Semester and Year: Fall 2012  
Section: 8015  
Class time and days: Laboratory: Thursdays, 8-10:50am  
Lecture: Tues, Thurs, 11-12:20pm  
Room: Lecture: WH273  
Laboratory: SH 151  
Instructor: Sara Parrish  
Contact: SAParrish@dcccd.edu  
Office: ACCESS office Alamito Hall A110  
Phone: 972-238-6140  
Office Hours: usually Tues 10-11am, Science Corner (SH)  
Last date to withdraw with a W: Thursday, November 15, 2012  
Final exam day and time: Tuesday, December 11th @ 11am  
Required Materials:  
- Laboratory Manual is available online on your ecampus site as pdf. files.  
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.  
Prerequisites  
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.  
Evaluation Procedures:  
A = 1100-990 pts, B = 989-880 pts, C = 879-770 pts, D = 769-660 pts, F ≤ 659 pts  
Grading scale may change at the discretion of the instructor  
Lecture exams: 4 @100 pts each ..................................................................................400 pts  
Comprehensive final exam: ..........................................................................................200 pts  
In class group work, Active Learning .........................................................................65 pts  
Pre Lab quizzes: 10 @ 12 pts each ...............................................................................120 pts  
Post Lab quizzes: 10 @ 13 pts each ..............................................................................130 pts  
Lab Report ..................................................................................................................85 pts  
Mastering Biology .....................................................................................................100 pts  
Sum = 1100 pts
• **LECTURE EXAMINATIONS**: I will replace your lowest lecture exam grade with the **final exam % score** if it is to the student's benefit. **NO MAKE-UPS!!** If an exam is missed, due to illness or any other reason, the student will receive the final exam % score in place of the ZERO for that exam. Only one exam may be replaced this way after that any other absences for exams will receive a zero. The lecture examinations will be a combination of multiple choice, true or false, matching and short answer questions. Scantrons are required for each exam.

• **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 arrive after the lab quiz has been taken up, you will receive a ZERO for that post lab quiz—however you may still attend & participate in that lab and keep your score for your pre lab quiz. **IF** you leave the lab after taking the quiz (without completing the lab exercise to the teacher's satisfaction) your PRE & POST lab quiz for that day will not be graded (will receive a grade of zero). *****PRE-LAB WORKSHEET** that must be completed on ecampus. The post lab quiz will be taken in lab the following lab day and count 13 points 😊 ***

If you did not attend a lab, you can not turn in a Pre-lab for it. You will receive a ZERO for that PreLab Quiz and a ZERO for that Post lab Quiz.

• **LAB REPORT**: You will write a lab report about the ENZYMES lab exercise. If you do not attend this lab, you **CAN NOT** write a lab report for it. You will have five weeks to complete the report and must first have it proofread at the Writing center (http://www.richlandcollege.edu/writing/) for grammar and format. **The final version will be due in paper format on November 20th at the beginning of lecture class (within first 15min—I will NOT accept them later)**. The Writing Center is by appointment only so you need to call 972-238-6226 to make the appointment well in advance. **You must have it proofed by the Writing Center by Nov 8th**. Only paper reports that have been stamped and proofread by the Writing center will be accepted on the due date. All other submissions will receive a grade of ZERO. There is a section on ecampus that gives you information on how to use Microsoft Excel to plot your data and how to write a lab report. **I DO NOT ACCEPT LATE SUBMISSIONS! You will receive a grade of ZERO for any report that is not turned into me on the due date. I will check for plagiarism and any papers committing plagiarism will receive a score of ZERO and will be forwarded on to the Department for further penalty.**

• **ON-LINE HOMEWORK SYSTEM**: There are 10 assignments each worth 10 points.

**COURSE ID (NEEDED TO LOG ON): MBPARRISH51617**

• **ACTIVE LEARNING**: There will be at least 4 Active Learning activities throughout the semester. The dates of some of these activities are marked on the schedule. Other activities will occur without notice, at the discretion of the instructor. If you are absent for any activity you will receive a ZERO for that assignment. The activities consist of worksheets, review games, Q & A etc.

• **FINAL EXAM**: The final exam is comprehensive (labs and lectures included). It consists of 100 multiple choice questions. A Scantron sheet is required for this.

**Attendance Policy**: Attendance is necessary for class participation and course work. And I will keep track of attendance through sign in sheets. 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.
**Academic integrity:**
The instructor facilitates the learning process; it is your responsibility to learn. Please feel free to contact the instructor if you have any questions, comments, or concerns. The grade you receive at the completion of this course is entirely the result of your effort and performance. Plagiarism and cheating will not be tolerated and will result in a ZERO for the assignment. Students should respect the intellectual property of others.

**Academic Progress:** Students are encouraged to discuss academic goals and degree completion with their instructors. Specific advising is available throughout the semester. Check [www.richlandcollege.edu/admissions/process.php](http://www.richlandcollege.edu/admissions/process.php) for more details.

**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/syllabiInformation.pdf](http://www.richlandcollege.edu/syllabusinfo/syllabiInformation.pdf)

**Behavior:**
- Lecture: If late by more than 15 minutes, quickly & quietly sit in the closest seat by the door.
- Turn off your cell phone. No use of headphones/electronic devices during lecture/lab time. **NO CELL PHONES MAY BE OUT DURING LECTURE OR LAB!** You will be asked to leave the class with any work due that day receiving a ZERO.
- Persistent talking among classmates, or any other behavior that disrupts lecture will not be tolerated. A student may be asked to leave the classroom at the discretion of the instructor.
- Bathroom breaks—please take them quickly & quietly during lab, do NOT take them during lecture, If you leave during lecture you will be counted as absent—**NO BREAKS DURING EXAMINATIONS EVER**
- 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. **Stations that are left untidy will receive a 5 point deduction from their lab.** Consistent untidiness at your lab station will result in no credit given for that lab.
- 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.

**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

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**COLLEGE POLICIES AND PROCEDURES:**
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**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](http://www1.dcccd.edu/cat0910/ss/code.cfm), published in the DCCCD Catalog at [http://www1.dcccd.edu/cat0910/ss/code.cfm](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/](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](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](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 email (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](http://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](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.
<table>
<thead>
<tr>
<th>Day</th>
<th>Lecture topic</th>
<th>Reading</th>
<th>Lab topic</th>
<th>Lab QUIZ Topic</th>
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<tr>
<td>Aug 28</td>
<td>Introduction/What is Biology?</td>
<td>Chapter 1</td>
<td>Orientation &amp; Lecture cont’d</td>
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<td>Aug 30</td>
<td>What is Biology?/Scientific Method</td>
<td>Chapter 1</td>
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<td>Sep 04</td>
<td>Atoms &amp; Bonding</td>
<td>Chapter 2</td>
<td>(Lab 1) Safety &amp; Lecture cont’d</td>
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<td>Sep 06</td>
<td>Properties of Water</td>
<td>Chapter 3</td>
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<td>Sep 11</td>
<td>Isomers, Functional groups</td>
<td>Chapter 4</td>
<td>(Lab 2) Measurements</td>
<td>Safety</td>
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<td>Sep 13</td>
<td>Molecules of Life</td>
<td>Chapter 5</td>
<td>(Lab 3) Scientific Method</td>
<td>Measurements</td>
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<td>Molecules of Life</td>
<td>Chapter 5</td>
<td>(Lab 3) Scientific Method</td>
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<td>Sep 20</td>
<td>Molecules of Life/Review (AL#1)</td>
<td>Chapter 5</td>
<td>(Lab 3) Scientific Method</td>
<td>Measurements</td>
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<td><strong>EXAM I</strong> (Ch 1-5)</td>
<td>Chapter 8</td>
<td>(Lab 4) Chem and Life</td>
<td>Scientific Method</td>
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<td>Sep 27</td>
<td>Metabolic Concepts, $\Delta G$</td>
<td>Chapter 8</td>
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<td>Oct 02</td>
<td>Enzymes</td>
<td>Chapter 8</td>
<td>(Lab 5) Biomolecules</td>
<td>Chem and Life</td>
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<td>Oct 05</td>
<td>Enzymes</td>
<td>Chapter 8</td>
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<td>Oct 09</td>
<td>Cells</td>
<td>Chapter 6</td>
<td>(Lab 6&amp;7) Enzymes</td>
<td>Biomolecules</td>
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<td>Oct 11</td>
<td>Cells</td>
<td>Chapter 6</td>
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<td>Oct 16</td>
<td>Review (AL#2)</td>
<td>Chapters 8, 6</td>
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<td>(Lab 8) Microscopy</td>
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<td>Oct 18</td>
<td><strong>EXAM II</strong> (Ch 8,6)</td>
<td>Chapters 8, 6</td>
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<td>Oct 23</td>
<td>Membranes</td>
<td>Chapter 7</td>
<td>(Lab 9) Cells</td>
<td>Microscopy</td>
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<td>Oct 25</td>
<td>Respiration</td>
<td>Chapter 9</td>
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<td>Reading</td>
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<td>Oct 30</td>
<td>Aerobic Respiration</td>
<td>Chapter 9</td>
<td>(Lab 10) Membranes</td>
<td>Cells</td>
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<tr>
<td>Nov 01</td>
<td>Photosynthesis</td>
<td>Chapter 10</td>
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<td>Photosynthesis</td>
<td>Chapter 10</td>
<td>(Lab 11) Respiration</td>
<td>Membranes</td>
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<td>Nov 08</td>
<td>Photo/Review (AL #3)</td>
<td>Chapters 7, 9, 10</td>
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<td>Rough draft is due to Writing Center = Nov 8th</td>
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<td>Nov 13</td>
<td>EXAM III (Ch 7, 9, 10)</td>
<td>Chapter 12</td>
<td>(Lab 12) Photosynthesis</td>
<td>Respiration</td>
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<td>Nov 15</td>
<td>Cell Cycle/Mitosis</td>
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<td>Nov 20</td>
<td>DNA Replication</td>
<td>Chapter 16</td>
<td>Lab Report is DUE=Nov 20th</td>
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<td>Nov 27</td>
<td>DNA Rep/Prot Syn</td>
<td>Chapter 16-17</td>
<td>(Lab 13) Cell Cycle/DNA Rep</td>
<td>Photosynthesis</td>
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<td>Nov 29</td>
<td>Protein Synthesis</td>
<td>Chapter 17</td>
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<td>Dec 04</td>
<td>Protein Syn/Review (AL #4)</td>
<td>Chapter 17</td>
<td>(Lab 14) Protein synthesis</td>
<td>Cell Cycle/DNA Rep</td>
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<td>Dec 06</td>
<td>EXAM IV (Ch 12,16,17)</td>
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**Final Exam Day and time:** Tuesday, December 11, 2012    11:00 am in WH 273