Semester and Year: Fall 2012
Section: 8018
Class time and days:
Lecture: T,R 12:30 PM-1:50PM
Lab R: 2pm – 4:50 pm
Room: Lecture in WH 275 Lab in SH 151

Instructor: Dr. Kathy Hormi-Carver
Contact Info: kathycarver@dccc.edu
Last date to withdraw: Thursday, November 15, 2012
Final Exam Day and time: R, December 13, 2012 12:30pm-2:30pm (in WH 275)

Evaluation Procedures:

100-90% = A; 89-80 = B; 79-70 = C; 69-60 = D; 59 and below = F
[This may change at the discretion of the instructor.]

Course grade is determined as follows:

4 lecture examinations @ 100 pts each = 400 pts
9 lab quizzes @ 13 pts each = 117 pts
11 pre-labs @ 12 pts each = 132 pts
In class group work (Active Learning) = 50 pts
Enzyme Report = 60 pts
On-line Homework (MasteringBiology) = 100 pts
1 Final exam @ 200 pts = 200 pts

Total points = 1059 pts

- **Lecture Examinations:** NO MAKE-UPS!! If an exam is missed, the missed score will be replaced by the final exam % score. The lecture examinations will be a combination of multiple choice, true or false, matching and short answer questions.

- **Lab Quizzes:** Two lab quizzes will be dropped for extenuating circumstances like tardiness, absence due to illness, deaths in the family, or because of poor performance. ABSOLUTELY NO MAKE-UPS FOR LAB QUIZZES! The lab quiz will be administered during the first 15 minutes of the lab period; if you are late for lab, you will have less time to finish the quiz. IF you leave the lab after taking the quiz (without completing the lab exercise to the teacher's satisfaction) your lab quiz for that day will not be graded (will receive a grade of zero). If you did not attend a lab, you can not turn in a Pre-lab for it.

- **In-Class Groupwork:** In five occasions I will provide a worksheet to be done in groups in the classroom. If you are absent for class, you will miss these points.

- **Lab Report:** You will write a lab report about the ENZYMES exercise. If you did not attend this lab, you CAN NOT write a lab report for it. You will have two weeks to complete the draft and one more week to complete the report after receiving the comments from the instructor. The Appendix section of your lab manual gives you information on how to use Microsoft Excel to plot your data and how to write a lab report.
• Mastering Biology (On-Line Homework System): There are 10 assignments each worth 10 points.

**COURSE ID (NEEDED TO LOG ON):**
**FALL2012BIOL14068018**

• Final Exam: The final exam is comprehensive (labs and lectures included). It consists of 100 multiple choice questions. A Scantron sheet is not necessary for this.

**Attendance Policy:** Attendance is necessary for class participation and course work. There will be no make-up opportunities for missed assignments. Thus, it is strongly recommended that students attend each class. However, there will be no official course grading policy on attendance. If there is a conflict in your schedule, contact me ASAP.

**Required Materials:**
  Richland Customized Copy, packaged with online access code for Mastering Biology homework. Available at our bookstore or at http://vig.pearsoned.com/store/home?url=/richlandcollege/biology
• The Laboratory Manual is available online on your e-campus site.

**Instructor Policies and Suggestions for Student Success:**
* Lecture starts at 12:30 pm. If late by more than 5 minutes, please try to be as quiet as possible.
* Turn off your mobile phone/pager.
* No use of headphones during lecture time.
* Persistent talking among classmates during lecture will not be tolerated. A student may be asked to leave the classroom at the discretion of the instructor.
* You are expected to take good care of all the equipment/materials provided to you in the lab. It is your responsibility to keep your working area and materials clean.
* Consider this class as or more important than your job. It is not O.K. to leave lab early, or miss lab completely, because of work.

*NO WHINING IS ALLOWED!!!*

**College Policies and Procedures:**
For Institution Policies, please refer students to the Richland website [www.richlandcollege.edu](http://www.richlandcollege.edu) (Current Students) or to [www.richlandcollege.edu/syllabusinfo/syllablinformation.pdf](http://www.richlandcollege.edu/syllabusinfo/syllablinformation.pdf)

**Catalog Course Description**
An introductory survey of contemporary biology for students majoring in the sciences. Topics emphasized will include the chemical basis of life, structure and function of cells, energy transformations, and molecular biology and genetics.

**Pre-requisites**
One of the following must be met: (1) DREA 0093 AND DWRI 0093; (2) ESOL 0044 AND ESOL 0054; or (3) have met TSI Reading and Writing standards AND DCCCD Writing score prerequisite requirement.

Course Objectives

1. To understand and apply method and appropriate technology to the study of 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, analyses, 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 contributing to, modern culture.

Core Curriculum Statement

Intellectual Competencies:

1. **Reading**: the ability to analyze and interpret a variety of printed materials—books, documents, and articles—above the 12th grade level.
2. **Writing**: the ability to produce clear, correct and coherent prose adapted to purpose, occasion and audience above the 12th grade level.
3. **Speaking**: ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience above the 12th grade level.
4. **Listening**: analyze and interpret various forms of spoken communication, possess sufficient literacy skills of writing, reading—above the 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, and acquiring information.

College Policies and Procedures:
For Institution Policies, please refer students to the Richland website www.richlandcollege.edu or to www.richlandcollege.edu/syllabusinfo/syllabusInformation.pdf

ACADEMIC HONESTY
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 at http://www1.dcccd.edu/cat0910/ss/code.cfm

ADA STATEMENT
If you are a student with a disability and/or special needs who requires accommodations, please contact the college Disability Services Office at 972-238-6180 (Voice/TTY), visit Thunderduck Hall, suite T120, or go to http://www.dcccd.edu/Current+Students/Student+Services/Disability+Services/
CAMPUS EMERGENCY OPERATION PLAN
Richland College and the Dallas County Community College District have developed policies and procedures for dealing with emergencies that may occur on campus. To familiarize yourself with these procedures, please take time to watch the overview video: http://video.dcccd.edu/rtv/DO/emergency_dcccd.wmv. The complete Emergency Operations Plan can be viewed and printed at the following website: http://www.rlc.dcccd.edu/emergency. If you have questions or concerns, please contact the Richland College Office of Emergency Management. This office can be reached by phone (972/238-3794) or by e-mail (rlcoem@dcccd.edu).

FINANCIAL AID
If you are receiving any form of financial aid, you 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.

FOOD AND BEVERAGE POLICY
It is departmental policy not to allow the consumption of food, water, and other beverages in any classroom or lab. It is also the college policy that food, water and drinks are prohibited in all technology classrooms.

OBTAINING FINAL COURSE GRADES
Grades are available through Richland’s Touchtone Telephone System at 972-613-1818 or online through eConnect at www.econnect.edu. Your grades will also be printed on your Student Advising Report, which is available in the Admissions and Student Records Office, T170.

RELIGIOUS HOLIDAYS
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 contract with the instructor to take a make-up examination or complete an assignment within a reasonable time after the absence.

SIX DROP ISSUE
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

THIRD ATTEMPT TO ENROLL IN A COURSE
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. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in additional tuition to be charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 Semester. See Third Attempt to Enroll in a Course at http://www.dcccd.edu/thirdcourseattempt/

WITHDRAWAL FROM THE COURSE
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 drop date given elsewhere in the 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. For more information about drop deadlines, refer to the current printed Credit Class Schedule, contact the Admissions/Student Records office at 972-238-6100 or 6101 (Thunderduck Hall, T170), or contact the division office.
Dr. CARVER  
RICHLAND COLLEGE DEPARTMENT OF BIOLOGY  
School of Mathematics, Science, and Health Professions  
Course Syllabus For  
BIOL 1406: Biology for Science Majors I  
4 credit hours

Units of Instruction/Class Calendar:

<table>
<thead>
<tr>
<th>Day</th>
<th>Lecture topic</th>
<th>Reading</th>
<th>Lab topic</th>
<th>Lab QUIZ Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 28</td>
<td>Introduction</td>
<td>Chapter 1</td>
<td>Orientation and Lecture cont’d</td>
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<tr>
<td>Aug 30</td>
<td>What is Biology?</td>
<td>Chapter 1</td>
<td></td>
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<tr>
<td>Sep 04</td>
<td>Charact. of Living things</td>
<td>Chapter 1</td>
<td></td>
<td></td>
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<tr>
<td>Sep 06</td>
<td>Scientific Method</td>
<td>Chapter 1</td>
<td>Safety; Lecture on Atoms &amp; Bonds</td>
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<tr>
<td>Sep 11</td>
<td>Properties of Water</td>
<td>Chapter 3</td>
<td>(Lab 2) Measurements</td>
<td></td>
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<tr>
<td>Sep 13</td>
<td>Isomers, Functional groups</td>
<td>Chapter 4</td>
<td></td>
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<tr>
<td>Sep 18</td>
<td>Molecules of Life</td>
<td>Chapter 5</td>
<td>(Lab 3) Scientific Method</td>
<td>Measurements</td>
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<tr>
<td>Sep 20</td>
<td>Molecules of Life</td>
<td>Chapter 5</td>
<td></td>
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<tr>
<td>Sep 25</td>
<td>Molecules of Life</td>
<td>Chapter 5</td>
<td>(Lab 4) Chem and Life</td>
<td>Scientific Method</td>
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<tr>
<td>Sep 27</td>
<td>Review for Exam 1</td>
<td>Chapter 5</td>
<td></td>
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<tr>
<td>Oct 02</td>
<td><strong>EXAM I</strong> (Chapters 1-5)</td>
<td>Chapter 8</td>
<td>(Lab 5) Biomolecules</td>
<td>Chem and Life</td>
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<tr>
<td>Oct 05</td>
<td>Metabolic Concepts, ΔG</td>
<td>Chapter 8</td>
<td></td>
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<tr>
<td>Oct 09</td>
<td>Enzymes/Cells</td>
<td>Chapter 8, 6</td>
<td>(Lab 6&amp;7) Enzymes</td>
<td>Biomolecules</td>
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<tr>
<td>Oct 11</td>
<td>Cells</td>
<td>Chapter 6</td>
<td></td>
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<tr>
<td>Day</td>
<td>Lecture topic</td>
<td>Reading</td>
<td>Lab topic</td>
<td>Lab QUIZ Topic</td>
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<tr>
<td>Oct 16</td>
<td>Cells</td>
<td>Chapter 6</td>
<td>(Lab 8) Microscopy</td>
<td>no quiz</td>
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<td>Oct 18</td>
<td>Memb. Structure/Function</td>
<td>Chapter 7</td>
<td>(Lab 8) Microscopy</td>
<td>no quiz</td>
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<td>Oct 23</td>
<td><strong>EXAM II</strong> (Chapters 8,6)</td>
<td>Chapter 7</td>
<td>(Lab 09) Cells</td>
<td>Microscopy</td>
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<tr>
<td>Oct 25</td>
<td>Membranes</td>
<td>Chapter 7</td>
<td>(Lab 09) Cells</td>
<td>Microscopy+</td>
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<tr>
<td>Nov 01</td>
<td>Aerobic + Anaerobic Respiration</td>
<td>Chapter 9</td>
<td>(Lab 10) Membranes</td>
<td>Cells</td>
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<tr>
<td>Nov 06</td>
<td>Photosynthesis (Light reactions)</td>
<td>Chapter 10</td>
<td>(Lab 11) Cell. Respiration</td>
<td>Membranes+</td>
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<td>Nov 08</td>
<td>Photosynthesis (Dark reactions)</td>
<td>Chapter 10</td>
<td>(Lab 11) Cell. Respiration</td>
<td>Membranes+</td>
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<tr>
<td>Nov 13</td>
<td>Photosynthesis</td>
<td>Chapter 10</td>
<td>(Lab 12) Photosynthesis</td>
<td>Respiration</td>
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<td>Nov 15</td>
<td>Cell Cycle</td>
<td>Chapter 12</td>
<td>(Lab 12) Photosynthesis</td>
<td>Respiration</td>
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<tr>
<td>Nov 20</td>
<td><strong>EXAM III</strong> (Chapters 7,9,10)</td>
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<td>Nov 22</td>
<td>NO CLASS Nov 23</td>
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<tr>
<td>Nov 27</td>
<td>DNA replication</td>
<td>Chapter 16</td>
<td>(Lab 14) Cell cycle</td>
<td>Photosynthesis</td>
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<tr>
<td>Nov 29</td>
<td>Protein Synthesis</td>
<td>Chapter 17</td>
<td>(Lab 14) Cell cycle</td>
<td>Photosynthesis</td>
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<tr>
<td>Dec 04</td>
<td>Protein Synthesis</td>
<td>Chapter 17</td>
<td>(Lab 15) Protein Synthesis</td>
<td>Cell Cycle + ProtSyn</td>
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<tr>
<td>Dec 06</td>
<td><strong>EXAM IV</strong> (Chapters 12,16,17)</td>
<td>Chapter 17</td>
<td>(Lab 15) Protein Synthesis</td>
<td>Cell Cycle + ProtSyn</td>
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**Final Exam Day and time:** Thursday, December 13, 2012  12:30 pm in WH 275