

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

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NUCE 162 - RADIATION BIOPHYSICS AND DOSIMETRY (3 UNITS)

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

COURSE OVERVIEW

SUMMARY

Interaction of radiation with matter; physical, chemical, and biological effects of radiation on human tissues; dosimetry units and measurements; internal and external radiation fields and dosimetry; radiation exposure regulations; sources of radiation and radioactivity; basic shielding concepts; elements of radiation protection and control; theories and models for cell survival, radiation sensitivity, carcinogenesis, and dose calculation.

PREREQUISITES

Upper division standing or consent of instructor

Spring only

WORKLOAD

TIME COMMITMENT

3 hours of lecture per week.

COLLEGE OF CHEMISTRY PEER SERVICES

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