

**KU BIOENGINEERING  
GRADUATE PROGRAM**  
The University of Kansas

**Master of Science in Bioengineering  
Track: Bioimaging**

Students entering SP2020 to present

Track Director: Xinmai Yang, Ph.D. ([xmyang@ku.edu](mailto:xmyang@ku.edu))

<b>CORE</b>	<b>6 hours required</b>
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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)

<b>DEPTH</b>	<b>9 hours minimum</b>
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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 731</a>	<a href="#">Introduction to Data Science (3)</a>
<a href="#">EECS 739</a>	<a href="#">Parallel Scientific Computing (3)</a>
EECS 740	Digital Image Processing (3)
<a href="#">EECS 644</a>	<a href="#">Intro to Digital Signal Processing (3)</a>
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)
C&PE 778	Applied Optimization Techniques (3)
BIOL 943	Multivariate Data Analysis (3)

<b>BREADTH</b>	<b>9 hours minimum</b>
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1. Math; Statistics; Numerical Methods (1 course min)
2. Sciences (1 course min)
3. Advanced Engineering (1 course min)

<b>RESEARCH</b>	<b>6 hours minimum</b>
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BIOE 899	Independent Investigation (Thesis)
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*These hours are taken under your advisor/committee chair.*

**MINIMUM HOURS REQUIRED FOR DEGREE: 30**

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