

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

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## BIOE 114 - CELL ENGINEERING (4 UNITS)

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

### COURSE OVERVIEW

#### SUMMARY

This course will teach the main concepts and current views on key attributes of animal cells (somatic, embryonic, pluripotent, germ-line; with the focus on mammalian cells), will introduce theory of the regulation of cell function, methods for deliberate control of cell properties and resulting biomedical and bioengineering technologies.

#### PREREQUISITES

Bio1A or Bio Eng 11; or consent of instructor

Fall only

#### TOPICS COVERED

The goal of this course to establish fundamental understanding of cell engineering technologies and of the key biological paradigms, upon which cell engineering is based, with the focus on biomedical applications of cell engineering.

At the completion of this course students will understand how bioengineering technologies address the deliberate control of cell properties (and how this advances biomedicine); and students will learn the main concepts and current views on key

attributes of animal cells (somatic, embryonic, pluripotent, germ-line; with the focus on mammalian cells).

## WORKLOAD

### TIME COMMITMENT

3 hours of lecture and 2 hours of discussion per week.

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

## COLLEGE OF CHEMISTRY PEER SERVICES

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