Introduction and program overview .......... 4

I. Important addresses ................................. 5
i. Important websites ........................................ 6
ii. For assistance with health problems and emergencies ........................................ 6

II. New graduate student checklist: What do I do now? ........................................ 7
i. Visit the Graduate Student Services Office ........... 7
ii. Activate your UW–Madison NetID ................. 7
iii. Campus and Visitor Relations Center ............. 7
iv. Enroll in classes ............................................. 7
v. Pay your tuition and fees ................................. 7
vi. Get your student ID card (Wiscard) ............... 7
vii. Locate your WiscMail account and “wisc.edu” address ........................................ 8
viii. Activate your CAE account ........................... 8
ix. Update your mailing address and phone number 8
x. Pick up your free Madison Metro bus pass ......... 8
xi. Complete the online sexual violence prevention program ........................................ 8
xii. Affecting some new students ......................... 9

III. General information for graduate students ......................................................... 11
i. Important dates .............................................. 11
ii. Forms .......................................................... 11
iii. University activities ......................................... 11

IV. Campus and college resources .......... 12
i. Campus and Visitor Relations Center ............. 12
ii. Steenbock Library ............................................ 12
iii. Writing Center ................................................ 12
iv. Engineering Career Services ........................ 12
v. McBurney Disability Resource Center .......... 12
vi. Makerspace .................................................... 13
vii. TEAM LAB – Technical Education and Manufacturing Lab ........................................ 13

V. Department services ............................... 14
i. Computer use ................................................ 14
ii. Photocopying ............................................... 14
iii. Telephones .................................................... 14
iv. Mailboxes ...................................................... 14
v. Parking permit ................................................ 15
vi. Health insurance ............................................ 15
vii. Desk assignment, keys, and building permits ...... 15

VI. Funding and financial information ...... 16
i. Research assistantships .................................. 16
ii. Teaching assistantships ................................. 16
iii. Fellowships .................................................. 17
iv. Remission of tuition ........................................ 17
v. Parental leave policy ....................................... 17

VII. Expectations of graduate students and faculty advisors .................................... 18
i. Mutual expectations ........................................ 18
ii. Expectations of graduate students .................. 18
iii. Expectations of faculty advisors ..................... 19
iv. Recourse if expectations are not being met .......... 20
v. Advisor selection ............................................. 21
vi. Changing advisors ........................................ 21
vii. Additional advising contacts ......................... 22

VIII. Master of Science (MS) degree requirements ................................................. 23
i. Course and grade requirements ....................... 23
ii. Credits taken as a University Special Student .... 34
iii. Learning outcomes (learning goals) .................. 35
iv. Length of time to degree .................................. 35
v. MS degree final checklist .................................. 37

IX. PhD degree requirements ......................... 38
i. Summary of steps toward a PhD in Mechanical Engineering ........................................ 38
ii. Course and grade requirements ....................... 38
iii. Learning outcomes (learning goals) .................. 41
iv. Qualifying for the PhD program ...................... 41
v. Proposed course program (PhD program and minor approval) .................................... 44
vi. Preliminary examination .................................. 44
vii. Dissertator status ........................................... 46
viii. PhD dissertation guidelines ......................... 46
ix. PhD final oral examination (defense) guidelines .. 47
x. PhD degree final checklist .............................. 48
xi. Check-out procedure ...................................... 49
xii. Length of time to degree ................................ 49
xiii. PhD timeline overview .................................. 50
X. PhD minor in Mechanical Engineering... 51
   i. Requirements for external minor................. 51

XI. Enrollment......................................... 52
   i. Minimum credit requirements .................... 52
   ii. Minimum full-time enrollment requirements... 52
   iii. Research and independent study courses ...... 53
   iv. Wait list ........................................... 53
   v. Credit overload ..................................... 54

XII. Commencement................................. 55
   i. Degree completion letter ......................... 55
   ii. Duplicate or replacement diploma ............. 55

XIII. Satisfactory progress: academic expectations .............................................. 56
   i. Probation ............................................. 56

XIV. Satisfactory progress: conduct expectations................................................. 58
   i. Professional conduct ................................ 58
   ii. Hostile and intimidating behavior ............... 60
   iii. Academic misconduct ................................ 61
   iv. Non-academic misconduct ......................... 62
   v. Research misconduct ................................ 63

XV. Academic exception petition .............. 65

XVI. Disciplinary action and dismissal ...... 66

XVII. Grievance procedures and reporting misconduct and crime ...................... 68
   i. Grievance procedures ................................ 68
   ii. Mechanical Engineering’s procedures for proper accounting of student grievances ..... 68
   iii. Reporting misconduct and crime ............... 69
Introduction and program overview

Welcome! We thank you for selecting this university, and especially our department, to pursue your M.S. and/or Ph.D. degree program. We are delighted to have you as part of our community and hope that you find your studies at UW-Madison to be intellectually stimulating and rewarding.

The purpose of this handbook is to provide you, as a graduate student in the Department of Mechanical Engineering, with information to facilitate your graduate studies.

Program authority to set degree requirements beyond the minimum required by the Graduate School lies with the Mechanical Engineering program faculty. The policies described in this handbook have been approved by the program faculty as a whole. The guide contains a number of items that are not discussed in other University of Wisconsin-Madison publications. Degree and course requirements may change over time. However, students must meet the degree and course requirements in effect when they entered the program. In addition, administrative procedures and processes can change over time. Students are required to follow the procedures and processes listed in the current handbook. Thus, you are urged to read this booklet carefully, both now and as you progress through your degree program. Students may also wish to consult the Graduate School’s website:

⇒ grad.wisc.edu

Please be aware that it is up to you and your advisor to put together a coherent sequence of courses that satisfies all of the department and the Graduate School requirements.

If you have any questions concerning the information contained in this guide, please stop by the Graduate Student Services Office (3182 Mechanical Engineering Building). Please do not hesitate to contact me if I can be of assistance.

On Wisconsin!

Prof. Darryl Thelen
John Bollinger Chair of Mechanical Engineering

This guide was prepared by the Department of Mechanical Engineering, University of Wisconsin-Madison.

Please send comments or suggestions for improvements to dept@me.engr.wisc.edu.

On the cover: Driving Force is a Percent for Art installation by Stuart Keeler and Michael Machnic on the ceiling of the Mechanical Engineering Building’s central atrium. The artwork is made from 105 laminated architectural glass units depicting energy and motion, held within an architectural grid suspension system. © UW–Madison University Communications; photo by Bryce Richter
I. **Important addresses**

**Mechanical Engineering Business Office**
2107 Mechanical Engineering Building
1513 University Avenue, Madison, WI 53706-1572
(608) 262-3543 | dept@me.engr.wisc.edu

**Department Chair**
Professor Darryl Thelen
2107 Mechanical Engineering Building
(608) 262-1902
dgthelen@wisc.edu

**Department Associate Chair for Research**
Professor Xiaoping Qian
2051 Mechanical Engineering Building
(608) 890-1925
qian@engr.wisc.edu

**Department Associate Chair for Graduate Studies**
Professor Frank Pfefferkorn
1031 Mechanical Engineering Building
(608) 263-2668
frank.pfefferkorn@wisc.edu

**Department Associate Chair for Undergraduate Studies**
Professor Michael Zinn
3043 Mechanical Engineering Building
(608) 263-2893
mike.zinn@wisc.edu

**Department Administrator**
Catherine Carter
2107 Mechanical Engineering Building
(608) 265-2155
clcarter2@wisc.edu

**Assistant Department Administrator**
Barb Wipperfurth
2107 Mechanical Engineering Building
(608) 262-8455
barb.wipperfurth@wisc.edu

**Research Administrator**
Zach Smith
2001 Mechanical Engineering Building
(608) 890-1090
zach.smith@me.wisc.edu

**Research Administrator**
Catherine Shults
2001 Mechanical Engineering Building
(608) 263-5372
catherine.shults@wisc.edu

**Accountant**
Yan Xu
2101 Mechanical Engineering Building
(608) 890-3699
xu364@wisc.edu

**Purchasing and Travel**
Corentine Kinzley
2107 Mechanical Engineering Building
(608) 890-3032
ckinzley@wisc.edu

**Communications**
Meg Hamel
2107 Mechanical Engineering Building
(608) 265-8438
meg.hamel@wisc.edu

**Payroll & Benefits (Biomechanics; Computational; Mechanics and Controls; Solar Energy)**
Tanya Trejo
2107 Mechanical Engineering Building
(608) 890-2562
tanya.trejo@wisc.edu

**Payroll & Benefits (Engine Research Center; Manufacturing)**
Shannon Halkoski
2107 Mechanical Engineering Building
(608) 263-5626
sreilly2@wisc.edu

**Office Manager**
Hannah Douglas
2107 Mechanical Engineering Building
(608) 262-8223
hannah.douglas@wisc.edu

**Graduate Program Coordinator**
Sara Hladilek
3182 Mechanical Engineering Building
(608) 262-8617
shladilek@wisc.edu
i. **Important websites**

- **Graduate School**
  - [grad.wisc.edu](http://grad.wisc.edu)

- **Mechanical Engineering**
  - [engr.wisc.edu/department/mechanical-engineering](http://engr.wisc.edu/department/mechanical-engineering)

- **Mechanical Engineering forms**
  - [engr.wisc.edu/department/mechanical-engineering/contact/forms](http://engr.wisc.edu/department/mechanical-engineering/contact/forms)

- **Mechanical Engineering degree information**
  - [engr.wisc.edu/department/mechanical-engineering/academics/master-phd-degrees-mechanical-engineering/](http://engr.wisc.edu/department/mechanical-engineering/academics/master-phd-degrees-mechanical-engineering/)

- **The Graduate Guide**
  - [guide.wisc.edu/graduate](http://guide.wisc.edu/graduate)

- **UW’s Response to COVID-19**
  - [covid19.wisc.edu](http://covid19.wisc.edu)

- **COVID-19 Information for graduate students**
  - [grad.wisc.edu/covid19](http://grad.wisc.edu/covid19)

ii. **For assistance with health problems and emergencies**

University Health Services, 333 East Campus Mall, 7th floor; Lakeshore Drop-in Clinic (Dejope Hall)

- 24-Hour Mental Health Crisis Line: 608-265-5600, then press 9
- Schedule an appointment, or speak with an after-hours nurse, by calling 608-265-5600.
- Associate Counselor Michelle Bond focuses on Engineering students

Dean of Students Office, 75 Bascom Hall, (608) 264-5700, 7:30 am–5:00 pm, Monday–Friday

Dane County Mental Health Center’s Emergency Lines, 24 hours daily, (608) 280-2600

Madison Police and Medical Emergency: 911, Non-Emergency number: (608) 266-4275

University Police Emergency: 911, Non-Emergency number: (608) 264-COPS (2677)
II. New graduate student checklist: What do I do now?

Adapted from
⇒ grad.wisc.edu/new-students

i. Visit the Graduate Student Services Office

Visit the Graduate Student Services Office (3182 Mechanical Engineering Building) and meet your graduate program coordinator. Although the Graduate Student Services Office is there to assist you, it is your responsibility to be aware of graduate policies and deadlines.

ii. Activate your UW–Madison NetID

Your NetID is your unique credential for accessing your online services at UW–Madison. You will need your 10-digit campus ID number. Follow these instructions to activate your NetID:
⇒ kb.wisc.edu/iam/page.php?id=1140

You can change your password, and set recovery questions in case you forget your password.
⇒ mynetid.wisc.edu/modify

iii. Enroll in classes

Students enroll at my.wisc.edu. You will need your NetID and password to access the MyUW portal. (See Activate your UW–Madison NetID for more information). You can enroll at any time after your Enrollment Appointment Time until each session’s class-add deadline. You can find your enrollment time in your Student Center at my.wisc.edu. To enroll after the add period for a course, you will need department and/or dean’s permission. You will not be able to obtain your student ID card (Wiscard) until you enroll.

iv. Pay your tuition and fees

Check your student account invoice for amount due and payment deadlines. Pay your fees and tuition, if applicable, at the Bursar’s Office. If you do not receive an invoice, contact the Bursar’s Office. Failure to receive an invoice will not be accepted as a reason for failure to comply with payment deadlines.
⇒ bursar.wisc.edu

v. Get your student ID card (Wiscard)

Get your student ID card at the Wiscard Office. You must be enrolled and have valid identification (such as a valid driver’s license, passport, or state ID) to get your Wiscard. Prerequisite: You must be enrolled.

⇒ wiscard.wisc.edu
vi. **Locate your WiscMail account and “wisc.edu” address**

When you have activated your NetID, log on to my.wisc.edu and open the “Email” tile. WiscMail is UW–Madison’s centrally supported email service, providing a reliable service with built-in spam filtering and other features. **All campus units, including Mechanical Engineering, the Graduate School, the Office of the Registrar (your student records), and the Bursar’s Office (tuition and fees) will only send mail to your official wisc.edu address. Read your email often.**

WiscMail is based on a version of Microsoft Office365/Outlook. You can set up an Outlook app on your computer, and configure other email clients—including mobile devices—to read and send from your wisc.edu account. Start with these instructions:

↗ [kb.wisc.edu/28350](http://kb.wisc.edu/28350)

vii. **Activate your CAE account**

CAE accounts are automatically established for all engineering students from their current registration information, and they allow for a variety of services at no charge to the student. Your CAE account will give you access to the many computing resources in the College of Engineering including the CAE Windows and Linux workstations, and access to software. Your CAE account is available as long as you are enrolled in an engineering course, until your graduation. On the CAE site, clicking the “Activate your CAE account” link or emailing the CAE Helpdesk at helpdesk@cae.wisc.edu.

**Prerequisite:** You must have had your Wiscard for about a week.

↗ [cae.wisc.edu](http://cae.wisc.edu)

viii. **Update your mailing address and phone number**

Your student record can include both a Home address (your current address while a student) and a Mailing address (often a student's more permanent address, or that of a parent/family member). Before you graduate, you can also add a Diploma address for receiving that mailed document. Update these addresses and your current phone number through Student Center. To update your address before you enroll for your first semester, contact the Graduate Admissions Office at (608) 262-2433.

↗ [kb.wisc.edu/4126](http://kb.wisc.edu/4126)

ix. **Pick up your free Madison Metro bus pass**

As a UW student, you can pick up a bus pass at no charge from the Student Activity Center at 333 East Campus Mall at the beginning of the fall and spring semesters. Be sure to have your Wiscard with you. Visit the Associated Students of Madison website for more information on their services. **Prerequisite:** You must be enrolled.

↗ [kb.wisc.edu/84191](http://kb.wisc.edu/84191)

x. **Complete the online sexual violence prevention program**

This is required for all new graduate students. The course will be activated in late summer and graduate students will be officially notified of their responsibility to complete the training at that time.

↗ [uhs.wisc.edu/prevention/violence-prevention/grad-students](http://uhs.wisc.edu/prevention/violence-prevention/grad-students)
xi. **Affecting some new students**

a. **If you are an international student here on a visa**
   
   You must check in with International Student Services immediately upon arrival.
   Red Gym, 716 Langdon Street, room 217
   
   ✅ iss.wisc.edu

b. **If you are an international student interested in a Social Security Number**
   
   Only F-1 and J-1 students employed on campus are eligible for a Social Security number. If you are eligible, find out how to sign up for a Social Security number and get answers to your tax questions from the Office of Human Resources Payroll and Benefits Services:
   
   ✅ ohr.wisc.edu

c. **If you are required to take the ESLAT (English as a Second Language Assessment Test)**
   
   There are multiple opportunities to take this test. For schedule and location information, visit the English as a Second Language Program, (608) 263-3780. Students must bring their campus ID number and a photo ID (such as passport or Wiscard). If you have questions, please contact the ESL Office at askesl@english.wisc.edu.
   
   ✅ esl.wisc.edu

d. **If you have been notified that you will receive financial aid through the FAFSA process (this is not referring to assistantship awards)**
   
   Your financial aid award will automatically be applied to your student account to pay tuition and fees. The Bursar’s Office will send any remaining amount in the form of a check to your mailing address. Make sure your mailing address is up-to-date. You can also have an ACH transaction deposited directly to your bank account.

e. **If you received a financial award that included tuition remission**
   
   If you received a financial award that included remission of tuition (unless the award was a fellowship), you are still responsible to pay segregated fees by the tuition due date.
   Bursar’s Office, (608) 262-3611
   
   ✅ bursar.wisc.edu

f. **If you are a new graduate assistant:**

   Get information on your benefits package from the Office of Human Resources. Prior to your start date, you must check in with the Mechanical Engineering Payroll & Benefits Coordinator and submit necessary documents.
   
   ✅ hr.wisc.edu/benefits/new-employee-benefits-enrollment
g. **If you did not previously submit final transcripts:**

Bring the requested final transcript(s) to the Graduate School located in Bascom Hall, 500 Lincoln Drive, room 228. If you do not submit final transcripts by the third week of classes, you **will not** be able to register for future semesters until you do so. This is not required for students who completed their undergraduate degree at UW–Madison.

If your previous institution uses an electronic transcript delivery method please have that institution send your official transcripts to the UW–Madison Graduate School at transcripts@grad.wisc.edu.
III. General information for graduate students

i. Important dates

Each semester, review the Academic Calendar and important enrollment deadlines posted by the Office of the Registrar. The Graduate Student Services Office will email students at the beginning of each semester to remind students of the deadlines. **It is your responsibility to be aware of and meet all deadlines.**

- secfac.wisc.edu/academic-calendar
- registrar.wisc.edu/dates

ii. Forms

General Graduate School forms
- grad.wisc.edu/documents/forms

Graduate School academic policies
- grad.wisc.edu/academic-policies

Office of the Registrar student forms
- registrar.wisc.edu/forms

Department of Mechanical Engineering forms
- engr.wisc.edu/department/mechanical-engineering/contact/forms

iii. University activities

Many athletic and art events supported by the University have discounted student rates. There are also hundreds of free lectures, performances, and social activities open to students every year.

- today.wisc.edu
IV. Campus and college resources

i. Campus and Visitor Relations Center

This center maintains lists of available off-campus housing and provides general information on academic and non-academic topics that may be of interest to students.
Union South, Suite 329, 1308 W. Dayton St., (608) 263-2400.

-> info.wisc.edu

ii. Steenbock Library

A substantial collection of engineering materials is held at Steenbock Library, which also serves Agricultural & Life Sciences and Veterinary Medicine. The engineering librarians help connect students and researchers to high-quality information and user-centered services: books (both in print and electronic), journals, standards, and government documents (e.g., patents). Services include article and book delivery, citation management, and new publication alerts.

Steenbock Library, room 118, 550 Babcock Drive, (608) 262-0696, asksel@library.wisc.edu

-> library.wisc.edu/steenbock

iii. Writing Center

The Writing Center provides free face-to-face and online consultations which focus on a number of different writing scenarios (i.e., drafts of course papers, resumes, reports, application essays, cover letters, theses, etc.). Writing Center instructors will not edit or proofread papers. Instead, their goal is to teach students to edit and proofread in order to become better, more confident writers.
6171 Helen C. White Hall, (608) 263-1992

-> writing.wisc.edu

iv. Engineering Career Services

Engineering Career Services provides lifetime tools for successful career development in a rapidly changing world. ECS helps students in preparing for internships and co-ops, as well as, job searches (resume & cover letter writing, listing of potential employers, etc.), practicing interviewing skills (mock interviews, sample interview questions), and other important career information such as negotiating job offers and salaries.

Julie Rae, Assistant Director for Graduate Student Career Services, 1150 Engineering Hall, 1415 Engineering Drive, (608) 262-3471, ecs@engr.wisc.edu

-> ecs.wisc.edu

v. McBurney Disability Resource Center

Students who have a documented disability, or suspect that they may have an undiagnosed disability, are encouraged to contact the McBurney Disability Resource Center to inquire about obtaining academic accommodations. The McBurney Center provides academic accommodations such as adaptive/assistive technology access, assistive listening devices, document conversion, elevator keys,
ASL interpreting, note taking support, testing accommodations, and reduced credit load recommendations to name a few. Students must provide documentation and be registered with the McBurney Center to receive a Verified Individualized Services & Accommodations (VISA) form needed to receive accommodations.

Students with disabilities are encouraged to inform their faculty advisor and instructor of their need for disability-related accommodations in a timely manner. Implementation of reasonable accommodations is a shared faculty and student responsibility. Faculty, either directly or in coordination with the McBurney Disability Resource Center, are expected to work with students to identify and provide reasonable accommodations.

[grad.wisc.edu/documents/disabilities]

702 W. Johnson St., Suite 2104, Telephone: (608) 263-2741, Text: (608) 225-7956
[mcburney.wisc.edu]

vi. Makerspace

The UW Makerspace includes 12,000 square feet of shop and flex space with a wide range of rapid prototyping equipment. The UW Makerspace is a place for students to collaborate, experiment, and create prototypes. You may visit and tour the UW Makerspace for free. If you wish to use equipment, there is a fee that must be paid once per semester.

[Wendt Commons, 215 N. Randall Ave., (608) 571-7023, maker-contact@lists.wisc.edu]
[making.engr.wisc.edu]

vii. TEAM LAB – Technical Education and Manufacturing Lab

The College of Engineering’s Technical Education and Manufacturing Lab (TEAM Lab) is a 13,791-square-foot facility located in the lower level of the Engineering Centers Building (ECB). The TEAM Lab provides students with the majority of the tools and equipment found in a modern machine shop for manufacturing metal parts. The lab is equipped with both manual and CNC mills and lathes, drill presses, grinders, belt sanders, band saws, and additional equipment. The lab also houses a full wood lab, welding lab, and sheet metal lab. You may visit and tour the TEAM Lab for free. If you wish to use equipment then there is a permitting/training process. Permits are valid for the duration of a student’s studies. Use of the equipment in the TEAM Lab requires a fee that must be paid once per semester.

Engineering Centers Building, room B1084, 1550 Engineering Drive, (608) 261-1112,
teamlab@engr.wisc.edu
[teamlab.engr.wisc.edu]
v. **Department services**

i. **Computer use**

All enrolled engineering students may use the Computer-Aided Engineering (CAE) computer facilities located in the CAE Center, 1410 Engineering Drive, across the street from Engineering Hall. CAE users can access various computers at this location and at a number of CAE computer labs across the engineering campus.

CAE HelpDesk, room 116, 1410 Engineering Drive, (608) 262-5349, helpdesk@cae.wisc.edu

cai.wisc.edu/labs

ii. **Photocopying**

Photocopying on the department and student services copy machines is not permitted for personal purposes, including for your enrolled courses. If photocopying is required for your research project, see your advisor for an access code number. Teaching assistants will be given an access code for the copier by the department administrator.

iii. **Telephones**

The majority of campus phone lines are based on VoIP (voice over internet). Student access to university telephone services is limited to internal university and local calls. University-related (research, teaching, extension) long-distance calls may be made on the telephone of your advisor with their permission.

- Campus calls (or to any local government number that starts with 26x-xxxx): dial the 7-digit number.
- Other local calls: 1, the 7-digit number

See other dialing patterns:

cai.kb.wisc.edu/72677

iv. **Mailboxes**

You are assigned a shared mailbox for department notices and messages, campus mail, and U.S. mail. The mailboxes are in the ground-floor hallway between the Mechanical Engineering Building and the Engineering Research Building. There is one graduate-student mailbox for each letter of the alphabet, sorted by last name.

Because of demands on space and staff time, please do not have personal mail sent to your engineering mailbox. The staff will not distribute your personal mail. The correct address for your mailbox is:

[your name]
Department of Mechanical Engineering
University of Wisconsin–Madison
v. **Parking permit**

Limited car/truck parking is available for approved student commuters and students with special needs on a space-available basis. Students may purchase university parking permits for Lots 34, 41, 46, 59, 76, and 83. There is frequent free campus bus service between these lots and the engineering campus. The best advice to students regarding parking on campus is don’t bring a car. Most students walk, bike, or take the bus (using their free Madison Metro bus pass).

Permits are also available for motorcycles and mopeds, which must always be parked in designated stalls, not on sidewalks or unmarked areas.

[transportation.wisc.edu/permits/student-parking](transportation.wisc.edu/permits/student-parking)

Students must first get preapproval to confirm they fit the criteria for a permit. Start the process by completing a Student Parking Preapproval Application.

[transportation.wisc.edu/permits/student-parking/student-parking-application](transportation.wisc.edu/permits/student-parking/student-parking-application)

vi. **Health insurance**

Health care is available at the University Health Service (UHS) for all UW–Madison students. See their website for details on the coverage offered. Hospitalization and emergency room services are not included in UHS benefits. Health insurance covering hospitalization and emergency services is strongly recommended. Information concerning group health insurance, which is available to those holding at least a 33.3% appointment as a graduate research assistant, grad Fellow, or teaching assistant, may be obtained from the department payroll & benefits coordinators. Unsupported graduate students are not eligible for insurance offered to RAs and TAs. Unsupported students may contact the Wisconsin Student Association for health insurance information.

[uhs.wisc.edu](uhs.wisc.edu)

vii. **Desk assignment, keys, and building permits**

Research assistant and teaching assistant requests for a desk should be made to your advisor or supervising professor.

Keys for offices or laboratories in the Mechanical Engineering Building can be obtained by submitting a key request form. Once the request is approved by your advisor, you will receive an email notifying you to come to the department office (2107 Mechanical Engineering Building) with your Wiscard to pick up your keys.

Wiscards serve as the key for the outside doors of all College of Engineering building. Access is automatically granted to all enrolled students in the College of Engineering. Students located in the Engineering Research Building (ERB) or Engineering Hall obtain key and building permit forms through their faculty advisor.
VI. Funding and financial information

Graduate students earn a monthly stipend when they hold a research assistant (RA) or teaching assistant (TA) appointment. In addition, there are various fellowships for which graduate students may apply. Information regarding assistantship payroll and policies/procedures may be found here: https://grad.wisc.edu/documents/assistantships/. Note that students in the MS Accelerated, MS Automotive Engineering, and MS Modeling and Simulation in Mechanical Engineering named options are not eligible for TA, RA, and program assistant positions.

i. Research assistantships

Research assistant appointments are made by the department chair in consultation with individual professors according to their needs and the availability of funding for their research projects. The level of funding varies based on appointment percentage with the rate dependent on whether or not the student has obtained dissertator status. New projects may start at any time of the year. Thus, prospective students should contact the professors who have research related to their interests to determine RA position availability.

Graduate students with RA appointments must check in with the department payroll & benefits coordinators prior to their start date and submit the necessary documents available online at hr.wisc.edu/benefits/new-employee-benefits-enrollment. Stipends are paid on or before the first day of the month following the appointment begin date, and each month thereafter. Research assistants do not accrue paid vacation or sick leave. Arrangements for leave are made through faculty advisors.

See section v. Parental leave policy for information related to parental leave. See section XI. Enrollment for information on enrollment requirements for RA appointments.

ii. Teaching assistantships

Teaching assistant appointments are made by the department chair. To apply for a TA position, submit an application using the online form found on the Mechanical Engineering website. Please be certain to describe any prior teaching experience and classes you would be a good candidate to teach.

enuous.wisc.edu/department/mechanical-engineering/contact/forms

UW System policy requires non-native English speakers to demonstrate proficiency in spoken English before they are assigned classroom duties as a TA. Get information on spoken English requirements and the SPEAK test from the English as a Second Language Program. There are enrollment minimums for TAs (see Section XIII.ii).

easl.wisc.edu/ita-training/speak

The department has adopted the College of Engineering’s policy on the continuous improvement of teaching assistants. New TAs are required to attend New Educator Orientation (NEO) training organized by the College of Engineering held during the week before the first semester they teach.

eeceete.engr.wisc.edu/ta-training

If you have any questions about teaching assistantships, stop by the department office for help.
iii. **Fellowships**

University fellowships are awarded to graduate students by the university and/or department from funds controlled by the Graduate School, college, or department. Most fellowships are equivalent to an RA, but some are less and may be used to supplement an RA stipend. Some, but not all, fellowships are limited to U.S. students. Department fellowships are typically awarded in the spring semester for the subsequent academic year. Graduate fellowships are also awarded by organizations outside the university. Consult with your advisor about fellowship opportunities.

[grad.wisc.edu/funding](http://grad.wisc.edu/funding)

iv. **Remission of tuition**

You must have a research assistant appointment, teaching assistant appointment, program assistant appointment, or a combination thereof, equaling at least 33.3% for the length of the fall or spring term, to be eligible for full tuition remission for that term. Please note: students who receive tuition remission are still required to pay segregated fees by the tuition due date. If a student has had a qualifying appointment in the spring semester, it automatically carries over for the summer session but the student must be enrolled for 2 summer credits (3 credits if they are a dissertator).

v. **Parental leave policy**

The Department of Mechanical Engineering and the College of Engineering are fully committed to providing a supportive climate for women and their partners who choose to have children during their graduate studies. The parental leave policy reduces academic and financial hardships for a) female graduate students during the late stages of their pregnancy, childbirth, and postpartum periods; and b) any graduate student who is a new parent providing care for an infant.

[sites.google.com/a/wisc.edu/graduate-parental-leave](http://sites.google.com/a/wisc.edu/graduate-parental-leave)
VII. **Expectations of graduate students and faculty advisors**

i. **Mutual expectations**

- As professionals in a diverse and inclusive environment, graduate students and faculty members will treat everyone in the department with equal respect and dignity.

- Faculty advisors and students will carry out their respective responsibilities with the aim of performing research at the level of a world-class university in an honest and ethical manner.

- When a student joins their advisor’s research group, the student and advisor make a mutual commitment to perform research together toward the aim of the student’s MS or PhD thesis and the associated intellectual products (publications, patents, presentations, etc.).

- Advisors and students will be aware of department policies as laid out in this handbook.

- Both the student and the advisor will make their expectations clear to each other. Both the student and the advisor are expected to complete the Graduate On-Line Assessment & Achievement Learning System (GOAALS) report each year. Both students and advisors will inform each other of any significant changes that may affect a student’s research or academic progress.

ii. **Expectations of graduate students**

- You are expected to follow the academic traditions of your advisor. Since the advisor’s role and expectations can vary, discuss roles and expectations with your advisor (or prospective advisors).

- You are expected to develop, over time, the professionalism that is critical for success in your future careers. Working with high ethical standards is expected throughout the graduate program.

- Although graduate mentors and academic staff provide guidance, you are responsible for your own education, and for satisfying degree requirements of the Graduate School and of your specific graduate program.

- You are expected to develop a work schedule that allows for a healthy work-life balance. Research may require occasional periods of intense workload to meet important deadlines, but this should not be routine. Some research may also require long experimental campaigns, possibly requiring overnight supervision, but this responsibility will be shared.

- Graduate students on assistantships are expected to dutifully carry out their research/teaching in addition to meeting coursework requirements which means:
  - You should expect that your coursework and assistantship duties amount to a full-time professional commitment.
  - In consultation with your advisor(s), you should maintain a schedule to be in your office/lab.

---

1 One mechanism that is available is the College of Engineering’s Graduate On-Line Assessment & Achievement Learning System (GOAALS) that graduate students and their advisors must complete once per year.
You should consult your faculty advisor(s) for guidance on course loads that are commensurate with assistantship responsibilities.

You should coordinate, in advance, workload adjustments to accommodate temporary periods of intense coursework activity.

You should communicate with your primary advisor regarding periods of absence such as leave and vacation².

- Thesis MS and PhD students are expected to engage in formal and informal professional development activities, including performing research, documenting research, contributing to team aspects of a research group, interacting with other experts and peers in their discipline, reading relevant publications, and attending and presenting research at meetings and conferences.

- You are expected to provide your advisor with timely updates on your research, academic progress, concerns, and problems.

- You are expected to attend individual and group meetings held by your faculty advisor.

- You are expected to notify your advisor(s) if you become aware of any safety issues or concerns with your work while on campus.

### iii. Expectations of faculty advisors

- Faculty advisors will exercise the highest standards when working with all students.
  - They will uphold the University’s statement on diversity and treat students fairly and without bias in accordance with Graduate School policies.
    - [diversity.wisc.edu](https://diversity.wisc.edu)
    - [grad.wisc.edu/academic-policies](https://grad.wisc.edu/academic-policies)
  - They will not display hostile and intimidating behavior (HIB) when interacting with students.
    - [hr.wisc.edu/hib](https://hr.wisc.edu/hib)
  - They will participate in recurring training for HIB, bias, and professional ethics.

- Advisors will assist students in acquiring the highest level of knowledge and competence in the field that is possible and chair the committee that will determine whether the student has performed acceptably at each of their degree milestones.

- Advisors will ensure an appropriate working environment for their graduate students.
  - This includes physical safety and workload expectations that are fair and allow students to balance research and academic requirements with a healthy lifestyle.
  - This includes establishing a collegial and professional culture that is conducive to research creativity, productivity, and graduate education within their research groups.

---

² UW–Madison, Human resources, Graduate Assistantship Policies and Procedures, Benefits: [https://hr.wisc.edu/policies/gapp/#benefits](https://hr.wisc.edu/policies/gapp/#benefits)
Advisors will respect Graduate School policy that research assistantships are for performing work that is relevant to the student’s course of study with occasional other duties that are not to exceed 5 hours per week.

Advisors will accommodate temporary periods of intense coursework activity, such as exam periods.

- Advisors will communicate on a regular basis with students regarding the progress of their research, including praise and constructive criticism as appropriate, always with the aim of educating students to become leading independent researchers in their field.
- Advisors will recognize students for their contributions to a research program. This recognition comes in the form of authorship/co-authorship of journal publications and reports and supporting students to present research findings at professional meetings and conferences. Advisors are expected to provide feedback to students’ written documents in a timely manner.
- Advisors will assist students with course selection and academic planning.
- Advisors will assist students to identify possible research mentors and committee members.
- Advisors will communicate on a regular basis with students regarding professional development and enrichment activities and other opportunities. Advisors are expected to provide honest letters of recommendation when requested.
- Each advisor will set written policies on their general expectations for student-advisor meetings (frequency, duration,...), work hours, and vacation time. These policies will be reviewed at least annually with students. Minimum vacation guidelines for research assistantships are set by the university and will be extended to all graduate students, regardless of source of support.

iv. **Recourse if expectations are not being met**

A set of expectations would be inconsequential if there were no recourse for not meeting them. When faculty advisors find that students are not meeting expectations, they will provide direct individual feedback, and document the findings in performance evaluations, if needed. Further recourse would follow the Department’s policy on Satisfactory Progress in Research that is described in this handbook.

If graduate students find that their faculty advisor is not meeting expectations, they are encouraged to bring the matter to the attention of their advisor. If they feel uncomfortable doing so or would like another perspective, students should seek advice from the Chair of the Mechanical Engineering Graduate Committee, Mechanical Engineering Department Chair, or the College of Engineering Assistant Dean for Graduate Affairs. If the gravity of the situation warrants, students should follow the Department and College grievance procedures.

---

3 UW-Madison, Human resources, Graduate Assistantship Policies and Procedures, Benefits:
https://hr.wisc.edu/policies/gapp/#benefits
v. **Advisor selection**

Per Graduate School policy, you must have a faculty advisor who assists you in planning a course sequence that meets degree requirements, and who will discuss career objectives with you. The responsibility for finding an advisor is solely that of students in the MS Mechanical Engineering: Research and PhD Mechanical Engineering programs.

Students enrolled in the accelerated MS programs (MS Mechanical Engineering: Accelerated Program, MS Mechanical Engineering: Automotive Engineering, MS Mechanical Engineering: Modeling and Simulation in Mechanical Engineering) will be **automatically assigned** an advisor.

For MS Mechanical Engineering: Research and PhD Mechanical Engineering programs. — The advisor should be a faculty member whose expertise and project/research interests match closely with those that the student intends to acquire. Students are encouraged to view faculty profiles on the department website and view individual faculty websites when searching for potential advisors. They should also visit with the professors in their interest area to discuss whether or not the faculty member would be willing to serve as their advisor. While no faculty member is obligated to accept a student’s request to serve as advisor, invitations are often accepted except in cases where the faculty member judges that a different advisor would serve the student’s needs better. Once you have secured an advisor, please complete the “Advisor Notification” form and submit it to the ME Graduate Coordinator. All newly admitted students will receive this form in their welcome email/packet.

- directory.engr.wisc.edu/me/faculty
- grad.wisc.edu/documents/advisor

Students may see their official advisor listed in MyUW. The official advisor is entered in the Student Information System (SIS) by the graduate program coordinator.

vi. **Changing advisors**

A student who later decides that a different faculty advisor would be preferable should discuss this with the current advisor and then feel free to seek the change. Selection of an advisor, or a change of advisors, should be based on the faculty member’s ability to guide the student expertly into the chosen area of interest/research. When a student has selected, or changed advisors, please complete the “Add or Change Your Graduate Faculty Advisor” form and submit that to the Graduate Coordinator.

Any student considering changing their faculty research advisor is encouraged to seek advice from their Faculty Advisor, the Chair of the Mechanical Engineering Graduate Committee (Director of Graduate Studies), Chair of the Department, or the Assistant Dean for Graduate Affairs in the College of Engineering. There are many reasons why a graduate student in an MS: Research or PhD degree program may wish to change research advisor. Two reasons and their solutions are described below.

a. **Changing research advisor due to change in research interest**

The process by which a graduate student in an MS: Research or PhD degree program changes research advisors due to a change in research interest is as follows:

- The student should initiate discussions with the proposed research advisor and obtain assurance that the new research advisor is willing to accept the advising role and has a plan for financially supporting the student.
• It is the student’s responsibility to inform their current advisor of their wish to move to a different research program.

• The student should complete the “Add or Change Your Graduate Faculty Advisor” form and submit the form to the Mechanical Engineering Graduate Coordinator.

b. **Changing research advisor due to concerns about the research environment**

Issues of misconduct (scholarly, ethical, harassment, bias, bullying, etc.) should be reported to one or more of the following individuals: Department Chair, Chair of Graduate Committee (Director of Graduate Studies), or the Assistant Dean for Graduate Affairs. Information communicated at the department level will be brought to the attention of the Dean and the course of action determined.

The College of Engineering expects that the climate and culture is conducive to learning and research scholarship, innovation, and entrepreneurship. Graduate students who find themselves in a research environment that does not meet those expectations, as substantiated through the course of an appropriate college-level investigation* and as determined by the Dean, will be given the opportunity to continue their studies under a different faculty research advisor. In this case, the department will facilitate the transition by guaranteeing funding, as needed, to cover the student’s stipend as well as the research expenses (tuition remission costs and funds needed to conduct the research⁵) for a period of up to one year. The period of support can be extended beyond one year if necessary although the intended outcome is for the student to be fully integrated into the program of their new faculty advisor after one year.

vii. **Additional advising contacts**

You should always reference the department’s website, this Handbook, the Graduate Guide, and the Graduate School’s Academic Policies and Procedures for answers on various program-related questions. However, when you need further clarification on any of these policies or procedures, please contact the Mechanical Engineering Graduate Coordinator. The Graduate Coordinator can help answer questions with issues including satisfactory academic progress, academic deadlines, graduation completion, program-related forms, advising/course holds and permissions, and course offerings.

↑[guide.wisc.edu/graduate](guide.wisc.edu/graduate)

↑[grad.wisc.edu/academic-policies](grad.wisc.edu/academic-policies)

---

*Investigations will be conducted in accordance with FPP Ch. 9 by the Office of the Dean of the College of Engineering. The written report of the investigation along with any recommendations for corrective intervention will be provided to the Dean. The Dean in consultation with the assistant Dean for Human Resources and other engineering associate and assistant Deans at UW–Madison, will determine if corrective action is warranted and sufficient or if the case should be referred to the Office of the Provost for further investigation and possible disciplinary action up to and including dismissal; this process is described in FPP Ch. 9.02 and 9.03. Repeated incidents by the same faculty member will result in the case being referred immediately to the Office of the Provost for possible disciplinary action.

⁵The resources needed to conduct the research will be determined by the Dean in consultation with the new faculty advisor and the chair of the department.
The department of Mechanical Engineering offers several different Master of Science degrees options. These include the following named options:

- **MS Mechanical Engineering: Research (2 tracks)**
  - Thesis (previously termed “thesis” option)
  - Independent Study (previously termed “course” option)
- **MS Mechanical Engineering: Automotive Engineering**
- **MS Mechanical Engineering: Modeling and Simulation in Mechanical Engineering**
- **MS Mechanical Engineering Accelerated Program**

*These programs are accelerated MS programs meant to be completed in 12 months or two semesters for UW–Madison College of Engineering undergraduates. Students in these programs do not need a research adviser. They will have an academic advisor automatically assigned, and will not be eligible for TA, RA, and PA positions or to graduate with a research-based thesis.

### i. Course and grade requirements

#### a. Research—Thesis

Curriculum: Total of 30 credits required:

- **ME 903: Graduate Seminar (0 credits)** is required in both of the first 2 semesters in residence at UW–Madison. Off-campus, part-time, or outreach students may delay the completion of this requirement until they are on campus. Delays are granted on a case-by-case basis and must be requested by submitting the “Mechanical Engineering Graduate Program Academic Policy Exception Request” form to the Mechanical Engineering Graduate Coordinator prior to the start of the term. Two terms of ME 903 are required to earn the degree.

- At least 18 formal course credits
  - At least 9 formal course credits in Mechanical Engineering taken at UW–Madison
  - At least 3 formal credits must be numbered 700 or higher and taken at UW–Madison (see 2.d. below for more details).

- At least 9 research credits (ME 790)

- An oral examination on the thesis. Master’s Thesis Guidelines:
  - [grad.wisc.edu/currentstudents/mastersthesis](http://grad.wisc.edu/currentstudents/mastersthesis)

- Minimum Graduate Coursework (50%) Requirement:
  - 50% of credits applied toward the program’s graduate degree credit requirement must be courses designed for graduate work (this includes, but is not limited to, graduate thesis/research, independent study, and practicum/internship credits). Classes that satisfy this requirement are indicated as having the attribute Minimum Graduate Coursework (50%) in the course guide.
Course Level and Type Information:

f. A formal course is defined as any course offering that is not a seminar course, thesis research course, or independent study course.

g. Acceptable formal courses are those numbered 400 and above.

h. At most one 300-level course in engineering, math, or the sciences, taken at UW–Madison, can be used towards the total formal course credit requirement. The 300-level course can be from Mechanical Engineering if approved by the student’s advisor and the Mechanical Engineering Graduate Committee. A course at the 300-level can only be transferred from a UW–Madison undergraduate program if it was taken as a technical elective (i.e., non-required course).

i. The MS program must include at least 3 formal course credits numbered 700 or higher (excluding ME 964 courses unless specifically approved) taken as a graduate student at UW–Madison. These are advanced courses referred to as 700-level courses. A limited selection of courses, with course numbers less than 700 in other departments, have been approved to satisfy this 700-level requirement. The list of approved courses, including approved ME 964 courses:

   ↪ engr.wisc.edu/department/mechanical-engineering/academics/master-phd-degrees-mechanical-engineering

GPA and Grade Requirements:

j. A GPA of at least 3.0 based on all formal course credits attempted applicable to the degree credit requirement, and a GPA of at least 3.0 in Mechanical Engineering formal courses.

k. Credits with a grade of “D” or “F” cannot be used to satisfy requirements.

Previously Earned Graduate Credits from outside UW–Madison:

l. Transfer students may, with advisor approval, request to use a maximum of 9 formal course credits. Previously earned courses must be ones for which graduate credit was awarded at the outside institution.

Previously Earned UW–Madison Undergraduate Degree Coursework:

m. With faculty advisor approval, graduate students who obtained their undergraduate degree from UW–Madison may include up to 7 credits (numbered 400 or above; see h. above for an exception) earned from that degree toward their graduate degree credit requirement. These credits may be counted toward the minimum graduate coursework (50%) requirement if they are from courses numbered 700 or above. Only courses that would normally count towards this Mechanical Engineering graduate degree may be counted. Only courses that were taken at UW–Madison may be counted. The grades from these courses will not be counted towards the student’s graduate GPA. Form for approval of these credits:

   ↪ engr.wisc.edu/department/mechanical-engineering/contact/forms

Advisor Approval of Study Plan:

n. The faculty advisor must always approve the courses a student takes in the MS program. Students should schedule an appointment with their adviser 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.

You must be enrolled for the semester in which you will graduate and successfully complete the courses in which you are enrolled.

**THESIS and DEFENSE:**

o. **COMMITTEE:** A final thesis defense must be presented to a thesis committee of at least three members (but no more than five) consisting of the student’s advisor who is the committee chair (who must be a member of the Mechanical Engineering faculty), one other graduate faculty or former graduate faculty up to one year after resignation or retirement, and one of the following: a third graduate faculty member, a retired faculty member with emeritus status, or a UW–Madison academic staff member who has been approved by the Mechanical Engineering executive committee.

   - Graduate faculty hold the title of professor, associate professor, or assistant professor as listed in the UW–Madison directory:
     ➤ https://www.wisc.edu/directories/

   - To determine if a retired faculty member has emeritus status check the UW–Madison directory, if the person is listed in the directory with the title emeritus, then they have emeritus status.

   - To have an academic staff member approved to serve on committees have them submit their current curriculum vitae to the Graduate Committee chair or to the Graduate Student Services Office for approval by the department executive committee.

   - Committee members beyond the third member must conform to the list on the graduate school’s website (https://grad.wisc.edu/acadpolicy/#committees), and must be approved by the student’s advisor.
     ➤ grad.wisc.edu/documents/committees

p. Students must submit the final-draft copy of their thesis to the examination committee at least one week prior to the exam.

q. The final version of your thesis must be dropped off in room B137 of Memorial Library, 728 State Street, before the degree deadline. You should have a title page and an approval page created for your advisor’s signature and the date. Note that if you miss the deadline, you will be responsible for tuition and fees for an additional semester. Please thoroughly review The Graduate School **Completing Your Master’s Degree** webpage for required document and submission specifics: https://grad.wisc.edu/current-students/masters-guide/.
b. **Research—Independent Study**

*(NOTE: Students admitted to the MS – Research program through the Fall 2021 term may select the 'Independent Study' track. Students admitted to Spring 2022 and beyond will be required to follow the 'Thesis' track.)*

Curriculum: Total of 30 Credits required:

a. ME 903: Graduate Seminar (0 credits) is required in both of the first 2 semesters in residence at UW–Madison. Off-campus, part-time, or outreach students may delay the completion of this requirement until they are on campus. Delays are granted on a case-by-case basis and must be requested by submitting the “Mechanical Engineering Graduate Program Academic Policy Exception Request” form to the ME Graduate Coordinator prior to the start of the term. Two terms of ME 903 are required to earn the degree.

b. At least 24 formal course credits
   
   i. At least 15 formal course credits in Mechanical Engineering taken at UW–Madison
   
   ii. At least 3 formal credits must be numbered 700 or higher (see 2. below for more details).

c. A minimum of 3 credits of independent study (ME 699) taken at UW–Madison with a Mechanical Engineering faculty advisor are required.

d. Minimum Graduate Coursework (50%) Requirement:
   
   i. 50% of credits applied toward the program’s graduate degree credit requirement must be courses designed for graduate work (this includes, but is not limited to, graduate thesis/research, independent study, and practicum/internship credits). Classes that satisfy this requirement are indicated as having the attribute Minimum Graduate Coursework (50%) in the course guide.

Course Level and Type Information:

e. A formal course is defined as any course offering that is not a seminar course, thesis research course, or independent study course.

f. Acceptable formal courses are those numbered 400 and above.

g. At most two 300-level courses in engineering, math, or the sciences, taken at UW–Madison, can be used towards the total formal course credit requirement. The 300-level courses can be from Mechanical Engineering if approved by the student’s advisor and the Mechanical Engineering Graduate Committee. A course at the 300-level can only be transferred from a UW–Madison undergraduate program if it was taken as a technical elective (i.e., non-required course).

h. The MS program must include at least 3 formal course credits numbered 700 or higher (excluding ME 964 courses unless specifically approved) taken as a graduate student at UW–Madison. These are advanced courses referred to as 700-level courses. A limited selection of courses, with course numbers less than 700 in other departments, have been approved to satisfy this 700-level requirement. The list of approved courses, including approved ME 964 courses:

   ↗ enr.wisc.edu/department/mechanical-engineering/academics/master-phd-degrees-mechanical-engineering
GPA and Grade Requirements:

i. A GPA of at least 3.0 based on all formal course credits attempted applicable to the degree credit requirement, and a GPA of at least 3.0 in ME formal courses.

j. Credits with a grade of “D” or “F” cannot be used to satisfy requirements.

Previously Earned Graduate Credits from outside UW–Madison:

k. Transfer students may, with advisor approval, request to use a maximum of 9 formal course credits. Previously earned courses must be ones for which graduate credit was awarded at the outside institution.

Previously Earned UW–Madison Undergraduate Degree Coursework:

l. With faculty advisor approval, graduate students who obtained their undergraduate degree from UW–Madison may include up to 7 credits (numbered 400 or above; see g. above for an exception) earned from that degree toward their graduate degree credit requirement. These credits may be counted toward the minimum graduate coursework (50%) requirement if they are from courses numbered 700 or above. Only courses that would normally count towards this Mechanical Engineering graduate degree may be counted. Only courses that were taken at UW–Madison may be counted. The grades from these courses will not be counted towards the student’s graduate GPA. Form for approval of these credits:

   ↗ engr.wisc.edu/department/mechanical-engineering/contact/forms

Advisor Approval of Study Plan:

m. The faculty advisor must always approve the courses a student takes in the MS program. Students should schedule an appointment with their adviser 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.

You must be enrolled for the semester in which you will graduate and successfully complete the courses in which you are enrolled.

c. Accelerated Program

Curriculum: Total of 30 credits required:

a. ME 903: Graduate Seminar (0 credits) is required in both of the first 2 semesters in residence at UW–Madison. Off-campus, part-time, or outreach students may delay the completion of this requirement until they are on campus. Delays are granted on a case-by-case basis and must be requested by submitting the “Mechanical Engineering Graduate Program Academic Policy Exception Request” form to the Mechanical Engineering Graduate Coordinator prior to the start of the term. Two terms of ME 903 are required to earn the degree.

b. At least 24 formal course credits:
   i. At least 15 formal course credits in Mechanical Engineering taken at UW–Madison.

c. Independent study and seminar coursework (up to 6 credits total permitted):
i. Up to 6 credits of independent study are permitted but not required.

ii. Up to 3 credits of a seminar course is permitted but not required.

d. Thesis Coursework

i. Thesis research credits are not permitted.

e. Minimum Graduate Coursework (50%) Requirement:

i. 50% of credits applied toward the program’s graduate degree credit requirement must be courses designed for graduate work (this includes, but is not limited to, graduate thesis/research, independent study, and practicum/internship credits). At least 9 of these credits must be Mechanical Engineering (ME) credits completed in residency at UW-Madison. Classes that satisfy this requirement are indicated as having the attribute Minimum Graduate Coursework (50%) in the course guide.

Course Level and Type Information:

f. A formal course is defined as any course offering that is not a seminar course, thesis research course, or independent study course.

g. Acceptable formal courses are those numbered 400 and above.

h. At most two 300-level courses in engineering, math, or the sciences, taken at UW–Madison, can be used towards the total formal course credit requirement. The 300-level courses can be from Mechanical Engineering if approved by the student’s advisor and the Mechanical Engineering Graduate Committee. Courses at the 300-level can only be transferred from a UW–Madison undergraduate program if they were taken as technical electives (i.e., non-required courses).

GPA and Grade Requirements:

i. A GPA of at least 3.0 based on all formal course credits attempted applicable to the degree credit requirement, and a GPA of at least 3.0 in Mechanical Engineering formal courses.

j. Credits with a grade of “D” or “F” cannot be used to satisfy requirements.

Previously Earned Graduate Credits from outside UW–Madison:

k. Transfer students may, with advisor approval, request to use a maximum of 12 formal course credits. Previously earned courses must be ones for which graduate credit was awarded at the outside institution.

Previously Earned UW–Madison Undergraduate Degree Coursework:

l. With faculty advisor approval, graduate students who obtained their undergraduate degree from UW–Madison may include up to 7 credits (numbered 400 or above; see f. above for an exception) earned from that degree toward their graduate degree credit requirement. These credits may be counted toward the minimum graduate coursework (50%) requirement if they are from courses numbered 700 or above. Only courses that would normally count towards this Mechanical Engineering graduate degree may be counted. Only courses that were taken at UW–Madison may be counted. The grades from these courses will not be counted towards the student’s graduate GPA. Form for approval of these credits:
Advisor Approval of Study Plan:

m. The faculty advisor must always approve the courses a student takes in the MS program. Students should schedule an appointment with their adviser 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.

You must be enrolled for the semester in which you will graduate and successfully complete the courses in which you are enrolled.

Students must remain in the program for two semesters before being able to add or change programs. During and after the second semester they can make add or change program requests with the approval of the Faculty who will serve as their advisor in the new program. If approved, an add/change program request goes into effect the term after completion or discontinuation of the Accelerated Program named option MS program. Students in the Accelerated Program cannot be enrolled in any other program at the same time.

d. Automotive Engineering

Curriculum: Total of 30 credits required:

a. ME 903: Graduate Seminar (0 credits) is required in both of the first 2 semesters in residence at UW–Madison. Off-campus, part-time, or outreach students may delay the completion of this requirement until they are on campus. Delays are granted on a case-by-case basis and must be requested by submitting the “Mechanical Engineering Graduate Program Academic Policy Exception Request” form to the Mechanical Engineering Graduate Coordinator prior to the start of the term. Two terms of ME 903 are required to earn the degree.

b. At least 24 formal course credits

i. At least 15 formal course credits in Mechanical Engineering taken at UW–Madison

ii. At least 3 formal credits must be numbered 700 or higher (see 2.d. below for more details). 50% of credits applied toward the program’s graduate degree credit requirement must be courses designed for graduate work (see 4. below for details).

iii. 4 courses (12 credits) from the list below must be taken as part of the degree program. The time offered given in the listings above is based on typical course offerings and may vary.

<table>
<thead>
<tr>
<th>Dept.</th>
<th>No.</th>
<th>Name</th>
<th>Credits</th>
<th>Term Offered</th>
<th>50% Grad Course (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME</td>
<td>469</td>
<td>Internal Combustion Engines</td>
<td>3</td>
<td>Fall</td>
<td>No</td>
</tr>
<tr>
<td>ME</td>
<td>561</td>
<td>Intermediate Thermodynamics</td>
<td>3</td>
<td>Fall</td>
<td>Yes</td>
</tr>
<tr>
<td>ME</td>
<td>569</td>
<td>Applied Combustion</td>
<td>3</td>
<td>Fall</td>
<td>Yes</td>
</tr>
<tr>
<td>ME</td>
<td>572</td>
<td>Intermediate Gas Dynamics</td>
<td>3</td>
<td>Fall</td>
<td>Yes</td>
</tr>
<tr>
<td>ME</td>
<td>573</td>
<td>Computational Fluid Dynamics</td>
<td>3</td>
<td>Fall</td>
<td>Yes</td>
</tr>
<tr>
<td>ME</td>
<td>761</td>
<td>Topics in Thermodynamics</td>
<td>3</td>
<td>Fall, odd years</td>
<td>Yes</td>
</tr>
</tbody>
</table>
iv. During the summer term, students are required to enroll in the following 6 credits of internal combustion engine practicum courses:

- ME 669 Engine Experiments (3 credits, 50% Grad Course requirement)
- ME 673 Internal Combustion Engine Simulations (3 credits, 50% Grad Course requirement).

c. Independent study and seminar coursework (up to 6 credits total permitted):

i. Up to 6 credits of independent study are permitted but not required.

ii. Up to 3 credits of a seminar course is permitted but not required.

d. Thesis Coursework

i. Thesis research credits are not permitted.

e. Minimum Graduate Coursework (50%) Requirement:

i. 50% of credits applied toward the program’s graduate degree credit requirement must be courses designed for graduate work (this includes, but is not limited to, graduate thesis/research, independent study, and practicum/internship credits). Classes that satisfy this requirement are indicated as having the attribute Minimum Graduate Coursework (50%) in the course guide.

Course Level and Type Information:

f. A formal course is defined as any course offering that is not a seminar course, thesis research course, or independent study course.

g. Acceptable formal courses are those numbered 400 and above.

h. At most two 300-level courses in engineering, math, or the sciences, taken at UW–Madison, can be used towards the total formal course credit requirement. The 300-level courses can be from Mechanical Engineering if approved by the student’s advisor and the Mechanical Engineering
Graduate Committee. A course at the 300-level can only be transferred from a UW–Madison undergraduate program if it was taken as a technical elective (i.e., non-required course).

i. The MS program must include at least 3 formal course credits numbered 700 or higher (excluding ME 964 courses unless specifically approved) taken as a graduate student at UW–Madison. These are advanced courses referred to as 700-level courses. A limited selection of courses, with course numbers less than 700 in other departments, have been approved to satisfy this 700-level requirement. The list of approved courses, including approved ME 964 courses:

engu.wisc.edu/department/mechanical-engineering/academics/master-phd-degrees-mechanical-engineering

GPA and Grade Requirements:

j. A GPA of at least 3.0 based on all formal course credits attempted applicable to the degree credit requirement, and a GPA of at least 3.0 in Mechanical Engineering formal courses.

k. Credits with a grade of “D” or “F” cannot be used to satisfy requirements.

Previously Earned Graduate Credits from outside UW–Madison:

l. Transfer students may, with advisor approval, request to use a maximum of 12 formal course credits. Previously earned courses must be ones for which graduate credit was awarded at the outside institution.

Previously Earned UW–Madison Undergraduate Degree Coursework:

m. With faculty advisor approval, graduate students who obtained their undergraduate degree from UW–Madison may include up to 7 credits (numbered 400 or above; see f. above for an exception) earned from that degree toward their graduate degree credit requirement. These credits may be counted toward the minimum graduate coursework (50%) requirement if they are from courses numbered 700 or above. Only courses that would normally count towards this Mechanical Engineering graduate degree may be counted. Only courses that were taken at UW–Madison may be counted. The grades from these courses will not be counted towards the student’s graduate GPA. Form for approval of these credits:

engu.wisc.edu/department/mechanical-engineering/contact/forms

Advisor Approval of Study Plan:

n. The faculty advisor must always approve the courses a student takes in the MS program. Students should schedule an appointment with their adviser 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.

Suggested Course Credit Enrollment Plan (Students must maintain fulltime enrollment):

- Fall Semester – 12 credits
- Spring Semester – 12 credits
- Summer Session – 6 credits

You must be enrolled for the semester in which you will graduate and successfully complete the courses in which you are enrolled.
Students must remain in the program for two semesters before being able to add or change programs. During and after the second semester they can make add or change program requests with the approval of the Faculty who will serve as their advisor in the new program. If approved, an add/change program request goes into effect the term after completion or discontinuation of the Automotive Engineering program named option MS program. Students in the Automotive Engineering program cannot be enrolled in any other program at the same time.

e. **Modeling and Simulation in Mechanical Engineering**

Curriculum: Total of 30 credits required:

a. ME 903: Graduate Seminar (0 credits) is required in both of the first 2 semesters in residence at UW–Madison. Off-campus, part-time, or outreach students may delay the completion of this requirement until they are on campus. Delays are granted on a case-by-case basis and must be requested by submitting the “Mechanical Engineering Graduate Program Academic Policy Exception Request” form to the Mechanical Engineering Graduate Coordinator prior to the start of the term. Two terms of ME 903 are required to earn the degree.

b. At least 24 formal course credits
   
i. At least 15 formal course credits in Mechanical Engineering taken at UW–Madison.
   
   ii. The following 2 core courses (6 credits total) are required:
       • ME 459: Computing Concepts for Applications in Mechanical Engineering (3 credits)
       • ME 759: High Performance Computing for Applications in Engineering (3 credits)
   
   iii. A minimum of 4 courses (12 credits total) must be taken from the courses listed below:
       • ME 440: Intermediate Vibrations (3 credits)
       • ME 451: Introduction to Computational Dynamics (3 credits)
       • ME 460: Applied Thermal / Structural Finite Element Analysis (3 credits)
       • ME 468: Computer Modeling and Simulation of Autonomous Vehicles and Robots (3 credits)
       • ME 531: Digital Design and Manufacturing (3 credits)
       • ME 532: Matrix Methods in Machine Learning (3 credits)
       • ME 535: Computer-Aided Geometric Design (3 credits)
       • ME 548: Introduction to Design Optimization (3 credits)
       • ME 558: Introduction to Computational Geometry (3 credits)
       • ME 564: Heat Transfer (3 credits)
       • ME 573: Computational Fluid Dynamics (3 credits)
       • ME 601: Topic: Medical Image Based Modeling (3 credits)
       • ME 601: Topic: Applied & Computational Math w/Engr Apps (3 credits)
       • ME 603: Topic: Applied & Computational Math w/Engr Apps (3 credits)
       • ME 739: Advanced Robotics (3 credits)
       • ME 748: Advanced Optimization Methods (3 credits)
• ME 751: Advanced Computational Dynamics (3 credits)
• ME 764: Advanced Heat Transfer I-Conduction (3 credits)
• ME 964: Topic: Two-Phase Flow Theory and Computation (3 credits)
• EMA 521: Aerodynamics (3 credits)
• EMA 522: Aerodynamics Lab (3 credits)

c. Independent study and seminar coursework (up to 6 credits total permitted):
   i. Up to 6 credits of independent study are permitted but not required.
   ii. Up to 3 credits of a seminar course is permitted but not required.

d. Thesis Coursework
   i. Thesis research credits are not permitted.

e. Minimum Graduate Coursework (50%) Requirement:
   i. 50% of credits applied toward the program’s graduate degree credit requirement must be
courses designed for graduate work (this includes, but is not limited to, graduate
thesis/research, independent study, and practicum/internship credits). Classes that satisfy
this requirement are indicated as having the attribute Minimum Graduate Coursework (50%)
in the course guide.

Course Level and Type Information:

f. A formal course is defined as any course offering that is not a seminar course, thesis research
course, or independent study course.

g. Acceptable formal courses are those numbered 400 and above.

h. At most two 300-level courses in engineering, math, or the sciences, taken at UW–Madison, can
be used towards the total formal course credit requirement. The 300-level courses can be from
Mechanical Engineering if approved by the student’s advisor and the Mechanical Engineering
Graduate Committee. Courses at the 300-level can only be transferred from a UW–Madison
undergraduate program if they were taken as technical electives (i.e., non-required courses).

GPA and Grade Requirements:

i. A GPA of at least 3.0 based on all formal course credits attempted applicable to the degree credit
requirement, and a GPA of at least 3.0 in Mechanical Engineering formal courses.

j. Credits with a grade of “D” or “F” cannot be used to satisfy requirements.

Previously Earned Graduate Credits from outside UW–Madison:

k. Transfer students may, with advisor approval, request to use a maximum of 12 formal course
credits. Previously earned courses must be ones for which graduate credit was awarded at the
outside institution.

Previously Earned UW–Madison Undergraduate Degree Coursework:
1. With faculty advisor approval, graduate students who obtained their undergraduate degree from UW–Madison may include up to 7 credits (numbered 400 or above; see f. above for an exception) earned from that degree toward their graduate degree credit requirement. These credits may be counted toward the minimum graduate coursework (50%) requirement if they are from courses numbered 700 or above. Only courses that would normally count towards this Mechanical Engineering graduate degree may be counted. Only courses that were taken at UW–Madison may be counted. The grades from these courses will not be counted towards the student’s graduate GPA. Form for approval of these credits:

engr.wisc.edu/department/mechanical-engineering/contact/forms

Advisor Approval of Study Plan:

m. The faculty advisor must always approve the courses a student takes in the MS program. Students should schedule an appointment with their adviser 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.

Suggested Course Credit Enrollment Plan (Students must maintain fulltime enrollment):

- Fall Semester – 12 credits
- Spring Semester – 12 credits
- Summer Session – 6 credits

You must be enrolled for the semester in which you will graduate and successfully complete the courses in which you are enrolled.

Students must remain in the program for two semesters before being able to add or change programs. During and after the second semester they can make add or change program requests with the approval of the Faculty who will serve as their advisor in the new program. If approved, an add/change program request goes into effect the term after completion or discontinuation of the Modeling and Simulation in Mechanical Engineering program named option MS program. Students in the Modeling and Simulation in Mechanical Engineering program cannot be enrolled in any other program at the same time.

ii. Credits taken as a University Special Student

Applies to all options

Students are encouraged to enter a graduate program as early as possible and not to “try out” the program as University Special students. Officially entering the program allows the student to receive appropriate advising and be fully integrated into the program structure. If University Special student credits are accepted by a program to fulfill program requirements, it is done on a case-by-case basis and must be approved by the program. The number of credits that may transfer from a UW–Madison University Special student career to a UW–Madison graduate career is limited to no more than fifteen credits numbered 400 or above.

Students using courses taken as a UW–Madison University Special student to count toward the minimum graduate degree, residence, or minor credit requirements have to pay the difference in tuition between graduate and University Special student tuition for the terms in question (already a
historically established practice for the minimum graduate residence requirement). Those credits earned in such a semester still appear in the transcript history as “University Special” student, but the Registrar’s Office adds a statement in the beginning of the transcript: “All credits taken in [term] as a University Special student have been accepted by the Graduate School toward a degree program” after the student has paid the difference in tuition.

iii. Learning outcomes (learning goals)

Learning outcomes are the anticipated knowledge, skills, and values expected to be acquired by all students completing their master’s degree.

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.

iv. Length of time to degree

a. Research—Thesis

The majority of Mechanical Engineering MS Research—Thesis students complete their degree in 2 years. Any student unable to defend their thesis in this period will be reviewed by the Mechanical Engineering Graduate Committee to determine why it is taking longer than expected to complete their degree. It is recognized that there are many reasons why a graduate student may require more time to complete their degree. Therefore, the Mechanical Engineering Graduate Committee will request the following information from the student to review during their meeting:

- Date
- Name of student
- Name of advisor
- Accomplishments to date (300 words or less)
- Extenuating circumstances, if any
- Plans for degree completion (include predicted defense date)

b. Research—Independent Study

The majority of Mechanical Engineering MS Research—Independent Study students complete their degree in two years. Any student unable to complete their degree in this period will be reviewed by the Mechanical Engineering Graduate Committee to determine why it is taking longer than expected to complete their degree. It is recognized that there are many reasons why a graduate student may

---

* Data on Time to Degree can be found at the following Graduate School website: grad.wisc.edu/data/degrees-awarded
require more time to complete their degree. Therefore, the Mechanical Engineering Graduate Committee will request the following information from the student to review during their meeting:

- Date
- Name of student
- Name of advisor
- Accomplishments to date (300 words or less)
- Extenuating circumstances, if any
- Plans for degree completion (include predicted graduation date)

c. **Automotive Engineering**

The Mechanical Engineering MS—Automotive Engineering degree is designed to be completed in 12 months. Any student unable to complete their degree in this period will be reviewed by the Mechanical Engineering Graduate Committee to determine why it is taking longer than expected to complete their degree. It is recognized that there are many reasons why a graduate student may require more time to complete their degree. Therefore, the Mechanical Engineering Graduate Committee will request the following information from the student to review during their meeting:

- Date
- Name of student
- Accomplishments to date (300 words or less)
- Extenuating circumstances, if any
- Plans for degree completion (include predicted graduation date)

d. **Modeling and Simulation in Mechanical Engineering**

The Mechanical Engineering MS—Modeling and Simulation in Mechanical Engineering degree is designed to be completed in 12 months. Any student unable to complete their degree in this period will be reviewed by the Mechanical Engineering Graduate Committee to determine why it is taking longer than expected to complete their degree. It is recognized that there are many reasons why a graduate student may require more time to complete their degree. Therefore, the Mechanical Engineering Graduate Committee will request the following information from the student to review during their meeting:

- Date
- Name of student
- Accomplishments to date (300 words or less)
- Extenuating circumstances, if any
- Plans for degree completion (include predicted graduation date)

e. **Accelerated**

The Mechanical Engineering MS—Accelerated degree is designed to be completed in 12 months. Any student unable to complete their degree in this period will be reviewed by the Mechanical Engineering Graduate Committee to determine why it is taking longer than expected to complete their degree. It is recognized that there are many reasons why a graduate student may require more time to complete
their degree. Therefore, the Mechanical Engineering Graduate Committee will request the following information from the student to review during their meeting:

- Date
- Name of student
- Accomplishments to date (300 words or less)
- Extenuating circumstances, if any
- Plans for degree completion (include predicted graduation date)

v. **MS degree final checklist**

At least four weeks prior to the oral examination (MS Research—Thesis students) or the degree deadline (MS Research—Independent Study, Accelerated Program, Automotive Engineering, Modeling and Simulation in Mechanical Engineering students), students must complete and return the correct Warrant Request form. Warrant request forms:

[engr.wisc.edu/department/mechanical-engineering/contact/forms](engr.wisc.edu/department/mechanical-engineering/contact/forms)

The completed and signed warrant request form should be submitted to the Mechanical Engineering Graduate Coordinator. The Graduate Coordinator will review your degree request and work with the Graduate School to create a degree warrant. When the warrant is ready, students will be notified via WiscMail. Students will then retrieve their degree warrant.

It is student responsibility to obtain signatures and dates and returned the completed warrant to the ME Graduate Coordinator by the degree deadline in order to receive your degree. Degree deadlines:

[grad.wisc.edu/deadlines](grad.wisc.edu/deadlines)


**IX. PhD degree requirements**

i. **Summary of steps toward a PhD in Mechanical Engineering**

Admission to the Department of Mechanical Engineering Graduate Program.

Sufficient scores on the Mechanical Engineering qualifying examination.

Approval of “PhD Program and Minor Approval” document by the Mechanical Engineering Graduate Committee and Mechanical Engineering Departmental Committee.

Approval by the Mechanical Engineering Preliminary Examination Committee.

Approval of dissertation and final examination.

ii. **Course and grade requirements**

Curriculum: Total of 60 credits required:

a. ME 903: Graduate Seminar (0 credits) is required in both of the first 2 semesters in residence at UW–Madison. Off-campus, part-time, or outreach students may delay the completion of this requirement until they are on campus. Delays are granted on a case-by-case basis and must be requested by submitting the “Mechanical Engineering Graduate Program Academic Policy Exception Request” form to the Mechanical Engineering Graduate Coordinator prior to the start of the term. Two terms of ME 903 are required to earn the degree.

b. Research/Thesis Credits: At least 18 research thesis credits (ME 790, ME 890, ME 990) are required with an overall grade of S. Thesis credits must be from the Department of Mechanical Engineering, except in the case of an approved co-advisor; credit then can be obtained through the co-advisor’s department. Pre-dissertators should enroll in ME 890 and dissertators in ME 990.

c. A minimum of 42 formal course credits beyond the BS degree.

i. A minimum of 15 credits (usually five courses) numbered 700 of higher (excluding ME 964 courses unless specifically approved, see 2.d. below).
   - 12 credits (usually four courses) of the 700-level courses must be taken at UW–Madison.
   - A minimum of 6 credits (usually two courses) of 700-level courses must be in Mechanical Engineering at UW–Madison.

ii. [Requirement for students who matriculate into the Mechanical Engineering PhD program\(^7\) in January 2020 or later] A minimum of one math course (3 or more credits). The following courses would satisfy the math course requirement:
   - ME 601: Applied Math for Mechanical Engineers
   - ME 964: Computational Mathematics with Applications in Engineering

---

\(^7\) Matriculation into the Mechanical Engineering PhD program is the term in which the Mechanical Engineering PhD program has been added to the student record.
PhD degree requirements
UW–Madison Department of Mechanical Engineering Graduate Handbook | Fall 2021

- EMA/EP 547: Engineering Analysis I
- EMA/EP 548: Engineering Analysis II
- MATH 321: Applied Mathematical Analysis I
- MATH 322: Applied Mathematical Analysis II
- 400-level and above Math Department courses

iii. Minor requirements: Students must complete one minor option below:

» grad.wisc.edu/academic-policies
» policy.wisc.edu/library/UW-1200

- **Minor Option A** (external).—Requirements for external minor are defined by the department of that minor. Not all courses in Option A may satisfy the Mechanical Engineering Department Formal Credits requirement. Selection of this option requires the approval of the minor by the minor department.

- **Minor Option B** (distributed).—Requires a minimum of 12 formal course credits. The coursework should form a coherent group of courses for which graduate credit is allowed (see 2 below). The approval of the advisor and the graduate and departmental committees is required.

- **Minor Option C** (Graduate/Professional certificate).—Requires successful completion of a Graduate/Professional certificate in a program outside of the student’s doctoral major program.

d. Minimum Graduate Coursework (50%) Requirement:

iv. 50% of credits applied toward the program’s graduate degree credit requirement must be courses designed for graduate work (this includes, but is not limited to, graduate thesis/research, independent study, and practicum/internship credits). Classes that satisfy this requirement are indicated as having the attribute Minimum Graduate Coursework (50%) in the course guide.

Course Level and Type Information:

e. A formal course is defined as any course offering that is not a seminar course, thesis research course, or independent study course.

f. Acceptable formal courses are those numbered 400 and above.

g. At most two 300-level courses in engineering, math, or the sciences, taken at UW–Madison, can be used towards the total formal course credit requirement. The 300-level course can be from Mechanical Engineering if approved by the student’s advisor and the Mechanical Engineering Graduate Committee. A course at the 300-level can only be transferred from a UW–Madison undergraduate program if it was taken as a technical elective (i.e., non-required course).

h. The PhD program must include at least 15 formal course credits numbered 700 or higher (excluding ME 964 courses unless specifically approved) taken as a graduate student at UW–Madison. These are advanced courses referred to as 700-level courses. A limited selection of
courses, with course numbers less than 700 in other departments, have been approved to satisfy this 700-level requirement. The list of approved courses, including approved ME 964 courses:

↗️[engr.wisc.edu/department/mechanical-engineering/academics/master-phd-degrees-mechanical-engineering](https://en.vwics.edu/department/mechanical-engineering/academics/master-phd-degrees-mechanical-engineering)

GPA and Grade Requirements:

i. A GPA of at least 3.25 is required, however, students meeting the minimum requirements in all area are not guaranteed approval of their programs.

j. Programs with less than a 3.5 GPA will be scrutinized closely.

k. PhD candidates may not have more than two incompletes on their record at any time.

l. Students must earn a “C” or above in all formal coursework. Credits with a grade of “D” or “F” cannot be used to satisfy requirements.

Previously Earned Graduate Credits from outside UW–Madison:

m. Transfer students may, with advisor approval, request to use a maximum of 24 formal course credits. Previously earned courses must be ones for which graduate credit was awarded at the outside institution.

↗️[engr.wisc.edu/department/mechanical-engineering/contact/forms](https://en.vwics.edu/department/mechanical-engineering/contact/forms)

Previously earned UW–Madison Undergraduate Degree Coursework:

n. With faculty advisor approval, graduate students who obtained their undergraduate degree from UW–Madison may include up to 7 credits (numbered 400 or above; see g. above for an exception) earned from that degree toward their graduate degree credit requirement. These credits may be counted toward the minimum graduate coursework (50%) requirement if they are from courses numbered 700 or above. Only courses that would normally count towards this Mechanical Engineering graduate degree may be counted. Only courses that were taken at UW–Madison may be counted. The grades from these courses will not be counted towards the student’s graduate GPA. Form for approval of these credits:

↗️[engr.wisc.edu/department/mechanical-engineering/contact/forms](https://en.vwics.edu/department/mechanical-engineering/contact/forms)

University Special Student Status: Students are encouraged to enter a graduate program as early as possible and not to “try out” the program as University Special students. Officially entering the program allows the student to receive appropriate advising and be fully integrated into the program structure. If University Special student credits are accepted by a program to fulfill program requirements, it is done on a case-by-case basis and must be approved by the program. The number of credits that may transfer from a UW–Madison University Special student career to a UW–Madison graduate career is limited to no more than 15 credits numbered 400 or above.

Students using courses taken as a UW–Madison University Special student to count toward the minimum graduate degree, residence, or minor credit requirements have to pay the difference in tuition between graduate and University Special student tuition for the terms in question (already a historically established practice for the minimum graduate residence requirement). Those credits earned in such a semester still appear in the transcript history as “University Special” student, but the Registrar’s Office adds a statement in the beginning of the transcript “All credits taken in [term] as a
University Special student have been accepted by the Graduate School toward a degree program” after the student has paid the difference in tuition.

You must be enrolled for the semester in which you will graduate and successfully complete the courses in which you are enrolled.

iii. Learning outcomes (learning goals)

Learning outcomes are the anticipated knowledge, skills, and values expected to be acquired by all students completing their PhD degree.

1. Demonstrate an extraordinary, deep 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.

5. Demonstrate an ability to synthesize knowledge from a subset of the biological, physical, and/or social sciences to help frame problems critical to the future of their discipline.

6. Demonstrate an ability to conduct original research and communicate it to their peers.

iv. Qualifying for the PhD program

Students wanting to continue graduate study toward their PhD degree in the Department of Mechanical Engineering must take the PhD qualifying examination. The written portion of the exam is offered before the start of each spring and fall semester. You are allowed a maximum of two opportunities to pass the qualifying examination. The objectives of this exam are to:

• Ensure a standard of excellence associated with the degree of PhD in Mechanical Engineering from the University of Wisconsin–Madison.

• Ensure that you have basic competency in the technical material related to your intended research program.

• Offer a growth experience, i.e., an opportunity to synthesize knowledge across a broader range than generally done in any class.

a. The exam

Eligible Mechanical Engineering graduate students will be emailed information regarding sign-up and exam rules in mid-February for the August/September written exam and in mid-September for the January written exam.

The exam is composed of two 2-hour written subject-area exams and an oral literature review.

Each area exam is designed to test knowledge in a general and fundamental Mechanical Engineering area. They are not intended to test each student in their specific research area. An area is considered
general and fundamental if it is commonly included in BSME curricula at R1 institutions. We will only offer area exams relevant to our department: on average, at least one student per semester should take the exam. The area exams are intended to test students’ proficiency at solving entry-level graduate course problems. The scope of each area exam shall be explicitly delineated in terms of textbook chapters and/or a list of specific topics.

You must select two area exams from the following:

- Controls
- Kinematics/Dynamics
- Heat Transfer
- Dynamic Systems/Vibrations
- Fluid Mechanics
- Solid Mechanics
- Thermodynamics
- Materials Processing
- Computer Aided Engineering.

You must write the last 4 digits of your campus ID, rather than your name, at the top of each page to facilitate anonymous grading. Students retaking area exams may choose different area exams than in the initial attempt.

In addition to the two area exams, you must present a literature review to a committee of three Mechanical Engineering professors composed of your advisor and two assisting members. Generally, this committee will later form part of your PhD committee. In consultation with your advisor, you will select the assisting members, determine professor availability, and schedule a room for the presentation. The latest the presentation can be given is five calendar days following the last day of the corresponding area exams. The earliest the presentation can be given is September 15 (if area exams are to be taken in January) or February 15 (if area exams are to be taken in August/September). Faculty cannot be assisting members for more than three students in a given term.

The committee selects three papers for you to review, as follows. First the advisor selects five papers on a specific technical topic (not reviews of fields). Then, the assisting members select down to three papers from the five. The committee emails the references of the three papers to you, 13 to 15 days before the presentation. Professors cannot provide advance insight into which papers are likely to become exam papers. You prepare your presentation independently. You present a review of the papers, which is at most 15 minutes long. A question-and-answer session follows, with assisting members asking questions first. Questions should be closely related to the specific technical topic represented in the papers. The target duration for the entire exam is 30 to 45 minutes. Each professor independently submits their grade immediately following the presentation. The professors are not allowed to discuss the student, exam, or grades until all three grades have been submitted. The grades are not to be based on the delivery or the polish of the presentation. The grading rubric for the literature review is:

- 30%—Convey the relevance / significance / main contribution(s) of each paper
- 20%—Describe commonalities among the papers
20%—Describe differences between the papers
20%—Understand and address faculty questions
10%—Meet time constraints

Professors will consider this scoring scale when grading a (literature review or area) portion of the exam:

100%—Outstanding
90%—Very good
80%—Good
70%—Capable enough to get by as a PhD
65%—Minimum cumulative percentage for passing
55%—Minimum individual exam percentage for passing

Your literature review score is computed as (your advisor’s score × 0.5) + (first assisting member score × 0.25) + (second assisting member score × 0.25).

To pass the PhD qualifying exam, you must receive scores of at least 55 on each of your literature review and two area exams. You must also achieve a cumulative score of at least 65, computed as (literature review score × 0.4) + (first area exam score × 0.3) + (second area exam score × 0.3).

If you do not pass in the first attempt, your literature review score and each area exam score will be provided to you. You can retake any or all component(s) at the next offering in attempt to pass (retaining prior scores for any components not retaken). For components that are retaken, the new score is used even if it is lower than the previous score for that component. In the event that one area exam is taken in the second attempt, and it is a new area exam not taken in the first attempt, the score on this exam will replace the lower of the scores from the first attempt. Students who do not pass the exam after a second attempt will fail the qualifying examination, and can no longer enroll in the program in subsequent semesters.

All written examination materials become the property of the department and will not be returned to you.

b. **When to take the exam**

The written portion of the qualifying exam is offered twice a year, once in August/September and once in January, generally the week before classes start. The associated literature review presentation must be completed within the timing limits stated above.

1. Students entering the PhD program without an MS or equivalent degree must take the exam no later than the second time it is offered, after completion of 30 graduate credits regardless of whether the student chooses to complete an MS degree. Students completing 30 graduate credits in the fall semester must take the exam no later than the following August, and students completing 30 graduate credits in the spring semester or summer sessions must take the exam no later than the following January.

2. Students entering the PhD program immediately after earning an MS degree in Mechanical Engineering from UW–Madison must take the exam no later than the second time it is offered after
completing their MS degree. Students graduating in the fall semester must take the exam no later than the following August, and students graduating in the spring or summer semesters must take the exam no later than the following January.

3. Students entering the PhD program with an MS degree either from another department or institution, or who are returning to UW–Madison with an MS degree after an absence, must take the exam before the start of their third semester, allowing students two full semesters (fall/spring) of classes before taking the exam. Students entering in the program in the summer session or fall semester need to take the exam no later than the following August, and students entering in the program in the spring semester need to take the exam no later than the following January.

4. In special cases, one additional semester may be allowed before the exam must be taken. To obtain approval to delay the exam for one semester, the student must submit a written request (see section XV. Academic exception petition) before the last week of class in the semester preceding the exam. Extensions are granted only when it is clearly demonstrated that unusual circumstances warrant the delay. Students without an approved extension who miss taking the exam at the required time will forfeit one of their opportunities to take the exam.

v. Proposed course program (PhD program and minor approval)

A proposed course program is to be submitted for approval by the Department before the end of the semester following the semester in which the qualifying examination was passed. Do not wait until you want to present your preliminary exam to submit your plan for approval. It can take six or more weeks to have your plan approved because the Mechanical Engineering Graduate Committee and Mechanical Engineering Faculty Committee only meet once per month and not over the summer, so plan accordingly. For example, if you submit your course plan in June it may not be approved by both committees until October. Any subsequent changes to the program must be approved by the student's advisor and the Graduate Committee. Forms:

↗ engr.wisc.edu/department/mechanical-engineering/contact/forms

vi. Preliminary examination

1. To be eligible to take the preliminary exam, you must have passed the qualifying exam, obtained final approval of your course program by the Graduate Committee and the department, and have completed at least 32 graduate credits. If the course program has not been approved, it can take six weeks or longer for programs to be approved during the fall and winter term (programs are not approved during the summer).

2. The preliminary examination time and content is set and administered by the advisor and the committee.

3. A second attempt for the preliminary exam is allowed only if the qualifying exam was passed on the first attempt.

4. Exam must be taken at least nine months before the final thesis exam.

5. The normal expectation is that the preliminary examination be completed within 5 years of taking the qualifying exam (the preliminary examination is generally taken within 1 to 3 years of passing...
the qualifying exam). Students requiring more time must submit a written request (see section XV. Academic exception petition).

6. You must complete a PhD Preliminary Exam Warrant Application at least four weeks prior to the preliminary examination (this is in addition to the time required for course program approval). The request form and an unofficial transcript must be submitted to the ME Graduate Coordinator, 3182 Mechanical Engineering. The request is reviewed and processed by the Mechanical Engineering Graduate Coordinator and Graduate School. You will receive an email notifying you when your warrant is available. After the preliminary exam, this warrant must be signed and returned to the ME Graduate Coordinator before the dissertator eligibility deadline in order to be a dissertator for the following semester.

7. You must submit the final-draft copy of the preliminary exam report to the examination committee at least one week prior to the exam.

8. You must be enrolled for a minimum of 2 graduate-level credits during the semester in which you take you PhD preliminary examination. This is a minimum: if you have other degree minimums through their RA, TA or grader appointments or through ISS that are higher, you must follow those requirements.

a. **PhD preliminary examination guidelines**

1. In consultation with your advisor (who serves as chair of the committee), you select three additional committee members based on the criteria set forth in the PhD final oral examination (defense) guidelines. The committee consists of four members including the chair (your advisor). These members also serve on the final examination committee. Inclusion of the fifth committee member is optional at this time.

2. Prepare a written report, **not to exceed 50 pages** (double-spaced typing with figures), and distribute it to the committee members at least one week before the examination. If this deadline cannot be met, the preliminary examination will be postponed.

3. The written report should include the following:
   - Introduction to the thesis topic and objectives of the research.
   - Review of the previous work directly related to the thesis objective including a broad review of related work and an in-depth review of a few key papers.
   - Description of the dissertation plan including procedures and methods to be used, and an indication of expected results.
   - A list of the references cited.

4. The written report should follow the same style guidelines as required for the dissertation.

5. The advisor will review your background for the committee members—i.e., BS degree, MS degree, work experience—and circulate the transcript at the start, prior to your presentation.
6. The preliminary examination will last about 1-1/2 hours: 1/2 hour for your oral presentation of the written report, 3/4 hour for the discussion of questions raised by the committee members, and 1/4 hour for evaluation by the committee members.

7. Your oral presentation reiterates the written report in a concise and factual manner. Committee members may ask specific questions at any time during the examination.

8. The committee (including the committee chair) will ask additional questions of a general nature regarding the thesis topic after the oral presentation is completed.

9. You will leave the room after there are no additional questions. The committee privately evaluates the written report, oral presentation, and responses to questions prior to voting to pass or fail.

10. The committee members sign your warrant making sure all dates are complete, and you return the warrant to the Graduate Student Services Office.

vii. **Dissertator status**

Students are eligible to obtain Dissertator status, if they so choose, at the beginning of any semester after they have finished all coursework and have passed the preliminary examination. The graduate school confirms through an email letter when a student has achieved dissertator status. Dissertators must enroll in exactly 3 credits to maintain their dissertator status during the Fall or Spring semesters. Enrollment in 3 credits during the Summer session is required for graduate assistants, trainees, or fellows. Unless the advisor directs otherwise, the 3 credits must be ME 990.

[grad.wisc.edu/documents/dissertator-status](grad.wisc.edu/documents/dissertator-status)

viii. **PhD dissertation guidelines**

The Graduate School issues rules regarding the dissertation format. Since these rules may change from year-to-year, it is your responsibility to get a current copy of these rules from the Graduate School.

[grad.wisc.edu/current-students/doctoral-guide](grad.wisc.edu/current-students/doctoral-guide)

In addition to The Graduate School, your advisor and thesis committee members may have certain format requirements. The following suggestions are offered for your consideration in preparing your thesis:

- Put references in numerical order. The ASME style format or equivalent should be used.
- All figures and tables must have titles.
- Use SI units with other units in parentheses if provided.
- Use standard abbreviations such as g not gm.
- Avoid using the first person; rather, use the third person.
- Include a nomenclature with symbols listed in alphabetical order.
- A list of figures and a list of tables are required.
- The experimental error should be stated for all experimental results. Show error bars for all data and provide values for confidence intervals (state the confidence level) for all tabular results.
- All equations should be numbered consecutively.
• Do not write out numbers. (Use 1/4 m (or 0.25 m) instead of one-quarter meter.).

Review ASME journal articles and follow their style:

☞ asme.org/publications-submissions/journals/information-for-authors/journal-guidelines

ix. **PhD final oral examination (defense) guidelines**

1. A final dissertation oral exam (defense) must be presented to the dissertation committee of at least five members (but no more than eight) consisting of your advisor, who chairs the committee, three other graduate faculty or former graduate faculty up to one year after resignation or retirement, and one of the following: another graduate faculty, a retired faculty member with emeritus status, or a UW–Madison academic staff member who has been approved by the Mechanical Engineering executive committee. At least one faculty member on the committee must be from outside the Mechanical Engineering Department. Members of the committee from outside of Mechanical Engineering should be selected to have a background appropriate to evaluate the dissertation. The exam is predominantly, but not exclusively, on the dissertation.

   • Graduate faculty hold the title of professor, associate professor, or assistant professor as listed in the UW–Madison directory.
      ✨ wisc.edu/directories

   • To determine if a retired faculty member has emeritus status, check the UW–Madison directory, if the person is listed in the directory with the title emeritus, then they have emeritus status.

   • To have an academic staff member approved to serve on committees, have them submit their current curriculum vitae to the Graduate Committee chair or to the Graduate Student Services Office for approval by the department executive committee.

   • Committee members beyond the fifth member must conform to the list on the graduate school’s website, and must be approved by the student’s advisor.
      🗑 grad.wisc.edu/documents/committees

2. Three of the five committee members (the student’s advisor counts as one of these three) are to be designated as readers who will read the thesis and provide corrections as needed. The two non-reader committee members will review the thesis in preparation for the doctoral examination.

3. The committee members should receive the dissertation manuscript at least **two weeks** prior to the examination date. If this deadline cannot be met, the examination will be postponed.

4. The thesis defense will last about two hours: 1/2 hour for your oral presentation of your thesis, 1 hour for questions by the committee members, and 1/2 hour for private discussion by the committee members. The committee members may ask questions at any time during the exam.

5. The committee will pay particular attention to see that your own contributions are clearly delineated and thoroughly documented in the dissertation. Dissertations must acknowledge contributions received from other individuals, including co-authors of published work that appears in the document, such as in designing the research, executing the research, analyzing the data, interpreting the data/research, or writing, proofing, or copyediting the manuscript.
6. The advisor will review your background for the committee members—i.e., BS degree, MS degree, work experience—and circulate the transcript at the beginning of the examination. You may be asked to leave the room for a few minutes at this time.

7. Your oral presentation should be concise and factual. The introduction and review should be brief and the presentation should emphasize the research methods and results. The committee is primarily interested in your own work. Questions by the committee during the presentation are generally for clarification purposes only.

8. After the formal presentation is completed, the committee members will ask extensive questions referring to specific parts of the thesis and the oral presentation. Every committee member will be allowed sufficient time to ask you questions. The committee chair will act as the moderator, but will not answer for you, except, for example, to clarify the question.

9. After approximately 1-1/2 hours, you will be asked to briefly summarize the most important new findings of the thesis research. Upon polling the committee to determine that the members have no further questions, you will be asked to leave the room.

10. Private discussion by the committee will focus on the evaluation of the thesis research itself, evaluation of your thesis defense, and evaluation of the candidate’s overall record. There should be time for each member of the committee to consider each of these items, and, if necessary, to formulate instructions to be implemented by your advisor.

PhD degree final checklist

1. At least four weeks prior to the final examination, you must complete and return the PhD Final Oral Defense Warrant Request. The request form must be submitted to the Mechanical Engineering Graduate Coordinator. The request then is reviewed and processed by the Mechanical Engineering Graduate Coordinator and Graduate School. You will receive an email notifying you when your warrant is available.
   ⇢ engr.wisc.edu/department/mechanical-engineering/contact/forms
   ⇢ registrar.wisc.edu/unofficialtranscript

2. You must submit the final-draft copy of your dissertation to the examination committee at least one week prior to the exam.

3. Pick up your warrant from the Mechanical Engineering Graduate Coordinator. You will receive an email notifying you when your warrant is available.

4. After the exam, return a copy of the completed warrant to the Mechanical Engineering Graduate Coordinator for your file.

5. The completed warrant and dissertation must be uploaded into the Graduate School ProQuest/UMI ETD Administrator website on or before the degree deadline. Please review the Graduate School Guide to Preparing Your Doctoral Dissertation:
   ⇢ grad.wisc.edu/current-students/doctoral-guide

6. Also reference the check-out procedure below.

**It is your responsibility to verify that all graduation requirements have been met.**

---

**PhD degree requirements**

UW–Madison Department of Mechanical Engineering Graduate Handbook | Fall 2021
xi. **Check-out procedure**

1. Keys must be returned to the Mechanical Engineering Department Office (room 2107 Mechanical Engineering Building) prior to leaving. Your degree may be delayed if you do not follow this requirement. The purpose is to ensure that all department equipment is returned and that your office and desk are clean and ready to be used by another person. The checkout process should not be done at the last minute. One week before leaving would be ideal.

2. If you had an assistantship appointment in your last semester, check in with the Mechanical Engineering Payroll & Benefits Coordinator before you leave campus.

3. For Domestic students, your diploma will be sent to your mailing address. For International students, your diploma will be sent to your diploma address. Please confirm this address is correct in your Student Center. Diplomas are sent 12 to 14 weeks after graduation to the mailing address or diploma address, respectively.

   registrar.wisc.edu/diploma

4. An online survey will be emailed to all graduate students completing their degree. This survey is extremely helpful to the department in tracking where students go after graduation. We greatly appreciate your cooperation in completing this survey.

5. You can keep your wisc.edu email but you will only have access to Office 365 email, calendar, people/contacts and tasks. Students who graduate can also apply for a UW alumni email from the Wisconsin Alumni Association.

   ➔ https://it.wisc.edu/news/complete-steps-leaving-university/
   ➔ https://www.uwalumni.com/resources-services/email/

6. Feel free to contact the Graduate Student Services Office if you have any questions or concerns in the future, and please keep in touch!

xii. **Length of time to degree**

The majority of Mechanical Engineering PhD students complete their degree in 6 years. Any student unable to defend their thesis in this period will be reviewed by the Mechanical Engineering Graduate Committee to determine why it is taking longer than expected to complete their degree. There are many reasons why a graduate student may require more time to complete their degree. Therefore, the Mechanical Engineering Graduate Committee will request the following information from you to review during their meeting:

- Date
- Name of student
- Name of advisor
- Accomplishments to date (300 words or less)
- Extenuating circumstances, if any
- Plans for degree completion (include predicted defense date)
- A list of publications published, in press, or submitted

---

8 Data on Time to Degree can be found at the following Graduate School website: grad.wisc.edu/data/degrees-awarded
PhD degree requirements

UW–Madison Department of Mechanical Engineering Graduate Handbook | Fall 2021
X. **PhD minor in Mechanical Engineering**

Students from departments outside of Mechanical Engineering can receive a PhD minor in Mechanical Engineering. The requirements for an external minor in Mechanical Engineering are listed below. The minor must be approved by the Mechanical Engineering Department. Submit the form to the ME Graduate Coordinator, room 3182 Mechanical Engineering, for approval.

[engr.wisc.edu/department/mechanical-engineering/contact/forms](engr.wisc.edu/department/mechanical-engineering/contact/forms)

i. **Requirements for external minor**

1. A minimum of 9 formal course credits (not independent study or research credits) taken in Mechanical Engineering.
2. Courses must be numbered 400 or above in Mechanical Engineering.
3. One of the courses must be numbered 700 or above in Mechanical Engineering.
4. Only one of the courses may be cross listed in your major department.
5. Minimum grade of B or higher in all courses taken for the minor.
# XI. Enrollment

[enroll.wisc.edu](enroll.wisc.edu)

## i. Minimum credit requirements

During the fall and spring semesters, a full-time graduate student carries 8 to 15 credits, and during the 8-week summer session, 4 to 12 credits. Continuing students who are not funded in the summer are not required to enroll in courses to maintain their status as a graduate student. If you are funded in the summer, a minimum of 2 enrolled credits is required.

Dissertators are always required to enroll for 3 credits during the fall and spring. Enrollment in 3 credits during the summer session is required for graduate assistants, trainees, and fellows.

[grad.wisc.edu/documents/enrollment-requirements](grad.wisc.edu/documents/enrollment-requirements)

**Please note:** pass/fail courses, audited courses, or courses numbered below 300 do not count towards minimum or maximum requirements. They are in essence counted as zero credits.

## ii. Minimum full-time enrollment requirements

<table>
<thead>
<tr>
<th>Categories</th>
<th>Minimum enrollment for full-time status:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fall or Spring</td>
</tr>
<tr>
<td>Dissertator</td>
<td>Exactly 3 credits directly related to research</td>
</tr>
<tr>
<td>RA, non-dissertator</td>
<td>8 credits</td>
</tr>
<tr>
<td>TA/Lecturer (SA) 33%, non-dissertator</td>
<td>8 credits</td>
</tr>
<tr>
<td>TA/Lecturer (SA) 50%, non-dissertator</td>
<td>6 credits</td>
</tr>
<tr>
<td>PA 33%, non-dissertator</td>
<td>6 credits</td>
</tr>
<tr>
<td>PA 50%, non-dissertator</td>
<td>4 credits</td>
</tr>
<tr>
<td>Fellow, non-dissertator</td>
<td>8 credits</td>
</tr>
<tr>
<td>Trainee, non-dissertator</td>
<td>8 credits</td>
</tr>
<tr>
<td>International student (F-1/J-1 visa), non-dissertator, if no other category in this list</td>
<td>8 credits</td>
</tr>
<tr>
<td>If none of the above, full time enrollment is:</td>
<td>8 credits</td>
</tr>
</tbody>
</table>
iii. **Research and independent study courses**

a. **Research section enrollment**

You may enroll in Mechanical Engineering research courses (790, 890, and 990) as approved by your faculty advisor providing that you meet the following pre-requisites:

- 790 sections are for MS students and require students to be both a department of Mechanical Engineering graduate student and be admitted to the MS program.
- 890 and 990 sections are for PhD students and require students to be both a department of Mechanical Engineering graduate student and be admitted to the PhD program.
- Students who do not meet the requirements for 790, 890, or 990 will need to request that their faculty advisor submit an email request for enrollment permission to the [Mechanical Engineering Graduate Coordinator](https://mecheng.wisc.edu/graduate). The request must include your name, campus ID, the enrollment term, and the course number.

Research credits (790, 890, and 990) are graded as P (Progress), S (Satisfactory), or U (Unsatisfactory). Research credits are not weighted into a student’s GPA.

A grade of P (Progress) for a research course means the course was not officially given a final grade by the faculty advisor. A grade of P may prevent a warrant from being requested and will prevent a student from graduating. Contact your faculty advisor or the [Mechanical Engineering Graduate Coordinator](https://mecheng.wisc.edu/graduate) with questions regarding resolving P grades.

b. **Independent study enrollment**

Mechanical Engineering students who would like to enroll in an independent study course (699, 999) must first meet with the intended faculty and agree upon a plan of study. The faculty advisor must submit an email request for enrollment permission to the [Mechanical Engineering Graduate Coordinator](https://mecheng.wisc.edu/graduate). The request must include your name, campus ID, the enrollment term, and the course number.

Independent study credits (699 or 999) are graded with a letter grade (A–F) and are weighted with the student’s GPA.

iv. **Wait list**

In Course Search & Enroll ([enroll.wisc.edu](https://enroll.wisc.edu)), if a class is closed and the department is maintaining a waiting list, a yellow triangle will display on that course section. If you would like to be placed on the wait list you’ll need to check the box titled ‘Please Wait List Me’ on the Enrollment Preferences page and continue through the enrollment to finalize your request. The Registrar’s Office provides a demo at [https://registrar.wisc.edu/demos.htm](https://registrar.wisc.edu/demos.htm). You will be allowed to place yourself on a wait list for a maximum of three class sections. You will receive permission to enroll from the waitlist through an email notification. You have 48 hours to enroll after receiving notification, so check your email daily. **Prerequisite: You must be enrolled in at least one course.**
v. **Credit overload**

To enroll for more than the maximum credit load in any given semester, you must submit a Credit Overload Request form. This form must be signed by your faculty advisor and turned in to the Graduate School, 217 Bascom Hall. The Graduate School will look closely at the rationale for the request, and if the request is approved, you will be notified that they can add the course. **This form MUST be submitted at least one week before the add deadline.**

- grad.wisc.edu/documents/forms
- registrar.wisc.edu/dates/
XII. Commencement

Graduating students are encouraged to participate in the Commencement ceremony. Commencement ceremonies are held in December and May. Because there is no ceremony offered during the summer, students have the option to participate in the winter or spring ceremony. Students should think of their degree completion and participation in the commencement ceremony as two separate events.

To participate in the Commencement ceremony for any given semester, you apply for graduation in your Student Center. You can decide to participate in the ceremony up until the day of the ceremony. You need to apply for graduation before the deadline announced by the Chancellor’s Office, if you want your name in the commencement program. Please watch for email announcements regarding Commencement.

⏯ registrar.wisc.edu/applyforgraduation

Traditionally, PhD students are escorted by their faculty advisor. PhD students should discuss their commencement plans with their faculty advisor.

The Chancellor’s Commencement website has more information on ordering the proper attire, dates, and times. Remember to order your cap and gown!

⏯ commencement.wisc.edu

i. Degree completion letter

The Office of the Registrar and the Graduate School provide a Degree Completion Letter documenting degree completion until your degree is posted and your diploma arrives.

⏯ registrar.wisc.edu/degreecompletion

ii. Duplicate or replacement diploma

If you need a duplicate or replacement diploma, please complete and submit the duplicate diploma request form to the Office of the Registrar. The cost is $50 (USD).

⏯ registrar.wisc.edu/diploma
Satisfactory progress: academic expectations

All graduate students are expected to make satisfactory progress toward their degree each semester. Satisfactory progress means taking a sufficient number of courses each semester, maintaining the required grade point average, moving ahead on the degree requirements, participating in required ethics and safety training, and making good progress on your thesis or dissertation. Your advisor, the Graduate Committee and the Graduate School are responsible for determining satisfactory progress. Continuation in the Graduate School is at the discretion of your program, the Graduate School, and your faculty advisor.

The Graduate School sets minimum standards that all graduate students in the university must meet. Many departments and programs have additional requirements that exceed these Graduate School minimum requirements. The definition of satisfactory progress varies by program. The Graduate Guide sets the Graduate School's minimum degree requirements and each program’s minimum criteria for satisfactory progress.

The Graduate School requires that you maintain a minimum graduate GPA of 3.00 (the minimum GPA for Mechanical Engineering PhD students is 3.25) in all graduate-level work (300 or above, excluding research, audit, credit/no credit, and pass/fail courses) taken as a graduate student unless probationary admission conditions require higher grades. If you are unable to complete coursework by the end of the semester, instructors may assign temporary I (Incomplete) grades if all but a small fraction of the coursework at the end of a semester was completed. Mechanical Engineering graduate students are allowed the subsequent semester of enrollment to complete coursework graded as incomplete. A course with a grade of PI does not count towards the degree requirements. Students cannot graduate with an Incomplete (I) grade on their record.

A student may be placed on probation or suspended from the Graduate School for low grades or for failing to resolve incompetes in a timely fashion. In special cases the Graduate School permits students who do not meet these minimum standards to continue on probation upon recommendation and support of their advisor.

Most programs require satisfactory progress to continue guaranteed funding support. Unsatisfactory progress may cause students to lose a TA, RA, or Fellowship appointment, and possibly their status as a graduate student.

Probation

If a student was admitted on probation and they satisfy the conditions outlined at the time of admission, probationary status will be removed automatically. Once their studies have begun, students are expected to make satisfactory progress toward their degree.
Students must be in good academic standing with the Graduate School, their program, and their advisor. The Graduate School regularly reviews the record of any student who received grades of BC, C, D, F, or I in graduate-level courses (300 or above), or grades of U in research and thesis. This review could result in academic probation with a hold on future enrollment, and the student may be suspended from graduate studies.

The Graduate School may also put students on probation for incompletes not cleared within one term. Dissertators will not be placed on probation for incomplete grades in research courses. All incomplete grades must be resolved before a degree is granted.

Please note that any student who is on probation will not be able to enroll for the following semester until their final grades are submitted and the Graduate School has verified they are making satisfactory progress. For any questions relating to probation, please contact The Graduate School Academic Services, at (608) 262-2433 or gsacserv@grad.wisc.edu.
XIV. Satisfactory progress: conduct expectations

i. **Professional conduct**

All students are expected to adhere to the highest standards of professional behavior and ethics. You should avoid even an appearance of improper behavior or lack of ethical standards while in Graduate School at UW–Madison, in all professional settings, and in their personal lives. You should conduct yourself according to the standards expected of members of the profession to which you aspire.

Concerns about infractions of Professional Conduct may be effectively handled informally between the instructor/advisor and the student. If a resolution is not achieved, a graduate program representative may be included in the discussion. Separate and apart from a violation of Professional Conduct, a student may face University disciplinary action with regard to the same action.

You are responsible for reading the information here as well as the information published on all the relevant websites. Lack of knowledge of this information does not excuse any infraction.

1. **Professional Ethics.** You shall:

   - show respect for a diversity of opinions, perspectives, and cultures;
   - accurately represent your work and acknowledge the contributions of others;
   - aim to gain knowledge and contribute to the knowledge base of others;
   - understand the UW Student Code of Conduct; [conduct.students.wisc.edu](http://conduct.students.wisc.edu)
   - represent your profession and the program; and
   - strive to incorporate and practice disciplinary ideals in your daily lives.

   Resumes/CVs must reflect accurate information.

2. **Honesty and Integrity.** You shall:

   - demonstrate honesty and integrity as shown by honesty and ethics in research and IRB applications—including honesty in interpretation of data; commitment to an unbiased interpretation of academic and professional endeavors; and the need to document research activities, protect subject/client confidentiality, and HIPAA regulations.
   - follow through and pull your weight in group activities and understand where collaboration among students is or is not allowed;
   - not plagiarize others or past work (self-plagiarism), cheat, or purposefully undermine the work of others; and
   - avoid conflicts of interest for the duration of your time in the program.

As a professional, honesty and integrity also extends to personal behavior in life outside of the academic setting by realizing that students are representatives of the program, UW–Madison, and the profession as a whole.
3. **Interpersonal and Workplace Relationships.** You shall interact with peers, faculty, staff and those you encounter in their professional capacity in a manner that is respectful, considerate, and professional. This includes and is not limited to:

- attending all scheduled meetings,
- honoring agreed-upon work schedules,
- being on-time and prepared for work/meetings,
- contributing collaboratively to the team,
- keeping the lines of communication open,
- offering prompt response to inquiries,
- and employing respectful use of available equipment/technology/resources.

Chronic or unexplained absences are unprofessional in the workplace and could be grounds for termination or removal of funding. To facilitate the free and open exchange of ideas, any criticism shall be offered in a constructive manner, and the right of others to hold different opinions shall be respected.

4. **Commitment to Learning.** You are expected to meet your educational responsibilities at all times. Be actively prepared for class and be ready for questions and answers. Be on time for every class and always show courtesy during class or if you have to leave class early. If possible, you should notify the instructor at least one day in advance of a planned absence. Students who are unable to attend class are responsible for finding out what occurred that day and should not expect instructors to give them individual instruction.

Recognizing that the pursuit of knowledge is a continuous process, you shall show commitment to learning by persevering despite adversity and seeking guidance in order to adapt to change. You shall strive for academic excellence and pursue and incorporate all critique, both positive and negative, in the acquisition of knowledge in order to understand and respect the community in which you work.

5. **Professional Appearance.** You shall convey a positive, professional appearance in order to represent the program in a dignified manner. Appearance includes a person’s dress, hygiene, and appropriate etiquette/protocols for the environment (including safety protocols and protective clothing in environments that require them).

This graduate program, the Graduate School, and the Division of Student Life all uphold the UW System policies and procedures in place for academic and non-academic misconduct. In addition, graduate students are held to the same standards of responsible conduct of research as faculty and staff. Furthermore, unprofessional behavior towards clients/subjects, faculty, staff, peers and public are significant issues in the evaluation and promotion of students. In turn, we hold expectations for the highest level of academic integrity and expect professional, ethical, and respectful conduct in all interactions. Students may be disciplined or dismissed from the graduate program for misconduct or disregard for professional conduct expectations regardless of their academic standing in the program. Separate and apart from a violation of Professional Conduct, a student may face University disciplinary action with regard to the same action.
ii. **Hostile and intimidating behavior**

Hostile and intimidating behavior, sometimes known by the shorthand term “bullying,” is defined in university policy as “unwelcome behavior pervasive or severe enough that a reasonable person would find it hostile and/or intimidating and that does not further the University’s academic or operational interests.”

hr.wisc.edu/hib/principles-and-policies

Hostile and intimidating behavior (HIB) can occur in the university setting. Even individual instances of such behavior can have a significant effect on the person it's aimed at, and can take a physical and emotional toll, reduce the effectiveness of a person’s work or learning. It is a significant reason for unhealthy workplace climate and culture and should be addressed immediately. Hostile and intimidating behavior is prohibited by university policy.

a. **What is hostile and intimidating behavior?**

Hostile and intimidating behavior is defined as unwelcome behavior pervasive or severe to the extent that it makes the conditions for work inhospitable and impairs another person’s ability to carry out his/her responsibilities to the university, and that does not further the University’s academic or operational interests. A person or a group can perpetrate this behavior. The person need not be more senior than or a supervisor to the target. Unacceptable behavior may include, but is not limited to:

- Abusive expression (including spoken, written, recorded, visual, digital, or nonverbal, etc.) directed at another person in the workplace, such as derogatory remarks or epithets that are outside the range of commonly accepted expressions of disagreement, disapproval, or critique in an academic culture and professional setting that respects free expression;

- Unwarranted physical contact or intimidating gestures;

- Conspicuous exclusion or isolation having the effect of harming another person’s reputation in the workplace and hindering another person’s work;

- Sabotage of another person’s work or impeding another person’s capacity for academic expression, be it oral, written, or other;

- Abuse of authority, such as using threats or retaliation in the exercise of authority, supervision, or guidance, or impeding another person from exercising shared governance rights, etc.

Repeated acts or a pattern of hostile and/or intimidating behaviors are of particular concern. A single act typically will not be sufficient to warrant discipline or dismissal, but an especially severe or egregious act may warrant either.

b. **What to do if you feel you've been the target of hostile and intimidating behavior**

Undesired consequences of hostile and intimidating behavior can be avoided or minimized when the problem is addressed early on, but victims are often hesitant to pursue a formal process before the impact is severe. Educational opportunities and campus resources have been implemented with the intent of aiding all employees and students in defusing situations before they become severe. These resources, including trained personnel who can advise and mediate, comprise the “informal
approach.” It is possible that situations will continue to arise in which informal interventions are not effective, and the “formal approach” has been designed to address those situations.

hr.wisc.edu/hib/addressing-hib

You are encouraged to seek out advice and consultation after the first instance of hostile and intimidating behavior: consultation is not escalation. Discussing what’s happened in a timely way can often prevent continued bullying. Here are some ways to do this:

- Seek advice from a trusted colleague;
- You may choose to seek informal resolution by approaching the individual yourself or with an intermediary;
- Consult your advisor, human resources representative, department chair, director, dean, or any campus resource to discuss options for resolution;
- Keep notes of what happened, when, where, and who was present. Retain copies of any correspondence.

Graduate students sometimes experience hostile and intimidating behavior from faculty members. If you are a student who is experiencing such behavior, you are entitled to support as a university employee through the Ombuds office, the Dean of Students office, and (if a grad student) the Graduate School. Graduate student workers should also consult with Graduate Coordinators, TAA Stewards, and/or the Graduate School.

ombuds.wisc.edu
doso.students.wisc.edu
grad.wisc.edu/contacts

Mechanical Engineering graduate students with concerns may contact the Graduate Committee Chair, Chair of the Department of Mechanical Engineering, or the College of Engineering Assistant Dean for Graduate Affairs.

engr.wisc.edu/about/leadership

### iii. Academic misconduct

Academic misconduct is an act in which a student (UWS 14.03(1)):

1. seeks to claim credit for the work or efforts of another without authorization or citation;
2. uses unauthorized materials or fabricated data in any academic exercise;
3. forges or falsifies academic documents or records;
4. intentionally impedes or damages the academic work of others;
5. engages in conduct aimed at making false representation of a student’s academic performance; or
6. assists other students in any of these acts.

Examples of academic misconduct include but are not limited to:

1. cutting and pasting text from the Web without quotation marks or proper citation;
2. paraphrasing from the Web without crediting the source;
3. using notes or a programmable calculator in an exam when such use is not allowed;
4. using another person’s ideas, words, or research and presenting it as one’s own by not properly crediting the originator;
5. stealing examinations or course materials;
6. changing or creating data in a lab experiment;
7. altering a transcript;
8. signing another person’s name to an attendance sheet;
9. hiding a book knowing that another student needs it to prepare for an assignment;
10. collaboration that is contrary to the stated rules of the course; or
11. tampering with a lab experiment or computer program of another student.

Graduate School Policy & Procedure: Misconduct, Academic

Office of Student Conduct and Community Standards: Academic Misconduct

University of Wisconsin System: Chapter UWS 14: Student Academic Disciplinary Procedures

iv. **Non-academic misconduct**

The university may discipline a student in non-academic matters in the following situations:

1. for conduct which constitutes a serious danger to the personal safety of a member of the university community or guest;
2. for stalking or harassment;
3. for conduct that seriously damages or destroys university property or attempts to damage or destroy university property, or the property of a member of the university community or guest;
4. for conduct that obstructs or seriously impairs university-run or university-authorized activities, or that interferes with or impedes the ability of a member of the university community, or guest, to participate in university-run or university-authorized activities;
5. for unauthorized possession of university property or property of another member of the university community or guest;
6. for acts which violate the provisions of UWS 18, Conduct on University Lands;
7. for knowingly making a false statement to any university employee or agent on a university-related matter, or for refusing to identify oneself to such employee or agent;
8. for violating a standard of conduct, or other requirement or restriction imposed in connection with disciplinary action.
Examples of non-academic misconduct include but are not limited to:

1. engaging in conduct that is a crime involving danger to property or persons, as defined in UWS 18.06(22)(d);
2. attacking or otherwise physically abusing, threatening to physically injure, or physically intimidating a member of the university community or a guest;
3. attacking or throwing rocks or other dangerous objects at law enforcement personnel, or inciting others to do so;
4. selling or delivering a controlled substance, as defined in 161 Wis. Stats., or possessing a controlled substance with intent to sell or deliver;
5. removing, tampering with, or otherwise rendering useless university equipment or property intended for use in preserving or protecting the safety of members of the university community, such as fire alarms, fire extinguisher, fire exit signs, first aid equipment, or emergency telephones; or obstructing fire escape routes;
6. preventing or blocking physical entry to or exit from a university building, corridor, or room;
7. engaging in shouted interruptions, whistling, or similar means of interfering with a classroom presentation or a university-sponsored speech or program;
8. obstructing a university officer or employee engaged in the lawful performance of duties;
9. obstructing or interfering with a student engaged in attending classes or participating in university-run or university-authorized activities;
10. knowingly disrupting access to university computing resources or misusing university computing resources.

Graduate School Academic Policies & Procedures: Misconduct, Non-Academic

[grad.wisc.edu/documents/misconduct-nonacademic](grad.wisc.edu/documents/misconduct-nonacademic)

Office of Student Conduct and Community Standards: Non-Academic Misconduct

[conduct.students.wisc.edu/nonacademic-misconduct](conduct.students.wisc.edu/nonacademic-misconduct)

University of Wisconsin System: Chapter UWS 17: Student Non-Academic Disciplinary Procedures

[docs.legis.wisconsin.gov/code/admin_code/uws/17](docs.legis.wisconsin.gov/code/admin_code/uws/17)

University of Wisconsin System: Chapter UWS 18: Conduct on University Lands

[docs.legis.wisconsin.gov/code/admin_code/uws/18](docs.legis.wisconsin.gov/code/admin_code/uws/18)

v. Research misconduct

Much of graduate education is carried out not in classrooms, but in laboratories and other research venues, often supported by federal or other external funding sources. Indeed, it is often difficult to distinguish between academic misconduct and cases of research misconduct. Graduate students are held to the same standards of responsible conduct of research as faculty and staff. The Graduate School is responsible for investigating allegations of research misconduct. This is often done in consultation with the Division of Student Life as well as with federal and state agencies to monitor,
investigate, determine sanctions, and train about the responsible conduct of research.
Associate Vice Chancellor for Research Policy, 333 Bascom Hall, (608) 262-1044.

Please see section on “Grievance procedures and misconduct reporting” for further information on reporting research misconduct of others.

Graduate School Policies & Procedures: Responsible Conduct of Research
ätzlich️ https://grad.wisc.edu/documents/responsible-conduct-of-research/
Office of the Vice Chancellor for Research and Graduate Education: Research Ethics
 princípio️ research.wisc.edu/compliance-policy/research-ethics

Research and Graduate Education database: Reporting Research Misconduct
 princípio️ kb.wisc.edu/gsadminkb/page.php?id=34486

Research and Graduate Education database: Responsible Conduct of Research Resources
 princípio️ kb.wisc.edu/gsadminkb/search.php?cat=2907
xv. **Academic exception petition**

Academic exceptions are considered on a case-by-case basis and should not be considered a precedent. Deviations from normal progress are highly discouraged, but the program recognizes that there are in some cases extenuating academic and personal circumstances. Petitions for exceptions to the Satisfactory Progress Expectations (academic or conduct), or other petitions shall be directed to the **Graduate Committee Chair**. The following procedures apply to all petitions:

1. The specific requirement/rule/expectation pertinent to the petition must be identified.
2. Detailed information regarding the reason for the exception must be provided in writing.
3. The student’s academic advisor must provide written support for the petition.

The Graduate Committee will review the petition and in consultation with the student’s advisor, may grant extensions to normal progress requirements for students who face circumstances (similar to tenure extensions) as noted in university regulations, including significant responsibilities with respect to elder or dependent care obligations, disability or chronic illness, or circumstances beyond one’s personal control. Where warranted, the petition should provide good evidence of plans and ability to return to conformance with the standard and to acceptably complete the program.

Note that petitions for extension of academic timelines (e.g., qualifying exams) for childbirth and adoption will be automatically granted as they are covered by the [parental leave policy](#). The normal extension will be one semester; anything beyond this will be granted only in the event of highly extraordinary circumstances. Extensions will be granted formally with a note of explanation to be placed in the student’s file. Students who are granted an exception will be reviewed by the Graduate Committee and may be placed on probation (see section XVI. *Disciplinary action and dismissal*).
Disciplinary action and dismissal

The Mechanical Engineering Department will review the progress of each graduate student at the end of every semester. A student’s failure to meet the program’s Satisfactory Progress Expectations (academic or conduct) can result in disciplinary action, including immediate dismissal from the program.

Once every semester, the Graduate Committee will conduct a review of all graduate students in the program. A detailed review will be triggered by one or more of the following conditions:

- GPA for the semester was below 3.0 for MS students or 3.25 for PhD students.
- An Incomplete was earned in a formal course.
- The advisor gave either an Incomplete or an Unsatisfactory grade on research credits.
- Not participating in the yearly safety and ethics seminars.
- Not taking ME 903 during the first two semesters as a graduate student in Mechanical Engineering.
- The Advisor indicated that the student is not making satisfactory progress in the College of Engineering’s Graduate On-Line Assessment & Achievement Learning System (GOAALS).
- The Graduate Committee receives documentation from the Advisor that a student is not making satisfactory progress on their research.
- Qualifying exam not taken in required semester, both with or without an exception granted by the Graduate Committee.
- Student does not have an Advisor.
- Failure to complete Preliminary Examination within five years of completing Qualifying Examination.
- Failure to defend dissertation within five years of completing Preliminary Examination.
- Academic misconduct incident.
- Non-academic misconduct incident.
- Research misconduct incident.

The outcome of the Graduate Committee’s review will be in the form of a recommendation to the Department Chair and will consist of one of the following:

- Student is in Good Standing. The student is considered to be making satisfactory progress toward their degree. Unless the Chair disagrees with the committee’s recommendation, no further action will be taken and no additional notification will be provided.
- Student be placed on Departmental Probation. If the Graduate Committee finds that a student is not making satisfactory progress (see Sections XIII and XIV) they can recommend that the student be placed on Departmental Probation based on the supplied action plan or lack of progress on an existing action plan. The student is permitted to enroll in the subsequent semester, but the student and their advisor must put forward a specific plan with dates and deadlines in place in regard to removal of probationary status by the end of the following semester.
• Student be Dismissed from the Mechanical Engineering Department. The student has demonstrated a sustained lack of progress toward degree completion or has been found guilty of significant academic, non-academic, or research misconduct by the Dean of Students. If a student is on Departmental Probation for multiple semesters (sequential or dispersed) the Graduate Committee may recommend that the student be Dismissed from the Department of Mechanical Engineering. The student will not be allowed to enroll in the subsequent semester. Students who have been dismissed from the Mechanical Engineering program will need to reapply to the department if they want to pursue a degree in Mechanical Engineering. Applications will not be considered within one calendar year of dismissal.

In the event that the result of the review is a recommendation of Departmental Probation or Dismissal from the Department, the recommendation will be transmitted to the student by letter from the Graduate Committee, and the final decision of the Chair will be transmitted in a separate letter. No notification will be given to students in Good Standing.

If a student is on Departmental Probation, the Mechanical Engineering Graduate Committee may recommend revoking that student's funding guarantee. Graduate students can receive financial support through a scholarship, fellowship, assistantship, etc., without a funding guarantee. The lack of a funding guarantee only means that the student's Advisor and the Department of Mechanical Engineering are not obligated to financially support them.

A student will be removed from Departmental Probation and considered in Good Standing when they have completed their Action Plan in a satisfactory manner. In other words, once a student is again making satisfactory academic progress they will be considered in Good Standing, hence removed from Probation.

Funding guarantees are not automatically reinstated after a student is removed from Departmental Probation and is again in Good Standing.
Grievance procedures and reporting misconduct and crime

i. **Grievance procedures**

   If a student feels unfairly treated or aggrieved by faculty, staff, or another student, the University offers several avenues to resolve the grievance. Students’ concerns about unfair treatment are best handled directly with the person responsible for the objectionable action. If the student is uncomfortable making direct contact with the individual(s) involved, they should contact the advisor or the person in charge of the unit where the action occurred (program or department chair, section chair, lab manager, etc.). Many departments and schools/colleges have established specific procedures for handling such situations; check their web pages and published handbooks for information. If such procedures exist at the local level, these should be investigated first. The Assistant Dean for Graduate Affairs (engr-dean-graduateaffairs@engr.wisc.edu) provides overall leadership for graduate education in the College of Engineering (CoE), and is a point of contact for graduate students who have concerns about education, mentoring, research, or other difficulties.


ii. **Mechanical Engineering’s procedures for proper accounting of student grievances**

   1. The student is encouraged to speak first with the person toward whom the grievance is directed to see if a situation can be resolved at this level.

   2. Should a satisfactory resolution not be achieved, the student should contact the Mechanical Engineering Graduate Committee Chair or Department Chair to discuss the grievance. The Graduate Committee Chair or Department Chair will facilitate problem resolution through informal channels and facilitate any complaints or issues of students. The first attempt is to help students informally address the grievance prior to any formal complaint. Students are also encouraged to talk with their faculty advisors regarding concerns or difficulties if necessary. Find University resources for sexual harassment, discrimination, disability accommodations, and other related concerns at the UW Office of Equity and Diversity.

   ➤ [https://diversity.wisc.edu](https://diversity.wisc.edu)

   Other campus resources:

   - The Graduate School
     ➤ [grad.wisc.edu](https://grad.wisc.edu)
   - McBurney Disability Resource Center
     ➤ [mcburney.wisc.edu](https://mcburney.wisc.edu)
   - Employee Assistance Office
     ➤ [eao.wisc.edu](https://eao.wisc.edu)
   - Ombuds Office
     ➤ [ombuds.wisc.edu](https://ombuds.wisc.edu)
University Health Services

uhs.wisc.edu

3. If the issue is not resolved to the student’s satisfaction the student can submit the grievance to the Graduate Committee Chair in writing, within 60 calendar days of the alleged unfair treatment.

4. On receipt of a written complaint, a faculty committee will be convened by the Graduate Committee Chair to manage the grievance. The faculty committee will obtain a written response from the person toward whom the complaint is directed. This response will be shared with the person filing the grievance.

5. The faculty committee will determine a decision regarding the grievance. The Graduate Committee Chair will report on the action taken by the committee in writing to both the student and the party toward whom the complaint was directed within 15 working days from the date the complaint was received.

6. At this point, if either party (the student or the person toward whom the grievance is directed) is unsatisfied with the decision of the faculty committee, the party may file a written appeal. Either party has 10 working days to file a written appeal to the School/College.

7. Documentation of the grievance will be stored for at least 7 years. Significant grievances that set a precedent will be stored indefinitely.

The Graduate School has procedures for students wishing to appeal a grievance decision made at the school/college level.

grad.wisc.edu/documents/grievances-and-appeals

iii. Reporting misconduct and crime

The campus has established policies governing student conduct, academic dishonesty, discrimination, and harassment/abuse as well as specific reporting requirements in certain cases. If you have a grievance regarding unfair treatment towards yourself, please reference the procedures and resources identified above.

If you learn about, observe, or witness misconduct or other wrongdoing, you may be required to report that misconduct or abuse. Depending on the situation, it may be appropriate to consult with your advisor, Graduate Program Coordinator, or other campus resources (such as the UW Office of Equity and Diversity, Graduate School, McBurney Disability Resource Center, Employee Assistance Office, Ombuds Office, and University Health Services).

a. Research misconduct reporting

The University of Wisconsin–Madison strives to foster the highest scholarly and ethical standards among its students, faculty, and staff. Graduate students and research associates are among the most vulnerable groups when reporting misconduct because their source of financial support and the progress in their careers may be at risk by raising questions of wrongdoing. They are also often the closest witnesses to wrongdoing when it occurs and therefore must be appropriately protected from the consequences of reporting wrongdoing and be informed of their rights.

research.wisc.edu/compliance-policy/research-ethics
b. **Academic misconduct reporting**

If you know a classmate is cheating on an exam or other academic exercise, notify your professor, teaching assistant, or proctor of the exam. As a part of the university community, you are expected to uphold the standards of the university. Also, consider how your classmate’s dishonesty may affect the overall grading curve and integrity of the program.

c. **Sexual assault reporting**

Faculty, staff, teaching assistants, and others who work directly with students at UW–Madison are required by law to report first-hand knowledge or disclosures of sexual assault to university officials, specifically the Office for Equity & Diversity or the Division of Student Life. This effort is not the same as filing a criminal report. Disclosing the victim’s name is not required as part of this report.

[do so. students.wisc.edu/report-an-issue](do so. students.wisc.edu/report-an-issue)

d. **Child abuse reporting**

As a UW–Madison employee (under Wisconsin Executive Order #54), you are required to immediately report child abuse or neglect to Child Protective Services (CPS) or law enforcement if, in the course of employment, the employee observes an incident or threat of child abuse or neglect, or learns of an incident or threat of child abuse or neglect, and the employee has reasonable cause to believe that child abuse or neglect has occurred or will occur. Volunteers working for UW–Madison sponsored programs or activities are also expected to report suspected abuse or neglect. Please find full details at:

[compliance.wisc.edu/titleix/mandatory-reporting](compliance.wisc.edu/titleix/mandatory-reporting)

e. **Reporting and response to incidents of bias/hate**

The University of Wisconsin–Madison values a diverse community where all members are able to participate fully in the Wisconsin Experience. Incidents of bias/hate affecting a person or group create a hostile climate and negatively impact the quality of the Wisconsin Experience for community members. UW–Madison takes such incidents seriously and will investigate and respond to reported or observed incidents of bias/hate.

[do so. students.wisc.edu/report-an-issue](do so. students.wisc.edu/report-an-issue)