

MECHANICAL ENGINEERING, PHD

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

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

MAJOR 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 60 credits

Minimum Residence Credit Requirement 32 credits

Minimum Graduate Coursework Requirement 30 credits must be graduate-level coursework. Details can be found in the Graduate School's Minimum Graduate Coursework (50%) Requirement Policy: <https://policy.wisc.edu/library/UW-1244> (<https://policy.wisc.edu/library/UW-1244/>)

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. PhD candidates may not have any more than two Incompletes on their record at any one time.

Assessments and Examinations The PhD candidate will need to pass a qualifying exam, preliminary exam, and a final defense in order to obtain a degree.

Language Requirements No language requirements.

Graduate School Breadth Requirement All doctoral students are required to complete a doctoral minor or graduate/professional certificate. Refer to the Graduate School: Breadth Requirement in Doctoral Training policy: <https://policy.wisc.edu/library/UW-1200> (<https://policy.wisc.edu/library/UW-1200/>).

REQUIRED COURSES

Two semesters of M E 903 Graduate Seminar are required. These should be taken the first two semesters the student is in residence. If an MS degree is received at UW–Madison, additional M E 903 credits are not required.

A minimum of 36 formal course credits beyond the BS degree are required. Formal credits are any course offering this is not a seminar course, thesis research course, or independent study course. This includes a minimum of 9 credits (usually three courses) numbered 700 or above. A minimum of 3 credits (usually one course) numbered 700 and above must be in Mechanical Engineering (M E (http://guide.wisc.edu/courses/m_e/)) and/or Engineering Mechanics (E M A (http://guide.wisc.edu/courses/e_m_a/)) taken at UW–Madison. A minimum of one (3 or more - credit) math course.

Math Course Options

The following courses would satisfy the math course requirement.

Code	Title	Credits
M E 601	Special Topics in Mechanical Engineering (Topic "Computational Math w/Engr Apps")	
M E 964	Special Advanced Topics in Mechanical Engineering (Topics: "App Comp Math w/ Eng Apps" OR "Comp Math with Apps in Eng" OR "Sci Computing for Apps in Eng")	
E M A/E P 476	Introduction to Scientific Computing for Engineering Physics	
E M A/E P 547	Engineering Analysis I	
E M A/E P 548	Engineering Analysis II	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
	400 and above Math Department courses	
	400 and above Statistics Department courses	
	Graduate "transfer credits" equivalent to the above	

Acceptable courses for the remainder of the required 36 formal course credits (this total includes the courses taken for the PhD breadth requirement) are those numbered 400 and above.

Minimum of 18 thesis credits (M E 790 Master's Research and Thesis, M E 890 PhD Research and Thesis, M E 990 Dissertator Research and Thesis) are required with an overall grade of S.