

Human Biology- Bio 1408 Syllabus

Instructor

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Office Location

BHS Rm.

Office Hours

M-F 9:30-10:10

Course Overview

This course is a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction

Required Text

Holes Essentials of Human Anatomy 13ed

Student Learning Outcomes

Upon completion of this course the students will have developed the following skills pertinent to this specific course:

1. Distinguish between prokaryotic, eukaryotic, plant and animal cells, and identify the major cell structures.
2. Identify the stages of the cell cycle, mitosis (plant and animals), and meiosis.
3. Interpret result from cell physiology experiments involving movement across membranes, enzymes, photosynthesis, and cellular respiration.
4. Apply genetic principles to predict the outcome of genetic crosses and statistically analyze results.
5. Describe karyotyping, pedigrees, and biotechnology and provide an example of the uses of each.
6. Identify the parts of a DNA molecule and explain replication, transcription and translation.
7. Analyze evidence for evolution and natural selection.

In addition to these content-driven learning outcomes the students will also develop these principal educational proficiencies:

1. Gather, analyze, interpret and evaluate data from lab experiments.
2. Communicate information via written means on lab activities and projects
3. Take measurements as part of a lab exercise and they will analyze that data to generate conclusions
4. Make observations to test a hypothesis and generate conclusions based on these observations
5. Work together on applied learning activities and collaborate with each other to support the outlined course goals.

Attendance

Because this is a dual credit course, the students are held to the attendance policy set forth by the Llano Independent School District and the State of Texas for high school students. The policy is as follows.

Regular school attendance is essential for a student to make the most of his or her education – to benefit from the teacher-led and school activities, to build each day’s learning on the previous day’s, and grow as an individual. Absences from class may result in serious disruption of a student’s mastery of the instructional materials; therefore, the student and parent should make every effort to avoid unnecessary absences.

COMPULSORY ATTENDANCE – State law requires that a student between the ages of six and 18 attend school, as well as any applicable accelerated instruction program, extended year program, or tutorial session, unless the student is otherwise excused from attendance or legally exempt.

EXCESSIVE ABSENCES -Absenteeism, whether for excused or unexcused reasons, deprives the student of the experience of participating in classroom activities. It should be understood by both parent and 14 student that, in truth, a class period cannot be "made up". Although assignments done in lieu of class attendance meet the legal requirements for make-up work, such assignments are only a poor substitute for the learning experience the student gains by attending class in person. There is no way to "repeat" a classroom experience missed. Students must be in attendance at least 90% of the days the class is offered to obtain credit in each course. The board of trustees will appoint a committee to hear the petitions of students who are in attendance fewer than 90% of the days the class is offered. This committee may give class credit to a student who is in attendance fewer than 90% of the days the class is offered because of extenuating circumstances. The board of trustees will establish guidelines to determine what constitutes extenuating circumstances, subject to rules adopted by the State Board of Education, and shall adopt policies establishing ways for students to make up work or regain credit lost because of absences for extenuating circumstances.

MAKE-UP WORK- When a student is absent, it is their responsibility, and not the teacher's to make arrangements for make-up work. Time allowed for make-up work may be determined by the teacher and should be completed within five (5) school days except in very unusual circumstances. If a student is absent and does not ask for make-up assignments, a zero may be given for work missed.

Grading Policies

Grades will be based on the following factors.

Major (50%)

Unit Tests

Formal Labs

Lab Practical or Projects

Minor (50%)

Daily Assignments

Homework

Short Labs

There will be 6 unit tests as well as the semester or final exam. Each of these exams will include information presented in class AND assigned readings from your textbook. These assessments will be comprehensive, meaning that they will include information presented at any time during the course. This is unavoidable because many of the early topics serve as a foundation to be built upon and developed as the courses advances

Final Grade Calculation:

Your final grade in this course will be determined by the average of each marking period and your semester test. This means each marking period counts one-quarter as does your final exam. Your laboratory grades will be incorporated into the individual marking period grades.

Your semester grade will be determined using the scale

90 – 100% = A
89 – 89% = B
70 – 79% = C
60 – 69% = D
<60% = F

Course Schedule

Unit 1 Cells and Tissues Ch. 40

Unit 2 Biochemistry and Digestive System Ch. 4, 5, & 41

Exam 1

Unit 3 Respiration and Gas Exchange Ch. 42

Exam 2

Unit 4 Blood (including Cell Cycle) Ch. 42 & Ch.12

Unit 5 Circulation Ch. 42

Exam 3

Unit 6 Excretory System Ch. 44

Unit 7 Immune System Ch. 42

Exam 4

Unit 7 Nervous System Ch. 48

Unit 8 Endocrine System Ch. 46

Exam 5

Unit 9 Reproduction (including Genetics) Ch. 46, 13 &14

Unit 10 Human Evolution – Ch. 32

Exam 6

Review and Semester Test

Student Disability Services

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA), and subsequent legislation. The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student's responsibility to initiate such a request by contacting:

Ms. Dallas A. Swafford
Director of Student Disability Services
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center

Title IX Statement

Angelo State University is committed to the safety and security of all students. If you or someone you know experience sexual harassment, sexual assault, domestic or dating violence, stalking, or discrimination, you may contact ASU's Title IX Coordinator:

Michelle Nicole Boone, J.D.
Director of Title IX Compliance 2
Michelle.boone@angelo.edu
325-486-6357
Mayer Administration Building 204

Student Absence for Observance of Religious Holy Days

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

Student Conduct Policies

Academic Integrity Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

Plagiarism

Plagiarism is a serious topic covered in ASU's Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else's work, idea, etc., and passing it off as one's own. Plagiarism is literary theft. In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list. Papers are subject to be evaluated for originality via Turnitin. Resources to help you understand this policy better are available at the ASU Writing Center.

Copyright Policy

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