**BIO 1410**

**Human Biology (3-3)**

### Student Learning Outcomes and Nature of the Course

Welcome to Human Biology! In this course we will investigate how the human body works and see some of the common ways in which the operation of its major systems can be impaired. We will also explore how knowledge of human biology has been obtained through the scientific process. This is a course designed for students who are not biology majors or minors!

This course is part of the ASU core. The learning outcomes, assignments/general activities, and assessments are identified below.

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| **Course Level Learning Outcomes** | **Proposed 2014 Core Assignments/General**  **Learning Activities for the Core Objectives** | **Proposed 2014 Core Assessments** |
| **Bio 1410**  **CT1:** Students will gather, analyze, interpret and evaluate biological data.  **CS1:** Students will communicate information via written means on lab activities and projects.  **EQS1:** Students will collect and analyze quantitative data  **EQS2:** Students will make observations to test a hypothesis and generate conclusions based on their observations.  **TW2:** Students will work together on applied learning activities and collaborate with one another to support course goals. | **BIO 1410**  **CT1:** Students will conduct experiments in the lab, gather data and then analyze their results  **CS1:** Conduct lab experiments and communicate their findings in writing to each other and their instructor  **EQS1:** Students will take measurements as part of a lab experiment, analyze the data and generate conclusions.  **EQS2:** Students will make directed observations, gather data and then analyze their results  **TW2:** Students will conduct experiments in the lab in groups, gather data and then analyze their shared results | **BIO 1410**  **CT1 & CS1:** Analysis and conclusions will be assessed with a rubric  **CS1:** Analysis and conclusions will be assessed with a writing rubric  **EQS1-2:** Analysis and conclusions will be assessed with a rubric and quiz questions  **TW2:** Assessed using peer evaluations or embedded questions on their functioning as a team |

The learning outcomes for the course include:

1. Identify the components of the scientific method,
2. Characterize the strengths and weaknesses of the scientific process,
3. Identify the components and functions, normal and abnormal, of the major systems of the human body,
4. Explain how structures are related to function,
5. Identify the components and mechanisms of inheritance,
6. Demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies,
7. Describe the evolution of primates.

### Student Responsibilities

* Know the pertinent information about the class, including the name of the class, the course number, the instructor's name, the meeting time and location, and the dates of all examinations, lab activities, and other class activities and assignments.
* Keep a copy of the syllabus and schedules and refer to them frequently.
* Be prepared for class and lab (i.e. pencil, pen, notebook, textbook, a printed copy of the lab exercise, completed homework assignments; review previous information).
* Read all assignments, including on-line materials.
* Retain all class materials until final grades are in and any grade dispute has been settled.
* Study lecture material each day; you are finished when you understand the material and have command of special vocabulary.
* Leave no questions unanswered.
  + Look up definitions of unknown terms (textbook glossary and index; Google)
  + Read corresponding information in your textbook.
  + Ask me if you remain confused or uncertain about a topic.
* Know the grading policy well enough to accurately estimate your own grades and know the status of your performance throughout the semester.

### Attendance and Class Protocols

Attendance:

I will take roll each class period. You are expected to attend **all** scheduled class meetings. You are expected to arrive on time and stay for the entire period. If you arrive to class late (i.e. after I have taken roll), it is your responsibility to tell me at the end of that class period that you were present. **If you have no more than one absence, I will add 1 point to your final average**.

A student who intends to observe a religious holy day should make that intention known in writing to the professor prior to the absence. “Religious holy day” means a holy day observed by a religion whose places of worship are exempt from property taxation under Texas Tax Code 11.20. A student absent from classes for the observance of a religious holy day shall be allowed to complete work scheduled for that day within a reasonable amount of time as set forth by the professor.

Class Protocols:

Be an active participant in class and lab. Feel free to ask questions, share knowledge, and contribute to the course!

Please silence your phones and put them away before class begins. No cell phone use is allowed during lecture or lab. I will ask you to leave the classroom if I see you using your phone during lecture. If you use your cell phone during an exam, you will receive a zero on the exam. You may use a computer/tablet during lecture presentations; however, while in class it must be used **only** for

Human Biology lecture related activities (i.e. no internet surfing, no emailing, no Facebooking, no Tweeting, etc.). If I discover you using the device for other purposes, you will no longer be allowed to use it during class.

During the first week of class, you can select where in the classroom you wish to sit. Once selected, this is your required seat for the semester. If you discover that you do not like your location, let me know and I will try to find you another seat. I will use the seating chart to check roll so it is imperative you sit in your assigned seat each class period; if you are not in your assigned seat, you will be counted absent.

### Lecture Activities

Lectures:

Lectures will usually be based on PowerPoint presentations. The presentations will be available to you on Blackboard: Human Biology Lecture usually before the corresponding lecture, or shortly afterwards. The presentations will not include all of the information discussed in class and will not provide a substitution for attending lecture, paying attention in class, or taking good notes.

Reading Assignments, Homework, In-Class Exercises, Quizzes:

You will have reading assignments for every lecture. In addition, you will often be assigned homework, either on Blackboard or to turn in during class. The objective of these assignments are to help you learn the information we are covering in lecture and to help you be better prepared for exams. A due date will be included with all assignments; you are always welcome to complete or turn in assignments early but NO late papers will be accepted. You will receive a zero for homework or quizzes not submitted by the deadline. In-class activities and quizzes may not be made up; you will get a zero if you are not present to participate. Extra credit or bonus assignments will be available to mitigate points lost from excused absences or an infrequent poor performance.

### Exams and Grading

Exams:

There will be four lecture exams. Exams 1-3 will emphasis the information presented since the last exam, or in the case of exam 1, since the beginning of the semester; however, some information form previous exams may be included since human systems are closely integrated and are often impacted by changes in other systems. Since we have only 50 minutes to take exams 1-3, it will be impossible for you to have time to complete an exam that includes questions over every detail and topic we cover in class. I will have questions over as many topics as I can and still have an exam that can be completed in the time allotted. To be prepared, you must study all of the information covered; if you can successfully answer the questions on the exam, I can assume you also know the information that was not included on the exam. The dates for each exam are noted on the attached schedule. You must bring a #2 pencil to each exam; scantrons will be provided.

You can select from two choices for the Final Exam.

* Final Exam Option 1: you can take an exam similar to the other three exams in which the primary emphasis of the questions is on the material presented since Exam 3. If you select this option, you cannot use the score from this exam to replace a lower exam score or a missing exam score.
* Final Exam Option 2: You can take a comprehensive final exam that will include both the questions from the Option 1 Final Exam AND questions over material presented throughout the semester. Your score on this exam can be used to replace a lower exam score on Exam 1, Exam 2, or Exam 3 or the score can be used to replace a missing exam score.

Make-Up Exams:

* Missing an exam is a very serious matter. If you miss an exam and have a documented ASU legitimate excuse (i.e. personal illness, death in your family, university sponsored event), you must notify me, preferably, before the exam or very promptly afterwards (i.e. same day). Under these circumstances, and if the post-exam review has not yet been given, I will allow you to take a

make-up exam.

* If you miss one of the first three exams for an unexcused absence or do not notify me promptly or if you notify me after the post-exam review, you must take the Option 2 Final Exam; the score from this exam will then be used as a substitute grade for the missed exam. For example, if your exam scores for exams 1-3 are 90, 0, 80 and you make a 75 on the comprehensive final, the 0 will become a 75.
* You will only be allowed to “make-up” one exam during the semester by substituting it with a grade from your final exam.

Grades and Grade Calculations:

Your course grade will be calculated from your scores in lecture and lab. Your lecture grade counts 75% of your final grade; your lab grades count 25% of your final grade. Grades for both lecture and lab will be posted on Blackboard. You can calculate your grade any time during the semester by using the Excel spreadsheets available on Blackboard (under the Syllabus/Schedule tab).

Lecture Grades:

Exam 1 100 points

Exam 2 100 points

Exam 3 100 points

Final Exam 100 points

Average of all homework assignments and quizzes 100 points To calculate your overall lecture average, average the five scores listed above.

## Lab Grades:

Each lab exercise will be worth 100 points (some combination of points from a pre-lab quiz, lab exercises, and a post-lab quiz). You will have 11 100-point labs plus a 12th lab also worth 100 points; your score on your 12th lab can be used to replace a lower lab grade. To calculate your lab average, average the scores for the 11 labs (remember to replace your lowest score with your score from the 12th lab).

## Course Grade

To calculate your final grade in the course, take your lecture average (which constitutes 75% of your course grade) and multiple it by 75% (Example: final lecture average of 88 = 88 x .75 = 66.0). Since your lab grade is worth 25% of your course grade, take your lab average and multiple it by 25% (Example: final lab average of 92 = 92 x .25 = 23.0). Then add the two numbers together (Example: 66 + 23 = 89.0). This sum and the following chart will determine your final course grade. The example figures would mean the student earned a B in the course (if the student had no more than one absence in lecture, 1 point would be added to bring the final tally to 90 points and an A in the course!).

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| **Grade** | **Number of Points** | **Grade Meaning** |
| A | 89.5-100 | Excellent |
| B | 79.5-89.4 | Good |
| C | 69.5-79.4 | Average |
| D | 59.5-69.4 | Poor |
| F | 59.4 and below | Failure |

**No extra credit work or points will be given to individual students nor will a curve be used to calculate final grades.**

### Withdrawal From the Course

You are not automatically withdrawn from a course if you stop attending. If you stop attending and do not formally withdraw, I am required to submit a grade for you. This “F” cannot be removed, although ASU does allow a higher grade to replace the “F” for GPA calculations. This semester the deadline for dropping a course or withdrawing from the university is October 31st.

### ASU Honor Code and Academic Dishonesty

Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is contained in both print and web versions of the Student Handbook ([http://www.angelo.edu/cstudent/).](http://www.angelo.edu/cstudent/)) The penalty for ANY act of dishonesty in this class, including any form of cheating or plagiarism: 1) is a grade of ZERO on the assignment and, 2) disciplinary action as warranted in accordance with university guidelines and my interpretation of the seriousness of your indiscretion. Cheating will not be tolerated in this course. It is your responsibility to display proper behavior so that you will be held above reproach. If you have **any** question concerning what constitutes dishonest behavior, ask me **before** engaging in the behavior.

### Special Needs

Persons with disabilities that may warrant academic accommodations must contact the Student Life Office, Room 112 University Center, in order to request and to implement academic accommodations. You are encouraged to make this request early in the semester so that appropriate arrangements can be made.