Biology for Non-Science Majors II
BIOL 1409-66
Semester: Summer II 2016
July 10, 2017 – August 3, 2017

Professor: Bennett O’Connor
Email: boconnor@dccc.edu
Office Phone Number:
Office Number:
Office Hours: By appointment
Meeting Days & Time: Lecture: Online Lab: Monday – Thursday Time:
Room Number: Lab: H32
Credit Hours: 4 Semester Hours
Division: Science, Technology, Engineering, and Mathematics (STEM)
Division Office Hours: Monday – Friday: 8:00 a.m. – 5:00 p.m.
Division Office Phone: 214-860-8760 or 214-860-8649
Division Office Number: W147 or E40

Mission Statement:
Mountain View College empowers people and transforms communities.

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 Prerequisite Required: College level ready in Reading and Writing

Course Materials/Supplies Needed:
   Download free – https://openstax.org/details/concepts-biology
2. Labs to be printed from eCampus
3. Nitrile Gloves for selected labs (available in the College Bookstore)
4. Scantrons: Seven 882E
5. 3-Ring Binder with dividers for the labs printed from eCampus (2 inch binder recommended)
6. Pocket folder for chapter reviews
Core Objectives:
- **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 to work effectively with others to support a shared purpose or goal

Course Objectives:

Lecture Learning Outcomes
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 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.

Laboratory Learning Outcomes
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 classifications schemes.
6. Identify the major phyla of life with 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.

Course Outline:
Objectives, which are determined by the district curriculum committee, are measurable or observable and will be evaluated. Different modes of instruction will be utilized for presentation and evaluation. Lecture topics will include evolution, protists, plant diversity, fungi, animal diversity, animal systems, animal behavior, ecology, population ecology, and ecosystems. An emphasis will be placed on wellness throughout the semester. The Mountain View College nature trail will be used to reinforce topics taught in the lecture and lab.

Class Procedures: Successful completion of this course should be accomplished if you:
1. study and read the textbook,
2. attend each class and turn in all assignments on time,
3. attend all labs, and complete lab activities,
4. use the resources available on eCampus and from the textbook,
5. spend time studying with the STEM tutor as needed, and
6. write your name, course and section, student ID, date, and instructor name on all assignments.
Evaluation Procedures:

GRADING:

LECTURE EXAMS = 50% of the Final Grade
- 4 Lecture Exams worth 100 points each (multiple choice and short essay questions)
- 1 Comprehensive Final Exam worth 100 points (multiple choice questions)
- The lowest test score will be dropped only if all tests and the comprehensive final are taken.

CHAPTER REVIEWS = 10%
- Turn in completed reviews on eCampus using the Assignment Submission Button. The chapter reviews will be checked for plagiarism using Safeassign. Chapter reviews must be turned in by the deadline for full credit.

LABORATORY = 30% of the final grade
- 2 Lab Notebooks – 10% of the final grade
- 2 Lab Practicals - 20% of the final grade

PRESENTATION = 5% of final grade
- Dates will be posted in eCampus

CURRENT EVENTS = 5% of final grade
- You must be present in class to share your article.

Instructor Attendance Policy:
Students are expected to attend all classes. Students have the responsibility to attend class and to consult with the instructor when an absence occurs. If for some reason you must leave class early, you should inform the instructor prior to the start of class of your reason for leaving early.

On-time attendance is vital to your success in this course. Plan to arrive early. Attendance is taken at the beginning of class. You will be counted absent if you arrive late.

Students must begin attendance in all classes of enrollment. No exceptions. Financial Aid will not be granted to students who have been certified as not attending, by the certification date. For this lecture course, your physical participation in class, on or before the certification date will allow you to receive credit for FA purposes. 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.

Grading Scale - all assignments and final grade
A = 90-100
B = 80 – 89.9
C = 70 - 79 .9
D = 60 - 69 .9
F ≤ 59.9

GRADE POSTING: Grades are posted on eCampus.

Extra credit may be announced in class and on eCampus during the semester at the discretion of the instructor. Extra credit will not be available if you are late to class, turn in assignments late, miss assignments, do not participate, or have too many absences.

Late Work Policy:
- Work is due at the beginning of class on the due date! Small groups will discuss assignments on the due date. A deduction of 30 points will be made if you are not present for the entire discussion. Unexcused late work will not be accepted after the due date.
- Students must contact the instructor if they will miss class, lab, or the due date for an assignment within 24 hours.
- Documentation of an excused absence is required. Arrangements must be made with the instructor to make-up a lab, exam, or assignment

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.
**College Sponsored Events:**
Please contact your instructor if you will miss class for a college sponsored event.

**Electronic Devices:**
Students are expected to silence all cell phones and other electronic devices during class time and only use them for class purposes. Students may not text or receive texts during class.

**eCampus:**
Students are encouraged to use the resources available on eCampus regularly.
All assignments are posted under the Weekly Assignments button. Check this button every week.

- Go to the website: http://ecampus.dcccd.edu. Your login is an "e" and your seven-digit student identification number (example: e7654321). If you have never used eCampus before, your password is the same as your user name until you change it under personal information.
- Announcements will be posted.
- A variety of materials will be available to help you learn the required material.
- A copy of the syllabus will be available for reference.
- Labs will include the laboratory activities that must be printed before each lab.
- Weekly Assignments will include study guides and other lecture resources. Refer to this button each week to keep up with the course requirements.

**The withdraw date for this class is Friday, July 28, 2017.**

- Please speak with the instructor if you are having difficulty in the course.
- Biology tutors are available to help you learn the material for this course.

**Withdrawal Policy:**
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 **Friday, July 28, 2017**. 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.

**Academic Dishonesty**
Students caught cheating or plagiarizing an assignment will receive a “0” on the assignment or test and be subject to an “F” in the course and possible expulsion from the college.

*Academic honesty is expected, and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog. More information is available at [https://www1.dcccd.edu/catalog/ss/code.cfm](https://www1.dcccd.edu/catalog/ss/code.cfm).*

**Institution Policies:** Please visit [http://www.mountainviewcollege.edu/...](http://www.mountainviewcollege.edu/...) 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.). These policies are posted with the syllabus in eCampus.

**Disclaimer Reserving Right to Change Syllabus:** The instructor reserves the right to amend this syllabus as necessary. Any changes will be announced in lab and on eCampus.
<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
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<tbody>
<tr>
<td>7/10/17 Lab 1 Orientation</td>
<td>7/11/17 Lab 2 &amp; 3 Evolution Read Chapter 12 &amp; complete the review</td>
<td>7/12/17 Lab 4 Bacteria and Archaea Lab 5 Protists Read Chapter 13.1 – 13.3 &amp; complete the review</td>
<td>7/13/17 Lab 6 Fungi and Plant Reproduction Lab 7 Plants Current Event 2 Due Read Chapter 13.4 and 14 &amp; complete the review Test 1 Chapters 11 – 13.3 due in the Testing Center Deadline: Friday, 7/15/16 by 5:00 p.m. Chapter 13.1 – 13.3 Review Due</td>
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<td>Lab 2 Evolution Read Chapter 11 &amp; complete the review</td>
<td>Current Event 1 Due Chapter 11 Review Due</td>
<td>Chapter 12 Review Due</td>
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<td>7/17/17 Lab 8 and Lab 9 Animal Diversity Read Chapter 15 &amp; complete review</td>
<td>7/18/17 Lab Practical 1 (Labs 1-9) &amp; Lab Notebook Due Lab 10 Homeostasis Lab 11 Excretory System Read Chapter 16.1 &amp; complete review Current Event 3 Due Chapter 15 Review Due</td>
<td>7/19/17 Lab 12 Digestive System Lab 13 Human Nutrition Read Chapter 16.2 &amp; complete review Chapter 16.1 Review Due</td>
<td>7/20/17 Lab 14 Circulatory System Heart Video and Case Study Lab 15 Heart and Respiratory System Read Chapter 16.3 &amp; complete review Test 2 Chapters 13.4, 15, 16.1 – 16.2 in testing center – Deadline, Friday, 7/22/16 by 5:00 p.m. Chapter 16.2 Review Due</td>
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<td>Chapter 13.4 and 14 Review Due</td>
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<td>7/24/17 Lab 16 Endocrine system Lab 17 Musculoskeletal Systems Read Chapter 16.4 and 16.5 &amp; complete review</td>
<td>7/25/17 Lab Practical 2 (Labs 10-17) &amp; Lab Notebook Due Lab 18 Nervous System Lab 19 Special Senses Read Chapter 16.6 &amp; complete review Current Event 4 Due Chapter 16.4-16.5 Review Due</td>
<td>7/26/17 Lab 19 Special Senses continued Lab 20 Viruses and Immunity Read Chapter 17 &amp; complete review Chapter 16.6 Review Due</td>
<td>7/27/17 Video: Inside the Living Body Test 3 Chapters 16.3-16.6 and 17 in Testing Center Deadline: Friday. 7/29/16 by 5:00 pm Chapter 17 Review Due Last Day to Withdraw with a W is Friday, July 29, 2016</td>
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<td>Lab 17 Musculoskeletal Systems Read Chapter 16.4 and 16.5 &amp; complete review</td>
<td>Chapter 16.3 Review Due</td>
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<td>7/31/17 Lab 21 Population Ecology Lab 22 Animal Behavior Read Chapter 19 &amp; complete review</td>
<td>8/1/17 Lab 23 Nature Trail Lab 24 Ecology Read Chapters 20 and 21 &amp; complete the reviews Current Event 5 Chapter 19 Review Due</td>
<td>8/2/17 Lab Practical 3 (Labs 18-24) and Lab Notebook Due Test 4 Chapters 19-21 in Testing Center by 9:00 pm Chapter 20 &amp; 21 Reviews Due Final Exam Review</td>
<td>8/3/17 FINAL EXAM IN CLASS CHAPTERS 11-17, 19-21.</td>
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<td>Institutional Policies</td>
<td>Mountain View College Syllabi Information</td>
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<td><strong>Stop Before You Drop</strong></td>
<td><strong>6Drop</strong> 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. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W.” 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>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>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>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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