

Introduction to Biology

Global Program on Economics and Finance (2021 Fall)

Course Title	Introduction to Biology			
Credit	3	Credit Hours	48 credit hours	
Course Objectives	This course will introduce students to key concepts in modern biology, including breakthrough research advances in biochemistry, cell biology, genetics, developmental biology, physiology and ecology. Lectures will highlight basic knowledge of biological processes that form the basis of animal behavior, plant physiology and human diseases.			
Course Description	For instance, what processes leading questions about the living work are the central activities of biole can be ambitious. They may a how the human mind works, or Many interesting questions prosurrounded by the natural work biologist. More than anything the nature of life. The living we sense of this diversity and comp	ed to the original and seeking the scient sk how a sing who how the differobably occurred. When they else, biology orld is wondroplexity?	life on Earth, many mysteries remain. In of flowering among plants? Posing answers through scientific inquiry tific study of life. Biologists' questions le tiny cell becomes a tree or a dog, when the second in th	
Course Requirements: Prerequisites: pass high school graduation qualification test (biology)				
Teaching Methods: Lecture				
Course Schedule				
EACH WEEK, TUESDAY, 9:00-12:30				
9/14/2021 Th 9/21/2021 Bro	e origin of life, biomacromolecules e structure of a cell eak, Mid-Autumn Festival ell cycle and cellular communication			



10/5/2021	Break, National Day of the PRC
10/12/2021	Energy metabolism
10/19/2021	Classical genetics
10/26/2021	Molecular genetics
11/2/2021	Genetic engineering
11/9/2021	Plant kingdom
11/16/2021	Animal kingdom
11/23/2021	Immunology and neuroscience
11/30/2021	Ecosystem
12/7/2021	Final exam and learning reflection
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The design of class discussion or exercise, practice, experience and so on:

At the start of the semester, students will be randomly grouped, preferably 3 or 4 students per group. In the class, after the instructor outlines a question, students will be given time to discuss and present their answers on whiteboards. Then, the instructor will comment on the answers before continuing to lecture. On average, every 20-minute lecturing will be followed by a 5-minute group discussion.

Grading & Evaluation:

3 Homework, each 100 points

Final exam, closed book and no notes or other reference can be used (December 7), 200 points

Total points: 500

Teaching Materials & References:

Select chapters in Campbell Biology 10th edition (2013)