

**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
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	9 hours minimum
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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
<a href="#">EECS 639</a>	<a href="#">Introduction to Scientific Computing (3)</a>
EECS 721	RF Engineering/Antennas (3)
<a href="#">EECS 739</a>	<a href="#">Parallel Scientific Computing (3)</a>
<a href="#">EECS 739</a>	<a href="#">Introduction to Data Science (3)</a>
EECS 740	Digital Image Processing (3)
EECS 744	Digital Signal Processing (3)
EECS 781	Numerical Analysis I (3)
EECS 782	Numerical Analysis II (3)
<a href="#">EECS 868</a>	<a href="#">Mathematical Optimization with Applications (3)</a>
EECS 869	Information Theory and Coding (3)
CPE 778	Applied Optimization Techniques (3)
BIOL 943	Multivariate Data Analysis (3)

BREADTH	21 hours minimum
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Choose appropriate courses from the Master Breadth Course List.

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