BIOE 163 - PRINCIPLES OF MOLECULAR AND CELLULAR BIOPHOTONICS (4 UNITS)

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

COURSE OVERVIEW

SUMMARY

This course provides undergraduate and graduate bioengineering students with an opportunity to increase their knowledge of topics in the emerging field of biophotonics with an emphasis on fluorescence spectroscopy, biosensors and devices for optical imaging and detection of biomolecules. This course will cover the photophysics and photochemistry of organic molecules, the design and characterization of biosensors and their applications within diverse environments.

PREREQUISITES

BIOE 102 (bioe102.html) or consent of instructor, CHEM 3A (chem3a.html), and PHYS 7B (phys7b.html)

TOPICS COVERED

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

(https://www.facebook.com/ch... (https://twitter.com/... (https://chemistry.berkeley.edu/ugrad/curr... lang=en) students/peer-advising