Biology for Non-Science Majors I
BIOL 1409-61400
Semester: Fall 2019
August 26, 2019 through December 12, 2019
Online

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Office Hours: MTWR 9:00-9:30 a.m. and MW 1:00 p.m. - 2:30 p.m. and TR 2:00-3:00 pm or by appointment
Meeting Days & Time: Online: Available Monday through Sunday 9:00am-7:00pm
Credit Hours: 4

Division: Science, Technology, Engineering and Mathematics
Office Hours: 8:00AM – 5:00PM M-F
Office Phone: 214-860-8649
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Student Learning Outcomes: (Texas Higher Education Coordinating Board)
BIOL 1409 Biology for Non-Science Majors II (lecture + lab)
Presentation of biological concepts for the non-science major. This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Laboratory activities will reinforce these concepts. (3 Lec., 3 Lab.)

Course Pre-requisites: College Level Reading and Writing

Course Materials/Supplies Needed:
- Openstax Concepts of Biology, Download Free https://openstax.org/details/books/concepts-biology
- ISBN 978-1-938168-11-6
- LateNite Labs BIOL1409-67430 2019; Login: TBA and the cost is $64.00 if purchased direct
- Need technical help for labs – Call help at Macmillian 800-936-6899
- bfw.technicalsupport@macmillan.com
- For Exams Download and Install Respondus Lockdown Browser from My DCCCD eCampus > Tools

Technical Requirements:
A basic level of technical competence and equipment are necessary for participating in this online class. You should already be able to perform the following tasks:
- Attach document files to e-mail.
- Complete assignments using word processing software.
- Locate, save, and retrieve files on the computer.
- Send/receive email.
- Submit comments to a discussion board.
- Use a web browser and search engines.
- Digital camera or Smart Phone for submitting pictures

You MUST have regular, reliable access to a computer with reliable access to software and Internet resources and memory available (access to only a mobile device is NOT enough to succeed in this class):

Student Learning Outcomes (lecture):
Upon successful completion of this course, students will:
1. Describe modern evolutionary synthesis, natural selection, population genetics, micro and macroevolution, and speciation.
2. Describe phylogenetic relationships and classification schemes.
3. Identify the major phyla of life with an emphasis on plants and animals, including the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance.
4. Describe basic animal physiology and homeostasis as maintained by organ systems.
5. Compare different sexual and asexual life cycles noting their adaptive advantages.
6. Illustrate the relationship between major geologic change, extinctions, and evolutionary trends.

Student Learning Outcomes (lab):
Upon successful completion of this course, students will:
1. Apply scientific reasoning to investigate questions and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.
2. Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.
3. Communicate effectively the results of scientific investigations.
4. Define modern evolutionary synthesis, natural selection, population genetics, micro and macroevolution, and speciation.
5. Describe phylogenetic relationships and classification schemes.
6. Identify the major phyla of life with an emphasis on plants and animals, including the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance.
7. Describe basic animal physiology and homeostasis as maintained by organ systems.
8. Compare different sexual and asexual life cycles noting their adaptive advantages.
9. Illustrate the relationship between major geologic change, extinctions, and evolutionary trends.

Texas Core Objectives for Student Learning:
- Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- Communication Skills - to include effective development, interpretation and expression of ideas through written, oral and visual communication
- Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
- Teamwork – to include the ability to consider different points of view and work effectively with others to support a shared purpose or goal

Census Date is September 9, 2019 – you must have completed Introduction Discussion, Orientation Lecture and Quiz, Introduction to Virtual Biology Labs on MacMillan Web site in order to have your attendance confirmed.

Evaluation Procedures: Most are due by 11:00 pm on due date – No skipping assignments – must work in order
- Lecture Exams - (4) 41% of Final Grade – May take Twice
- Lab Work/Quizzes 44% of Final Grade - May take Once (must fully complete lab, notes and procedures)
- Lecture Quizzes 5% of Final Grade – May take Twice
- Research Paper/Teamwork 6% of Final Grade
- Discussion 1,2 3% of Final Grade - Must also comment on 3 others – See Rubric

Grading Scale:
- A = (90% and up)
- B = (80% and up)
- C = (70% and up)
- D = (60% and up)
- F ≤ (0-59%)

**You must follow the course calendar in order of completion of assignments. Read>Lecture>Lec Quiz>Lab>Lab Report and then Exam if all assignments are completed prior to beginning Exam. Skipping around on assignments is not permitted and may result in a zero for that assignment and assignments you jumped ahead if completed out of order. High Point Penalties will be taken off if late work is accepted. You may work ahead.

Labs – you must write complete notes on all labs. Missing or incomplete notes are -20 points minimum. Missing or incomplete slides/pictures when instructed are -20 points minimum. Take your time on the labs and save your notes and slides.
**Instructor Attendance Policy:** Students are expected to login and utilize the course materials and activities in and on a regular basis. As a minimum expectation, you should login to the course at least five times per week. As a general guideline, you should be actively learning through working with the online LESSON materials for about 5-6 hours per week for 8 weeks (the same as attending class) and dedicate at least the same amount of additional time to studying and reviewing the lesson materials either offline or online. You should also be actively working with the online LAB materials and completing experiments about 6 hours per week for 8 weeks. Students must begin online attendance in all classes of enrollment. No exceptions. Financial Aid will not be granted to students who have been certified as not attending by not logging in and completing work, by the certification date. For this lecture course, your online participation in class, on or before the certification date will allow you to receive credit for FA purposes.

**Emails:** The instructor will reply to all emails sent in the proper format within 24 hours on weekdays, so double check your format and re-send your email if you do NOT hear back from the instructor within this time frame. Do NOT assume that an unanswered email was received – ALWAYS RESEND if you do not receive a reply in 24 hours on weekdays.

**Late Work Policy:** Work must be completed on or before due date per course calendar. You must contact Instructor regarding missed work within 24 hours. Late work if accepted may have a 30% percent of the points taken off from the score. Online Late Work – Extending past the timed quizzes or exams if accepted may result in a 20% penalty or forced submission at the time due.

**You must follow the course calendar in order of completion of assignments and FULLY COMPLETE LABS with notes, procedures, etc. Read>Lecture>Lec Quiz>Lab>Lab Report and then Exam if all assignments are completed prior to beginning Exam. Skipping around on assignments is not permitted and may result in a zero for that assignment and assignments afterward or a penalty. You may work ahead.**

**Makeup Exam Policy:** In the event of a missed exam, the instructor must be notified within 24 hours of the scheduled exam and documentation will be required for absence.

**eConnect:** Your final grade will be posted to eConnect and the course will be made unavailable.

**Disclaimer:**
Instructor reserves the right to change course calendar and syllabus if needed.

**Withdraw date:** November 14, 2019
- Please speak with the instructor if you are having difficulty in the course.
- Students often drop courses when help is available that would enable them to continue. I hope you will discuss your plans with your instructor if you feel the need to withdraw.

**Academic Dishonesty:**
Students caught plagiarizing an assignment will receive a “0” on the test or assignment and will be subject to an “F” in the course and possible expulsion from the college. Students must work on exams alone and all work should be the individual student’s work. Each Person must complete their own Labs, Lab Quiz, Short Answer and Exams.

**Mountain View College Institutional Policies:**

Institutional Policies:

Filing a Student Complaint:

Online Tutoring:
https://www.mountainviewcollege.edu/services/academic-support/tutoring/pages/default.aspx

Disclaimer Reserving Right to Change Syllabus:
The instructor reserves the right to amend this syllabus as necessary.