



THE UNIVERSITY OF ARIZONA

College of Engineering

[engineering.arizona.edu](http://engineering.arizona.edu)

## Bachelor of Science in Optical Sciences and Engineering<sup>†</sup>

James C. Wyant College of Optical Sciences

### Program Educational Objectives

The B.S. 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 will:

- Objective 1: Foundations: demonstrate a solid foundation in the basic principles of optics, mathematics, and physics necessary to understand a broad range of optical systems.
- Objective 2: Optical Engineering: utilize optical engineering tools to design, build, analyze, improve, and test systems in which optics is an enabling technology.
- Objective 3: Communication: communicate effectively in oral, written, and graphical forms.
- Objective 4: Teamwork: work successfully both independently and on multidisciplinary teams.
- Objective 5: Ethics: demonstrate an adherence to ethical principles and practices in their professional career.
- Objective 6: Society: 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: Advanced Level: work successfully at an advanced level within their area of expertise through application of problem-solving skills.
- Objective 8: Professional Development: 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.

These program educational objections were developed in conjunction between our undergraduate curriculum committee (UGCC), faculty, students, Industrial Affiliates, and alumni.

- They were proposed at the end of 2016,
- Approved in May 2017 by the UGCC, and
- Minor updates to the wording to enhance clarification were made in April 2022.

<sup>†</sup> Accredited by the Engineering Accreditation Commission of ABET,  
415 North Charles Street, Baltimore, MD 21201 | 410.347.7700.