

Modern Biology

Registration Code	0053521	Credits	2.0
Course Category	Sciences Liberal		
Term (Semester) / Day / Period	G-II (1st year, Spring Semester) / Wed. / 5 (16:30~18:00)		
Instructor	BUSTOS Itzel		
Target Schools (Programs)	Hu (J)·La (S)·Ec (S)·Sc (P·C·B)·En (P·C·Au)·Ag (B)		

●Objectives of the Course

The purpose of this course is to learn the philosophy, principles, and techniques of modern biology. This course is particularly designed for those who have not learned biology previously or whose major is other than biology, and who may think that they do not need to know any biology at all. The topics are covered in a rather general, overview manner, but certain level of diligence in grasping concepts and memorizing the terminology is expected.

●Course Prerequisites

Your name should be listed in this course in order to attend the class. If you want to attend only a specific lecture, please make request a week in advance.

●Course Contents

1. Ch. 1. Introduction to Life on Earth // Ch. 2. Essential Chemistry
2. Ch. 3. The Molecules of Life // Ch. 4. A Tour of the Cell
3. Ch. 5. The Working Cell // Ch. 6. Cellular Respiration
4. Ch. 7. Photosynthesis // Ch. 8. Cellular Reproduction
5. Exam 1
6. Ch. 9. Patterns of Inheritance
7. Ch. 10. The Structure and Function of DNA // Ch. 11. How Genes Are Controlled
8. Ch. 12. DNA Technology // Ch. 13. How Populations Evolve
9. Ch. 14. How Biological Diversity Evolves // Ch. 15. The Evolution of Microbial Life
10. Ch. 16. Plants, Fungi, and the Move onto Land // Ch. 17. The Evolution of Animals
11. Exam 2
12. Ch. 18. An Introduction to Ecology and the Biosphere
13. Ch. 19. Population Ecology // Ch. 20—Communities and Ecosystems
14. Ch. 21. Unifying Concepts of Animal Structure and Function
15. Final Exam

●Evaluation Methods

Two exams
Activity during classes
Final exam

●Notice for Students

It is essential to assist each exam during the scheduled class time. There will be NO make-up exam. In the event of a missed exam due to a serious illness, accident or family emergency, compelling written documentation of the reason for the absence will be required.

●Message from instructor

Withdrawal Date: May 9, 2019, 18:00

IMPORTANT: Students wishing to withdraw from the course without academic penalty must do so by submitting the Withdrawal Form to the Instructor before the date and time indicated above. That is the only way to receive an “Absent” grade, which does not count in GPA. After the date above, students may not withdraw from the course: a numeric grade will be calculated according to the evaluation method given in this syllabus, and the resulting letter grade will be reported to the Administration at the end of the course. This grade will count in GPA.

Textbook	Campbell Essential Biology, 6th Edition, by Simon, Reece, and Dickey (Pearson Education, 2016).
Reference Book	None.