Biology for Non-Science Majors I
BIOL 1409.63430 and BIOL 1409-93430
Semester: Spring 2016
March 8, 2016 through May 8, 2016
Online

Lecture: Professor: Denise Shipley
Email: dshipley@dcccd.edu
Office Phone Number: 214-860-8795
Office Number: H122
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 24 hours
Credit Hours: 4

Division: Science, Arts and Physical Education
Office Hours: 8:00AM – 5:00PM M-F
Office Phone: 214-860-8649
Office Location: E40

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: One of the following must be met:
Developmental Reading 0093 AND Developmental Writing 0093;
English as a Second Language (ESOL) 0044 AND 0054; or have met Texas Success Initiative (TSI) Reading and Writing standards AND DCCCD Writing score prerequisite requirement.

Course Materials/Supplies Needed:
- Openstax Concepts of Biology, Download Free http://openstaxcollege.org/textbooks/concepts-of-biology/get
- ISBN 978-1-938168-11-6
- LateNite Labs https://labs.latenitelabs.com  BIOL1409-1408 Section Code 15477614
- 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

Evaluation Procedures: Most are due by 11:00 pm on due date
- Lecture Exams – (4) 43% of Final Grade
- Lab Reports (9) 22% of Final Grade
- Lectures, Quizzes 22% of Final Grade
- Orientation Discussion 1 and Discussion 2 3% of Final Grade
- Team Project 10% 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 four times per week. As a general guideline, you should be actively learning through working with the online LESSON materials for about 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.

Grading Scale:
- A = (90% and up)
- B = (80% and up)
- C = (70% and up)
- D = (60% and up)
You will not receive extra credit/curve if you do not log in as required, are late turning in assignments or missing 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.

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. 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. 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 http://www.mountainviewcollege.edu/Academics/Documents/Institutional%20Policies.pdf 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.
<table>
<thead>
<tr>
<th>Institutional Policies</th>
<th>Mountain View College Syllabi Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stop Before You Drop</strong></td>
<td>For students who enrolled in college level courses for the first time in the Fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career, unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. <strong>Withdraw Date 12/3/15</strong></td>
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<td><strong>6Drop</strong></td>
<td>Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a &quot;W.&quot; Therefore, please exercise caution when dropping courses in any Texas Public Institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: <a href="https://econnect.dcccd.edu/eConnect/droppingfacts.html">https://econnect.dcccd.edu/eConnect/droppingfacts.html</a></td>
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<td><strong>Withdraw Policy</strong></td>
<td>If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by the official drop date for this course (see Course Drop Date mentioned earlier in this syllabus). Failure to do so will result in your receiving a performance grade, usually an “F.” If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a “W” (Withdraw) in each class dropped.</td>
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<td><strong>Repeating a Course</strong></td>
<td>Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. This class may not be repeated for the third or subsequent time without paying the additional tuition. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 semester. More information is available at: <a href="http://www.dcccd.edu/pc/cost/3rdcrseattmpt/Pages/default.aspx">http://www.dcccd.edu/pc/cost/3rdcrseattmpt/Pages/default.aspx</a></td>
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<td><strong>Financial Aid</strong></td>
<td>Financial Aid will not be granted to students who have been certified as not attending by the certification date. In lecture classes, students must attend class prior to the certification date. Online students should follow the certification procedures as noted within the class syllabus. For certification dates, check with the division or FAO for further information. Students, who are not certified as beginning class, are responsible for any payments due as a result of non-certification, to include the dropping of courses. Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy. If you are receiving financial aid grants or loans, you must begin attendance in all classes. Do not drop or stop attending any class without consulting the Financial Aid Office. Changes in your enrollment level and failing grades may require that you repay financial aid funds.</td>
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<td><strong>Academic Dishonesty</strong></td>
<td><a href="https://www1.dcccd.edu/catalog/ss/code.cfm">https://www1.dcccd.edu/catalog/ss/code.cfm</a></td>
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<td><strong>ADA Statement</strong></td>
<td>Mountain View College and the Office of Special Services are committed to upholding the laws and the spirit of Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) signed in 1990.</td>
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<td><strong>Religious Holidays</strong></td>
<td>Absences for observance of a religious holy day are excused. A student whose absence is excused to observe a religious holy day is allowed to take a make-up examination or complete an assignment within a reasonable time after the absence.</td>
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<td><strong>Campus Emergency Operation Plan and Contingency Plan.</strong></td>
<td>Mountain View College has developed policies and procedures for dealing with emergencies that may occur on campus. A synopsis of emergency procedures can be found at: <a href="http://www.mountainviewcollege.edu/business/police/Pages/emergencyprocedureenglish.aspx">http://www.mountainviewcollege.edu/business/police/Pages/emergencyprocedureenglish.aspx</a> Contingency Plan: Mountain View College has developed an Instructional Contingency Plan for Temporary College Closing for On-Campus Courses. Please discuss this contingency plan with your instructor. For distance learning courses, your instructor will use email to contact students in the event of extended technology downtime. To assure work in the class continues, it is important for all students to have an accurate email address recorded in both eCampus and eConnect.</td>
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<td><strong>Disclaimer Reserving Right to Change Syllabus</strong></td>
<td>The instructor reserves the right to amend a syllabus as necessary.</td>
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<td>Week 1</td>
<td>Complete all orientation assignments - Discussion Activity 1 Go to Let's Get Acquainted ~250</td>
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<td>Online Lecture and Lab Presentation 1 – Orientation Quiz 1 03/08</td>
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<td>SPRING BREAK 3/14 – 3/18</td>
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<tr>
<td>Week 1</td>
<td>Read Chapter 11 page 255 – 264 Online Lecture 2 Evolution Change and Mechanisms Lecture Quiz 2 – Change and Mechanisms LNL – Introduction online under labs.latenitelabs.com 03/08-03/12</td>
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<td>Week 2</td>
<td>Holiday -3/25</td>
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<td>Week 3</td>
<td>Read Chapter 12 Organizing Life on Earth p 281-290 Online Lecture 4 Classification – Lecture Quiz 4 Classification Discussion Activity 2 : Evolution Misconceptions – Pick 2 from page 273 to 275 and write about 200 words 03/27-3/30</td>
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<tr>
<td>Week 3</td>
<td>Read Ch 19 Ecology Population and Community p 513-539 Online Lecture 5 Demographics and Growth 03/30-4/2</td>
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<td>Week 4</td>
<td>Online Lecture 6 Population and Community Lecture Lecture Quiz 5 – Ecology Latenite lab – Lab 3 Ecology – Lab Report Quiz on Latenitelabs Exam 1 – Ch 11 through 12 Online – Must use Respondous Lockdown 4/3 – 4/6</td>
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<td>Week 4</td>
<td>Read Ch 13 Diversity of Microbes, Fungi and Protists p 297-316 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 4/6-4/9</td>
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<td>Week 5</td>
<td>Online lecture 8 Fungi Read Ch 13.4 Fungi p 317-324 Lecture Quiz 7 – Fungi Latenite lab 6 – Fungi – Multiple Choice Lab Report 4/10-4/13 Group Project Due – Final Submission</td>
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<td>Week 5</td>
<td>Read Ch 15 Plant Diversity p 346-355 Online Lecture 8- Seedless, Gymnosperm, Angiosperm – Lecture Quiz 8 Latenite lab 7 – Diversity of Plants– Multiple Choice Lab Report Exam 2 – Ch 19 and 13 Online – Respondous Lockdown Browser 4/13-4/16</td>
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<td>Week 6</td>
<td>Read Ch 15 – Diversity of Animals Last day to Withdraw with a W 7/39 Online Lecture 10 – sponges, cniderains, mollusks, echinoderms, flatworms ,annelids, roundworms 4/17- 4/20</td>
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<tr>
<td>Week 6</td>
<td>Latenite lab 8 Earthworm– Multiple Choice Lab Report Online Lecture 11 - Arthropods 4/20-4/23</td>
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<td>Week 7</td>
<td>Online Lecture 12 – Chordates and Vertebrates – Lecture Quiz 9 – Arthropods, Chordates and Vertebrates Lecture Quiz 9 - Diversity of Animals 4/24-4/27</td>
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<td>Week 7</td>
<td>Exam 3 – Ch 14-15 Online Respondous Lockdown Browser Read Ch 16 –pg 409-447 and Review Terms p 448-454 Online Lecture 13 – Digestive, Respiratory, Circulatory, Endocrine – Lecture Quiz 10 4/27-4/30</td>
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<tr>
<td>Week 8</td>
<td>Online Lecture 14– Muscoskeletal and Nervous Lecture Quiz 11 Latenite lab 9 –Mammalian tissues – Multiple Choice Lab Report on eCampus 5/1 -5/4</td>
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<td>Week 8</td>
<td>Read Ch 17 The Immune System p – 482-485 Watch Video Immune System Lecture Quiz 12 5/5-5/7</td>
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<tr>
<td>Week 8</td>
<td>Exam 4 – Ch 16 and 17 Online Lockdown Browser You did it! 5/7 – 5/8</td>
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