HOWARD COLLEGE
BIOL 1306.460
BIOLOGY FOR SCIENCE MAJORS I LECTURE (HYBRID* WEB-ENHANCED)
FALL 2016

Instructor: Carla Ebeling
Office Location: B122 (WTTC, San Angelo)
Office Phone: 325.481.8300 ext. 3233
Office Hours: M 10:30 a.m. – 11:00 a.m., 3:00 p.m. – 5:30 p.m.
T/R 10:30 a.m. – 11:00 a.m.
W 12:15 p.m. – 12:45 p.m., 5:00 p.m. – 5:30 p.m.

Email: ebeling@howardcollege.edu
Prerequisites: None

Class Meeting Dates/Days/Times: BIOL1306.460 W 5:30 p.m. – 6:40 p.m. Room TC-A111
29 AUG – 16 DEC 2016

**NOTE! This course is a Hybrid Web-enhanced Course: “A course in which a majority (more than 50 percent but less than 85 percent), of the planned instruction occurs when the students and instructor(s) are not in the same place.”

I. Course Description
Fundamental principles of living organisms, including physical and chemical properties of life, organization, cell structure and function, evolutionary adaptation, classification, and animal systems with an emphasis on the human body. Concepts of reproduction, genetics, ecology, and the scientific method are included.

II. Instructional Materials:
Required Text: none

Other: 3-ring binder, tab dividers, scantrons, index cards, access to HC BlackBoard, Howard College email

III. Course Requirements
Course will include 4 exams to count for 70% of final grade. The remaining 30% of final grade will come from various assignments (online quizzes, homework, and in-class activities) to be assigned throughout the semester. Please see http://www.howardcollege.edu/step1.html for advice on taking a Hybrid web-enhanced course.

IV. Program Outcomes
- Critical Thinking Skills-to include creative thinking, innovation, inquiry, 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

V. Student Learning Outcomes
Upon successful completion of this course, students will:
1. Describe the characteristics of life.
2. Explain the methods of inquiry used by scientists.
3. Identify the basic requirements of life and the properties of the major molecules needed for life.
4. Compare and contrast the structures, reproduction, and characteristics of viruses, prokaryotic cells, and eukaryotic cells.
5. Describe the structure of cell membranes and the movement of molecules across a membrane.
6. Identify the substrates, products, and important chemical pathways in metabolism.
7. Identify the principles of inheritance and solve classical genetic problems.
8. Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.
9. Describe the unity and diversity of life and the evidence for evolution through natural selection.

VI. Attendance Policy/Makeup Work
Attendance is essential to succeed in this class. A sign in sheet will be used to keep accurate records of attendance. It is the student’s responsibility to sign in each day. (In-class activity points may be randomly awarded for class attendance.)
- The student is expected to be on time and attend each class/lab (and is therefore responsible for all material covered/announcements/etc.).
- The instructor will not provide any extra notes beyond material made available to all students.
- On test days, once the first test is turned in, no other tests will be handed out.

There will be NO make-ups for missed in-class activities or quizzes. If the student arrives during an activity, he/she will not be given any extra time to complete the assignment.
If a lecture exam is missed for ANY reason, the optional comprehensive lecture final may be taken as a substitute for the missed exam. The comprehensive lecture final exam can only replace ONE exam grade.

For students who have not missed a lecture exam, the comprehensive final may be taken in order to replace the lowest lecture exam grade; if the grade on the final is a higher score.

VII. Class Assessment/Grading

<table>
<thead>
<tr>
<th>% of Final Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>70%</td>
<td>Exams</td>
</tr>
<tr>
<td>30%</td>
<td>Assignments</td>
</tr>
<tr>
<td>89.5-100%</td>
<td>= A</td>
</tr>
<tr>
<td>79.5-89.4%</td>
<td>= B</td>
</tr>
<tr>
<td>69.5-79.4%</td>
<td>= C</td>
</tr>
<tr>
<td>59.5-69.4%</td>
<td>= D</td>
</tr>
</tbody>
</table>
ACADEMIC HONESTY:
Anyone caught cheating in this class will automatically be given a grade of “F” for the course and immediately expelled from the class.
Cheating WILL NOT be tolerated.

VIII. **Course Content and Rigor:** College-level courses may include controversial, sensitive, and/or adult material. Students are expected to have the readiness for college-level rigor and content.

IX. **Confidentiality in Courses:** Any personal information shared by students in college-level courses, either written or verbal, face-to-face or online, is not considered confidential nor does it fall under FERPA guidelines. Students should refrain from sharing information they do not wish to make public knowledge. The instructor reserves the right to report pertinent information to the appropriate administration if s/he feels that the student may be a danger to him/herself or others.

X. **ADA Statement:** Any student who requires special accommodations due to a documented disability under the provisions of the American with Disabilities Act should contact the District Coordinator the first week of class.

XI. **Course Calendar**
Week 1  Introduction to course; Scientific Thinking
Week 2  Scientific Thinking
Week 3  Chemistry
Week 4  Chemistry; **EXAM 1**
Week 5  Cells
Week 6  Cells; Energy
Week 7  Energy
Week 8  Energy; **EXAM 2**
Week 9  DNA
Week 10  DNA
Week 11  Cell Division
Week 12  Cell Division; **EXAM 3**
Week 13  Inheritance
Week 14  Natural Selection
Week 15  Evolution; **EXAM 4**
Week 16  (Finals Week)  **Comprehensive Final Exam (Optional)**
XII. **Smoking and eCigarettes:** Smoking or other use of tobacco products and use of electronic cigarette devices is prohibited in all Howard County Junior College district facilities and vehicles.

XIII. **Additional Information:**

**Classroom/Lab Etiquette:**
- Common courtesy will be expected in the classroom and lab.
- Cell phones and other electronics will remain out of sight and turned off.
- **DO NOT TEXT IN CLASS.** (Texting is a good way to make the instructor think you are cheating!)
- Please refrain from personal conversations when the instructor is talking.
- **No visitors** are allowed.
- Tape recording of lectures and labs is allowed with the permission of the instructor.

**DROPPING:** Dropping a class is the sole responsibility of the student. You must fill out the proper paperwork at the front office to officially withdraw from the course (drop). Refund schedule available at the Howard College website. If you are considering dropping this course please schedule a visit with the instructor.

  Instructor reserves the right to modify this syllabus at any time during the semester.