INSTRUCTOR’S INFORMATION

Semester and Year: Summer 2019
Section: 86002
Class time and days: WH279 LEC
M T W R, 09:40AM-11:40AM

SH129 LAB
M T W R, 07:30AM-09:30AM

Instructor: Jill Buettner
Contact Info: 972-238-6350; jbuettner@dcccd.edu
Last date to withdraw: With a “W”: July 30, 2019
Final Exam Day and time: 8/8/2019 9:40am in WH279

Evaluation Procedures: Your course grade will be based on 4 lecture exams, a final examination, lecture grades, and laboratory quizzes. The lecture exams will be multiple choice, true/false, matching, and short answer/problem-solving. The final exam is partially comprehensive. You will need a green #882 scantron and a #2 pencil for each exam. All exams are comprehensive in the sense that you are expected to have mastered all previous material, although each lecture exam will focus on the most recently covered material. Exams will be based both on the lecture material and assigned videos/reading.

3 Lecture Exams @ 150 points each = 450 points
Lab Grades - best 12 out of 13 @ 20 points each = 240 points
Lecture Grades (Homework/Quizzes/In-class activities) = 160 points
1 Final exam @ 150 points = 150 points

Total Points Earned = 1000 points possible

Convert to letter grade:

900 or above = A
800-899 = B
700-799 = C
600-699 = D
Below 600 = F

For an A you must earn: 900 points
For a B you must earn: 800 points
For a C you must earn: 700 points
For a D you must earn: 600 points
**Attendance Policy:** In order to be successful, students must attend and participate in enrolled courses. Lecture attendance is required. Changes in the lecture or lab schedule OR the assignment of extra credit opportunities (if applicable) may be announced during lecture. Handouts and homework may be distributed during lecture. It is the student’s responsibility to obtain all such information in the case of absence from lecture.

Lab attendance is mandatory and will be recorded weekly. Absences will result in a zero on the weekly quiz and will dramatically affect your grade. The week following your absence, you will be required to take the current week’s quiz (not the missed quiz). The missed quiz grade will be a zero.

**Required Materials:**

Textbook: OpenStax Biology, 2nd ed; free digital copy is available at openstax.org or a print copy can be purchased. A used copy is fine.

Laboratory Manual is available online and should be printed out in its entirety, placed in a binder, and brought to lab each week.

**Instructor Policies and Suggestions for Student Success:**

- **Science Corner** — Second floor Sabine building, east end. Free tutoring for all science courses. Check posted schedules to find out times for each course.
- **Pay-to-print printer** is now in the Science Corner.
- **Computer Lab** —
  - Richland College Main Computer Lab, Del Rio, Room D257, 972-238-6317
  - Students must provide their own storage devices; printers are available for printing in some labs. Copying of software is not allowed; personally-owned software may not be used; food and drinks are not allowed in labs. Students must adhere to the DCCCD’s Rules of Responsible Computing. Remember to save often and back-up your work - things happen, computers crash.
- **Center for Tutoring and Learning Connections (CTLC)** — room M216 – for tutoring in all classes and to make-up science lab safety training - (972)-238-6226
- **Students pursuing careers in the Health Professions** can find specific information on occupations, resources, financial aid, and programs at Texas institutions at this RLC Health Professions website: [www.rlc.dcccd.edu/medcareers](http://www.rlc.dcccd.edu/medcareers)
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Late Work, Lab and/or Make-up Exam Policy:

Extra Credit:
Extra credit points may be offered during the semester, at the discretion of the instructor. If these points are earned, they will be added to the total points earned, **not the final course grade**.

Makeups:
There are no make-ups for lecture exams or lab quizzes.

Letters of Recommendation:
I do not write letters of recommendation for every student. I will only write such letters if I believe my letter will help the student in being admitted to the school/program to which he is applying. This decision is made subjectively and depends on the student’s classroom and lab behavior, attitude, motivation, and grades. You must check with me first and make sure I have agreed to write the recommendation **before** listing my name as a reference or source of a recommendation. Please realize that a mediocre letter of recommendation may hurt your chances of getting admitted to the school/program of your choice.

Transferring Credits:
It is the responsibility of the student to check with the institution to which they intend to transfer credit for this and any other courses. Do not assume that the credits will be transferable without receiving written confirmation from that institution indicating the credits will be accepted in the manner which is intended by the student.

Institutional Policies:

_Institutional Policies relating to this course can be accessed from the following link:_
http://www.richlandcollege.edu/syllabipolicies

CATALOG COURSE DESCRIPTION

**Biology for Science Majors II**

Prerequisite: BIOL 1406. One of the following must be met: (1) DREA 0093 AND DWRI 0093; (2) English as a Second Language (ESOL) 0044 AND 0054; or (3) have met Texas Success Initiative (TSI) Reading AND Writing standards and the college Writing score prerequisite requirement.

Course Description: An introductory survey of current biological concepts for students majoring in the sciences. Emphasis will be placed on topics which include evolution, biological diversity, ecology, and comparative structure and function of organisms. (3 Lec., 3 Lab.)

Coordinating Board Academic Approval Number 2601015103

STUDENT LEARNING OUTCOMES

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.
7. Apply scientific reasoning to investigate questions, and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.
8. Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.
9. Communicate effectively the results of scientific investigation
10. Demonstrate knowledge of modern evolutionary synthesis, natural selection, population genetics, micro and macroevolution, and speciation.

**CORE CURRICULUM Statement of Purpose**

Through the Texas Core Curriculum, students gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

Core Objectives for the Sciences:

* Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

* Communication Skills - to include effective development, interpretation and expression of ideas through written, oral and visual communication

* Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

* Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

**ACADEMIC PROGRESS:** Students are encouraged to discuss academic goals and degree completion with their instructors. Specific advising is available throughout the semester. Check [Richland College Steps to Success](http://www.richlandcollege.edu/admissions/process.php)