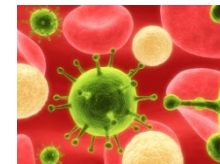




# BIOSCIENCE IN THE 21<sup>ST</sup> CENTURY:

## COURSE HIGHLIGHTS AND PROSPECTS



# Bioscience PLAYBILL: BioS 10 and BioS 90 Instructors



**Ware**



**Swann**



**Kuchka**

## Lehigh University Departments and Programs represented:

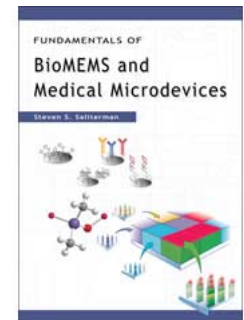
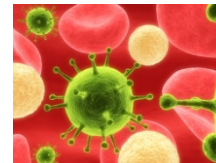
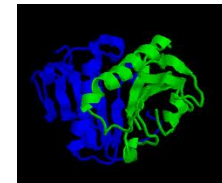
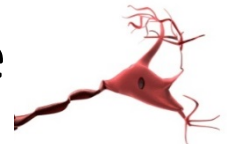
*Biological Sciences, Bioengineering, Chemical and Biomolecular Engineering, Computer Science & Engineering, Materials Science & Engineering, Electrical & Computer Engineering, Mathematics, Chemistry*

# BIOSCIENCE IN THE 21<sup>ST</sup> 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:

- **Social/Ethical issues in bioscience**
- Cancer and novel treatment strategies
- Neurophysiological Processes
- Physiological Basis of Disease and Treatment strategies, including Stem cell biology and disease treatment prospects
- Advances in engineered biosystems , biodevices, and bioimaging
- Genomics, Proteomics, and Bioinformatics
- Microbiology & Infectious diseases



# 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, powerpoint slides,  
syllabus, schedule)

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

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

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