

# MECHANICAL ENGINEERING: RESEARCH, MS

## REQUIREMENTS

### MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum degree requirements (<https://guide.wisc.edu/graduate/#requirements>) and policies (<https://guide.wisc.edu/graduate/#policies>), in addition to the program requirements listed below.

### NAMED OPTION REQUIREMENTS

#### MODE OF INSTRUCTION

Face to Face	Evening/Weekend	Online	Hybrid	Accelerated
Yes	No	No	No	No

#### Mode of Instruction Definitions

**Accelerated:** Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

**Evening/Weekend:** Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

**Face-to-Face:** Courses typically meet during weekdays on the UW–Madison Campus.

**Hybrid:** These programs combine face-to-face and online learning formats. Contact the program for more specific information.

**Online:** These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

### CURRICULAR REQUIREMENTS

#### Requirement Detail

Minimum Credit Requirement	30 credits
Minimum Residence Credit Requirement	21 credits
Minimum Graduate Coursework Requirement	15 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: <a href="https://policy.wisc.edu/library/UW-1244">https://policy.wisc.edu/library/UW-1244</a> ( <a href="https://policy.wisc.edu/library/UW-1244/">https://policy.wisc.edu/library/UW-1244/</a> ).

Overall	3.00 GPA required.
Graduate GPA Requirement	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> ( <a href="https://policy.wisc.edu/library/UW-1203/">https://policy.wisc.edu/library/UW-1203/</a> ).

**Other Grade Requirements** Students must earn a C or above in all formal coursework.

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

**Assessments and Examinations** The MS Mechanical Engineering: Research requires the student pass a formal thesis defense.

**Language Requirements** No language requirements.

### REQUIRED COURSES

All courses for the Mechanical Engineering graduate program must be numbered 400 and above. Exception: Up to one course (3 credits) numbered 300–399 in engineering, math, or the sciences taken at UW–Madison can also be used towards the formal course credit requirement. This course can be from Mechanical Engineering (M E ([https://guide.wisc.edu/courses/m\\_e/](https://guide.wisc.edu/courses/m_e/))) and/or Engineering Mechanics (E M A ([https://guide.wisc.edu/courses/e\\_m\\_a/](https://guide.wisc.edu/courses/e_m_a/))) only if approved by the student's advisor and the Mechanical Engineering graduate committee.

Code	Title	Credits
<b>Seminar Requirement</b>		
Two terms of seminar, successfully completed, are required. These should be taken in the first two terms of enrollment. Passing/satisfactory grades are required for both terms.		
M E 903	Graduate Seminar (taken twice)	0
<b>Research Credits Requirement</b>		
Students complete at least 9 credits of the following: <sup>1</sup>		9
M E 790	Master's Research and Thesis	
<b>Formal Credits Requirement <sup>2</sup></b>		
Complete the following requirements (requirements may overlap)		18
Minimum 9 formal credits in Mechanical Engineering (M E) and/or Engineering Mechanics (E M A), taken at UW–Madison		
Minimum 3 formal course credits numbered 700 or higher		
Remaining credits to get to 18 minimum		
<b>Remaining Courses</b>		
Course Options:		3
Formal Course or Research Credits, as approved by faculty advisor		
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> An overall grade of S is required. M E 890 and/or M E 990 may be used in place of, or addition to, M E 790.

<sup>2</sup> Formal credits/courses are any course offering that is not a seminar course, thesis/research course, independent study, co-op/internship, etc.

### **Advisor Approval of Study Plan**

The faculty advisor must always approve the courses a student takes in the MS program. Students should schedule an appointment with their advisor when selecting their courses. During the final semester, the faculty advisor will review the courses taken again and if approved, sign the warrant request form.