

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)

CORE	6 hours required
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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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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 731	Introduction to Data Science (3)
EECS 739	Parallel Scientific Computing (3)
EECS 740	Digital Image Processing (3)
EECS 644	Intro to Digital Signal 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)
CPE 778	Applied Optimization Techniques (3)
BIOL 943	Multivariate Data Analysis (3)

BREADTH	9 hours minimum
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Choose appropriate courses from the Master Breadth Course List.

RESEARCH	6 hours minimum
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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.