

KU BIOENGINEERING
GRADUATE PROGRAM
The University of Kansas

Doctor of Philosophy in Bioengineering
Track: Biomolecular Engineering

Students entering SP17 to present

Track Director: Prajna Dhar, Ph.D. (prajnadhar@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
1. Advanced Engineering / Pharmaceuticals (2 courses min)	
CPE 701	Numerical Methods (3)
CPE 715	Drug Delivery (3)
CPE 715	Polymer Science & Technology (3)
CPE 731	Transport Phenomenon (3)
CPE 732	Advanced Transport Phenomena (3)
CPE 751	Basic Rheology (3)
ME 767	Molecular Biomimetics (3)
ME 790	Biomedical Microdevices (3)
PHCH 730/731	Biopharmaceuticals & Pharmacokinetics (3)
PHCH 862/863	Pharmaceutical Equilibrium (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	Biomedical 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
<i>Choose appropriate courses with advisor from master list in the following categories:</i>	
1. Statistics (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