BIOSCIENCE IN THE 21ST CENTURY:

COURSE HIGHLIGHTS AND PROSPECTS
Welcome and Introductions

What is this course about?

Course highlights and requirements

Course website: [www.lehigh.edu/~inbios21](http://www.lehigh.edu/~inbios21)
(for lecture videos, syllabus, schedule)

Coursesite: [http://coursesite.lehigh.edu/](http://coursesite.lehigh.edu/)
(for course assignments, study guides, resources)
Bioscience PLAYBILL: BioS 10 and BioS 90 Instructors

Departments and Programs represented:
Biological Sciences, Bioengineering, Chemical Engineering, Civil & Environmental Engineering, Chemistry, Computer Science & Engineering, Materials Science & Engineering, Electrical Engineering

Upcoming Faculty Guests:

Davis       Simon          Rice            Haas            Nyby            Wynne            Zhou
BIOSCIENCE IN THE 21ST CENTURY

- What biologically-relevant problems confront society?
- What are the strategies for studying these problems?
- What are the prospects for solutions to these problems?
MULTIDISCIPLINARY APPROACHES

Bioscience in the 21st Century
Topics for consideration:

• Neurophysiological processes
• Cancer and novel treatment strategies
• Genomics, Proteomics and bioinformatics
• Stem cell biology and disease treatment prospects
• Advances in engineered biosystems, biodevices, and bioimaging
• Social/Ethical issues in bioscience
• Microbiology & Infectious diseases
• Human physiology
• Environmental health

http://www.dep.state.pa.us

spie.org
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