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Covers infectious disease biology using examples of different pathogens and exploring the concepts of their biology and the implication of these principles on pathology, epidemiology and sociology of infectious diseases.						
Adaptive immune response includir	na its com	ponents and activation from cells to molecules, donal select	ion. antigen recognit	ion, and discrimination between foreign and self. Concepts applied on the level of intact		
organisms addressing allergies, aut	oimmuni	y, transplantation, tumors and disease.	,			
Modern molecular biological techn	iques ind	uding protein and nucleic acid gel electrophoresis, western bl	lotting, cell fractiona	tion, cellular respiration, enzymology and fluorescence microscopy. Lectures will be		
supplemented with reading from the	ne primary	/literature. Student projects in this course may satisfy the ca	pstone project requi	rements of the biological science degree.		
Biology of host-associated microbiomes with an emphasis on the human microbiome. Investigate microbial impacts on the behavior, physiology and fitness of their host. Explore model and non-model systems. Student						
projects in this course may satisfy t	he capsto	ne project requirements of the biological science degree.				
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This course is an introduction to me	etabolism	at the molecular level and covers the molecular structures a	nd classification of th	he three major macromolecules: carbohydrates, lipids and proteins. Individual metabolic		
pathways and regulation will be studied, as well as the big picture and how all the pathways are tied together.						
Algebra-based introduction to class	sical physi	cs, including: kinematics, Newton's laws, momentum, work,	energy, gravity, rota	tional motion, fluids, heat, temperature, laws of thermodynamics. The laboratory part is		
integrated in the course.						
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Calculus-based introduction to class	sical med	nanics, including: kinematics, Newton's laws, momentum, wo	ork. energy, gravity, r	otational motion, oscillations, and fluids. The laboratory part is integrated into the course.		
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Introduction to concepts and applic	ations of	elementary statistical methods. Tonics include sampling and	data analysis descri	ntive statistics, elementary probability, probability and sampling distributions, confidence		
intervals by pothesis testing correl	ation and	elementary statistical methods. Topics include sampling and	uata anarysis, uesun	prive statistics, elementary probability, probability and sampling distributions, control to		
intervals, hypothesis testing, whe	ation, and					
A calculus based course omebasizi	a applica	tions. Tonics include probability, joint and conditional probab	hility expectation an	d variance, parameter estimation (method of memorie and maximum likelihood), one and two		
A calculus-based coul se emphasizi	iy applica	nions. Topics include probability, joint and conditional proba-	onity, expectation an	a variance, parameter estimation (method of moments and maximum fixelihood), one and two		
sample hypothesis tests, simple line	ear regres	sion and one-way analysis of variance.				
Intensive preparatory work in the c	ollege wr	ting skills needed for WRTG F111X, including research, writir	ng, revising and critic	al reading skills. Special fees apply.		
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An introduction to writing strategie	s and pro	cesses for reading and responding to rhetorical situations ac	ross a variet v of publ	lic and academic contexts.		
An introduction to what writing is and does and how people learn to do it in the social and natural sciences, with a focus on the disciplinary questions, methods and reasoning that shape the genres and writing practices in						
the field.						