Course Description

INET Biol 1408 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 include life chemistry, the cell, respiration, photosynthesis, cell reproduction, and genetics.

Prerequisite - None.

Hello,

Welcome to INET Biol 1408.

You will need the following instructional materials to complete this course. These materials are available from the DCCCD BHC and NLC Follett bookstores.


If you are using a used lab manual you will need to purchase an online lab access code at [www.biolabmanual.com](http://www.biolabmanual.com). You will need this access code to access each lab online.

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 in daily newspapers and periodicals such as *Time, Newsweek, Discovery, and National Geographic*.

Phil Shelp
Biology Department
Brookhaven College
pshelp@dcccd.edu
Procedure

The method of teaching employed in INET Biol 1408 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. Follow your Schedule. This is not a self-paced course.

The MAJOR contributing factor to student failure in this class is procrastination.

Text Assignments

The text assignments consist of assigned reading in Biology-Concepts & Applications. You will take four tests (1 per week) over the content of the reading assignments.

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 corresponding lab. Complete a Lab Report using the templates found under “Labs.” Submit the Lab Report via email attachment to your instructor. Your instructor will grade the lab and, if satisfactory, provide a password so you can compare your answers to the Answer Keys also provided under “Labs.” When you are sure you understand the concepts of that lab you will take a ten point multiple choice quiz online.

You will take Lab Practical 1 covering labs 1-5 from your computer and will be required to come to a supervised testing site at the end of the course for Lab Practical 2 covering labs 7-11.

Tests

A total of four online tests, worth 50 points each, will be given during the semester. You will take a comprehensive final exam in the testing center 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 Gradebook

If you see an exclamation point (!) in place of a grade, you have gone over the time limit. There will be a 1 point deduction taken for every minute over the time limit, so watch your time carefully.

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.
Educational Outcomes for Biology 1408

Biology 1408 is included in the DCCCD Core Curriculum. This course provides students with the opportunity to develop the Core Curriculum Intellectual Competencies of reading, writing, speaking, listening, critical thinking and computer literacy fundamental to all DCCCD Core Curriculum courses. It also provides students with the opportunity to achieve the Texas Higher Education Coordinating Board’s Exemplary Objectives in Communication.

I.  Core Curriculum Intellectual Competencies (CCIC)
Biology 1408 satisfies the following Core Curriculum Intellectual Competencies defined by the Texas Higher Education Coordinating Board.

1)  **READING**: the ability to analyze and interpret a variety of printed materials - books, documents, and articles - above 12th grade level
2)  **WRITING**: the ability to produce clear, correct and coherent prose adapted to purpose, occasion and audience - above 12th grade level
3)  **SPEAKING**: the ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience - above 12th grade level
4)  **LISTENING**: analyze and interpret various forms of spoken communication, possess sufficient literacy skills of writing, reading - above 12th grade level
5)  **CRITICAL THINKING**: think and analyze at a critical level
6)  **COMPUTER LITERACY**: understand our technological society, use computer based technology in communication, solving problems, acquiring information

II.  Exemplary Educational Objectives (EEO) in Biology

Biology 1408, as part of the Core Curriculum, satisfies the following Exemplary Educational Objectives in Communication set forth by the Texas Higher Education Coordinating Board. The objective of the study of the natural sciences component of a core curriculum is to enable the student to understand, construct and evaluate relationships in the natural sciences, and to enable the student to understand the basis for building and testing theories.

1. to understand and apply method and appropriate technology to the study of the natural sciences;
2. to recognize scientific and quantitative methods and the differences between these approaches and the other methods of inquiry and to communicate findings, analysis, and interpretation both orally and in writing;
3. to identify and recognize the differences among competing scientific theories;
4. to demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies;
5. to demonstrate knowledge of the interdependence of science and technology and their influence on and contributions to modern culture.

**STOP BEFORE YOU DROP**

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: https://www1.dcccd.edu/6drop

**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>
</tr>
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<tbody>
<tr>
<td>A = 441 - 490</td>
<td>A = 90 - 100</td>
</tr>
<tr>
<td>B = 392 - 440</td>
<td>B = 80 - 89</td>
</tr>
<tr>
<td>C = 343 - 391</td>
<td>C = 70 - 79</td>
</tr>
<tr>
<td>D = 294 - 342</td>
<td>D = 60 - 69</td>
</tr>
<tr>
<td>F = 0 - 293</td>
<td>F = 0 - 59</td>
</tr>
</tbody>
</table>

You may accumulate points and how the points apply to the CCICs and EEOs are as follows:

1. **Textbook** A timed online multiple choice test worth 50 points will be given each week over the content of both textbook reading and laboratory. Satisfies CCIC 1, 2, 5, 6  EEO 1, 3, 4, 5

2. **Laboratory** Ten labs will coordinate with the text material. When you complete each lab, submit your answers to the lab activites and summary questions to your instructor on the lab template provided under “Labs”. *Be sure you submit your lab template by the deadline shown on your schedule – late lab templates may not receive the password in time to take the labs.* Your instructor will grade 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. Satisfies CCIC 1, 2, 3, 4, 5, 6  EEO 1, 2, 3, 4, 5

3. **Laboratory Practicals.** Two lab practicals worth 40 points each will be given. The first Lab Practical (LP1) will cover the content of labs 1-5 and the second Lab Practical (LP2) will cover content of labs 7-11. LP2 will be taken in the testing center at the end of the semester. Laboratory understanding, critical thinking skills, and the ability to interpret data will be evaluated. Satisfies CCIC 1, 2, 3, 4, 5, 6  EEO 1, 2, 3, 4, 5

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. Satisfies CCIC 1, 2, 3, 4, 5, 6  EEO 1, 2, 3, 4, 5

5. **Discussion Board.** Two times 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. Satisfies CCIC 1, 2, 3, 4, 5, 6  EEO 1, 2, 3, 4, 5

6. **Final Exam.** A comprehensive, 60 question multiple choice exam covering the major objectives of all four weeks will be taken in a testing center or similar secure site. Each question will count 1 point. Satisfies CCIC 1, 2, 5, 6  EEO 1, 3, 4, 5
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 15 points.

8. **Late Policy/Makeup Week.** Late work with a documented excuse may be made up. Late work without documentation will not receive credit. All work for the first half of the semester (due prior to midterm) MUST be completed by midterm week (see your schedule for deadline). All work for the second half of the semester is due prior to finals week (see your schedule for dates).

In summary:

<table>
<thead>
<tr>
<th>Test</th>
<th>Points</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests</td>
<td>200</td>
<td>40%</td>
</tr>
<tr>
<td>Laboratory</td>
<td>100</td>
<td>20%</td>
</tr>
<tr>
<td>Laboratory Practical</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>10</td>
<td>4%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>60</td>
<td>12%</td>
</tr>
<tr>
<td></td>
<td>490</td>
<td>100%</td>
</tr>
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</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.

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**INET BIOL 1408**  
**Summer II 2012**

<table>
<thead>
<tr>
<th>Week 1</th>
<th>Assignment</th>
<th>Topic/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 9</td>
<td>Orientation</td>
<td>Brookhaven Campus,</td>
</tr>
<tr>
<td>July 9-14</td>
<td>Orientation Quiz</td>
<td>Online (includes info.</td>
</tr>
<tr>
<td>from Course Information</td>
<td>Text Reading</td>
<td>Ch 1, p 2-21; Ch 2, p 22-35;</td>
</tr>
<tr>
<td>submitted</td>
<td>Lab Templates</td>
<td>Lab Templates 1 &amp; 2</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>July 15</th>
<th>Lab Quizzes 1 &amp; 2</th>
<th>Measurement &amp; Life</th>
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**Discussion Board 1**  
What is Life?  
**Test 1**  
Ch 1,  
2, & 3 (Text Reading)

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**Week 2**
July 16 - 21  Text Reading  Ch 4, p 50-73; and Ch 5, p 74-91
Lab Templates  Lab Templates

3, 4, & 5 submitted

July 22  Lab Quizzes 3, 4, & 5  Microscope & Cell, Cell Membranes, & Enzymes
Special Event 1  Test 2  Microbial Menaces  Ch 4 & 5 (Text Reading)

July 23  Lab Practical 1  Online exam includes
Labs 1, 2, 3, 4, & 5

Week 3
July 23 - 28  Text Reading  Ch 7, p 106-121; Ch 8, p 122-135; Ch 9, p 136-149
Lab Templates  Lab Templates

7 & 8 submitted

July 29  Lab Quizzes 7 & 8  Cell Respiration and DNA
Test 3  Ch 7, 8, & 9 (Text Reading)

August 2  Last Day to Drop with a “W”

Week 4
July 30 – Aug 4  Text Reading  Ch 10, p 150-161; Ch 11, p 162-173; Ch 12, p 174-187;
Ch 13, p 188-201; Ch 15, p 220-221
Lab Templates  Lab Templates

9, 10, 11 submitted

Aug 5  Lab Quizzes 9, 10, 11  Mitosis, Meiosis, Basic Genetics
Discussion Board 2  Stem Cell Research
Special Event 2  Humane Genome Project

Test 4  Ch 10, 11, 12, 13 & 15 p 220-221 (Text Reading)

Aug 6-7  Review Days
Aug 8-9  *Lab Practical 2  Testing Center
*Final Exam (comprehensive) Testing Center Proctored
Proctored Exam - Labs 7, 8, 9, 10, & 11
Exam - All Text Reading

BOLD DATES ARE DEADLINES – Must submit Lab Reports 24 hours before quiz deadline to receive the password.

*Lab Practical 2 and the Final Exam will be supervised in the testing center.
* All other exams and quizzes are completed at your personal computer setting