

# PHYS 434. OPTICS.

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Credits: 3

Offered by: Physics (Faculty of Science)

Terms offered: Fall 2025

[View offerings for Fall 2025 in Visual Schedule Builder.](#)

## Description

Fundamental concepts of optics, including applications and modern developments. Light propagation in media; geometric optics and optical instruments; polarization and coherence properties of light; interference and interferometry; diffraction theory and applications in spectrometry and imaging; Gaussian beams, Fourier optics and photonic band structure. A laboratory component provides hands-on experience in optical setup design, construction and testing of concepts introduced in lectures.

- Fall
- 2 hours lecture, 3 hours lab
- Corequisite: PHYS 342 or PHYS 352, or permission of the instructor

Most students use Visual Schedule Builder (VSB) to organize their schedules. VSB helps you plan class schedules, travel time, and more.

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