AT 6400 Human Anatomy and Diagnostic Imaging
Summer 2020

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Office: Archer Building (HHS) 222E
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, accessing and using Connect and Body Viz, 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

<table>
<thead>
<tr>
<th>Student Learning Outcome</th>
<th>Assignment(s) or activity(ies) validating outcome achievement:</th>
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<tbody>
<tr>
<td>Identify and explain the components of the integument system.</td>
<td>Chapter 6 Assignments and Exam</td>
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<tr>
<td>Identify and explain the parts of the brain and how they function.</td>
<td>Chapter 13 Assignments and Exam</td>
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<tr>
<td>Identify and explain the parts of the spinal cord and how they function.</td>
<td>Chapter 14 Assignments and Exam</td>
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<td>Identify and explain the parts of the nervous system involving senses.</td>
<td>Chapter 16 Assignments and Exam</td>
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<td>Identify and structures of the heart and cardiovascular system.</td>
<td>Chapters 19 and 20 Assignments and Exam</td>
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<tr>
<td>Identify and explain parts of the respiratory system.</td>
<td>Chapter 23 Assignments and Exam</td>
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<tr>
<td>Identify and explain parts of the digestive system.</td>
<td>Chapter 26 Assignments and Exam</td>
</tr>
<tr>
<td>Identify and explain the bones of the axial and appendicular skeleton.</td>
<td>Chapter 8 Assignments and Exam</td>
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<tr>
<td>Identify and explain the muscles that compose the human body.</td>
<td>Chapter 11 Assignments and Exam</td>
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</table>

## CAATE Competencies

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<tr>
<th>PCL-72</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRE-54</td>
<td>The professional program requires prerequisite classes in biology, chemistry, physics, psychology, anatomy, and physiology at the postsecondary level.</td>
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<tr>
<td>PRE-55</td>
<td>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.</td>
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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

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.
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 = 1100.00-990 points
- B = 989.99-880 points
- C = 879.99-770 points
- D = 769.99-660 points
- F = 659.99 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

LearnSmart Assignments: 25 points each chapter for a total of 250 points

- Each chapter covered this semester has a LearnSmart assignment associated with it. Each assignment is worth 25 points. These assignments should be done individually and will take on average 60-90 minutes to complete. These questions will test your knowledge on the topics discussed in class and will refer you to readings in the text that
will help you better comprehend topics in the chapters that are challenging for you. No late assignments will be accepted and each assignment closes at 11:59 of the assigned date.

Body Viz Lab Quizzes
- Quizzes will close at 11:59PM on the dates below. You can use your notes or books when taking the quizzes, however you may not use the assistance of another person to complete the quizzes. Each quiz has a 30-minute time limit.

Blackboard Quizzes
- The quizzes on Blackboard are closed book exams. You will have to use Respondus Monitor when completing the quizzes. You will have 60 minutes to complete each quiz.

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 Handbook¹
- Angelo State University Catalog²
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
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.

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. Resources to help you understand this policy better are available at the ASU Writing Center.

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.

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.
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<tr>
<th>Week/Date</th>
<th>Topic</th>
<th>Assignments DUE</th>
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| **Week 1:** June 15-June 21 | Welcome!  
- Review Course Syllabus  
- Chapter 13 The Brain and Cranial Nerves  
- Chapter 14 The Spinal Cord and Sensory Nerves  
- Chapter 16 Nervous System Special Senses | Chapter 13 Lecture Video – June 16<sup>th</sup>  
Chapter 13 LearnSmart – June 17<sup>th</sup>  
Chapter 14 Lecture Video – June 18<sup>th</sup>  
Chapter 14 LearnSmart – June 19<sup>th</sup>  
Chapter 16 Lecture Video – June 20<sup>th</sup>  
Chapter 16 LearnSmart – June 21<sup>st</sup>  
Quiz 1 – June 21<sup>st</sup> |
| **Week 2:** June 22- June 28 | • Chapter 19  
• Chapter 20  
• Chapter 23  
• Chapter 26 | Chapter 19 Lecture Video – June 22<sup>nd</sup>  
Chapter 19 LearnSmart – June 22<sup>nd</sup>  
Chapter 20 Lecture Video – June 23<sup>rd</sup>  
Chapter 20 LearnSmart – June 24<sup>th</sup>  
Chapter 23 Lecture Video June 25<sup>th</sup>  
Chapter 23 LearnSmart – June 26<sup>th</sup>  
Quiz 2 – June 27<sup>th</sup>  
Chapter 26 Lecture Video - June 28th  
Chapter 26 LearnSmart – June 28<sup>th</sup> |
| **Week 3:** June 29 – July 1 | • Chapter 6 | Chapter 6 Lecture Video - June 29<sup>th</sup>  
Chapter 6 LearnSmart – June 30<sup>th</sup>  
Body Viz Quiz – July 1<sup>st</sup>  
Quiz 3 – July 1<sup>st</sup> |
| **Week 4:** July 27-August 2 | • Chapter 8  
• Chapter 11  
• Head, Cervical Spine, and Upper Extremities –  
  o Shoulder & Arm – Chapter 2  
  o Forearm & Hand – Chapter 3  
  o Head, Neck, & Face – Chapter 5 | Chapter 8 Lecture Video – July 28<sup>th</sup>  
Chapter 8 LearnSmart – July 29<sup>th</sup>  
Chapter 11 Lecture Video – July 30<sup>th</sup>  
Chapter 11 LearnSmart – July 31<sup>st</sup>  
Body Viz Quiz – August 2<sup>nd</sup>  
Quiz 4 – August 2<sup>nd</sup> |
| **Week 5:** August 3- August 9 | • Chapter 8  
• Chapter 11  
• Spine, Thorax, and Lower Extremities –  
  o Spine and Thorax – Chapter 4  
  o Pelvis and Thigh – Chapter 6  
  o Leg and Foot | Body Viz Quiz – August 9<sup>th</sup>  
Quiz 5 – August 9<sup>th</sup> |
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<th>Week/Date</th>
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<tbody>
<tr>
<td>Week 6:</td>
<td>Final Practical Exams</td>
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<td>August 10-14</td>
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* all due times are 11:59 pm CST, unless otherwise specified

**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**

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1. [https://www.angelo.edu/student-handbook/](https://www.angelo.edu/student-handbook/)
2. [https://www.angelo.edu/catalogs/](https://www.angelo.edu/catalogs/)
4. [https://www.angelo.edu/services/disability-services/](https://www.angelo.edu/services/disability-services/)
5. [https://www.angelo.edu/content/files/14197-op-1011-grading-procedures](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