

Bachelor of Science in Optical Sciences and Engineering[†]

College of Optical Sciences

Mapping of Program Outcomes to Program Educational Objectives

Program Outcomes							
H = High M = Medium L = Low	Have a good understanding of the basic physics and mathematics underlying optical phenomena and optical systems	Are able to apply their understanding of physics and mathematics to solve technical and engineering problems	Are able to effectively use optical components, optical and electronic instruments, and computers to perform experiments and do testing in an optics laboratory	Are able to work effectively in teams to solve engineering and design problems	Are able to design optical systems and components as needed in their professional careers	Are able to effectively communicate with others both orally and in writing	Understand their professional and ethical responsibilities as engineering or scientific professionals
	(ABET: A,E,H,K)	(ABET: A,E,I,K)	(ABET: B,C,E,J,K)	(ABET: D)	(ABET: B,C,D,E,I,J,K)	(ABET: G)	(ABET: F,H,I)
Program Educational Objectives							
Graduates will demonstrate a solid foundation in the basic principles of optics, mathematics, and physics necessary to understand a broad range of optical systems.	H	H			M		
Graduates will be able to apply the optical engineering & engineering tools needed in an optical engineering career. These tools will allow them to design, build, and test systems that will incorporate optics as an enabling technology.		H	H		H		

Program Outcomes							
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Program Educational Objectives							
Graduates will be able to communicate effectively in oral, written, and graphical forms as needed in a multi-disciplinary team. Graduates will contribute to society by following ethical standards and engaging in public and professional service activities. They will be able to succeed through their understanding and appreciation of the impact of engineering practice on society, the economy, and the environment.				H		H	L
Graduates will exhibit strong skills in problem solving. Our graduates will demonstrate solid foundation in optical engineering fundamentals, experience in the design process, and in-depth experience in a chosen area which leads to success in their chosen careers.			H	M	H	M	