

ELECTRICAL AND COMPUTER ENGINEERING: MACHINE LEARNING AND SIGNAL PROCESSING, MS

This is a named option in the Electrical and Computer Engineering MS (<https://guide.wisc.edu/graduate/electrical-computer-engineering/electrical-computer-engineering-ms/>).

The Electrical and Computer Engineering Department (ECE) offers the Electrical and Computer Engineering MS-Machine Learning and Signal Processing (MLSP) named option program which is intended for students looking for an advanced entry into a data science career in industry.

Students will learn quantitative thinking, practical problem-solving, computer programming, and applications to a variety of domains. The program is designed to deepen the student's technical knowledge and sharpen their professional skills for a well-prepared entry into industry. It provides a practical focus through a course-only curriculum, an accelerated and predictable 16-month completion time, and a professional development hands-on project requirement. Well-prepared students and UW-Madison undergraduates may find it feasible to complete the program in 12 months.

The required coursework draws upon foundational and cutting-edge methods in MLSP, and is taught by faculty conducting pioneering research in the field. Successful students will have some experience with linear algebra, statistics, and programming. The combined focus on the mathematical foundations of data science and their practical application to real-world problems will prepare graduates to be ready to immediately contribute in a variety of different jobs across data science, machine learning, and signal processing.

The focus of the MLSP program differs from the traditional research-based MS program. MLSP students do not conduct independent research and prepare a thesis, but rather have an accelerated course plan focused in the MLSP area with a professional development hands-on project, either via an internship/co-op or an independent project. Students also have the opportunity to take select courses from Engineering Professional Development. If you are interested in research and advanced concept development, you are better served pursuing a research-based MS program or a PhD program. If you want to complete your degree **within 16 months** and enter the workforce, then the MLSP program is right for you.

MLSP students cannot be simultaneously enrolled in another graduate program at UW-Madison while completing this program.

After completing the program, students will earn a diploma stating "Master of Science in Electrical and Computer Engineering," and the transcript will include the indication "Named Option: Machine Learning and Signal Processing."

For more information on this specific degree plan, please visit the program website (<https://pdc.wisc.edu/degrees/machine-learning-signal-processing-ms/>).

ADMISSIONS

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Please consult the table below for key information about this degree program's admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program's website.

Graduate admissions is a two-step process between academic programs and the Graduate School. **Applicants must meet the minimum requirements (<https://grad.wisc.edu/apply/requirements/>) of the Graduate School as well as the program(s).** Once you have researched the graduate program(s) you are interested in, apply online (<https://grad.wisc.edu/apply/>).

Requirements	Detail
Fall Deadline	December 15
Spring Deadline	This program does not admit in the spring.
Summer Deadline	This program does not admit in the summer.
GRE (Graduate Record Examination)	Not required but may be considered if available.
English Proficiency Test	Refer to the Graduate School: Minimum Requirements for Admission policy: https://policy.wisc.edu/library/UW-1241 (https://policy.wisc.edu/library/UW-1241/)
Other Test(s) (e.g., GMAT, MCAT)	n/a
Letters of Recommendation Required	3

DEADLINE

Please submit all your application materials before the fall deadline to ensure full review of your application. Applications submitted after the above deadline through March 15 will be considered if space is still available. To check if space is available, please email: ecegradadmission@engr.wisc.edu. (ecegradadmission@engr.wisc.edu)

APPLICATION REQUIREMENTS

A submitted online application (<https://grad.wisc.edu/apply/>) is required, consisting of:

- Resume/CV.
- Statement of purpose detailing why the applicant wishes to pursue further education in Electrical and Computer Engineering. If the applicant's degree is in another discipline, it is recommended to discuss relevant coursework taken in your area of interest that will prepare you for graduate-level Electrical and Computer Engineering (ECE (https://guide.wisc.edu/courses/e_c_e/)) courses. See the suggested guidelines provided by the Graduate School (<https://grad.wisc.edu/apply/prepare/>).
- Most up to date unofficial transcript(s) from all previous higher education institutions, regardless of whether or not a degree was earned (official transcripts are requested of only applicants

recommended for admission); international academic records must be in the original language accompanied by an official English translation.

- Test scores as detailed above.
- Three letters of recommendation are required from people who can accurately judge the applicant's academic and/or work performance. Letters of recommendation are submitted electronically to graduate programs through the online application. See the Graduate School for FAQs (<https://grad.wisc.edu/apply/>) regarding letters of recommendation. Letters of recommendation are due by the deadline listed above.

Information about the application fee may be found in the Graduate School FAQs (<https://grad.wisc.edu/apply/>). Fee grants are available through the conditions outlined by the Graduate School (<https://grad.wisc.edu/apply/fee-grant/>).

Applications must be entirely complete by the deadline, including test scores and letters of recommendation. Please note that it is highly advised to take the GRE and English proficiency tests well in advance of the application deadline in order to ensure time for receiving and processing of the scores. Please do not mail any paper copies of application materials, except IELTS scores. They will not be reviewed.

Information for international applicants, including proof of funding and visa information, can be found on the International Student Services (<https://iss.wisc.edu/students/admissions/>) website.

The department welcomes applications from scientific, engineering, and mathematical disciplines other than Electrical and Computer Engineering.

ENGLISH COMPETENCY FOR NON-NATIVE ENGLISH SPEAKERS

Effective written and oral communication is vital for a successful academic career. International students whose native language is not English will be required to take the English as a Second Language Assessment Test (ESLAT), offered by the English as a Second Language (ESL) Program.

The English as a Second Language Assessment Test (ESLAT) must be taken as soon as the student arrives at the university. The test is offered in the fall and spring during the week before the beginning of instruction. The English as a Second Language (ESL) home page (<https://esl.wisc.edu/international-students/placement/>) has more information.

Based on English as a Second Language Assessment Test (ESLAT) performance, specific English as a Second Language (ESL) courses may be recommended. These courses must be taken and passed within 12 months of the English as a Second Language Assessment Test (ESLAT). Otherwise, the student will not be permitted to register during the third semester after entering the graduate program. Any English as a Second Language (ESL) courses numbered 300 or above can be counted towards graduate degree requirements but not toward Electrical and Computer Engineering course requirements. Completion of English as a Second Language Assessment Test (ESLAT) and recommended courses is also a requirement for graduation of an international student whose native language is not English.

Students are exempt from taking the English as a Second Language Assessment Test (ESLAT) if:

- English is the exclusive language of instruction at the undergraduate institution; or

- they have earned a degree from a regionally accredited US college or university not more than 5 years prior to the anticipated semester of enrollment; or
- they have completed at least two full-time semesters of graded course work, exclusive of English as a Second Language (ESL) courses, in a US college or university, or at an institution outside the US where English is the exclusive language of instruction, not more than 5 years prior to the anticipated semester of enrollment.

REENTRY ADMISSIONS

If you were previously enrolled as a graduate student at UW–Madison, but have had a break in enrollment for at least one fall or spring semester, you will need to apply to resume your studies.

For applicants previously enrolled in a graduate program other than Electrical and Computer Engineering, you must complete a new online application, including all materials, for admission.

For applicants previously enrolled in Electrical and Computer Engineering as a graduate student, you must complete a reentry application. Reentry applicants may apply for the fall term with a deadline of June 1.

In order to apply as a reentry applicant, you must:

- complete the online application (<https://grad.wisc.edu/apply/>), including the personal information section, program and term selection, and supplementary application;
- Provide the following documents to the Electrical and Computer Engineering Graduate Admissions Team (email located in contact information box):
 - CV/Resume
 - Statement of Purpose
 - Any new unofficial transcripts from previous higher education institutions
 - Three letters of recommendation if the break in enrollment equals or is greater than four semesters (fall, spring). Letters of recommendation should be emailed directly from the recommender.

CURRENT GRADUATE STUDENT ADMISSIONS

Students currently enrolled as a graduate student at UW–Madison, whether in or other than Electrical and Computer Engineering, wishing to apply to this degree program should contact the Electrical and Computer Engineering Graduate Admissions Team (ecegradadmission@engr.wisc.edu) to inquire about the process and respective deadlines several months in advance of the anticipated enrollment term. Current students may apply to change or add programs for any term (fall, spring, or summer).

QUESTIONS

Please review the frequently asked questions answered by the Graduate School here (<https://grad.wisc.edu/apply/>).

If you have any admissions questions, please do not hesitate to contact the Electrical and Computer Engineering Graduate Admissions Team (ecegradadmission@engr.wisc.edu).

FUNDING

FUNDING

GRADUATE SCHOOL RESOURCES

The Bursar’s Office provides information about [tuition](#) and [fees associated with being a graduate student](#). [Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid](#). [Further funding information is available from the Graduate School](#). Be sure to check with your program for individual policies and restrictions related to funding.

PROGRAM RESOURCES

Students enrolled in this program are not eligible to receive tuition remission from graduate assistantship appointments at this institution.

Federal Loans

Students who are U.S. citizens or permanent residents may be eligible to receive some level of funding through the federal direct loan program. These loans are available to qualified graduate students who are taking at least 4 credits during the fall and spring semesters, and 2 credits during summer. Private loans are also available. Learn more about financial aid at this website (<https://financialaid.wisc.edu/>).

International Student Services Funding and Scholarships

For information on International Student Funding and Scholarships, visit the ISS website (<https://iss.wisc.edu/students/new-students/funding-scholarships/>).

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

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

NAMED OPTION REQUIREMENTS

MODE OF INSTRUCTION

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

Mode of Instruction Definitions

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

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

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

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

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

CURRICULAR REQUIREMENTS

Requirement Detail

Minimum Requirement	30 credits
Minimum Residence Requirement	23 credits
Minimum Graduate Coursework Requirement	15 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: https://policy.wisc.edu/library/UW-1244 (https://policy.wisc.edu/library/UW-1244/).
Overall Graduate GPA Requirement	3.00 GPA required. Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: https://policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/library/UW-1203/).
Other Grade Requirements	<ol style="list-style-type: none"> 1. A grade of B or better in any graduate course is acceptable. 2. A grade of BC in an E C E course is acceptable, provided the total cumulative GPA for graduate E C E courses is greater than or equal to 3.00. 3. A grade of BC or C in a non-E C E course is acceptable only if approved by the Graduate Committee.

Assessments and Examinations A specified course sequence must be completed.

Language Requirements Non-native speakers of English who enroll in the MS program must take the ESLAT test on arrival at the university and then take any recommended courses based on the exam results. In addition, if a student’s advisor believes that his or her technical writing ability needs improvement, the student may be required to undertake remedial work.

REQUIRED COURSES

The same course may not satisfy more than one requirement. For example, if E C E 431 is taken as a "Signal Processing" course, it cannot be used to satisfy an "Elective" course.

Code	Title	Credits
Required Seminar		
All on-campus E C E graduate students must register for 1 credit during their first semester of graduate studies.		
E C E 610	Seminar in Electrical and Computer Engineering	1
Machine Learning		
Complete at least one course from the following:		3
E C E/COMP SCI/ M E 532	Matrix Methods in Machine Learning	

E C E/COMP SCI/ M E 539	Introduction to Artificial Neural Networks
E C E/ COMP SCI 561	Probability and Information Theory in Machine Learning
E C E/ COMP SCI 760	Machine Learning
E C E/ COMP SCI 761	Mathematical Foundations of Machine Learning
E C E/COMP SCI/ STAT 861	Theoretical Foundations of Machine Learning

Signal Processing

Complete at least one course from the following: 3

E C E 431	Digital Signal Processing
E C E/ COMP SCI 533	Image Processing
E C E 734	VLSI Array Structures for Digital Signal Processing
E C E 735	Signal Synthesis and Recovery Techniques
E C E 738	Advanced Digital Image Processing

Electives

Complete at least 12 credits from the following: 12

E C E 431	Digital Signal Processing
E C E 436	Communication Systems I
E C E 437	Communication Systems II
E C E/COMP SCI/ I SY E 524	Introduction to Optimization
E C E/COMP SCI/ M E 532	Matrix Methods in Machine Learning
E C E/ COMP SCI 533	Image Processing
E C E/COMP SCI/ M E 539	Introduction to Artificial Neural Networks
E C E/ COMP SCI 561	Probability and Information Theory in Machine Learning
E C E/I SY E 570	Ethics of Data for Engineers
E C E 601	Special Topics in Electrical and Computer Engineering (as approved by faculty advisor)
E C E 717	Linear Systems
E C E 729	Information Theory
E C E 730	Probability and Random Processes
E C E 734	VLSI Array Structures for Digital Signal Processing
E C E 735	Signal Synthesis and Recovery Techniques
E C E 736	Wireless Communications
E C E 738	Advanced Digital Image Processing
E C E/ COMP SCI 760	Machine Learning
E C E/ COMP SCI 761	Mathematical Foundations of Machine Learning
E C E/ COMP SCI 766	Computer Vision

E C E/B M E/ MED PHYS 778	Machine Learning in Ultrasound Imaging
E C E 817	Nonlinear Systems
E C E 830	Estimation and Decision Theory
E C E/COMP SCI/ STAT 861	Theoretical Foundations of Machine Learning
E C E 901	Special Topics in Electrical and Computer Engineering (as approved by faculty advisor, max of 3 credits)

Other Course RequirementsChosen in consultation with advisor, complete some combination of the following: ¹ 11*Hands-On Project and/or Internship* ²

Complete up to 3 credits of independent study by enrolling in the following or equivalent in another department with advisor approval:

E C E 699	Advanced Independent Study
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Complete up to 3 credits of the following:

E C E 702	Graduate Cooperative Education Program
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Additional Coursework

Complete additional courses from the Electives list above

Complete other E C E coursework numbered 400 or above, with advisor approval

Complete up to 9 credits of relevant coursework numbered 300 or above in other departments with advisor approval, typically in COMP SCI, MATH, STAT, or E P D (Engineering Professional Development)

Total Credits 30

¹ Please keep written communication (emails are acceptable) of approvals from your faculty advisor. Note the following courses are not allowed to satisfy requirements: E C E 611 Introduction to Doctoral Research in Electrical & Computer Engineering or E C E 790 Master's Research, E C E 890 Pre-Dissertator's Research, E C E 990 Dissertator's Research.

² Students are strongly encouraged to seek out and engage in these development opportunities. Availability is not guaranteed.

Other Policy

Students in this program may not take courses outside the prescribed curriculum without faculty advisor and program director approval. Students in this program cannot enroll concurrently in other undergraduate or graduate degree programs.

POLICIES**GRADUATE SCHOOL POLICIES**

The Graduate School's Academic Policies and Procedures (<https://grad.wisc.edu/acadpolicy/>) serve as the official document of record for Graduate School academic and administrative policies and procedures and are updated continuously. Note some policies redirect to entries in the official UW-Madison Policy Library (<https://policy.wisc.edu/>). Programs may set more stringent policies than the Graduate School. Policies set by the academic degree program can be found below.

NAMED OPTION-SPECIFIC POLICIES

PRIOR COURSEWORK

Graduate Credits Earned at Other Institutions

Refer to the Graduate School: Transfer Credits for Prior Coursework (<https://policy.wisc.edu/library/UW-1216/>) policy.

Undergraduate Credits Earned at Other Institutions or UW-Madison

With program approval, UW-Madison courses numbered 400 or above can transfer toward the minimum graduate degree credit requirement. E C E courses numbered 700 or above can be counted toward the minimum graduate coursework (50%) requirement. No credits can be counted toward the minimum graduate residence credit requirement. Coursework earned ten or more years prior to admission to a master's degree is not allowed to satisfy requirements.

With program approval, credits from any institution numbered 300 or above outside of E C E or numbered 400 or above within E C E can transfer toward the minimum graduate degree credit requirement. Transfer credits from other institutions must be equivalent to the rigor of UW-Madison courses numbered 300 and above. Prior coursework transfers will be assessed on a case-by-case basis by the ECE MS or PhD Committee. These credits cannot count toward the 50% graduate coursework minimum nor the minimum graduate residence credit requirement. To request evaluation of prior coursework, please contact the Graduate Student Services Coordinator. Coursework earned ten or more years prior to admission is not allowed to satisfy requirements.

Credits Earned as a Professional Student at UW-Madison (Law, Medicine, Pharmacy, and Veterinary careers)

Refer to the Graduate School: Transfer Credits for Prior Coursework (<https://policy.wisc.edu/library/UW-1216/>) policy.

Credits Earned as a University Special Student at UW-Madison

With program approval, students are allowed to transfer coursework numbered 400 or above, taken as a UW-Madison University Special student, toward the minimum credit requirement. Courses numbered 700 or above or are taken to meet the requirements of a capstone certificate and has the "Grad 50%" attribute taken as a UW-Madison Special student can count toward the minimum graduate coursework (50%) requirement. Coursework earned ten or more years prior to admission is not allowed to satisfy requirements.

(Up to 7 credits total of prior coursework can be used from the categories above.)

PROBATION

Refer to the Graduate School: Probation (<https://policy.wisc.edu/library/UW-1217/>) policy.

See program policies under "Other," below, for more details.

ADVISOR / COMMITTEE

A faculty advisor will be assigned to the student. The faculty advisor assists with course selection and academic planning.

CREDITS PER TERM ALLOWED

15 credit maximum. Refer to the Graduate School: Maximum Credit Loads and Overload Requests (<https://policy.wisc.edu/library/UW-1228/>) policy.

TIME LIMITS

Students are expected to complete the degree requirements and graduate within 3 academic semesters.

Otherwise, refer to the Graduate School: Time Limits (<https://policy.wisc.edu/library/UW-1221/>) policy.

GRIEVANCES AND APPEALS

These resources may be helpful in addressing your concerns:

- Bias or Hate Reporting (<https://doso.students.wisc.edu/bias-or-hate-reporting/>)
- Graduate Assistantship Policies and Procedures (<https://hr.wisc.edu/policies/gapp/#grievance-procedure>)
- Hostile and Intimidating Behavior Policies and Procedures (<https://hr.wisc.edu/hib/>)
 - Office of the Provost for Faculty and Staff Affairs (<https://facstaff.provost.wisc.edu/>)
- Employee Assistance (<http://www.eao.wisc.edu/>) (for personal counseling and workplace consultation around communication and conflict involving graduate assistants and other employees, post-doctoral students, faculty and staff)
- Employee Disability Resource Office (<https://employeeabilities.wisc.edu/>) (for qualified employees or applicants with disabilities to have equal employment opportunities)
- Graduate School (<https://grad.wisc.edu/>) (for informal advice at any level of review and for official appeals of program/departmental or school/college grievance decisions)
- Office of Compliance (<https://compliance.wisc.edu/>) (for class harassment and discrimination, including sexual harassment and sexual violence)
- Office Student Assistance and Support (OSAS) (<https://osas.wisc.edu/>) (for all students to seek grievance assistance and support)
- Office of Student Conduct and Community Standards (<https://conduct.students.wisc.edu/>) (for conflicts involving students)
- Ombuds Office for Faculty and Staff (<http://www.ombuds.wisc.edu/>) (for employed graduate students and post-docs, as well as faculty and staff)
- Title IX (<https://compliance.wisc.edu/titleix/>) (for concerns about discrimination)

ECE Grievance Procedures Exceptions, Extensions, and Appeals

Petitions for exceptions to academic requirements are considered on an individual case-by-case basis and granted exceptions do not constitute a precedent. Deviations from established policies are strongly discouraged, but certain extenuating academic and personal circumstances may warrant exceptions. Petitions for course exceptions/substitutions, exceptions to the Satisfactory Progress Expectations (academic or conduct), or other policy exceptions shall be directed to the ECE Graduate Committee, and in some circumstances to the appropriate program coordinator. The following procedures apply to all petitions:

1. Student must first consult with their advisor(s).
2. Student is advised to also consult with the ECE Graduate Student Services Coordinator for additional advice.
3. Student and advisor(s) must both submit written documentation requesting and explaining the petition to the ECE Graduate Student Services Coordinator:
4. Identify the specific requirement/rule/expectation pertinent to the petition;
5. Explain the rationale for petition and why it should be granted;
6. Advisor(s) must support the petition.

The ECE Graduate Student Services Coordinator will forward the petition to the ECE Graduate Committee and appropriate program coordinator for adjudication. Student and advisor(s) will be notified of the ECE Graduate Committee's decision and the note will be placed in the student's file.

Please note that petitions for exceptions to clearly-defined program rules are rarely approved by the ECE Graduate Committee.

Progress Requirements

The ECE Graduate Committee may grant extensions to normal progress requirements in circumstances such as childbirth, adoption, significant responsibilities with respect to elder or dependent care obligations, disability or chronic illness, or circumstances beyond one's personal control. Petitions for extensions should provide evidence of plans and ability to return to conformance with program expectations and to acceptably complete the program. Extensions beyond one semester will be granted only in the event of highly extraordinary circumstances. Extensions will be recorded with a note of explanation placed in the student's file.

Students desiring confidentiality of their circumstances should consult with the Associate Chair for Graduate Studies.

Appeal of Previous Decisions

Appeals of ECE Graduate Committee decisions may be pursued regarding any academic issue, including exceptions to program requirements, progress requirements, AGS and Qualifying Exam decisions. Appeals will only be considered if the student provides new information that was not available to the ECE Graduate Committee at the time the original decision was made. Appeals must be submitted within one month of the date the student was notified of the ECE Graduate Committee action being appealed.

If the student believes their appeal was not appropriately handled or resolved by the ECE Department, the student may further appeal to the College of Engineering by contacting the Assistant Dean for Graduate Affairs. Such appeals must be submitted within one month of the date the student was notified of the ECE Graduate Committee denial.

Grievances

The ECE Department, College of Engineering, and University of Wisconsin offer multiple avenues to resolve unfair or inappropriate treatment by faculty, staff, or another student. This includes hostile and intimidating research group climate, authorship disputes, unreasonable expectations, and disrespectful behavior. The manner in which the grievance is handled depends on the nature of the issue and specific concerns of the aggrieved student. Graduate Assistants in TA, PA and/or RA appointments may utilize the Graduate Assistantship Policies and Procedures (<https://hr.wisc.edu/policies/gapp/>) (GAPP) grievance process to resolve

employment-related issues. Examples of matters appropriate for the GAPP grievance process include allegations of excessive work hours, violations of sick days or vacation policies, or disputes regarding the assignment of duties.

In some cases the best approach is for the aggrieved student to discuss their concern directly with the person responsible for the objectionable action.

If the student is uncomfortable making direct contact with the other individual or desires a confidential consultation about their concern, they may contact the ECE Associate Chair for Graduate Studies, the ECE Grievance Advisor, or the College of Engineering Assistant Dean for Graduate Affairs. These individuals work to resolve the concern while being sensitive to student confidentiality.

Change of advisor

Students who believe they are in a research environment that fails to meet ECE and College of Engineering standards for climate and culture should contact the ECE Associate Chair for Graduate Studies, the ECE Grievance Advisor, or the College of Engineering Assistant Dean for Graduate Affairs for additional consultation. They will work with the student to explore alternate advising arrangements and ensure continuity of financial support should the student need to leave the research group. Note that immigration status is NOT tied to a specific research advisor.

Formal Written Complaint Process

Issues that are not resolved to the student's satisfaction may be pursued at the student's discretion by submitting a written complaint to the ECE Grievance Advisor. The steps described below are based on the Definition and Procedure section of the Graduate Assistantship Policies and Procedures (<https://hr.wisc.edu/policies/gapp/>) (GAPP) Grievance Procedure.

Step One: The grievant must file a written statement with the ECE Grievance Advisor specifying the grievant's name, a clear and concise statement of the grievance and the issue(s) involved, the date(s) the incident or violation took place and the specific departmental, college, or university policies involved, and the relief sought. The grievance shall be signed and dated by the grievant(s) and representative (if any).

Within twenty (20) days of receipt of the written grievance, the ECE Grievance Advisor will meet with the grievant and their representative (if chosen) to hear the grievance and will return a written answer to the grievant and their representative (if chosen) no later than ten (10) days after this meeting. This answer will include a copy of the grievance procedure appeal process timeline, a list of resources and relevant contact information for future steps.

Step Two: If the decision in Step One is not accepted by the grievant, the grievant shall have 10 days from receipt of the answer in Step One to file an appeal with the College of Engineering Assistant Dean for Graduate Affairs. The Assistant Dean for Graduate Affairs will meet with the grievant and their representative (if chosen) within twenty (20) days from receipt of the appeal of Step One and attempt to resolve the grievance. The Assistant Dean for Graduate Affairs will provide the grievant and their representative (if chosen) with a written response to the grievance no later than ten (10) days after this meeting.

Step Three: If the decision in Step Two is not accepted by the grievant, the grievant shall have 10 days from the receipt of the answer in Step Two to file an appeal with the Graduate School as described in Grievances and Appeals (<https://grad.wisc.edu/documents/grievances-and-appeals/>).

OTHER

Students are strongly discouraged to pursue positions as Project Assistants, Teaching Assistants or Research Assistants during their time in this program, as the rigor and accelerated nature of this program may not accommodate those work time commitments. Students in this program will not receive the tuition remission that is typically part of the compensation package for a graduate assistantship.

PROFESSIONAL DEVELOPMENT

PROFESSIONAL DEVELOPMENT GRADUATE SCHOOL RESOURCES

Take advantage of the Graduate School's professional development resources (<https://grad.wisc.edu/pd/>) to build skills, thrive academically, and launch your career.

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING RESOURCES

UW–Madison, the College of Engineering, and ECE have an abundance of professional development opportunities for students to take advantage of in order to better prepare themselves for internships and job positions during and following their education. First of all, the ECE Department strongly encourages students to utilize the Graduate School's professional development resources (<https://grad.wisc.edu/professional-development/>). Engineering Career Services (ECS) (<http://ecs.wisc.edu>) hosts multiple career fairs each semester where students can directly interact with prospective employers, schedule interviews, and find internships and full-time jobs. ECS also maintains job listings and hosts a variety of professional development workshops each semester. The ECE Department provides unique opportunities throughout the year for students to attend and participate in various lectures, workshops, and trainings. The ECE Graduate Student Association (GSA) organizes professional development opportunities for fellow students. Students are made aware of events and opportunities via email and other communications.