



CREOL-College of Optics & Photonics

OSE-6111 Optical Wave Propagation

Fall 2022

Time: Tuesday and Thursday - 9:00 AM – 10:15 AM
August 23, 2022 – December 6, 2022

Location: CREOL-102/103

Credit Hours: 3 hours

Prerequisite: Graduate standing or consent of instructor

Description: Optical propagation of light waves as applied to isotropic, anisotropic, inhomogeneous media, planar waveguide, and periodic structures.

Instructor: Dr. Jim Moharam, Professor

- **Office:** CREOL-A234
- **Email:** moharam@creol.ucf.edu

Office Hours: Monday and Wednesday 3:00 PM – 4:00 PM or by appointment.

- Email to setup a Zoom meeting.
- If you have questions out of office hours, drop by or e-mail.
- Your e-mail of record at UCF will be used for communication.

Delivery Modality: Lectures are offered in class and synchronously on Zoom at the scheduled time. Zoom recordings are posted on **Webcourses**.
Students in the on-campus section are expected to attend in-person.

Course materials: Course notes/slides, problem sets, solutions, and old exams are posted on **Webcourses**.

Course Requirements and Grading Policy:

- **Problem sets: 10%**
 - Problem sets are to be submitted in class or through **Webcourses** before class time.
 - Late homework is not accepted.
 - You may work with others but the submission must be all yours.
- **Midterm Exam I: 25%**
 - Thursday, October 6, 2022 9:00 AM - 10:15 AM
- **Midterm Exam II: 25%**
 - Thursday November 3, 2022 9:00 AM - 10:15 AM
- **Final Exam: 40%**
 - Thursday, December 8, 2022 7:00 AM - 9:50 AM

Exam Policy:

- Exams are comprehensive and are closed book and notes.
- External materials of any form (books, notes, web content, etc.) are not allowed.
- Access to information on the web is not allowed during the exam.
- Discussing, seeking or receiving assistance on the exam from others is not allowed.
- Students must sign a pledge that they followed the exam rules using no external materials of any form, and did not collaborate with others.

Exam Instructions for the students in the remote section:

- Exams for remote students are held at the same scheduled time as that of the face-to-face students.
- Students in the remote section should be logged into Zoom with the camera on during the exam (unless not allowed by employer).
- The exam will be **emailed 5 minutes** before the start time.
- The completed exam paper must be returned in **10 minutes** after the end of the allowed time by email moharam@creol.ucf.edu in PDF format (**Lastname-MT?/Final.PDF**).
- It is the responsibility of the student to insure access to a reliable internet connection and the availability of equipment to access the exam on Webcourses, and to return the completed exam within the allowed time.
- Reasonable requests for special accommodations will be considered and must be approved in advance.

Make up Work/Exam Policy:

If an emergency arises and a student cannot submit assigned work by the due date or cannot take an exam on the scheduled date, the student must notify the instructor no less than 24 hours before and no more than 48 hours after the scheduled date.

Grading Scale (%) Interpretation:

Plus and minus grades will be used.

(%)	Rubric Description
$A \geq 90$	Excellent, has a strong understanding of all concepts and is able to apply the concepts. Has full mastery of the content of the course.
$90 > B \geq 70$	Good, has a strong understanding of most or all of the concepts and is able to apply them to stated and defined situations.
$70 > C \geq 60$	Average, has a basic understanding of the major concepts of the course and is able to apply to basic situations.
$60 > D \geq 50$	Below average, has a basic understanding of only the simple concepts and is able to apply to only a limited number of the most basic situations.
$F < 50$	Demonstrates no understanding of the course content.