ENGINEERING MECHANICS, MS

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 Mechanical Engineering offers two distinct master of science (MS) degree programs in Engineering Mechanics:

- Engineering Mechanics MS, Research (http://guide.wisc.edu/graduate/mechanical-engineering/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 MS, Aerospace Engineering Option (http://guide.wisc.edu/graduate/mechanical-engineering/engineering-mechanics-ms/engineering-mechanics-aerospace-engineering-ms/) - an accelerated coursework-only program, where students will learn advanced mechanics topics pertaining to the aerospace field

ADMISSIONS

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

- Research (http://guide.wisc.edu/graduate/mechanical-engineering/engineering-mechanics-ms/engineering-mechanics-research-ms/)
- Aerospace Engineering (http://guide.wisc.edu/graduate/mechanical-engineering/engineering-mechanics-ms/engineering-mechanics-aerospace-engineering-ms/)

FUNDING

GRADUATE SCHOOL RESOURCES

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.

PROGRAM RESOURCES

Program specific funding information may be reviewed through one of the named options:

- Research (http://guide.wisc.edu/graduate/mechanical-engineering/engineering-mechanics-ms/engineering-mechanics-research-ms/)
- Aerospace Engineering (http://guide.wisc.edu/graduate/mechanical-engineering/engineering-mechanics-ms/engineering-mechanics-aerospace-engineering-ms/)

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>Requirement Detail</th>
<th>Minimum Credit Requirement</th>
<th>Minimum Residence Credit Requirement</th>
<th>Minimum Graduate Coursework Requirement</th>
<th>Overall GPA Requirement</th>
<th>Graduate GPA Requirement</th>
<th>Requirement Policy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30 credits</td>
<td>16 credits</td>
<td>See Named Options for policy information.</td>
<td>3.00 GPA required.</td>
<td>Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: <a href="https://policy.wisc.edu/library/UW-1203/">https://policy.wisc.edu/library/UW-1203/</a></td>
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<td>Students must earn a C or above in all formal coursework.</td>
<td></td>
<td>Students may not have more than two incompletes on their record at any one time.</td>
<td>See Named Options for policy information.</td>
</tr>
<tr>
<td>Assessments and Examinations</td>
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<tr>
<td>Language Requirements</td>
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<td>No language requirements.</td>
</tr>
</tbody>
</table>

REQUIRED COURSES

Select a Named Option (p. 1) for courses required.

NAMED OPTIONS

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

View as list
View as grid

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

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
Darryl Thelen (Chair)  
Peter Adamczyk  
Mark Anderson  
Riccardo Bonazza

ASSOCIATE PROFESSORS
Liangyi Chen  
Melih Eriten  
Katherine Fu  
Tom N. Krupenkin  
Ying Li  
Franklin Miller  
Sangkee Min  
Wenxiao Pan  
James Pikul  
Pavana Prabhakar  
Alejandro Roldan-Alzate  
Michael Zinn

ASSISTANT PROFESSORS
Yunus Alapan  
Joseph Andrews  
Jennifer Franck  
Corinne Henak  
Eric Kazyak  
Xiao Kuang  
Allison Mahvi  
Luca Mastropasqua  
Jacob Hotbohm  
Josh Roth  
Shiva Rudraraju  
Eric Tervo  
Ramathasan Thevamaran  
Dakotah Thompson  
Michael Wagner  
Wei Wang  
Jinlong Wu  
Xiaobin Xiong  
Xiangru Xu  
Lei Zhou

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