Syllabus
INET Biol 1409

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Last day to drop with a “W”:

Course Description

Biological Science 1409 is designed for students who are not majoring in science. Selected topics in biology are presented to students to promote their understanding of biological concepts and to enable them to use these concepts in their daily lives. Topics will include evolution, taxonomy, ecology, organs and organ systems.

Prerequisite - None.

Instructional materials needed for INET Biol 1409

1. **OpenStax Biology** ISBN 978-1-938168-09-3 The online version of the textbook is available free at [OpenStax CNX](http://cnx.org). You may print individual chapters free. You may also purchase hard copy in the book at the college bookstore.

2. **Lab-Internet Access Code** – Totally Online Biology II by Shelp ISBN 978-0-996-5286-2-7. You can purchase the access code directly at [www.biolabmanual.com](http://www.biolabmanual.com) or purchase a card in the college bookstore that will enable you to gain access to the totally online labs.

The above instructional materials may be purchased online at [www.biolabmanual.com](http://www.biolabmanual.com) or in the College Bookstore [www.follet.com](http://www.follet.com).

Introduction

The world today is dominated by science and technology. Students majoring in fields other than science will need a science background to function effectively in most jobs today. Students majoring in business may find themselves in accounting, marketing, or sales for a company which produces high-tech products in the area of defense, electronics, food production, and genetic engineering. Regardless of your vocational endeavor, your life is affected by science.

Responsible citizenship today requires informed decisions related to such topics as radiation, toxic waste, safe housing, transportation, genetically modified foods, and health. These decisions require a background in science. The instructor will present the concepts of biology in a context that will help you effectively read science related articles online or in daily newspapers and periodicals such as *Time*, *Newsweek*, *Discovery*, and *National Geographic*. 
Procedure

The method of teaching employed in Biol 1409 approaches the learning process from the point of view that learning is something done by you the student, not something done to you. The student is responsible for his/her own learning. The instructor will facilitate the investigative learning process by assigned readings, chats, discussion boards, reviews, practice quizzes, test, etc. This course is not self-paced. The content of the course will follow the schedule with specific deadlines for each activity. The MAJOR contributing factor to student failure in this class is procrastination.

Text Assignments
The text assignments consist of selecting OpenStax or other Internet sources which will prepare the student to take a lecture quiz for each lesson.

Laboratory
The laboratory activities will provide you with the opportunity to participate in the scientific process by using an Internet Access Code. Read each laboratory assignment carefully as you work through the online lab. Complete a Lab Report using the templates found at www.biolabmanual.com. Submit the Lab Report via email attachment to your instructor. Submit early enough to allow 24 hours for grading and time for you to take the quiz. Your instructor will evaluate the lab and, if satisfactory, provide a password so you can compare your answers to the Answer Keys also available at www.biolabmanual.com. When you are sure you understand the concepts of that lab you will take a ten point multiple choice quiz online located in your Blackboard course.

Lecture Quizzes
A 15 question multiple choice quiz will be taken at the end of each lesson. You will take a comprehensive final exam at the end of the semester. Please see the semester course schedule for details about the time frame for each part of the course.

Locks on Quiz or Test in Grade book
If you see a lock in place of a grade, you had a computer error or selected the back arrow during your exam. Your test is locked and will have to be cleared to retake the test. For security measures, one unlock is allowed without penalty. Be sure you are on a reliable computer and do not use the back arrow.

Discussion Boards
You are asked to participate in two Discussion Boards. To receive full credit you must add a new post following the instructions for each DB and reply to at least one other student’s post. To add a new post, select the “+ Thread” button in the upper left corner of the discussion board screen. To respond, select “Reply” below the thread you are replying to. Anonymous messages on the discussion are NOT allowed.
How Your Grade Is Determined

The course grade is determined on the basis of the following point system.

<table>
<thead>
<tr>
<th>Points</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A = 450 - 500</td>
<td>A = 90 - 100</td>
</tr>
<tr>
<td>B = 400 - 449</td>
<td>B = 80 - 89</td>
</tr>
<tr>
<td>C = 350 - 399</td>
<td>C = 70 - 79</td>
</tr>
<tr>
<td>D = 300 - 349</td>
<td>D = 60 - 69</td>
</tr>
<tr>
<td>F = 0 - 299</td>
<td>F = 0 - 59</td>
</tr>
</tbody>
</table>

You may accumulate points as follows:

1. **Lecture** Timed online multiple-choice Lecture Quizzes worth 15 points each will be given at the conclusion of each Lesson. Two attempts are allowed for each Lecture quiz.

2. **Laboratory** Labs will coordinate with the text material. When you complete each lab, submit your answers to the lab activities and summary questions to your instructor. Your instructor will evaluate your lab exercises and submit a password. This password will enable you to check your answers with the answer key for the lab. Then, using the same password, take the 10 point multiple choice quiz.

3. **Laboratory Practicals.** Two lab practicals worth 40 points each will be given. The first Lab Practical will cover the content of labs 1-5 and the second Lab Practical will cover content of labs 6-10. Laboratory understanding, critical thinking skills, and the ability to interpret data will be evaluated.

4. **Special Events.** Two activities are provided which will relate the textbook biology to the world around you - they may consist of television programs, assigned movies, and other special event opportunities. Each special event will count 20 points.

5. **Discussion Board.** During the semester group interaction activities will give students the opportunity to discuss issues related to topics in the course. Each discussion will count 5 points.

6. **Final Exam.** A comprehensive, 60 question multiple-choice exam covering the major objectives of all textbook reading assignments will be taken at the end of the semester. Each question will count 1 point.

7. **Extra Credit.** There are two extra credit opportunities. The orientation quiz is worth 10 points extra credit and there is an assignment near the end of the semester worth 20 points.

8. **Late Policy/Makeup Week.** Only late work with a documented excuse may be made up. Notify your instructor in advance if you have a conflict with a deadline for approval to makeup the work. In case of an emergency, provide a valid, documented excuse within 24 hours of the missed deadline. Late work without documentation will not receive credit. All excused late work for the first half of the semester MUST be completed by midterm week (see your schedule for deadline). All excused late work for the second half of the semester is due prior to finals week (see your schedule for dates). Lab Reports must be completed within 48 hours of the due date for credit.
**In summary:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture quizzes</td>
<td>180</td>
<td>36%</td>
</tr>
<tr>
<td>Laboratory</td>
<td>120</td>
<td>24%</td>
</tr>
<tr>
<td>Laboratory Practicals</td>
<td>80</td>
<td>16%</td>
</tr>
<tr>
<td>Special Events</td>
<td>40</td>
<td>8%</td>
</tr>
<tr>
<td>Discussion Boards</td>
<td>20</td>
<td>4%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>60 <strong>points</strong></td>
<td>12%</td>
</tr>
<tr>
<td></td>
<td>500</td>
<td>100%</td>
</tr>
</tbody>
</table>

* It is the student's responsibility to withdraw from the course in the event that they wish to drop out of the course. Non-completion without an official drop will result in an 'F' grade.

*Disclaimer - The instructor, Brookhaven College and the Dallas County Community College District will be held blameless should the course schedule or content be changed.*

The instructor reserves the right to amend this syllabus as necessary.
Educational Outcomes for Biology 1409

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.

Core Objectives
Biology 1409 is part of the *Life and Physical Sciences* Foundational Component Area 030.

i. Courses in this category focus on describing, explaining, and predicting natural phenomena using the scientific method.
ii. Courses involve the understanding of interactions among natural phenomena and the implications of scientific principles on the physical world and on human experiences.
iii. The following four Core Objectives must be addressed in each course approved to fulfill this category requirement:
   (A) **Critical Thinking Skills:** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information;
   (B) **Communication Skills:** to include effective development, interpretation and expression of ideas through written, oral and visual communication;
   (C) **Empirical and Quantitative Skills:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions;
   (D) **Teamwork:** to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal;
Brookhaven College Institutional Policies Addendum can be found at the following link:

http://www.brookhavencollege.edu/employees/faculty/Documents/BCSyllabus_Addendum.pdf

Grade reports are no longer mailed. Convenient access is available online. Just use your student identification number when you log in to eConnect.

Web site address: https://econnect.dcccd.edu/

How to check your grades online:

1. Go to the student menu on eConnect
2. Select "My Grades" under "My Personal Information."
3. If you are not already logged in, you will be prompted to do so.
4. Select the grade type you wish to review.
5. Press the submit button.
6. All Grades for the selected grade type will be displayed.

Note: You will need your 7 digit Student ID # and your 6 digit PIN to log in.

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