

Bachelor of Science in Optical Sciences and Engineering[†]

College of Optical Sciences

Proposed Program Educational Objectives

The Optical Sciences and Engineering curriculum at The University of Arizona is dedicated to preparing students for productive careers in industry, graduate school, or other service. It aims to produce graduates who, within three to five years of graduation, will:

- Objective 1: demonstrate a solid foundation in the basic principles of optics, mathematics, and physics necessary to understand a broad range of optical systems.
- Objective 2: utilize optical engineering tools to design, build, analyze, improve, and test systems in which optics is an enabling technology.
- Objective 3: communicate effectively in oral, written, and graphical forms.
- Objective 4: work successfully both independently and on multidisciplinary teams.
- Objective 5: demonstrate an adherence to ethical principles and practices in their professional career.
- Objective 6: contribute to society by engaging in public and professional service activities while building an understanding and appreciation of the impact that engineering has on society.
- Objective 7: work successfully at an advanced level within their area of expertise through application of problem-solving skills.
- Objective 8: engage in life-long learning and professional development through self-study, continuing education, or graduate and professional studies in engineering, science, business, law or medicine.

Note: We will seek approval of these proposed objectives with evidence statements through our undergraduate curriculum committee, faculty, students, and external constituents no later than December 2016.