



General Course Information

Course Subject, Number and Title: ECE 610 Seminar in Electrical and Computer Engineering

Credits: 1

Course Designations and Attributes: Grad 50%

Course Description:

Survey of topics within the department of electrical and computer engineering that introduce students to the materials/techniques to assist them in being successful graduate students. Faculty seminars spanning energy and power systems, applied physics, electromagnetic fields, plasmas, communications and signal processing, controls, photonics, solid state, and computers will be given. Additionally, students will participate in weekly group exercises to enhance their skills in engineering/technical communications, writing, ethics, and project management.

Requisites: Graduate/professional standing

Meeting Time and Location: Monday/Wednesday 4:00 – 5:15 pm (Sep. 6th – Oct. 9th), Wendt Commons 311

Instructional Modality: In-person

Instructor Info:

Dominic Groß (MSR & PhD)
2562 Engineering Hall
dominic.gross@wisc.edu
Office Hours: TBD

Parmesh Ramanathan (MSP & MLSP)
3348 Engineering Hall
parmesh.ramanathan@wisc.edu
Office Hours: TBD

Course Learning Outcomes

Students will:

1. Develop relationships across ECE research disciplines to foster a collaborative environment.
2. Identify UW resources to assist in course projects and research.
3. Explore research pursuits within the ECE department.
4. Identify personal strengths and reflect on how to work effectively with others.
5. Analyze professional ethics.
6. Identify characteristics of effective technical writing.
7. Demonstrate an effective elevator pitch.

How Credit Hours are Met by the Course

The credit standard for this course is met by an expectation of a total of 45 hours of student engagement with the course learning activities, which include regularly scheduled instructor student meeting times, reading, writing, quizzes, and other student work as described in the syllabus.

Regular and Substantive Student-Instructor Interaction

This class engages students in direct instruction and discussion of course content during class meetings as well as out of class interactions via email, office hours, Canvas, and electronic forums.

Expectations

1. Respect for peers: We all benefit from the wide variety of experiences, perspectives and opinions represented by class members. You contribute by sharing your views, asking thoughtful questions, listening carefully to others, and providing constructive feedback when appropriate. We show respect to each other by not demeaning or criticizing those who hold opinions and views different than your own.
2. Respect for speakers: The speakers are volunteering their time to share their expertise with you. You show respect by completing any advance assignments, attending their presentation, listening carefully, asking questions, and actively participating in any activities or discussion. All devices (laptops, tablets, phones, etc.) are put away when a speaker has the floor unless you are specifically instructed to use them. Every speaker has something of value to share, and you can't anticipate now what will later prove useful to you. So be fully engaged – what they share may lead to a promotion or key opportunity someday.

Course Website and Digital Instructional Tools

<https://canvas.wisc.edu/courses/375300>

Assignments

- All work is to be your own individual effort.
- All work is to be assigned and submitted through Canvas.

Exams, Quizzes, Papers and Other Major Graded Work

- Pre-class and attendance quizzes are delivered through Canvas and due at times indicated. Students with excused absences will instead be able to watch a recording of the class and respond to a short quiz within one week of the class period.

Course Schedule/Calendar

Please refer to the course schedule on Canvas for an up-to-date calendar of class periods and topics.

Grading

The course will be graded to emphasize completion. If you attend class (or complete class make-up materials) and do reasonable work, you will earn an A.

The following components contribute to your grade:

1. Attendance: You will be required to take a trivial Canvas quiz each class period with a password provided during class. In taking this quiz, you are declaring that you are present in the classroom. Sharing the password with someone who is not present is considered academic misconduct and will result in failing the course. Note that Canvas records everything about the quiz, including from where you logged in.

Excused absences: **Do not come to class if you are ill.** If you are unable to attend class for religious, medical, or personal reasons, please email us. We will arrange for you to make up the class period you missed by watching a video recording and responding to a short quiz. Note that the video recording and quiz will only count as a class make-up if you have emailed us to let us know why you cannot attend class.

2. Pre-class activities: light reading and a short quiz assigned to be completed before class. This content will prepare you for the topic to be discussed in class. The quizzes will close at 4 pm on the corresponding class day and cannot be made up unless you have an excused absence.
3. Assignments: This category may include a few out-of-class assignments that apply concepts introduced in class. These are due at the times indicated in Canvas. Your section (e.g., MSP/MLSP) may not include assignments. Any assignments that apply to you will be assigned to you in Canvas.

Grading Allocations:

Component	Points Allocated
Attendance	2 points/class, 10 classes
Pre-class quizzes	7 points/quiz, approx. 6-7 quizzes
Assignments (~2)	All assignments completed: 2 points Any assignment incomplete: 0 points

Maximum points: 32

Grades:

Grade	from	to
A	100%	94%
AB	< 94%	87%
B	< 87%	80%
BC	< 80%	75%
C	< 75%	70%
D	< 70%	60%
F	< 60%	0%

We reserve the right to deduct points for inappropriate behavior in the classroom, including failing to respect peers and speakers.

How to Succeed in this Course

1. Complete all pre-class readings and quizzes.
2. Attend every class unless you are ill or otherwise unable to attend. Communicate with us if you are unable to attend class.
3. Communicate with us early if you have any concerns or situations that could affect your participation and attendance.
4. Complete all out-of-class assignments assigned to you in Canvas.

Teaching & Learning Data Transparency Statement

The privacy and security of faculty, staff and students' personal information is a top priority for UW-Madison. The university carefully reviews and vets all campus-supported digital tools used to support teaching and learning, to help support success through [learning analytics](#), and to enable proctoring capabilities. View the university's full teaching and learning [data transparency statement](#).

Privacy of Student Records & the Use of Audio Recorded Lectures Statement

View [more information about FERPA](#).

Lecture materials and recordings for this course are protected intellectual property at UW-Madison. Students in courses may use the materials and recordings for their personal use related to participation in class. Students may also take notes solely for their personal use. If a lecture is not already recorded, students are not authorized to record lectures without permission unless they are considered by the university to be a qualified student with a disability who has an approved accommodation that includes recording. [Regent Policy Document 4-1] Students may not copy or have lecture materials and recordings outside of class, including posting on internet sites or selling to commercial entities, with the exception of sharing copies of personal notes as a notetaker through the McBurney Disability Resource Center. Students are otherwise prohibited from providing or selling their personal notes to anyone else or being paid for taking notes by any person or commercial firm without the instructor's express written permission. Unauthorized use of these copyrighted lecture materials and recordings constitutes copyright infringement and may be addressed under the university's policies, UWS Chapters 14 and 17, governing student academic and non-academic misconduct.

Campus Resources for Academic Success

[University Health Services](#)

[Undergraduate Academic Advising and Career Services](#)

[Office of the Registrar](#)

[Office of Student Financial Aid](#)

[Dean of Students Office](#)

[Graduate Student Services](#)

Digital Course Evaluation

UW-Madison uses a [digital course evaluation](#) survey tool. In most instances, students receive an official email two weeks prior to the end of the semester, notifying them that course evaluations are available. Students receive an email with a link to log into the course evaluation with their NetID. Evaluations are anonymous. Student participation is an integral component of course development, and feedback is important. UW-Madison strongly encourages student participation in course evaluations.

Students' Rules, Rights & Responsibilities

[Rights & Responsibilities](#)

Diversity & Inclusion Statement

[Diversity](#) is a source of strength, creativity, and innovation for UW-Madison. We value the contributions of each person and respect the profound ways their identity, culture, background, experience, status, abilities, and opinion enrich the university community. We commit ourselves to the pursuit of excellence in teaching, research, outreach, and diversity as inextricably linked goals. The University of Wisconsin-Madison fulfills its public mission by creating a welcoming and inclusive community for people from every background – people who as students, faculty, and staff serve Wisconsin and the world.

Academic Integrity Statement

By virtue of enrollment, each student agrees to uphold the high academic standards of the University of Wisconsin-Madison; academic misconduct is behavior that negatively impacts the integrity of the institution. Cheating, fabrication, plagiarism, unauthorized collaboration, and helping others commit these previously listed acts are examples of misconduct which may result in disciplinary action. Examples of disciplinary [sanctions](#) include, but

are not limited to, failure on the assignment/course, written reprimand, disciplinary probation, suspension, or expulsion.

Accommodations for Students with Disabilities

The University of Wisconsin-Madison supports the right of all enrolled students to a full and equal educational opportunity. The Americans with Disabilities Act (ADA), Wisconsin State Statute (36.12), and UW-Madison policy ([UW-855](#)) require the university to provide reasonable accommodations to students with disabilities to access and participate in its academic programs and educational services. Faculty and students share responsibility in the accommodation process. Students are expected to inform faculty of their need for instructional accommodations during the beginning of the semester, or as soon as possible after being approved for accommodations. Faculty will work either directly with the student or in coordination with the McBurney Center to provide reasonable instructional and course-related accommodations. Disability information, including instructional accommodations as part of a student's educational record, is confidential and protected under FERPA. (See: [McBurney Disability Resource Center](#))

Academic Calendar & Religious Observances

[Academic Calendar & Religious Observances](#)