

HSP 2102.D1Z

MTW 8am-9:50am

Human Anatomy and Physiology II
Lab

Summer II 2021



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Office: Archer Building 222B

Office Hours: By appointment only

Course Information

Course Information

Course Description

This course is a continuation of HSP 2101 and expands a comprehensive study of the anatomy and physiology of the human body with an emphasis on health and medical issues. Lab topics include, the endocrine system, cardiovascular and respiratory physiology, immunity, digestion, the urinary system, and the male and female reproductive systems.

Course Credits

(0-1-0)

Prerequisite and Co-requisite Courses

Prerequisites:

HSP 2301 "Human Anatomy and Physiology I Lecture"

HSP 2101 "Human Anatomy and Physiology I Lab"

Co-requisite:

HSP 2302 "Human Anatomy and Physiology II Lecture"

Student Learning Outcomes

Student Learning Outcome	Assignment(s) or activity(ies)
By completing all course requirements, students will be able to:	validating outcome achievement:
1. Identify the features and functions of the endocrine, cardiovascular, lymphatic, respiratory, immune, urinary, digestive, and reproductive systems.	Lectures, exams, in-class worksheets, Virtual Labs, and in class lab activities
2. Explain general bodily functions and develop an understanding of why these occur.	Lectures, exams, in-class worksheets, Virtual Labs, and in class lab activities
3. Differentiate among the primary types of structures located within each body system.	Lectures, exams, in-class worksheets, Virtual Labs, BodyViz, and in class lab activities
4. Identify common ailments, maladies, and conditions that can occur if body systems are not working correctly.	Lectures, and BodyViz
5. Define terminology that is associated with various systems	Lectures, exams, in-class worksheets, Virtual Labs, and in class lab activities

Course Delivery

Examples:

This is a face-to-face course with learning resources and supplemental materials posted in [Blackboard](#)¹.

Required Texts and Materials

Mckinley, MP, O'Loughlin, VD, Bidle, TS. Anatomy and Physiology: An Integrative Approach. McGraw Hill. 978-1-259-39862-9.

Will need to purchase access to McGraw Hill Connect online content

Technology Requirements

To successfully complete this course, students need this technology:

- A computer capable of running Windows 7 or later, or Mac OSX 10.8 or later
- The latest version of one of these web browsers: internet Explorer, Firefox, or Safari
- High Speed Internet Access

Communication

Faculty will respond to email and/or telephone messages within 24 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday.

Written communication via email: All private communication will be done exclusively through your ASU email address. Check frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line.

Grading

This course is graded strictly on points NOT percentages. The amount of points you earn determines your grade in the course. I DO NOT ROUND UP GRADES at the end of the semester. It is your responsibility to keep track of the total course points you have accumulated and take advantage of the bonus points available in the course.

ALL EXAMS ARE CLOSED BOOK IN CLASS EXAMINATIONS. THIS MEANS YOU ARE EXPECTED TO TAKE ALL EXAMS ON THE SCHEDULED DATE UNDER THE SUPERVISION OF THE INSTRUCTOR. ANY ABSENCE DURING A SCHEDULED TIME MUST BE DISCUSSED ON AN INDIVIDUAL BASIS WITH THE INSTRUCTOR PRIOR TO THE ABSENCE ON WHEN AND IF THE EXAM MAY BE MADE UP.

Evaluation and Grades

Course grades will be determined as indicated in the table below.

Assessment	Percent/Points of Total Grade
3 Exams (120 points each)	360
Final Exam	150
Virtual Labs (10 points each)	150
BodyViz Labs	140
Attendance	80
Lab Activities	120
Total	1000

Grading System

Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course:

A = 1000.00-900.00 points

B = 899.99-800.00 points

C = 799.99-700.00 points

D = 699.99-600.00points

F = 599.99-0 points (Grades are not rounded up)

Teaching Strategies

Students are expected to be “active learners.” It is a basic assumption of the instructor that students will be involved (**beyond the materials and lectures presented in the course**) discovering, processing, and applying the course information using peer-review journal articles, researching additional information and examples on the Internet, and discussing course material and clinical experiences with their peers.

Assignment and Activity Descriptions

Virtual Labs: 15 labs worth 10 points each for a total of 150 points

These physiology interactive lab simulations are designed to help you better understand different physiological concepts discussed this semester. There are 15 labs covered this semester. Each lab is worth 10 points for a total of 150 points. Each lab consists of an activity with an interactive quiz throughout the virtual lab. To receive all 10 points, you must complete the activity completely and correctly. Your score will automatically be updated to your BlackBoard page from Connect.

BodyViz Labs: 1 Intro (worth 20 points) and 8 system labs (worth 15 points each) for a total of 140 points.

These labs utilize the BodyViz software and provides an interactive way to view and understand key anatomical structures within the body. During class, you will be asked to complete an “in-class activity” that includes the use of an X-Box controller to identify different structures. You will also have associated BodyViz assignments on Blackboard that must be completed by midnight of the next lab day.

Lab Activities and In Class Worksheets: 120 points: There are 6 lab activities and 9 in-class worksheets throughout the semester. Full participation and completion of each activity and worksheet is worth 5-15 points each, towards your final grade. These points can NOT be made up if missed.

Assignment Submission

All assignments MUST be submitted through the Assignments link in the Blackboard site. This is for grading, documenting, and archiving purposes. Issues with technology use arise from time to time. If a technology issue does occur regarding an assignment submission, email me at cprocter@angelo.edu and attach a copy of what you are trying to submit. **Please contact the IT Service Center at (325) 942-2911 or go to your Technology Support tab to report the issue.**

This lets your faculty know you completed the assignment on time and are just having problems with the online submission feature in Blackboard. Once the problem is resolved, submit your assignment through the appropriate link. This process will document the problem and establish a timeline. Be sure to keep a backup of all work.

Late Work or Missed Assignments Policy

Late work will not be accepted unless you have received permission from the instructor prior to the due date. If you miss an assignment due to an unexcused absence, you are out of luck.

Show up for class!

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](#)²
- [Angelo State University Catalog](#)³

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.

The College of Health and Human Services adheres to the university's [Statement of Academic Integrity](#).⁴

Accommodations for Students with Disabilities

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.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student's responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the [Student Disability Services website](#).⁵ The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford
Director of Student Disability Services
Office of Student Affairs

325-942-2047

dallas.swafford@angelo.edu

Houston Harte University Center, Room 112

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](#)⁶ for more information.

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](#)⁷ for more information.

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.

Syllabus Changes

The faculty member reserves the option to make changes as necessary to this syllabus and the course content. If changes become necessary during this course, the faculty will notify students of such changes by email, course announcements and/or via a discussion board announcement. It is the student's responsibility to look for such communications about the course on a daily basis.

Title IX at Angelo State University

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Boone, J.D. You may submit reports in the following manner:

Online: www.angelo.edu/incident-form

Face to face: Mayer Administration Building, Room 210

Phone: 325-942-2022

Email: michelle.boone@angelo.edu

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

For more information about resources related to sexual misconduct, Title IX, or Angelo State's policy please visit: www.angelo.edu/title-ix.

Course Schedule

Date	Topic	Assignments	Ch.
7/12	Introduction / Syllabus	BodyViz Intro Virtual Lab- Tutorial (5 Bonus Points)	
7/13	Endocrine System	BodyViz Endocrine System (1-3) Glucose Testing Activity Virtual Lab- Effects of Blood Glucose Level Virtual Lab- Influence of TH on Temp Reg.	17
7/14	Cardiovascular System: Blood	Blood Typing Activity Virtual Lab- Blood Typing Virtual Lab- Differential WB Cell Count Virtual Lab- Hemoglobin Content	18
7/19	Cardiovascular System: Heart	BodyViz- Cardiovascular (1-6) Heart Dissection Lab Virtual Lab- Electrocardiography	19
7/20	Lab Exam 1 (120 Points)		17-19
7/21	Cardiovascular System: Vessels and Circulation	Blood Pressure Activity BodyViz- Cardiovascular (7-12; exclude 11) Virtual Lab- Blood Pressure (due 7/22) Virtual Lab- Pulse Rate (due 7/22)	20

Date	Topic	Assignments	Ch.
7/26	Lymphatic System/Immune	BodyViz- Lymphatic System (1-4) Virtual Lab-Antibiotic-Resistant Bacteria	21
7/27	Respiratory System	BodyViz- Respiratory System (1-5) Peak Flow Meter Activity Virtual Lab-Mechanism of Breathing Virtual Lab- Pulmonary Function Tests	23
7/28	Lab Exam 2 (120 Points)		20, 21, 23
8/2	Urinary System	BodyViz-Urinary System (1, 2, & 4) Urinalysis Activity Virtual Lab-Urinalysis	24
8/3	Digestive System	BodyViz- Digestive System (1-6) Virtual Lab-Enzymes and Digestion	26
8/4	Reproductive System	BodyViz- Reproductive System (1-3) Virtual Lab-Human Genetics- Chromosomal Inheritance During Meiosis (due 8/5) Virtual Lab-Genetic Inheritance (due 8/5)	28
8/9	Lab Exam 3 (120 Points)		24, 26, 28
8/10	Review for Final Exam		17-21, 23, 24, 26, 28
8/11	FINAL EXAM		17-21, 23, 24, 26, 28

Student Evaluation of Faculty and Course

Students in all programs are given the opportunity to evaluate their courses and the faculty who teach them. Evaluations are most helpful when they are honest, fair, constructive, and pertinent to the class, clinical experience, or course. Faculty value student evaluations, and use student suggestions in making modifications in courses, labs and clinical experiences.

Angelo State University uses the IDEA (Individual Development and Educational Assessment) system administered through Kansas State University for all course evaluations. The Office of Institutional Research and Assessment administers IDEA for the entire university, online and has established a policy whereby students can complete course evaluations free from coercion.

1. Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories)
2. Learning to apply course material (to improve thinking, problem solving, and decisions)

3. Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course
4. Learning how to find, evaluate, and use resources to explore a topic in depth
5. Learning to apply knowledge and skills to benefit others or serve the public good

End of Syllabus

¹ <https://blackboard.angelo.edu>

² <https://www.angelo.edu/student-handbook/>

³ <https://www.angelo.edu/catalogs/>

⁴ <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁵ <https://www.angelo.edu/services/disability-services/>

⁶ <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

⁷ <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>