

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

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PHYS 110A - ELECTROMAGNETISM AND OPTICS (4 UNITS)

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

COURSE OVERVIEW

SUMMARY

Part I. A course emphasizing electromagnetic theory and applications; charges and currents; electric and magnetic fields; dielectric, conducting, and magnetic media; relativity, Maxwell equations. Wave propagation in media, radiation and scattering, Fourier optics, interference and diffraction, ray optics and applications.

PREREQUISITES

PHYS 7A ([phys7a.html](#)), PHYS 7B ([phys7b.html](#)), PHYS 7C ([phys7c.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

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lang=en) students/peer-

advising