

AT 6400 Human Anatomy and Diagnostic Imaging

Summer 2022



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Office Hours: By Appointment

Course Information

Course Description

A regional approach to the appreciation of human anatomy will be augmented with surface, clinical, plastination, and radiographic resources for musculoskeletal diagnosis and rehabilitation.

Course Credits

4

Prerequisite and Co-requisite Courses

Admitted into the MAT

Prerequisite Skills

Accessing Internet websites, using ASU Library resources, TechSmith Knowmia, and proficiency with Microsoft Word and/or PowerPoint are expectations of the AT 6400.

Program Outcomes

Upon completion of the Master of Athletic Training program, graduates will meet the educational competencies and clinical proficiencies necessary to be eligible for the Board of Certification.

Student Learning Outcomes

Student Learning Outcome By completing all course requirements, students will be able to:	Assignment(s) or activity(ies) validating outcome achievement:
Identify and explain the components of the integument system.	Chapter 1 Exam
Identify and explain the parts of the brain and how they function.	Chapter 13 Assignments and Exam
Identify and explain the parts of the spinal cord and how they function.	Chapter 2 Exam
Identify and explain the parts of the nervous system involving senses.	Chapters 1 and 10 Exams
Identify and structures of the heart and cardiovascular system.	Chapters 1 and 4 Exams
Identify and explain parts of the respiratory system.	Chapter 1 and 4 Exams
Identify and explain parts of the digestive system.	Chapter 5 Exams
Identify and explain the bones of the axial and appendicular skeleton.	Chapters 1, 2, 3, 7, and 8 Assignments and Exams
Identify and explain the muscles that compose the human body.	Chapter 1, 2, 3, 7, and 8 Assignments and Exams

CAATE Standards

PCL-72	Perform or obtain the necessary and appropriate diagnostic or laboratory tests—including (but not limited to) imaging, blood work, urinalysis, and electrocardiogram—to facilitate diagnosis, referral, and treatment planning.
PRE-54	The professional program requires prerequisite classes in biology, chemistry, physics, psychology, anatomy, and physiology at the postsecondary level.
PRE-55	Students must gain foundational knowledge in statistics, research design, epidemiology, pathophysiology, biomechanics and pathomechanics, exercise physiology, nutrition, human anatomy, pharmacology, public health, and health care delivery and payor systems

Course Delivery

This is a blended course offering. The course will be delivered via the Blackboard Learning Management System. The course site can be accessed at [ASU's Blackboard Learning Management System](#).

Required Texts and Materials

- Anatomy and Physiology: An Integrative Approach. McKinley, O'Loughlin, and Bidle. 2019. ISBN: 978-1-259-39862-9.
- Trail Guide to the Body. 6th Edition. Biel. 2019. ISBN: 978-0-9987850-6-6

Technology Requirements

To participate in one of ASU's distance education programs, you 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
- Microsoft Office Suite or a compatible Open Office Suite
- Adobe Acrobat Reader
- High Speed Internet Access
- Ethernet adapter cable required (wireless connections can drop during tests and Collaborate sessions)
- Webcam

Refer to Angelo State University's Distance Education website for further technology requirements: [Angelo State University's Distance Education Website](#)

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

Evaluation and Grades

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

Assessment	Points of Total Grade
Exam 1-5 (100 points each)	500
OIIA Quizzes 4 (50 points each)	200
Body Viz Quizzes (#1: 40 pts) (#2 and #3: 30 pts each)	100
Final Practical Exam	200
Total	1000

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 in the course.

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 points

B = 899.99-800 points

C = 799.99-700 points

D = 699.99-600 points

F = 599.99 points or less (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

Body Viz Lab Quizzes

- Quizzes will close at 11:59PM on the dates below. This is a closed book quiz. You may not use the assistance of another person to complete the quizzes. Each quiz has a 60-minute time limit but you may take the quizzes twice within the 60-minute time limit.

Exams 1-4 (Each exam is 150 points) and Exam 5 is 100 points

- All exams are closed book exams.
- Exams 1-4 students will access via Respondus Monitor and Lockdown Browser. The testing window for each of these exams will be open for 24 hours.
- Students will take Exam 5 on the last scheduled day of class

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 kristi.white@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](#)¹
- [Angelo State University Catalog](#)²

Student Responsibility and Attendance

It is the student's responsibility to be on time for class, participate in class discussions, and be actively engaged in the learning process. Instructions and assignments will often be given during class, therefore it is in your best interest to attend. If you have to miss class due to an unforeseen event/accident or illness, please contact the instructor prior to the start of class. Pending the reason for your absence, the instructor may inform you of any missed homework assigned during class. Not acceptable reasons for absences include but are not limited to: over sleeping, work, wanting to leave early or come back late from the weekend, and celebrating a

friend, relative or pet's birthday. If you are sick, let the instructor know and bring a physician's note when you come back to class.

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](#).³

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](#).⁴ 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](#)⁵ for more information.

Plagiarism

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)⁶ 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. Resources to help you understand this policy better are available at the [ASU Writing Center](#).⁷

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](#)⁸ 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 Miller, 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.miller@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.

Week/Date	In-Class Topic	In-Class Activities	Assignments Due
Wk1: June 6th Monday	<ul style="list-style-type: none"> ➤ Review Course Syllabus ➤ Chapter 1: Overview and Basic Concepts 	<ul style="list-style-type: none"> ➤ Review Movements, Planes ➤ Myotome Testing ➤ Dermatome Testing 	Review Head, Neck, & Face – Chapter 5 in Trail Guide
Wk1: June 7th Tuesday	<ul style="list-style-type: none"> ➤ Chapter 1: Overview and Basic Concepts ➤ Chapter 2: The Back 	<ul style="list-style-type: none"> ➤ Reflex Testing ➤ Palpation of the Cervical, Thoracic, and Lumbar Spine 	Review Spine and Thorax – Chapter 4 in Trail Guide
Wk1: June 8th Wednesday	<ul style="list-style-type: none"> ➤ Chapter 2: The Back 	<ul style="list-style-type: none"> ➤ Review MRI of Spine ➤ Review Activity 	MAT Pre-Test Due at 11:59 PM
Wk1: June 9th Thursday			
Wk1: June 10th Friday			<i>Exam 1 Due at 11:59 PM</i>
Wk1: June 11th Saturday			Review Shoulder & Arm – Chapter 2 Trail Guide
Wk1: June 12th Sunday			Review Forearm & Hand – Chapter 3 in Trail Guide
Wk2: June 13th Monday	<ul style="list-style-type: none"> ➤ Chapter 3: Upper Limb 	<ul style="list-style-type: none"> ➤ Palpation of the Shoulder, Elbow, Wrist, and Hand 	
Wk2: June 14th Tuesday	<ul style="list-style-type: none"> ➤ Chapter 3: Upper Limb ➤ Chapter 4: Thorax 	<ul style="list-style-type: none"> ➤ Palpation of the Shoulder, Elbow, Wrist, and Hand ➤ Palpation of Thoracic Cage 	
Wk2: June 15th Wednesday	<ul style="list-style-type: none"> ➤ Chapter 4: Thorax 	<ul style="list-style-type: none"> ➤ Review MRI of Upper Extremity 	<i>OIIA Quiz over the Spine Due at 11:59 PM</i>
Wk2: June 16th Thursday			MRI Body Viz Quiz 1

Wk2: June 17th Friday			<i>Exam 2 Due at 11:59 PM</i>
Wk2: June 18th Saturday			
Wk2: June 19th Sunday			Review Pelvis and Thigh – Chapter 6 in Trail Guide
Wk3: June 20th Monday	➤ Chapter 5: The Abdomen	➤ Abdominal Palpation	
Wk3: June 21st Tuesday	➤ Chapter 5: The Abdomen ➤ Chapter 6: The Pelvis and Perineum	➤ Review all Prior Palpation	
Wk3: June 22nd Wednesday	➤ Chapter 6: The Pelvis and Perineum	➤ Review MRI of the Pelvis	<i>OIIA Quiz over the UE Due at 11:59 PM</i>
Wk3: June 23rd Thursday			
Wk3: June 24th Friday			<i>Exam 3 Due at 11:59 PM</i>
Wk3: June 25th Saturday			
Wk3: June 26th Sunday			
Wk4: June 27th Monday	➤ Chapter 7: The Lower Limb	➤ Palpation of the Hip, Thigh, Knee, Leg, Ankle	
Wk4: June 28th Tuesday	➤ Chapter 7: The Lower Limb ➤ Chapter 8: The Head	➤ Palpation of the Hip, Thigh, Knee, Leg, Ankle ➤ Palpation of the Head and Face	
Wk4: June 29th Wednesday	➤ Chapter 8: The Head	➤ Palpation of the Head and Face ➤ Review MRI of the Lower Extremity and Head	<i>MRI Body Viz Quiz 2</i>
Wk4: June 30th Thursday			<i>OIIA Quiz over the LE Due at 11:59 PM</i>

Wk4: July 1st Friday			<i>Exam 4 Due at 11:59 PM</i>
Wk4: July 2nd Saturday			
Wk4: July 3rd Sunday			
Wk5: July 4th Monday	NO CLASS		
Wk5: July 5th Tuesday	<ul style="list-style-type: none"> ➤ Chapter 9 Neck ➤ Chapter 10 Cranial Nerves 	<ul style="list-style-type: none"> ➤ Cranial Nerve Testing 	Body Viz Quiz 3
Wk5: July 6th Wednesday	Exam 5	Practical Exam	<i>OIIA Quiz over the Facial Muscles Due at 11:59PM</i>

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.

Student Learning Outcomes

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. Acquiring skills in working with others as a member of a team.
5. Learning to apply knowledge and skills to benefit others or serve the public good

End of Syllabus

¹ <https://www.angelo.edu/student-handbook/>

² <https://www.angelo.edu/catalogs/>

³ <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁴ <https://www.angelo.edu/services/disability-services/>

⁵ <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

⁶ <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁷ https://www.angelo.edu/dept/writing_center/academic_honesty.php

⁸ <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>