OVERVIEW and LEARNING OUTCOMES: Welcome to Human Physiology! This is a science course about the study of the normal functions of cells, tissues, organs, and organ systems of the human body. It serves a variety of academic majors and I will do my best to accommodate special interest topics in each discipline. While the specifics of content will vary depending on the needs of the participants, we will be aiming at the following goals to help prepare you for a career in your field. Today, we know more about the body than ever before and this will be fascinating semester as you discover knowledge of the human body!

A successful student in human physiology should be able to achieve the following course and state core related student learning outcomes:

− describe and explain the normal function of the cells, tissues, organs and organ systems of the human body to help prepare you for a career in your chosen field (knowledge and comprehension)

− connect what you are learning to your own field (i.e. to make physiology relevant to your own academic endeavors)

− apply what you have learned to evaluate various case studies, analyze controversial topics, and to solve problems relevant to physiology and to your field (i.e. learn how to ask questions, work with others, and apply information you have learned in different situations).

− locate, identify, and functionally describe the structures of the human body at all levels of organization =CT1, EQS1, EQS2 – assessment = in class activities, lecture exams, embedded test questions, lab practical exams, and lab activities/reports

− develop understanding of the functional relationships of anatomical structures to one another in health and communicate the acquired knowledge in written form =CS1 – assessment = in class activities, lecture exams, embedded test questions, lab practical exams, and lab activities/reports

− perform laboratory investigations in which numeral physical and chemical physiological data pertaining to tissue function are collected, classified, and analyzed in order to reach an informed conclusive interpretation about relevant clinical scenarios and “real world” applications. EQS1 – assessment = in class activities, lecture exams, embedded test questions, lab practical exams, and lab activities/reports

− work effectively with others to support and accomplish a shared goal = CS1, TW2 – assessment = in class activities, lecture exams, embedded test questions, lab practical exams, and lab activities/reports.

How do I achieve these objectives?

Physiology requires a deeper conceptual understanding of the material rather than simple memorization of facts that you may have learned in anatomy. It is essential that you: attend class, come prepared, study every day, and practice self-assessment often.
CLASS PREPARATION: I will provide all lecture notes, outlines, handouts, and activities. In lecture I will clarify many, but not all of the concepts you are required to know. Therefore much of your learning will occur outside of the formal class meetings. Educational research tells me that learning outside of class is more effective than learning that occurs in class. Therefore to achieve these goals and maximize your learning, it is vital you attend class and come prepared. This means reading the assigned chapters BEFORE CLASS, completing assignments, reading the on-line notes, taking additional notes, and completing lab activities in the manual before lab. This means it is largely your responsibility to learn the material presented, read the text, and complete the assignments on your own. This requires you to possess a positive attitude toward learning and a serious commitment to studying outside of class every day, especially within 24 hours of class or lab. It also means participating in activities vital to the concept being taught that day to enhance the teaching of a particular subject. In other words don’t expect to learn just by sitting and listening in lecture. While this will enhance your learning, you must take an active role in your own learning by practicing every day. As a member of the class you are also:

- expected to attend and be prepared for all lecture and lab meetings.
- required to follow all directions/instructions both written and spoken.
- invited to ask questions (at the proper time of course), no matter how naive they seem to you. There are probably at least two other folks who have the same question. The only stupid question is one that isn’t asked.
- encouraged to ask for help and/or clarification. Don’t suffer in silence. I can’t help you learn if I don’t know you’re confused or if my instructions are unclear.

WHAT YOU NEED TO STUDY: Simply stated, these are the things you need to work on EVERY DAY. Start by organizing all your materials and making a study plan. Then implement and stick to it. See me if you need help.

FOR LECTURE:
- Power Point Presentations
- Class notes & activities (notes, clinical applications, & activities we actually do in class)

FOR LAB:
- Lab Exercises and Assignments (includes Case Studies)
- Open Lab

COURSE MATERIALS:

- Colored pens, pencils, or markers are helpful for your assignments and taking notes.
- Notebook/iPad/Laptop
- Calculator for simple math functions

INTERNET ACCESS IS REQUIRED for this course. Lecture and lab materials will be distributed routinely via the internet on Google Classroom. In addition to many lecture and lab resources, there are many study tips and strategies that you may find useful in your studies.

- You are required to have a Google Classroom account and an official ASU/Mason email address. I will use these to make announcements, distribute materials (lecture notes, outlines, handouts) and post grades. Please visit the site regularly.
**GRADE DETERMINATION:** Your grade will be based on the percentages you earn on assignments and exams in both lecture and lab. Final grades are assigned according to the following scale:

<table>
<thead>
<tr>
<th>Course Component</th>
<th>Maximum Points Available</th>
<th>Grading Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classwork, Homework, Quizzes</td>
<td>30%</td>
<td>90 and above = A</td>
</tr>
<tr>
<td>Exams, Labs, Projects, Abstracts</td>
<td>70%</td>
<td>80-89 = B</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
<td>70-79 = C</td>
</tr>
</tbody>
</table>

**Please Note:** I do not curve exams or final grades nor are they negotiable. All students will be treated equally and fairly, and all grades will be calculated in the same way, regardless of extenuating circumstances or any reason not related to your actual performance in the course. However much I may sympathize with your personal circumstances, I never consider them to be a basis for grade assignments. The activity points serve as an extremely generous, built-in curve. I strongly encourage you to take advantage of the activity points when they become available because once assigned they cannot be made up. Therefore you should always attend class and strive to do your best, so that you may earn the grade you want. It is your responsibility to keep up with your grade.

**ASSESSMENT MEASURES:**

**Laboratory Exams:** Your lab performance will be assessed with exams and lab activities. These will be discussed in more detail on the first day of lab.

**Lecture Exams:** In lecture your performance will be assessed by lecture exams (see schedule) worth a total of 70% of your grade. You are required to take all exams, no exceptions. Lecture exams will assess your knowledge, comprehension, and application of the material presented in lecture and on-line notes, readings, or other in-class assignments made since the previous exam. The exams will also assess your application of the content in the form of problems that will be assigned in advance from your summary checklists and/or text. The format of all the exams may vary.

**Exam Days:** On exam days, you will need a couple of good #2 pencils with erasers. I will provide you with all other testing materials. You will also be expected to adhere to the following guidelines: Line up at the door as you enter, place your books, backpacks, purses, caps, etc. at the front of the room. If you have something of value that you’re concerned about, do not bring it on test day. Wear no hats or sunglasses. Electronic devices such as cell phones, MP3 players (iPods), tablets, laptops, recording devices, etc. are not allowed. You will not be allowed to carry your cell phone or pager, palm pilot, iPod, etc. during the exam. You must keep these devices with your belongings at the front of the room. If you have these or they go off during the exam, you will receive a ZERO for the exam in question and be dismissed from class. No talking is allowed once I begin to hand out the exam. You will also not be allowed to leave during the exam.

**Make-Up Exams:**

1. Lecture make-up exams will NOT be provided. This means there are NO make-up exams. No exceptions. 2. If you miss an exam (1, 2, or 3) for any reason, your final exam (exam 4) grade will be used to replace your missing exam grade. 3. You will only be allowed to “make-up” one exam during the semester by substituting your missing grade with your final exam grade. If you miss more than one exam for any reason, you will not pass this course.
4. Every student must take the final exam (exam 4). You will not pass the course if you do not take the final exam.

**Lecture Activities:** These serve as your built-in curve. The volume of material covered in this course makes it necessary for you to dedicate a sufficient amount of time each day, not only to attending class, but to studying material outside of class. To encourage you to keep up with this material and to provide a means of self-assessment, activity quizzes, activities, and assignments will be made periodically during the semester. These activity grades are the equivalent of a built-in curve equivalent to one full letter grade. Activity quizzes will cover material presented in lecture or from other sources and may be incorporated into each lecture exam. These quizzes will be announced in advance and taken in-class, out-of-class, or through Classroom. Other activities (TBA) such as take-home assignments or in-class activities may be assigned which form the basis of a quiz. These activities are designed to help you learn the material even better! While they can help improve your grade they do not make up for quality studying and good exam performance. Students who are not present for in-class lecture quizzes, activities, or assignments will not have the opportunity to make-up these points.

- Students who arrive late for class will not be given extra time to complete a quiz or assignment. In-class activity points cannot be made up.
- Online quizzes not completed by posted deadlines (no numerical grade is posted) will automatically receive a 0. Since these constitute activity points, they cannot be made up once given or assigned.
- Out of class assignments are considered late once class officially begins. Late take home assignments will be accepted with a point deduction.
- Again, these are your built-in curve and therefore we do not curve at the end of the semester. Please don’t wait till then to start being concerned about your grade.

**If you are absent for an extracurricular event(s), you must submit your assignments electronically when they are due or the day you return to school if it is a summative assignment. “I don’t know how to do this/I didn’t have time” is NOT an excuse for me to accept late work. Use tutorials or make after school arrangements to get your assignments completed and turned in on time.**

**Academic Honesty/Plagiarism/Cheating:** No form of academic dishonesty will be tolerated. Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding and following the ASU policies on academic dishonesty contained in both print and web versions of the Student Handbook. Students in this class are expected to submit work in accordance with the guidelines of academic honesty provided by the handbook and/or their instructor. The penalty for ANY act of academic dishonesty is a grade of ZERO on the assignment and disciplinary action as warranted by the university guidelines that includes dismissal from ASU.

**Angelo State University – Honor Code:** ASU expects its students to maintain complete honesty and integrity in all of their academic pursuits. Students are responsible for understanding and following the Academic Honor Code as outlined on the university’s web site and in the Student Handbook.

**Electronic devices** such as cell phones, pagers, iPods, etc. are not allowed to operate (i.e. ring/play/talk/text) during class. You will also NOT be allowed to carry them during quizzes or practical exams either. No exceptions.
<table>
<thead>
<tr>
<th>Week (approx.)</th>
<th>Topics in Approximate Order</th>
<th>Chapters</th>
<th>Labs/Activities</th>
</tr>
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<tbody>
<tr>
<td>Jan 14 (3rd)</td>
<td>Physiology, Organization, Feedback Systems and Homeostasis</td>
<td>1</td>
<td>Notebooks/Case Study</td>
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<tr>
<td>Jan 14</td>
<td>Cell Physiology: Biochemistry, Cells, and Cellular Function</td>
<td>2-3</td>
<td>Biomolecules Lab</td>
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<tr>
<td>Jan 22</td>
<td>Cell Physiology: Cell Cycle and Metabolism, Nutrition, Energy Balance</td>
<td>3, 24</td>
<td>Case Study</td>
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<td>Jan 28</td>
<td>Integumentary, Bones, Joints</td>
<td>5-8</td>
<td>Diseases and Conditions/Case Study</td>
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<td>Feb 4</td>
<td>Muscle Physiology</td>
<td>9-10</td>
<td>Diseases, Conditions/Case Study</td>
</tr>
<tr>
<td>Feb 11</td>
<td>Nervous System Physiology</td>
<td>11-14</td>
<td>Diseases, Conditions, Technology/Case Study</td>
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<tr>
<td>Feb 19</td>
<td>Special Senses</td>
<td>15</td>
<td>Vision Test, Taste Test, Labs</td>
</tr>
<tr>
<td>Feb 25</td>
<td>Endocrine System</td>
<td>16</td>
<td>Flow Charts, Diseases</td>
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<tr>
<td>Mar 4</td>
<td>Cardiovascular Physiology</td>
<td>17-19</td>
<td>Blood Typing, Vital Signs, Diseases, Conditions/Glucose Testing</td>
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<td>Mar 11</td>
<td>SPRING BREAK</td>
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<tr>
<td>Mar 18</td>
<td>Lymphatic and Immune Systems</td>
<td>20-21</td>
<td>Diseases, Conditions/Case Study</td>
</tr>
<tr>
<td>Mar 25</td>
<td>Lymphatic and Immune Systems</td>
<td>20-21</td>
<td>Diseases, Conditions</td>
</tr>
<tr>
<td>Apr 1</td>
<td>Respiratory Physiology</td>
<td>22</td>
<td>Lab/Case Study</td>
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<tr>
<td>Apr 8</td>
<td>Digestive Physiology</td>
<td>23</td>
<td>Case Study/ Glucose Testing</td>
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<tr>
<td>Apr 15</td>
<td>Urinary Physiology</td>
<td>25-26</td>
<td>Urine Testing Lab</td>
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<td>Apr 23</td>
<td>Reproductive Physiology</td>
<td>27-28</td>
<td>Interview Project</td>
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<tr>
<td>Apr 29</td>
<td>Pregnancy and Human Development</td>
<td>28</td>
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<tr>
<td>May 6</td>
<td>Final Exams</td>
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</table>
I,______________________________, (print your name) have read the information contained in the Biology 2424 Human Physiology syllabus for the Spring 2019 Semester at Angelo State University and fully understand the expectations, requirements, and regulations for completing this course successfully. In addition, I pledge to maintain the highest standards of academic honesty, integrity, and discipline while I am enrolled in this course.

I acknowledge that I understand and am responsible for the material contained in the syllabus.

SIGNATURE:____________________DATE: _____________________
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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
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

Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.
General Policies Related to This Course

All students are required to follow the policies and procedures presented in these documents:

- Angelo State University Student Handbook
- Angelo State University Catalog