KU BIOENGINEERING GRADUATE PROGRAM
The University of Kansas

Doctor of Philosophy in Bioengineering
Track: Biomaterials & Tissue Engineering

Students entering SP20 to present

Track Director: Candan Tamerler, Ph.D. (ctamerler@ku.edu)

CORE	6 hours required
C&PE 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
1. Advanced Engineering (3 course min)	
ME 765	Biomaterials (3)
ME 767	Molecular Biomimetics (3)
ME 854	Continuum Mechanics of Soft Tissues (3)
ME 990	Advanced Biomaterials (3)
C&PE 715	Drug Delivery (3)
C&PE 757	Polymer Science & Technology (3)
C&PE 751	Basic Rheology (3)
C&PE 752	Tissue Engineering (3)
ME 790	Biomedical Microdevices (3)
2. Advanced Biological Sciences (1 course min)	
ANAT 845 / BIOL 560	Histology (3)
MICR 808 / BIOL 503	Immunology (3)
MICR 825 / BIOL 512	Virology (3)
BIOL 612	Fundamentals of Microbiology (3)
BIOL 546	Mammalian Physiology (4)
BIOL 752	Cell Biology (3)
PHCH 860	Principles & Practice of Chemical Biology (3)

BREADTH	15 hours minimum
1. Math; Statistics; Numerical Methods (1 course min)	
2. Sciences (1 course min)	
3. Advanced Engineering (1 course min)	

RESEARCH	18 hours minimum - 24 hours maximum
BIOE 999	Independent Investigation (Dissertation)

These hours are taken under your advisor/committee chair.

MINIMUM HOURS REQUIRED FOR DEGREE: 60

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