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 (3 lec/3lab)

INSTRUCTOR’S INFORMATION
(Instructor reserves the right to amend this information as necessary.)

Semester and Year: Fall 2012

Section: 8017       Class time and days: Lecture TR 12:30-1:50 Y104
                  Lab T 2:00-4:50 SH 153

Instructor: Michael C. Bell       Contact Info: Office SH 268
                      Phone: 972-238-6015 mcbell@dccc.edu

Last date to withdraw: Nov. 15, 2012

Final Exam Day and time: Week of Dec. 10-13

Evaluation Procedures: (A) Three major Exams @ 100 points for 300 points
                          (B) Comprehensive Final 150 points
                          (C) 12 lab exams – 25 points @
                              (10 points for prelab and 15 for lab quiz)
                              for 300 points
                          (D) Homework System – Assignments
                              For 90 points
                          (E) Lab report for 70 points
                          (F) In Class assignments for 90 points

Total Points Possible for Semester = 1000

Suggested Grade Scale: A = 900   B = 800   C = 700   D = 600   F = < 600

Mandatory One Time Visit To My Office: This is a new program that we are using across many
sections of Biology 1406. The purpose is to have an opportunity to talk to our students one on one
about their career intentions. The resources, the expectations of all other classes you must take in
you preparation for a career in science, the steps to prepare and apply to professional schools
(medical, dental, etc), the opportunities for you here at Richland --- all are critical to your success.
Ten extra points for application to the final exam will be recorded for you upon keeping the
attendance request for the faculty office visit. It’s all about you -- every class period, every day.

Attendance Policy: The expectation is that you will attend each session. For each class period you
miss, there will be information not available otherwise by the nature of the dynamics of the class
period. There are no makeup for Lab Grades (quizzes and pre-labs), or In Class activities. The
assigned deadlines for all work will be expected to be followed. If you have missed a major exam,
the time and nature of the makeup exam will need to be discussed with the instructor. Otherwise the
makeup exam will be given during the final exam period. Since all classes are important, attendance
of all class meetings is expected.
Required Materials:
- Text:  Biology, 9th Edition, Campbell  
Customized for Richland College  
ISBN    125607683X  
Includes mastering Biology Homework System and e-book access  
At bookstore or on-line at  
or  www.mypersonstore.com and look up text by ISBN number  
If using another text, Homework access can be purchased at  
www.masteringbio.com  
Your class I.D. for Mastering Biology Homework will be provided during the first class meeting. After that it will appear here.  
- Laboratory Manual is available online  
Please see this course in your ecampus site – Blackboard, and look at the content location as stated in the drop-down menu. You may print it out all at once, or as you need it.  

Units of Instruction/Class Calendar:  Specific Schedule for lecture exams and lab will be posted on ecampus. Units One through Three closely follow the text as established in the table of content. Unit One begins with chemistry and continues through organic compounds. The Second Unit continues with cell composition and then into energy management (enzymes, cell respiration, and photosynthesis). Unit Three introduced molecular genetics with DNA structure and function as well as mitosis.  

Instructor Policies and Suggestions for Student Success:  This course is intended for science majors and individuals intending a career in the health professions. All of these areas expect a higher level of performance in all aspects of this course. I expect that each student will take their career preparations seriously and will attend all classes, on time, and be ready to make the most of the class activities. Students are best served if they keep up with their assignments, use all of the class resources fully, attend the tutoring center for the science students – The Science Corner -- and ask questions whenever they can. Please drop into my office (SH268) when you need assistance. All areas of the course are learning environments of great importance. This is also very true of the laboratory experience.  

College Policies and Procedures:  
For Institution Policies, please refer students to the Richland website www.richlandcollege.edu (Current Students) or to www.richlandcollege.edu/syllabusinfo/syllabiInformation.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.  

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.

**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

Some Additional Thoughts for Biology 1406 – 8007. Spring 2012:

**It’s about you!** Student success is always the desired outcome. It is my responsibility to do my very best to provide you with an environment that gives you the best chance for success in this course. While I know that I will do my part in this semester’s work towards a successful completion of Biology 1406, you must do a great deal to make success a reality. The years in school so far should have equipped you with the understanding of what you as an individual must do to learn new material. You should know what your strengths and weaknesses are for learning, and be willing to work to overcome them. Understand that I am not the learner here ---- you are. So what you do literally each day will determine your outcome for the course. Below are some to-the-point suggestions:

**All suggestions listed below are for all of your classes and for the rest of your academic career.**

1. Be here each class day, on time, and ready to start.
2. Read your text to keep ahead of the class so that our class discussions will have meaning to you.
3. Forget your phone -- it will distract you from key information. I will insist that you always put your phones up during class.
4. Do your homework, on time.
5. Study with a regular schedule several times a week. You cannot wait until the exam date to study. You are expected to know a lot of material per each exam, and you are expected to remember all of it for all future exams and class discussions.
6. The assigned homework is an important part of the class. Be sure you keep up here also.
7. Whatever you miss on an exam you must learn. So keep in mind that to just get by is not acceptable.
8. If you feel like wandering off during class period you will miss important information. By this I mean that you choose to leave class for some time. A drink of water, a bathroom break - all of this should be taken care of before class starts. (Of course an emergency is just that.)

9. During a test, there are behaviors that must be followed.
   (A) When the test are being handed out, from that point on no talking at all.
   (B) No electron devices permitted during exam. To look at your phone during a test is grounds for the instructor to take up your exam and give you an “F” on that exam. Classes you will have in the future have no sense of humor about your behavior.
   (C) Make sure you keep your eyes on your exam and your eyes on your watch. The time indicated to you as the end of the test will be when all test are taken up. So your management of your class time is very important.

The desire here is to assist you to be successful. But most of that is on your shoulders. **You are the only one responsible for you.**

Any time you need assistance: call me, email me, find me in my office.

**Good decisions! MCB 2012**