

New Course Offering, Fall 2004

# Engineering 193 *Biophotonics*

*Biophotonics*, the 'marriage' between photonics and biology, is an emerging interdisciplinary frontier that deals with interactions between light and biological matter. Through the integration of four principle technologies, lasers, photonics, nanotechnology, and biotechnology, biophotonics offers immense hope for the early detection and treatment of diseases and for new modalities of light guided and light activated therapies. The course will begin with an introduction to the biology and photonics interface, followed by topical discussions on photobiology, biosensors, bioimaging techniques, light activated therapy, microarray technology, tissue engineering with light, and bionanophotonics.

**Prerequisites:** *Course designed for students with science and engineering backgrounds. Course will be well-balanced and equally attractive to engineering, physics, chemistry and biology students. Both advanced undergraduates and graduate students welcome.*

Schedule Meeting Time:  
Tuesday/Thursday  
1 Hour (10:30 – 11:50)

For More Information Contact:  
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