

2. Statistics (1 course minimum)

Choose appropriate courses with advisor from master list.

3. Design (1 course minimum)

Choose appropriate courses with advisor from the following list:

ME 696	Design for Manufacturability (3)
ME 796	Systems Design and Analysis (3-5)
ME 708	Microcontroller Applications (2-3)
ME 808	Advanced Microprocessor Applications (3)
EECS 747	Mobile Robotics (3)
AE 721/722	Aircraft Design Lab I&II (4)
EECS 721	Antennas (3)

or other Design course(s) as approved by committee

4. Technology Evaluation Elective (1 course/experience minimum, 1 cr hour)

Choose appropriate courses with advisor from the following list:

ENTR 750	New Venture Creation (4)
BIOE 860	Advanced Engineering Problems - Technology Evaluation (1)

or other Technology Evaluation experience as approved by the track director

BREADTH	20 hours minimum
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Choose appropriate courses from the Master Breadth Course List in the following categories.

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

ENTR 750 New Venture Creation / Business Plan Development (4) - if Tech Eval, 3 hours could count as breadth
or any upper level business courses as approved by committee

RESEARCH	18 hours minimum - 24 hours maximum
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BIOE 999	Independent Investigation (Dissertation)
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These hours are taken under your advisor/committee chair.

MINIMUM HOURS REQUIRED FOR DEGREE: 60