

Optical Sciences and Engineering Advanced Lecture Series (PHYS 500/ECE 595 OSE Seminar Series)

Instructors: Dr. Lushnikov, Distinguished Professor and Dr. Gruzdev, Research Associate Professor

Instructors Contract Information:

Dr. Lushnikov's office SMLC, 218 **Email:** plushnik@math.unm.edu **Phone:** (505) 277-2104

Dr. Gruzdev's office PAIS, 2012 **Email:** vgruzdev@unm.edu

Class Location(s): PAÍS, Room 2540 and CHTM, Room 103

Class Attendance: The class meets on Thursdays from 12:45 PM –1:45 PM; due to scheduling constraints, we will typically begin the lectures at 12:50 PM. About 50% of the talks will be at PAÍS and about 50% will be held at CHTM. There will also be "special" lectures which will be held outside of the regularly scheduled class. Students are strongly encouraged to attend the "special" lectures, but attendance is not mandatory. The schedule is available on the OSE seminar website. Doris will post all official information before each lecture via the OSE website.

Please note that every student is expected to attend all the lectures in person, with an allowance of up to 3 online attendances if needed. If you require 100% online attendance, there must be significant circumstances such as severe childcare issues, sickness, or temporary disability. Please email me your requests and explanations, and I'll get back to you with the decision.

Overview/Learning Outcomes: This lecture course will feature a series of talks focused on the latest research in the field of Optical Science and Engineering. The speakers will include worldwide experts in the field of optics from academia, industry, and the national labs, as well as UNM faculty. Anticipated learning outcomes include:

1. Students will be exposed to a wide range of topics in optics and photonics.
2. Students will have a formal venue to network with leading scientists in the field.
3. Students will learn (by example) how to deliver a coherent oral presentation.

Requisites: All new incoming OSE students are required to sign up for the course. All continuing OSE students from all tracks are highly encouraged to take the course. Students from other disciplines are welcome!

Textbook: None.

Assignment: To get credit at the end of semester each registered student should submit a write-up of all lectures attended weekly by Friday afternoon via Canvas starting in February 2025. The write-up should summarize your learnings in one paragraph and does NOT need to exceed half a page or 250 words for each lecture. There will be no exams for this course.

Grading: Registered students will receive a grade of CR in this 1.0 credit hours class when they have successfully attended 80% or more of the scheduled lectures. Attendance will be monitored for each class via a sign-in sheet both in-class and by Zoom. To ensure that you get the most out of the class, successful attendance is defined as arriving by 12:50 PM and staying for the full lecture.