

# EXTREME ULTRAVIOLET AND OPTICAL SCIENCE AND TECHNOLOGY GRADUATE INTERDISCIPLINARY STUDIES PROGRAM

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Coordinated by a Faculty Advisory Board and the Department of Electrical and Computer Engineering (<https://www.engr.colostate.edu/ece/>) in the Walter Scott, Jr. College of Engineering (<https://www.engr.colostate.edu/>).

The Extreme Ultraviolet and Optical Science and Technology Graduate Interdisciplinary Studies program is designed to serve individuals who are seeking to gain knowledge and experience in the generation and applications of coherent extreme ultraviolet or soft x-ray light. This type of light holds great potential in applications in nanotechnology, nanoelectronics, photochemistry, material science, and biology. While, in the past, the use of coherent EUV light required a trip to a national facility, new developments in compact sources make it widely available. The objective of the program is to provide scientists or engineers many of the fundamentals required to generate or proficiently make use of this portion of the electromagnetic spectrum.

This interdisciplinary studies program is inherently interdisciplinary, including lasers, optical, plasma, material, chemical and biological sciences, and engineering. With its NSF Center for Extreme Ultraviolet Science and Technology (<https://euverc.colostate.edu/>), a partnership among four core institutions, CSU has unique expertise in this area.

The program is open to graduate students and professionals who hold a B.S. degree in engineering, physics, chemistry, biology, mathematics, or other scientific discipline.

The program requires a total of fifteen credits comprising six core credits and nine electives. The six core credits are two very fundamental courses any graduate student with a background in hard sciences and engineering could master. This, coupled with the fact that graduate students in any discipline are not held to undergraduate prerequisite courses, make this interdisciplinary studies program widely accessible. Elective credits are tailored to the candidate's interests from the major the student pursues. Within these, a course in another discipline outside the major of the candidate must be included.

Students interested in graduate work should refer to the Graduate and Professional Bulletin (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/>).