

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN
Department of Electrical and Computer Engineering

ECE460: Optical Imaging
<http://courses.engr.illinois.edu/ece460/fa2023>
Fall 2023

Syllabus

Instructor:

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333-8399

Office Hours: By Appointment (or TBA)

Teaching Assistants:

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Text and References:

The required text for this course is Fundamentals of Photonics, by Saleh and Teich, Third Edition. Having a different edition is acceptable. Just be aware that chapter and/or section numbers may change between editions. Students will be provided with any additional resources needed beyond the textbook.

Course Schedule:

The course schedule may be found on the course website listed above. The schedule is fluid and may change over time. The on-line course schedule supersedes all other course materials, so please check it regularly.

Lab Reports:

Lab reports guidelines are provided in a different document on the course website. Lab reports are to be turned in individually. Lab partners or lab mates may work together but they must turn in separate lab reports.

Homework:

There will be approximately 10-12 homework problem sets, on a roughly weekly schedule. Problem sets will be available in PDF format on the course web page (course schedule) with the due date clearly identified. The homework should be turned in before midnight, the date it is due.

Please submit a pdf file via e-mail to p-dragic@illinois.edu. Be sure to include your last name and homework number in the filename.

Integrity:

This course will operate under the following honor code: All students are expected to do their own work and turn in their own work for credit. Students may collaborate on homework assignments, but each student must turn in their own work that has been worked out independently of any other student (i.e., please do not copy someone else's solutions...this defeats the purpose of the homework). Students shall not turn in the same printouts from a computer-generated set of solutions. By enrolling in this course and submitting homework or exams for grading, each student implicitly accepts this honor code.

Quizzes:

In lieu of midterms, there will be 5 or 6 brief (20 minute) quizzes scattered throughout the semester. They will not be "surprise" quizzes. They will appear at the end of major topics and will cover the material after the previous quiz.

Final Project:

There will be a final project (in the form of a report, oral and written), done on a topic of your choice related to Optics. It is required to be a design project. Literature reviews will not be acceptable. It may be theoretical (e.g., design an optical system) or experimental (e.g., design an experiment). You will be required to work in teams. A final team report and team presentations will be the project deliverables. More details will be provided later in the semester.

Course Grade:

The final grade in the course will be determined by the following criteria:

Lab Reports:	50%
Final Project:	25%
Homework:	10%
Quizzes:	10%
Class Participation and Focused Effort:	5%*

*this includes coming to class

The following are taken direction from University Policy which change periodically.

(<https://ae3.engineering.illinois.edu/syllabus-and-course-policy-statements-2/>)

COVID and Other Illnesses

Students who feel ill must not come to class. In addition, students who test positive for COVID-19 or have had an exposure that requires testing and/or quarantine must not attend class. The University will provide information to the instructor, in a manner that complies with privacy laws, about students in these latter categories. These students are judged to have excused absences for the class period and should contact the instructor via email about making up the work.

Emergency Response Recommendations

Emergency response recommendations can be found at the following website: <http://police.illinois.edu/emergency-preparedness/>. I encourage you to review this website and the campus building floor plans website within the first 10 days of class. <http://police.illinois.edu/emergency-preparedness/building-emergency-action-plans/>.

Statements relevant to all courses offered

Sexual Misconduct Reporting Obligation

The University of Illinois is committed to combating sexual misconduct. Faculty and staff members are required to report any instances of sexual misconduct to the University's Title IX Office. In turn, an individual with the Title IX Office will provide information about rights and options, including accommodations, support services, the campus disciplinary process, and law enforcement options. A list of the designated University employees who, as counselors, confidential advisors, and medical professionals, do not have this reporting responsibility and can maintain confidentiality, can be found here: wecare.illinois.edu/resources/students/#confidential. Other information about resources and reporting is available here: wecare.illinois.edu.

Academic Integrity

The University of Illinois at Urbana-Champaign Student Code should also be considered as a part of this syllabus. Students should pay particular attention to Article 1, Part 4: Academic Integrity. Read the Code at the following URL: <http://studentcode.illinois.edu/>. Academic dishonesty may result in a failing grade. Every student is expected to review and abide by the Academic Integrity Policy: <https://studentcode.illinois.edu/article1/part4/1-401/>. Ignorance is not an excuse for any academic dishonesty. It is your responsibility to read this policy to avoid any misunderstanding. Do not hesitate to ask the instructor(s) if you are ever in doubt about what constitutes plagiarism, cheating, or any other breach of academic integrity.

Religious Observances

Illinois law requires the University to reasonably accommodate its students' religious beliefs, observances, and practices in regard to admissions, class attendance, and the scheduling of

examinations and work requirements. You should examine this syllabus at the beginning of the semester for potential conflicts between course deadlines and any of your religious observances. If a conflict exists, you should notify your instructor of the conflict and follow the procedure at <https://odos.illinois.edu/community-of-care/resources/students/religious-observances/> to request appropriate accommodations. This should be done in the first two weeks of classes.

Disability-Related Accommodations

To obtain disability-related academic adjustments and/or auxiliary aids, students with disabilities must contact the course instructor and the Disability Resources and Educational Services (DRES) as soon as possible. To contact DRES, you may visit 1207 S. Oak St., Champaign, call 333-4603, e-mail disability@illinois.edu or go to <https://www.disability.illinois.edu>. If you are concerned you have a disability-related condition that is impacting your academic progress, there are academic screening appointments available that can help diagnosis a previously undiagnosed disability. You may access these by visiting the DRES website and selecting "Request an Academic Screening" at the bottom of the page.

Family Educational Rights and Privacy Act (FERPA)

Any student who has suppressed their directory information pursuant to Family Educational Rights and Privacy Act (FERPA) should self-identify to the instructor to ensure protection of the privacy of their attendance in this course. See <https://registrar.illinois.edu/academic-records/ferpa/> for more information on FERPA.