Biology for Non-Science Majors I
BIOL 1409.62430
Semester: Wintermester 2017
December 11, 2017 – January 5, 2018
Online

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Office Hours: 9:00 am – 9:00 pm Online or by appointment
Meeting Days & Time: Online - 24 hours
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Credit Hours: 4

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Biology for Non-Science Majors II
This is a Texas Common Course Number. This is a Core Curriculum course selected by the colleges of DCCCD.
Prerequisite Required: College level ready in Reading and Writing.
Course Description: 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 Materials/Supplies Needed:
• Openstax Concepts of Biology, ebook Download Free http://openstaxcollege.org/textbooks/concepts-of-biology/get
• ISBN 978-1-938168-11-6
• LateNite Labs https://labs.latenitelabs.com Wintermester 2017; BIOL 1408-1409
• Section code: 46413701
• https://community.macmillan.com/docs/DOC-7292-late-nite-labs-how-do-i-pay-for-access-can-i-use-financial-aid-or-campus-cards
• Need technical help for labs - Call the helpdesk at Macmillian 800-936-6899
• btw.technicalsupport@macmillan.com

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

Evaluation Procedures: Most are due by 11:00 pm on due date
- Lecture Exams – (4) 45% of Final Grade
- Lab Reports (9) 30% of Final Grade
- Lectures, Quizzes 20% of Final Grade
- Orientation and Discussion Activities 5% of Final Grade

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 3 hours per week or in summer 12 hours per week for lecture and 12 for lab (the same as attending class) and 22.5 for Wintermester/Maymester 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 3-6 hours each week or as required. 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.
Grading Scale:
A = (90% and up)
B = (80% and up)
C = (70% and up)
D = (60% and up)
F ≤ (0-59%)

You will not receive curves if given, if you do not log in as required, are late turning in assignments or did not attempt exams twice or missing assignments, skip order of assignments or do not participate.

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.

Email Etiquette: When sending an email message to an instructor there are a few guidelines to follow:
1. Address the instructor as Mr., Ms., Mrs. or Professor. Students may NOT address the instructor by his/her first name.
2. Always include your name, course, and section number in the email.
3. Never use foul, vulgar, inappropriate, discriminatory, rude, or otherwise unprofessional language in the email.
4. Remember, the relationship between the student and the instructor is a professional relationship not a friendship; therefore, be sure not to include instructors in your forwarded emails to friends, chat rooms, or personal updates.

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. Skipping around on assignments is not permitted and may result in a zero for that assignment and assignments you worked ahead on. 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.

Institution Policies: Please visit https://www.mountainviewcollege.edu/au/fastfacts/legal/pages/policies-for-syllabi.aspx for a complete list of institutional policies (Stop Before You Drop; Withdrawal Policy; Repeating a Course; Financial Aid; Academic Honesty; Americans with Disabilities Act Statement; Religious Holidays; and Campus Emergency Operation Plan and Contingency Plan.).

Disclaimer Reserving Right to Change Syllabus:
The instructor reserves the right to amend this syllabus as necessary.
| Week 1 | Complete all orientation assignments - Discussion Activity 1 Go to Let’s Get Acquainted ~250 Online Lecture and Lab Presentation 1 – Orientation Quiz 1 12/11 Read Chapter 11 Online Lecture 2 Evolution Change and Mechanisms Lecture Quiz 2 – Change and Mechanisms LNL – Introduction online under labs.latenitelabs.com 12/11-12/12 Read Chapter 11 Online Lecture 3– Evidence and Speciation Lecture Quiz 3 – Evidence and Speciation Latenite labs Lab 2 Evolution – Multiple Choice Lab Report under latenitelabs.com 12/12-12/13 Read Chapter 12 Organizing Life on Earth Online Lecture 4 Classification – Lecture Quiz 4 Classification Discussion Activity 2 : Evolution Misconceptions – Pick 2 from page 273 to 275 and write 250 words 12/14-12/15 Read Ch 19 Ecology Population and Community Online Lecture 5 Demographics and Growth Online Lecture 6 Population and Community Lecture Lecture Quiz 5 – Ecology Latenite lab – Lab 3 Ecology – Multiple Choice Lab Report Exam 1 – Ch 1 through 12 Online 12/16-12/17 |
| Week 2 | Read Ch 13 Diversity of Microbes, Fungi and Protists Online Lecture 7 – Prokaryotes and Eukaryotes – Lec Quiz 6 Prokaryotes and Eukaryotes Latenite lab 4 – Protists - Multiple Choice Lab Report Latenite lab 5 – Bacteria – Multiple Choice Lab Report 12/18-12/19 Online lecture 8 Fungi Read Ch 13.4 Fungi Lecture Quiz 7 – Fungi Latenite lab 6 – Fungi – Multiple Choice Lab Report on eCampus 12/20-12/21 Read Ch 14 Plant Diversity Online Lecture 8- Seedless, Gymnosperm, Angiosperm – Lecture Quiz 8 Latenite lab 7 and 8 – Diversity of Plants– Multiple Choice Lab Report Exam 2 – Ch 19 and 13 Online 12/22-12/23 - LAST DAY TO WITHDRAW WITH A W 12/22/17 |
| Week 3 | HOLIDAY 12/24-12/25 Read Ch 15 – Diversity of Animals Online Lecture 10 – sponges, cniderains, mollusks, echinoderms, flatworms, annelids, roundworms Latenite lab 9 Earthworm– Multiple Choice Lab Report Online Lecture 11 - Arthropods Online Lecture 12 – Chordates and Vertebrates – Lecture Quiz 9 – Arthropods, Chordates and Vertebrates Lecture Quiz 9 - Diversity of Animals 12/26-12/27 Exam 3 – Ch 14-15 Online Read Ch 16 –pg 409-447 and Review Terms p 448-454 Online Lecture 13 – Digestive, Respiratory, Circulatory, Endocrine – Lecture Quiz 10 Online Lecture 14– Muscoskeletal and Nervous Lecture Quiz 11 Latenite lab 10-Mammalian tissues – Multiple Choice Lab Report 12/28-12/29 |
| Week 4 | Read Ch 17 The Immune System Watch Video Immune System Lecture Quiz 12 Exam 4 – Ch 16 and 17 online. You did it! 12/20-12/31 All work must be completed HOLIDAY 1/1/18 1/2/18 – Grades Turned In |