

# Fall 2026: ELEC 5970/6970 Optoelectronics

**Time:** Tue./Thu. 09:30 - 10:45 am

**Where:** Broun Hall 235

**Instructor:** Dr. [Zihe Gao](mailto:zzg0036@auburn.edu) (zzg0036@auburn.edu)

**Prerequisite:** ELEC 3320 or equivalent on electromagnetics or waves

## Course Outline:

1. **Optics:** ray optics, lens systems, wave optics, Fourier optics, holography
2. **Materials:** light-matter interaction, semiconductors, bandgap engineering
3. **Devices:** light emitting diodes, lasers, detectors, and modulators
4. **Systems:** optical communications, imaging, and display systems

## Grading Policy:

For 5970		For 6970	
Homework	30%	Homework	20%
Mid-term exam	30%	Mid-term exam	30%
Final project	35%	Final project	45%
Class participation	5%	Class participation	5%

A selection of images from the lecture slides to capture your interest:

