KU BIOENGINEERING GRADUATE PROGRAM
The University of Kansas

# Doctor of Philosophy in Bioengineering
## Track: Biomechanics & Neural Engineering

**Students entering FA15 to present**

*Track Co-Director: Jessie Huisinga, Ph.D. (jhuisinga@kumc.edu) and Suzanne Shontz, Ph.D (shontz@ku.edu)*

| CORE | 6 hours required |
|---|---|
| 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 | 15 hours required |
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| Biomechanics (5 courses minimum) | |
| | *Choose appropriate courses with advisor from the following list:* |
| ME 633 | Basic Biomechanics (3) |
| ME 722 | Modeling Dynamics of Mechanical Systems (3) |
| ME 750 | Biomechanics of Human Motion (3) |
| *ME 751* | Exp. Methods in Biomechanics (3) |
| *ME 753* | Bone Biomechanics (3) |
| *ME 754* | Biomedical Optics (3) |
| *ME 756* | Biofluids (3) |
| *ME 757* | Biomechanical Systems (3) |
| *ME 758* | Physiological System Dynamics (3) |
| *ME 760* | Biomedical Product Design (3) |
| *ME 765* | Biomaterials (3) |
| *ME 854* | Continuum Mechanics for Soft Tissues (3) |
| *CPE 752* | Tissue Engineering (3) |

| BREADTH | 18 hours minimum |
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| | *Choose appropriate courses from the Master Breadth Course List.* |

1. Advanced Engineering (700 or above) (1 course minimum)
2. Life Sciences (1 course minimum)
3. Math, Statistics, Numerical Methods (1 course minimum)

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

**MINIMUM HOURS REQUIRED FOR DEGREE: 60**