BIOENGINEERING: PHARMACEUTICAL ENGINEERING, MENG

for the Master of Engineering in Engineering, Pharmaceutical Engineering Concentration (on campus & online)

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**director of MEng program:** Wawrzyniec Dobrucki (dobrucki@illinois.edu)
**overview of admissions & requirements:** https://bioeng.illinois.edu/admissions/
**overview of grad college admissions & requirements:** https://grad.illinois.edu/admissions/apply (https://grad.illinois.edu/admissions/apply)
**department website:** https://bioengineering.illinois.edu
**program website:** https://bioeng.illinois.edu
**college website:** https://grainger.illinois.edu/
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This program is not currently accepting applications; suspension of admissions effective Fall 2021

The MEng in Bioengineering is a professionally-oriented degree designed to bridge the skills gap by developing students with advanced technical know-how, a better understanding of the medical healthcare industry and more business acumen through coursework and project work, which provides students exposure to real world industry issues. Other concentrations under the MEng in Bioengineering major include General Bioengineering (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng/general-bioengineering/), Computational Genomics (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng/computational-genomics/), Entrepreneurship & Innovation (http://catalog.illinois.edu/graduate/engineering/concentration/entrepreneurship-innovation/) and Pharmaceutical Engineering (p. 1).

### Admission Requirements

Students must select one of the concentrations under the MEng in Bioengineering program to apply to and will not be able to complete multiple concentrations. Students should have an undergraduate degree in an engineering or a science related field or must have taken engineering or science related coursework. Applicants should have a minimum grade point average of 3.00 (A = 4.00) or equivalent for the last two years of undergraduate study and show evidence of strong quantitative skills and of serious interest in the life sciences through their personal statement. Students with less than a 3.0 GPA may be considered for a limited status admission. Students in the program do not have automatic admission to the PhD program in any engineering department.

All applicants whose native language is not English are required to submit TOEFL (http://www.toefl.org/) or International English Language Testing System (IELTS) (http://www.ielts.org/) scores as evidence of English proficiency. Minimum admission requirements (https://grad.illinois.edu/admissions/instructions/04c/) are set by the Graduate College. Students applying to the online program must satisfy the full status admissions requirement.

All applicants whose native language is not English must submit a minimum TOEFL (http://www.toefl.org/) score of 103 (IBT), 257 (CBT), or 613 (PBT); or minimum International English Language Testing System (IELTS) (http://www.ielts.org/) academic exam scores of 7.0 overall and 6.0 in all subsections for full admission into the program. Applicants may be exempt from the TOEFL if certain criteria (http://grad.illinois.edu/admissions/instructions/04c/jare) are met. Applicants with lesser scores may still apply. Limited status (http://grad.illinois.edu/admissions/instructions/04c/) is granted for lesser scores and requires enrollment in English as a Second Language (ESL) courses (http://linguistics.illinois.edu/students/esl/guidelines/) based on an ESL Placement Test (EPT) taken upon arrival to campus.

### Financial Aid

For tuition information and external funding resources, please visit the program’s tuition and fees Web site (https://bioe-meng.illinois.edu/tuition-fees/). Students in the MEng in Bioengineering program are not eligible for Board of Trustees (BOT) tuition-waiver generating assistantships at the University of Illinois.

### Department Research

Bioengineering faculty perform research in the areas of Bio-Imaging at Multi-Scale; Molecular, Cellular and Tissue Engineering; Bio-Micro and Nanotechnology; Computational and Systems Bioengineering; and Synthetic Bioengineering. MEng students are able to do independent study research projects with Bioengineering faculty and affiliate faculty (https://bioengineering.illinois.edu/directory/) for class credit.

### Other Graduate Programs in the Department of Bioengineering

degrees:

- Bioengineering, MS (http://catalog.illinois.edu/graduate/engineering/bioengineering-ms/)
  - **optional concentrations:**
    - Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/)
    - Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/)

- Bioengineering, PhD (http://catalog.illinois.edu/graduate/engineering/bioengineering-phd/)
  - **optional concentrations:**
    - Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/)
    - Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/)

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.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Core Coursework</strong></td>
<td></td>
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<tr>
<td>Complete the required courses in each of the following areas below.</td>
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<tr>
<td>Technical courses from approved list.</td>
<td>10</td>
<td></td>
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<tr>
<td>Business courses from approved list.</td>
<td>8</td>
<td></td>
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<tr>
<td>Elective Courses chosen in consultation with advisor.</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Professional Development courses from approved list.</td>
<td>6</td>
<td></td>
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<td><strong>Total Credit Hours</strong></td>
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**Other Requirements and Conditions (may overlap):**

A minimum of 20 credit hours must be taken from the University of Illinois at Urbana-Champaign campus.

A minimum of 12 500-level credit hours overall.

At most, 12 credit hours of previous University of Illinois Urbana-Champaign graduate-level coursework not applied to any other degree may be transferred and applied to the major pending department and Graduate College approval.

Minimum GPA: 3.0

Information listed in this catalog is current as of 11/2021