MECHANICAL ENGINEERING, MENG

for the degree of Master of Engineering in Mechanical Engineering

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- director of M.Eng. program: Jiajun He (jiajunhe@illinois.edu)
- overview of admissions & requirements: https://mechanical.illinois.edu/graduate/graduate-degree-programs/master-engineering/mechanical-engineering/applying-mengme
- overview of grad college admissions & requirements: https://grad.illinois.edu/admissions/apply
- department website: https://mechanical.illinois.edu/
- program website: https://mechanical.illinois.edu/graduate/graduate-degree-programs/master-engineering/mechanical-engineering
- college website: https://mechanical.illinois.edu/
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The MEng in Mechanical Engineering is a professionally-oriented degree that provides advanced knowledge and experiential opportunities beyond that of a bachelor's degree. Students may choose to design their curriculum around three tracks of study: Design, Energy, and Manufacturing. Alternate tracks of study may be pursued with the approval and guidance of the director of the MEng program.

Opportunity exists for specializing in i) biomechanics via the Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/) optional graduate concentration and ii) cancer nanotechnology via the Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/) optional graduate concentration.

Admission Requirements

An applicant for admission to the MEng program at the Department of Mechanical Science and Engineering must:

1. Be a graduate of an institution awarding a baccalaureate degree equivalent to that granted by the University of Illinois at Urbana-Champaign in engineering or a related field;
2. Be adequately prepared for advanced study as demonstrated by his or her previous program of study and scholastic record; and
3. Be recommended for admission by the Department of Mechanical Science and Engineering. A minimum grade point average of 3.00 (A = 4.00) for the last two years of undergraduate study is required.

Seniors and alumni of the Department of Mechanical Science and Engineering at Illinois with a cumulative undergraduate GPA of 3.33 (A = 4.00) and above may request to have the GRE requirement waived. Valid scores for the Graduate Record Examination (GRE) (http://www.ets.org/) general test are required for all other applicants.

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.

The Department of Mechanical Science and Engineering accepts MEng applications for both Spring and Fall terms.

Financial Aid

Students in the MEng in Mechanical Engineering program are not eligible for Board of Trustees (BOT) tuition-waiver generating assistantships at the University of Illinois.

Other Graduate Programs in the Department of Mechanical Science & Engineering

degree programs:

- Mechanical Engineering, MS (http://catalog.illinois.edu/graduate/engineering/mechanical-engineering-ms/)
- Mechanical Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/mechanical-engineering-phd/)
- Theoretical & Applied Mechanics, MS (http://catalog.illinois.edu/graduate/engineering/theoretical-applied-mechanics-ms/)
- Theoretical & Applied Mechanics, PhD (http://catalog.illinois.edu/graduate/engineering/theoretical-applied-mechanics-phd/)

optional concentrations available for MS and PhD programs:

- Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics/)
- Cancer Nanotechnology (http://catalog.illinois.edu/graduate/engineering/concentration/cancer-nanotechnology/)
- Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

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

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

For additional details and requirements refer to the department’s graduate program requirements (http://mechanical.illinois.edu/graduate/) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook/).

Information listed in this catalog is current as of 01/2021
Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ME or TAM course work</td>
<td></td>
<td>12-20</td>
</tr>
<tr>
<td>Applied math/computational science requirement 1</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Elective courses chosen in consultation with advisor</td>
<td></td>
<td>4-8</td>
</tr>
<tr>
<td>Professional development 2</td>
<td></td>
<td>4-8</td>
</tr>
<tr>
<td><strong>Total required hours</strong></td>
<td></td>
<td><strong>32</strong></td>
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1. Choose from approved list; consult the program's website (https://masterengineering.mechanical.illinois.edu/) for more information.
2. Choice or combination of (a) graduate-level capstone project (e.g., ME 597 Independent Study), or (b) course in leadership, entrepreneurship, or other business-related course.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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<tbody>
<tr>
<td>A minimum of 4 elective hours must be completed outside of the major department.</td>
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<tr>
<td>A minimum of 12 500-level credit hours applied toward the degree, 8 of which must be in ME or TAM.</td>
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<tr>
<td>A maximum of 4 hours of independent study may be applied toward degree requirements.</td>
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<tr>
<td>Elective course category may include a maximum of 4 hours of special topics credit.</td>
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<tr>
<td>Professional development category may include a maximum of 4 hours of special topics credit.</td>
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<tr>
<td>The minimum program GPA is 3.0.</td>
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<tr>
<td>Requirements and conditions may overlap.</td>
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