The master of science and doctor of philosophy degrees in engineering mechanics are offered within a graduate program covering contemporary areas in both theoretical and applied mechanics. With the guidance of a major professor, a program can be designed to meet an individual student's needs and interests.

The Department of Engineering Physics offers two distinct master of science (M.S.) degree programs in Engineering Mechanics:

- Engineering Mechanics M.S., Research (http://guide.wisc.edu/graduate/engineering-physics/engineering-mechanics-ms/engineering-mechanics-research-ms/) – traditional master's program culminating in a thesis for students with an undergraduate background in mechanics
- Engineering Mechanics M.S., Fundamentals of Applied Mechanics Option (http://guide.wisc.edu/graduate/engineering-physics/engineering-mechanics-ms/engineering-mechanics-fundamentals-applied-mechanics-ms/) – accelerated, for students with an undergraduate background in science, who would like to transition into engineering

Students apply to the Master of Science in Engineering Mechanics through one of the named options:

- Research (https://guide.wisc.edu/graduate/engineering-physics/engineering-mechanics-ms/engineering-mechanics-research-ms/)
- Aerospace Engineering (http://guide.wisc.edu/graduate/engineering-physics/engineering-mechanics-ms/engineering-mechanics-aerospace-engineering-ms/)
- Fundamentals of Applied Mechanics (https://guide.wisc.edu/graduate/engineering-physics/engineering-mechanics-ms/engineering-mechanics-fundamentals-applied-mechanics-ms/)

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information (https://grad.wisc.edu/funding/) is available from the Graduate School. Be sure to check with your program for individual policies and restrictions related to funding.

Admission and funding are separate decisions. Not all admitted students are offered support. International applicants must secure a research assistantship, teaching assistantship, fellowship, or independent funding before admission is final. A portion of the top domestic applicants is invited to visit Madison in March. The funding for RAs comes from faculty research grants. Each professor decides on his or her own RA offers. Funded students are expected to maintain full-time enrollment. See the program website (https://www.engr.wisc.edu/department/engineering-physics/academics/ms-engineering-mechanics/) for additional information.

### REQUIREMENTS

#### MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/#policiesandrequirementstext), in addition to the program requirements listed below.

#### MAJOR REQUIREMENTS

##### CURRICULAR REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
<th>Minimum</th>
<th>Credit</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td></td>
<td>30 credits</td>
<td></td>
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<tr>
<td>Residence</td>
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<td>16 credits</td>
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<tr>
<td>Graduate GPA</td>
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<td>3.00 GPA required</td>
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<tr>
<td>Courses in which grades of BC, C, or below are received cannot be counted toward the degree except as follows: 1) Credits of C will be allowed provided they are balanced by twice as many credits of A or by four times as many credits of AB, 2) Credits of BC will be allowed provided they are balanced by twice as many credits of AB or by an equal number of credits of A.</td>
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### NAMED OPTIONS

A named option is a formally documented sub-major within an academic major program. Named options appear on the transcript with degree conferred. Students pursuing the Master of Science in Engineering Mechanics must select one of the following named options:

View as list

View as grid
• ENGINEERING MECHANICS: AEROSPACE ENGINEERING, M.S. (HTTP://GUIDE.WISC.EDU/GRADUATE/ENGINEERING-PHYSICS/ENGINEERING-MECHANICS-MS/ENGINEERING-MECHANICS-AEROSPACE-ENGINEERING-MS/)

• ENGINEERING MECHANICS: FUNDAMENTALS OF APPLIED MECHANICS, M.S. (HTTP://GUIDE.WISC.EDU/GRADUATE/ENGINEERING-PHYSICS/ENGINEERING-MECHANICS-MS/ENGINEERING-MECHANICS-FUNDAMENTALS-APPLIED-MECHANICS-MS/)

• ENGINEERING MECHANICS: RESEARCH, M.S. (HTTP://GUIDE.WISC.EDU/GRADUATE/ENGINEERING-PHYSICS/ENGINEERING-MECHANICS-MS/ENGINEERING-MECHANICS-RESEARCH-MS/)

POLICIES

Students should refer to one of the named options for policy information:

• Research (https://guide.wisc.edu/graduate/engineering-physics/engineering-mechanics-ms/engineering-mechanics-research-ms/)

• Aerospace Engineering (http://guide.wisc.edu/graduate/engineering-physics/engineering-mechanics-ms/engineering-mechanics-fundamentals-applied-mechanics-ms/)

• Fundamentals of Applied Mechanics (https://guide.wisc.edu/graduate/engineering-physics/engineering-mechanics-ms/engineering-mechanics-fundamentals-applied-mechanics-ms/)

PROFESSIONAL DEVELOPMENT

GRADUATE SCHOOL RESOURCES

Take advantage of the Graduate School’s professional development resources (https://grad.wisc.edu/pd/) to build skills, thrive academically, and launch your career.

LEARNING OUTCOMES

1. Demonstrate a strong understanding of mathematical, scientific, and engineering principles in the field.

2. Demonstrate an ability to formulate, analyze, and independently solve advanced engineering problems.

3. Apply the relevant scientific and technological advancements, techniques, and engineering tools to address these problems.

4. Recognize and apply principles of ethical and professional conduct.

PEOPLE

PROFESSORS

Paul Wilson (Chair)
Matt Allen
Riccardo Bonazza
Curt A. Bronkhorst
Wendy Crone

Chris Hegna
Douglass Henderson
Roderic Lakes
Oliver Schmitz
Carl Sovinec
Kumar Sridharan
Fabian Waleffe

ASSISTANT PROFESSORS

Jennifer Choy
Adrien Couet
Stephanie Diem
Jennifer Franck
Benedikt Geiger
Ben Lindley
Jacob Notbohm
Ramathasan Thevamaran
Yongfeng Zhang

See also Engineering Physics Faculty Directory (https://directory.engr.wisc.edu/ep/faculty/).