BIOENGINEERING

http://bioengineering.illinois.edu

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Major: Bioengineering
Degrees Offered: M.Eng., M.S., Ph.D.

Graduate Concentrations: Biomechanics, Cancer Nanotechnology

Graduate Degree Programs

The Department of Bioengineering offers studies leading to the Master of Engineering in Bioengineering (M.Eng.), the Master of Science in Bioengineering (M.S.), and the Doctor of Philosophy (Ph.D.) in Bioengineering. The Bioengineering Graduate Program provides students with educational and research experiences that integrate the sciences of biology and medicine with the practices and principles of engineering. For the M.S. and Ph.D. programs, areas of focus include Bio-imaging, Cell & Tissue Engineering, Micro and Molecular Technologies, and Computational Biology. Opportunity also exists for specializing in (1) computational science and engineering and (2) energy and sustainability engineering via the Computational Science and Engineering (CSE) track. The Master’s and Ph.D. programs are conducted prior to the start of the semester.

Please see the admission requirements for the M.Eng. in Bioengineering under the “Masters” tab.

Degree Requirements

For additional details and requirements for all degrees, please refer to the department’s Graduate Studies Web site (http://bioengineering.illinois.edu) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook).

Faculty Research Interests

Bioengineering faculty perform research in the areas of Bio-Imaging at Multi-Scale, Molecular, and Tissue Engineering, Bio-Micro and Nanotechnology, Computational and Systems Bioengineering, and Synthetic Bioengineering. In addition to Bioengineering faculty (http://bioengineering.illinois.edu), Department of Bioengineering has more than 50 affiliate faculty (http://bioengineering.illinois.edu/)

Financial Aid

For the M.S. and Ph.D. programs, qualified students may apply for financial aid in the form of fellowships, teaching and research assistantships, and waivers of tuition and service fees. All applicants, regardless of U.S. citizenship, whose native language is not English and who wish to be considered for teaching assistantships must demonstrate spoken English language proficiency (http://grad.illinois.edu/admissions/taengprof.htm) by achieving a minimum score of 24 on the speaking subsection of the TOEFL iBT or 8 on the speaking subsection of the IELTS. For students who are unable to take the iBT or IELTS, a minimum score of 4CP is required on the EPI test (http://cte.illinois.edu/testing/oral_eng/epi_overview.html), offered on campus. All new teaching assistants are required to participate in the Graduate Academy for College Teaching (http://cte.illinois.edu/programs/ta_train.html) conducted prior to the start of the semester.

Please see the financial aid eligibility for the M.Eng. in Bioengineering under the “Masters” tab.

- Master of Science in Bioengineering (http://catalog.illinois.edu/graduate/graduate-majors/bio-engin/ms-bioengineering)
- Master of Engineering in Bioengineering (http://catalog.illinois.edu/graduate/graduate-majors/bio-engin/meng-bioengin)

Entering with approved M.S. degree

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<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOE 599</td>
<td>Thesis Research (min-max applied toward degree)</td>
<td>52</td>
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Elective courses

12

Total Hours

64

Other Requirements and Conditions

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<th>Requirement</th>
<th>Description</th>
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Other Requirements and Conditions may overlap

Minimum program GPA: 3.0

A Masters degree is required for admission to the Ph.D. program.

Qualifying exam

Preliminary exam
Final exam and dissertation defense
Dissertation deposit

1 For additional details and requirements for all degrees, please refer to the department’s Graduate Studies Web site (http://bioengineering.illinois.edu) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook).

2 Qualifying Examination information (http://bioengineering.illinois.edu/graduate-programs/current-graduate-students/qualifying-exam)

Entering with B.S. degree

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<tr>
<td>BIOE 599</td>
<td>Thesis Research (min-max applied toward degree)</td>
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<td>500-level BioE courses: See approved list</td>
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<td>Elective courses: At least 12 hours must be engineering graduate-level courses. See website for more details.</td>
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<td><strong>Total hours</strong></td>
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<td><strong>96</strong></td>
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Other Requirements and Conditions

1 For additional details and requirements for all degrees, please refer to the department’s Graduate Studies Web site (http://bioengineering.illinois.edu) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook).

1 Minimum program GPA: 3.0
2 Qualifying exam

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Information listed in this catalog is current as of 12/2019