

| <b>Modern Biology</b>   |  |                |     |
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| <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 VILLALOBOS Itzel                                  |                |     |
| <b>Target Schools (Programs)</b>  | Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(P·C·Au)·Ag(B)             |                |     |
| <p><b>•Goals and Objectives of the Course</b></p> <p>The purpose of this course is to learn the philosophy, principles, and techniques of modern biology. This course is particularly designed for those <b>who have not learned biology previously</b> 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. Its content is very basic for students on science.</p> <p>Students are expected to be able to understand the generalities of biology as well as being able to do presentations during classes as it will be instructed on the the first class as part of the “activities during class”</p>   |  |                |     |
| <p><b>•Course Prerequisites</b></p> <p>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. No companions/ partners of students will be allowed during class if not listed.</p>  |  |                |     |
| <p><b>•Course Contents/Plan</b></p> <ol style="list-style-type: none"> <li>1. Ch. 1. Introduction to Life on Earth</li> <li>2. Ch. 2. Essential Chemistry// Ch. 3. The Molecules of Life</li> <li>3. Ch. 4. A Tour of the Cell // Ch. 5. The Working Cell</li> <li>4. Ch. 6. Cellular Respiration // Ch. 7. Photosynthesis</li> <li>5. <u>Exam 1</u></li> <li>6. Ch. 8. Cellular Reproduction // Ch. 9. Patterns of Inheritance</li> <li>7. Ch. 10. The Structure and Function of DNA // Ch. 11. How Genes Are Controlled</li> <li>8. Ch. 12. DNA Technology // Ch. 13. How Populations Evolve</li> <li>9. Ch. 14. How Biological Diversity Evolves // Ch. 15. The Evolution of Microbial Life</li> <li>10. Ch. 16. Plants, Fungi, and the Move onto Land // Ch. 17. The Evolution of Animals</li> <li>11. <u>Exam 2</u></li> <li>12. Ch. 18. An Introduction to Ecology and the Biosphere</li> <li>13. Ch. 19. Population Ecology // Ch. 20 Communities and Ecosystems</li> <li>14. Ch. 21. Unifying Concepts of Animal Structure and Function</li> <li>15. <u>Final Exam</u></li> </ol> |  |                |     |
| <p><b>•Course Evaluation Methods</b></p> <p>Two exams<br/>Activity/ presentations during classes<br/>Final exam</p>   |  |                |     |

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| <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. |  |
| <b>Textbook</b>  | Campbell Essential Biology, 6th Edition, by Simon, Reece, and Dickey (Pearson Education, 2016). ISBN-13: 978-0133917789, ISBN-10: 9780133917789  |
| <b>Reference Book</b>  | Campbell Biology, 11 <sup>th</sup> edition by Lisa A. Urry, Michael L Cain. ISBN-13: 978-0134093413, ISBN-10: 0134093410   |
| <b>Reference website</b>   |  |
| <b>Message</b>   | <p>Withdrawal Date: May 11, 2020, 18:00</p> <p><b>IMPORTANT:</b> 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> |