BIOMECHANICS GRADUATE CONCENTRATION

For the graduate concentration in Biomechanics

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director of graduate studies: Gregory Underhill (bodony@illinois.edu)
overview of grad college admissions & requirements: https://grad.illinois.edu/admissions/apply
department website: https://bioengineering.illinois.edu/
program website: https://bioengineering.illinois.edu/academics/graduate/phd/concentrations.html
department faculty: https://bioengineering.illinois.edu/directory/
college website: https://grainger.illinois.edu/
contact: Krista Smith (kristasm@illinois.edu)
address: 1240 Everitt Laboratory, 1406 W Green St, Urbana, IL 61801
phone: (217) 333-1867
department faculty: https://bioengineering.illinois.edu/directory/
college website: https://grainger.illinois.edu/
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phone: (217) 333-1867

The Biomechanics Concentration prepares students for collaborative research across the disciplines of engineering, biology, and the sciences. Students must be enrolled in a graduate degree program:

Bioengineering, MS
Graduate Program: https://catalog.illinois.edu/graduate/engineering/bioengineering-ms

Bioengineering, PhD
Graduate Program: https://catalog.illinois.edu/graduate/engineering/bioengineering-phd

Bioinformatics: Bioengineering, MS
Program: https://catalog.illinois.edu/graduate/engineering/concentration/bioengineering/bioinformatics

Electrical & Computer Engineering, MS
Program: https://catalog.illinois.edu/graduate/engineering/electrical-computer-engineering-ms

Electrical & Computer Engineering, PhD
Program: https://catalog.illinois.edu/graduate/engineering/electrical-computer-engineering-phd

Materials Engineering, MEng
Program: https://catalog.illinois.edu/graduate/engineering/materials-engineering-meng

Materials Science & Engineering, MS
Program: https://catalog.illinois.edu/graduate/engineering/materials-science-engineering-ms

Materials Science & Engineering, PhD
Program: https://catalog.illinois.edu/graduate/engineering/materials-science-engineering-phd

Mechanical Engineering, MS
Program: https://catalog.illinois.edu/graduate/engineering/mechanical-engineering-ms

Mechanical Engineering, MEng
Program: https://catalog.illinois.edu/graduate/engineering/mechanical-engineering-meng

Mechanical Engineering, PhD
Program: https://catalog.illinois.edu/graduate/engineering/mechanical-engineering-phd

Theoretical & Applied Mechanics, MS
Program: https://catalog.illinois.edu/graduate/engineering/theoretical-applied-mechanics-ms

Theoretical & Applied Mechanics, PhD
Program: https://catalog.illinois.edu/graduate/engineering/theoretical-applied-mechanics-phd

Other Graduate Programs in the Department of Bioengineering

degrees:

Bioengineering, MEng
Program: https://catalog.illinois.edu/graduate/engineering/bioengineering-meng

concentrations:

Bioinstrumentation
Program: https://catalog.illinois.edu/graduate/engineering/bioengineering-meng/bioinstrumentation

Computational Genomics
Program: https://catalog.illinois.edu/graduate/engineering/bioengineering-meng/computational-genomics

General Bioengineering
Program: https://catalog.illinois.edu/graduate/engineering/bioengineering-meng/general-bioengineering

Bioengineering, MS
Program: https://catalog.illinois.edu/graduate/engineering/bioengineering-ms

optional concentrations:

Biomechanics
Program: https://catalog.illinois.edu/graduate/engineering/concentration/bioengineering/biomechanics

Cancer Nanotechnology
Program: https://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology

Bioengineering, PhD
Program: https://catalog.illinois.edu/graduate/engineering/bioengineering-phd

optional concentrations:

Biomechanics
Program: https://catalog.illinois.edu/graduate/engineering/concentration/bioengineering/biomechanics

Cancer Nanotechnology
Program: https://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology

Computational Science and Engineering
Program: https://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering

Information listed in this catalog is current as of 03/2020
The Department of Bioengineering offers studies leading to the Master of Engineering in Bioengineering (MEng), the Master of Science in Bioengineering (MS), and the Doctor of Philosophy (PhD) 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 MS and PhD programs, areas of focus include Bio-imaging, Cell & Tissue Engineering, Micro and Molecular Technologies, and Computational Biology.

Opportunity also exists for specializing in energy and sustainability engineering via the

Energy and Sustainability Engineering (EaSE) Graduate Certificate Option (http://ease.illinois.edu)

The Biomechanics Concentration requires students to earn a B or better in each concentration course and complete at least 12 hours. Fulfillment of these requirements will be monitored jointly by the graduate coordinators in Bioengineering and in Mechanical Science and Engineering.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABE 446</td>
<td>Biological Nanoengineering</td>
<td></td>
</tr>
<tr>
<td>BIOE 482</td>
<td>Musculoskeletal Tissue Mechanics</td>
<td></td>
</tr>
<tr>
<td>ME 483</td>
<td>Mechanobiology</td>
<td></td>
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</tbody>
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