

# **Bioscience in the 21<sup>st</sup> Century**

[www.lehigh.edu/~inbios21](http://www.lehigh.edu/~inbios21)

# COURSE GOALS AND EXPECTATIONS

Welcome and Introductions

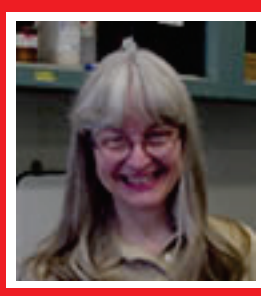
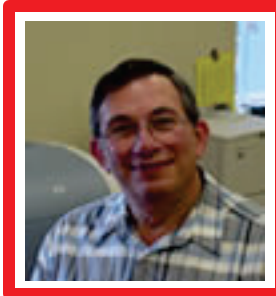
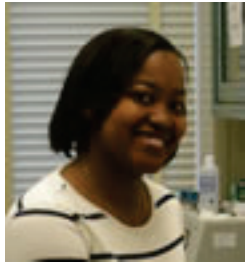
What is this course about?

Course highlights and requirements

Course website: [www.lehigh.edu/~inbios21](http://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:

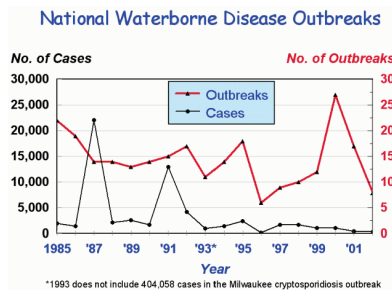
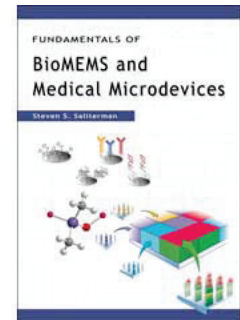
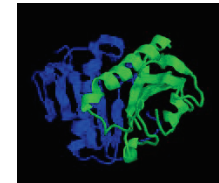
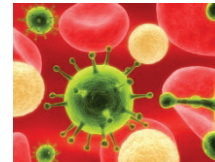
*Biological Sciences, Bioengineering, Chemical Engineering, Civil & Environmental Engineering, Chemistry, Computer Science & Engineering, Materials Science & Engineering*

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- 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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