

COLLEGE OF CHEMISTRY COURSE GUIDE (../INDEX.HTML)

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EE 118 - INTRODUCTION TO OPTICAL ENGINEERING (3 UNITS)

(Taken from the UC Berkeley Course Guide (<http://guide.berkeley.edu>))

COURSE OVERVIEW

SUMMARY

Fundamental principles of optical systems. Geometrical optics and aberration theory. Stops and apertures, prisms, and mirrors. Diffraction and interference. Optical materials and coatings. Radiometry and photometry. Basic optical devices and the human eye. The design of optical systems. Lasers, fiber optics, and holography.

PREREQUISITES

EE 16A ([ee16a.html](#)) and EE 16B ([ee16b.html](#)) or MATH 54 ([math54.html](#)); MATH 53 ([math53.html](#))

WORKLOAD

TIME COMMITMENT

3 hours of lecture and 1 hour of discussion per week.

UC Berkeley Course Guide (<http://guide.berkeley.edu>)

COLLEGE OF CHEMISTRY PEER SERVICES

Made by Angela Lee, c/o 2019

