

Bioscience in the 21st Century

www.lehigh.edu/~inbios21

COURSE GOALS AND EXPECTATIONS

Welcome and Introductions

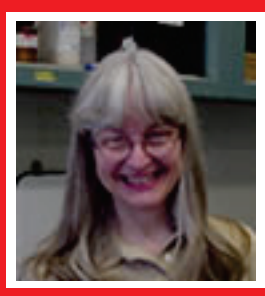
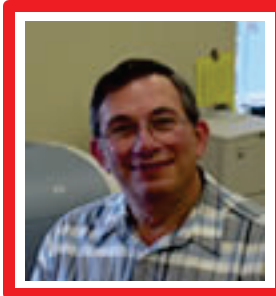
What is this course about?

Course highlights and requirements

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

Coursesite: <http://coursesite.lehigh.edu/>
(for course assignments, study guides, resources)

Bioscience PLAYBILL: Participating Lehigh Faculty and Staff



Departments and Programs represented:

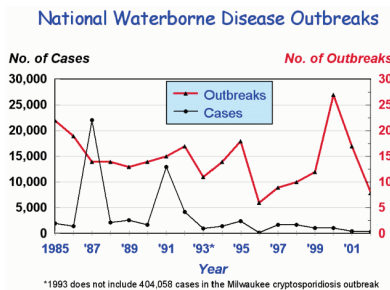
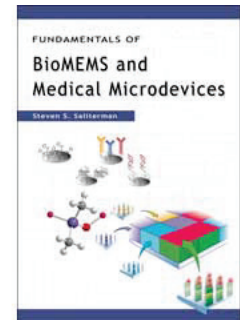
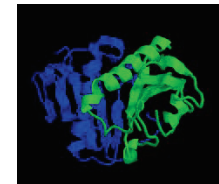
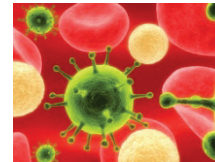
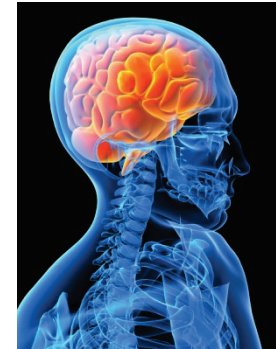
Biological Sciences, Bioengineering, Chemical Engineering, Civil & Environmental Engineering, Chemistry, Computer Science & Engineering, Materials Science & Engineering

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?

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
- Sexual Differentiation and Sexual Selection
- Ethical issues in biomedicine
- Infectious diseases
- Human physiology
- Environmental biotechnology and health



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

spie.org

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Course Schedule

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Syllabus and Course Requirements

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