

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

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

*Track Director: Xinmai Yang, Ph.D. (xmyang@ku.edu)*

|             |                         |
|-------------|-------------------------|
| <b>CORE</b> | <b>6 hours required</b> |
|-------------|-------------------------|

|          |  |
|----------|--|
| CPE 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> |
|--------------|------------------------|

|            |   |
|------------|---|
| 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)                  |

|                |                         |
|----------------|-------------------------|
| <b>BREADTH</b> | <b>15 hours minimum</b> |
|----------------|-------------------------|

*Choose appropriate courses from the Master Breadth Course List.*

**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.