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/engineeringmechanics-ms/engineering-mechanics-aerospace-engineeringms/) - an accelerated coursework-only program, where students will learn advanced mechanics topics pertaining to the aerospace field

ADMISSIONS

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/mechanicalengineering/engineering-mechanics-ms/engineering-mechanicsaerospace-engineering-ms/)

FUNDING

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/mechanicalengineering/engineering-mechanics-ms/engineering-mechanicsaerospace-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

Requirement Detail	
Minimum Credit Requirement	30 credits
Minimum Residence Credit Requirement	16 credits
Minimum Graduate Coursework Requirement	See Named Options for policy information.
Overall Graduate GPA Requirement	3.00 GPA required. Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: https://policy.wisc.edu/library/ UW-1203 (https://policy.wisc.edu/library/UW-1203/).
Other Grade Requirements	Students must earn a C or above in all formal coursework.
	Students may not have more than two incompletes on

Students may not have more than two incompletes on their record at any one time.

Assessments See Named Options for policy information.

and

Examinations

Language No language requirements. Requirements

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 listView as grid

- ENGINEERING MECHANICS: AEROSPACE ENGINEERING, MS (HTTP://GUIDE.WISC.EDU/GRADUATE/ MECHANICAL-ENGINEERING/ ENGINEERING-MECHANICS-MS/ ENGINEERING-MECHANICS-AEROSPACE-ENGINEERING-MS/)
- ENGINEERING MECHANICS: RESEARCH, MS (HTTP://GUIDE.WISC.EDU/ GRADUATE/MECHANICAL-ENGINEERING/ ENGINEERING-MECHANICS-MS/ ENGINEERING-MECHANICS-RESEARCH-MS/)

POLICIES

POLICIES

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

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

PROFESSIONAL DEVELOPMENT

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

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

PEOPLE PROFESSORS

Darryl Thelen (Chair) Peter Adamczyk Mark Anderson Riccardo Bonazza

Curt Bronkhorst

Wendy Crone Christian Franck Jaal Ghandhi Sage Kokjohn Dan Negrut Gregory F. Nellis Tim Osswald Frank Pfefferkorn Xiaoping Oian Douglas Reindl David Rothamer Scott T. Sanders Krishnan Suresh Mario F. Trujillo Lih-sheng Turng Fabian Waleffe

ASSOCIATE PROFESSORS

Lianyi 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 Allison Mahvi Luca Mastropasqua Jacob Notbohm Josh Roth Shiva Rudraraju Eric Tervo Ramathasan Thevamaran Dakotah Thompson Michael Wagner Wei Wang Michael Wehner Jinlong Wu Xiaobin Xiong Xiangru Xu Lei Zhou

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