

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

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NUCE 104 - RADIATION DETECTION AND NUCLEAR INSTRUMENTATION LABORATORY (4 UNITS)

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

COURSE OVERVIEW

SUMMARY

Basic science of radiation measurement, nuclear instrumentation, neutronics, radiation dosimetry. The lectures emphasize the principles of radiation detection. The weekly laboratory applies a variety of radiation detection systems to the practical measurements of interest for nuclear power, nuclear and non-nuclear science, and environmental applications. Students present goals and approaches of the experiments being performed.

PREREQUISITES

NUCE 150 ([nuce101.html](#)>NUCE 101 or equivalent or consent of instructor;<a href=) or equivalent recommended

Spring only

WORKLOAD

TIME COMMITMENT

2 hours of lecture and 4 hours of laboratory per week.

