

Doctor of Philosophy in Bioengineering
Track: Bioinformatics

Students entering SP13 to present

Track Director: Luke Huan, Ph.D. (lhuan@ittc.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	18 hours minimum
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1. BIOINFORMATICS COURSE (1 course minimum)

EECS 730	Introduction to Bioinformatics (3)
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If student has already taken as part of M.S., select elective course from DEPTH courses.

2. ELECTIVE COURSES (5 course minimum)

Choose appropriate courses with advisor from the following list:

EECS 700	Special Topics in Bioinformatics (1-5)
EECS 718	Graph Algorithms (3)
EECS 737	Computational Genomics (3)
EECS 738	Machine Learning (3)
EECS 739	Scientific Parallel Computing (3)
EECS 740	Image Processing (3)
EECS 749	Knowledge Based Systems (3)
EECS 767	Information Retrieval (3)
EECS 775	Visualization (3)
EECS 833	Neural Networks and Fuzzy Systems (3)
EECS 835	Protein Bioinformatics (3)
EECS 837	Data Mining (3)
EECS 838	Applications of Machine Learning in Bioinformatics (3)
EECS 839	Mining Special Data (3)
EECS 841	Computer Vision (3)
EECS 849	Multi-agent Systems (3)
EECS 867	Statistical Natural Language Processing (3)

or other EECS course approved by committee.

BREADTH	18 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