

# MECHANICAL ENGINEERING, MENG

for the degree of Master of Engineering in Mechanical Engineering (on campus & online)

The MEng in Mechanical Engineering is a coursework-based, non-thesis program that provides advanced knowledge and experiential opportunities beyond that of a bachelor's degree. Students may choose to design their curriculum around six tracks of study: Design & Mechanics, Manufacturing, Controls & Robotics, Fluid & Thermal Sciences, Energy, and Biomechanics, or they may create a customized plan of study, taking classes from more than one track. Students will receive guidance from an academic advisor when selecting their courses.

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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/>).

## Degree Requirements

Code	Title	Hours
<b>Technical Core</b>		<b>16-24</b>
ME and TAM coursework selected in consultation with advisor.		
<b>Professional Development Coursework</b>		<b>4-8</b>
Select from the following:		
ENG 572	Professional Practicum	
ENG 573	Capstone Project	
ME 597	Independent Study	
TE 401, TE 450, TE 460, TE 461, TE 466, TE 498, TE 510, TE 565, TE 566, TE 567, TE 598		
<b>Elective Coursework</b>		<b>4-12</b>
A minimum of 4 elective hours must be completed outside the ME rubric.		
<b>Total required hours</b>		<b>32</b>

## Other Requirements and Conditions (may overlap)

Requirement	Description
A minimum of 12 500-level credit hours applied toward the degree, 8 of which must be in ME or TAM.	
A maximum of 4 hours of independent study may be applied toward degree requirements.	
No credit given towards degree for S/U or CR/NC graded classes.	
The minimum program GPA is 3.0.	

Mechanical Engineering, MENG | University of Illinois Urbana-Champaign (<http://catalog.illinois.edu/graduate/engineering/mechanical-engineering-meng/#learningoutcomestext>)

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1. Apply quantitative skills and engineering principles to propose novel and practical solutions to mechanical engineering problems in fields such as biomechanics, energy, fluid and thermal sciences, manufacturing and design, and robotics and control.
2. Demonstrate mastery of the mechanical design and problem-solving process including defining the problem and implementing the solutions, while taking into consideration the needs of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. Employ the highest standards of academic, professional, and ethical responsibility in the design of products, industry processes, and research and development processes.
4. Effectively communicate (both orally and in writing) real-world industry and scientific problems with a bigger vision and offer solutions, as well as their impact, to a diverse audience and stakeholders.
5. Develop practical project management skills, as well as effective leadership, organizational, communication, and other professional skills.
6. Develop an ability to work collaboratively with a diverse team.
7. To be able to function as an engineer in industry or government.

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## 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.

Due to COVID 19 the department of Mechanical Science and Engineering is waiving the GRE requirement for the Fall 2021 cycle.

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.

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#### **Department of Mechanical Science & Engineering**

Department Head: Anthony Jacobi (a-jacobi@illinois.edu)

Director of Graduate Studies: Petros Sofronis

Director of M.Eng. Program: Jiajun He (jiajunhe@illinois.edu)

Contact: Susan Roughton (roughton@illinois.edu)

Department of Mechanical Science & Engineering Department website (<https://mechanical.illinois.edu/>)

Program website (<https://mechanical.illinois.edu/graduate/graduate-degree-programs/master-engineering-mechanical-engineering/>)

Mechanical Science & Engineering Department faculty (<https://mechanical.illinois.edu/people/>)

168 Mechanical Engineering Building, 1206 West Green Street, Urbana, IL 61801

(217) 300-3319

Mechanical Science & Engineering M.Eng. email (mechse-meng@illinois.edu)

#### **Grainger College of Engineering**

Grainger College of Engineering website (<https://grainger.illinois.edu/>)

#### **Admissions**

Mechanical Science & Engineering Department Overview of Admissions & Requirements (<https://mechse.illinois.edu/graduate/applying-mechse-graduate-programs/mengme-applicants/>)

Graduate College Admissions & Requirements (<https://grad.illinois.edu/admissions/apply/>)