

ELECTRO-OPTICS

Minors:

- Electro-Optics (p. 1) and Photonics (p. 1)
- Semiconductor Manufacturing (p. 1)

Faculty

Andrew Sarangan, Department Chairperson

Minor in Electro-Optics and Photonics (EOP)

This minor is open to students with an interest in photonics technology, which includes a wide range of subjects such as optical design, imaging systems, holography, lasers, fiber optics, optoelectronics, etc.. This minor prepares students with the necessary fundamentals to pursue advanced studies or seek a career in this field. A background in electromagnetics and wave propagation is expected in order to take this minor.

Taking any four courses from the following list will satisfy the Minor in Electro-Optics and Photonics (EOP)

EOP 401	Introduction to Fiber Optics
EOP/ECE 404	Semiconductor Characterization and Metrology
EOP 501	Fundamentals of Optical Design
EOP 502	Light and Matter Interaction
EOP 503	Optical Information Processing
EOP 504	Guided-Wave Optics
EOP 505	Introduction to Lasers
EOP 506	Photonic Devices & Systems

Only one course may double count for both the student's major and minor.

Minor in Semiconductor Manufacturing (SMC)

This minor is open to all engineering students with an interest in semiconductor technology. It provides the essential background in semiconductor processes, including design, fabrication and metrology. The goal is to help prepare students to pursue a career in the semiconductor manufacturing industry. Students interested in this minor are encouraged to discuss the most appropriate classes to take for this minor with their department chair or the EOP department chair. Only one course may double count for both the student's major and minor.

Required:

ECE 205	Introduction to Semiconductor Engineering
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Select any three additional courses from the following list:

PHY 321	General Physics IV - Modern Physics
EOP/ECE 404	Semiconductor Characterization and Metrology
EOP/ECE 405	Semiconductor Device Fabrication Lab
PHY 420	Introduction to Solid State
ECE/EOP 406	Advanced Semiconductor Manufacturing

Only one course may double count for both the student's major and minor.