

KU BIOENGINEERING
GRADUATE PROGRAM
The University of Kansas

Doctor of Philosophy in Bioengineering

Track: Bioimaging

Students entering SP2020 to present

Track Director: Xinmai Yang, Ph.D. (xmyang@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	9 hours minimum

Choose appropriate courses with advisor from the following list:

PHSL 801-8	Anatomy and Physiology (1-4)
PHSL 848	Fundamentals of Biomedical Imaging (3)
ME 752	Acoustics
ME 754	Biomedical Optics
ME 758	Physiological Systems
EECS 639	Introduction to Scientific Computing (3)
EECS 721	RF Engineering/Antennas (3)
EECS 739	Parallel Scientific Computing (3)
EECS 739	Introduction to Data Science (3)
EECS 740	Digital Image Processing (3)
EECS 744	Digital Signal Processing (3)
EECS 781	Numerical Analysis I (3)
EECS 782	Numerical Analysis II (3)
EECS 868	Mathematical Optimization with Applications (3)
EECS 869	Information Theory and Coding (3)
C&PE 778	Applied Optimization Techniques (3)
BIOL 943	Multivariate Data Analysis (3)

BREADTH	21 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.