KU BIOENGINEERING GRADUATE PROGRAM
The University of Kansas

Doctor of Philosophy in Bioengineering
Track: Biomolecular Engineering

Students entering SP20 to present

Track Director: Prajna Dhar, Ph.D. (prajnadhar@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 / Pharmaceuticals (2 courses min)	
C&PE 701	Numerical Methods (3)
C&PE 715	Drug Delivery (3)
C&PE 757	Polymer Science & Technology (3)
C&PE 731	Transport Phenomenon (3)
C&PE 732	Advanced Transport Phenomena (3)
C&PE 751	Basic Rheology (3)
ME 767	Molecular Biomimetics (3)
ME 790	Biomedical Microdevices (3)
PHCH 730/731	Biopharmaceuticals & Pharmacokinetics (3)
PHCH 862/863	Pharmaceutical Equilibruium (3)
PHCH 870	Advanced Pharmaceutical Biotechnology (4)
2. Advanced Biological Sciences (1 course min)	
PHCH 860	Principles & Practice of Chemical Biology (3)
CHEM 760	Intro to Chemistry in Biology (3)
MDCM 701	Biomedicinal Chemistry (3)
ANAT 845 / BIOL 560	Histology (3)
MICR 808 / BIOL 503	Immunology (3)
MICR 825 / BIOL 512	Virology (3)
BIOL 752	Cell Biology (3)
BIOL 807	Graduate Molecular Biosciences (6)
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.