

<b>Modern Biology</b>			
<b>Registration Code</b>	0053521	<b>Credits</b>	2.0
<b>Course Category</b>	Sciences Liberal		
<b>Term (Semester) / Day / Period</b>	G-II (1st year, Spring Semester) / Wed. / 5 (16:30~18:00)		
<b>Instructor</b>	BUSTOS Itzel		
<b>Target Schools (Programs)</b>	Hu (J)·La (S)·Ec (S)·Sc (P·C·B)·En (P·C·Au)·Ag (B)		
<p><b>●Objectives of the Course</b>            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.</p> <p><b>●Course Prerequisites</b>            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.</p> <p><b>●Course Contents</b>            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  <u>5. Exam 1</u>            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  <u>11. Exam 2</u>            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  <u>15. Final Exam</u></p> <p><b>●Evaluation Methods</b>            Two exams            Activity during classes            Final exam</p> <p><b>●Notice for Students</b>            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.</p> <p><b>●Message from instructor</b>            Withdrawal Date: May 9, 2019, 18:00</p> <p>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.</p>			

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