

AT 6318

Pharmacological Aspects in Athletic Training



Instructor: Chelsea Procter-Willman and Dr. Kristi White

Email: chelsea.procter@angelo.edu and kristi.white@angelo.edu

Phone: 325-486-6423 and 325-486-6179

Office: Archer Building (HHS) 222B and 222E

Office Hours: by appointment

Course Information

Course Description

This course provides basic principles of pharmacology used by athletic trainers in clinical practice.

Course Credits

3

Prerequisite and Co-requisite Courses

AT 6405

Competencies Evaluated in this Course

Competencies	Assignment(s) or activity(ies) validating outcome achievement:
PCL-74 Educate patients regarding appropriate pharmacological agents for the management of their condition, including indications, contraindications, dosing, interactions, and adverse reactions.	Examination, Case Study, and Quiz

Competencies	Assignment(s) or activity(ies) validating outcome achievement:
PCL-75 Administer medications or other therapeutic agents by the appropriate route of administration upon the order of a physician or other provider with legal prescribing authority.	Examination, Case Study, and Quiz
PCL-75 Regulations pertaining to over-the-counter and prescription medications	Examination, Case Study, and Quiz

- Note:
 - EBP – Evidence-Based Practice
 - HCA – Health Care Administration
 - HCI – Health Care Informatics
 - IPE – Interprofessional Practice and Interprofessional Education
 - PCC – Patient-Centered Care
 - PCL – Patient Client Care
 - PHP – Prevention, Health Promotion, and Wellness
 - PRE – Prerequisite Coursework and Foundational Knowledge
 - PRO – Professionalism
 - QIM – Quality Improvement

Course Delivery

This is a face-to-face and online course with learning resources and supplemental materials posted in Blackboard.

Required Texts and Materials

- Harrelson, G.L., Houglum, J.E., & Seefeldt, T.M., Principles of Pharmacology for Athletic Trainers, 3rd Edition. Slack 978-1-61711-929-3

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](#)

Topic Outline

Date	Topic	Assignments
3/30/2022	Explanation of Syllabus and Assignments	
3/31/2022	Chapter 1 - Introduction to Pharmacology Chapter 2 – Pharmacokinetic Principles	Chapter 1 Quiz Due 4/1 at 11:59pm Chapter 2 Quiz Due 4/3 at 11:59pm
4/4/2022	Case Study 1 and 2 Discussion	Case Study 1 and 2 due by 12:00pm on 4/4
4/5/2022	Chapter 3 – Pharmacodynamic Principles	
4/6/2022	Case Study 3 Discussion	Chapter 3 Quiz Due 4/6 at 11:59pm Case Study 3 due by 12:00pm on 4/6
4/7/2022	Chapter 4 - Medication Management in ATF Chapter 5 – Treating Infections Case Study 4 and 5 Discussion	Case Study 4 and 5 due by 12:00pm on 4/7 Chapter 4 Quiz Due 4/8 at 11:59pm Chapter 5 Quiz Due 4/10 at 11:59pm
4/11/2022	Chapter 6 – Treating Inflammation	Chapter 6 Quiz Due 4/11 at 11:59pm
4/12/2022	Case Study 6 Discussion Chapter 7 – Treating Pain	Case Study 6 due by 12:00pm on 4/12
4/13/2022	Chapter 7 - Treating Pain	Chapter 7 Quiz Due 4/13 at 11:59pm
4/14/2022	Chapter 8 – Relaxing Skeletal Muscle Case Study 7 and 8 Discussion	Case Study 7 and 8 due by 12:00pm on 4/14 Chapter 8 Quiz Due 4/15 at 11:59pm
	Midterm Exam	Opens on 4/15/2022 at 12:00am Due 4/17/2022 11:59pm
4/18/2022	Chapter 9 -Treating Asthma	
4/19/2022	Chapter 9 -Treating Asthma	Chapter 9 Quiz Due 4/19 at 11:59pm
4/20/2022	Case Study 9 Discussion	Case Study 9 due by 12:00pm on 4/20
4/21/2022	Chapter 10 – Treating Colds and Allergies Chapter 11 – Treating Gastrointestinal Disorders	Chapter 10 Quiz Due 4/22 at 11:59pm Chapter 11 Quiz Due 4/24 at 11:59pm
4/25/2022	Case Study 10 and 11 Discussion	Case Study 10 and 11 due by 12:00pm on 4/25
4/26/2022	Chapter 12 – Treating Hypertension and Heart Disease	

4/27/2022	Case Study 12 Discussion	Case Study 12 due by 12:00pm on 4/27 Chapter 12 Quiz Due 4/27 at 11:59pm
4/28/2022	Chapter 13 – Treating Psychiatric Disorders Chapter 14 – Treating Diabetes Mellitus	Chapter 13 Quiz Due 4/29 at 11:59pm Chapter 14 Quiz Due 5/1 at 11:59pm
5/2/2022	Case Study 13 and 14 Discussion	Case Study 13 and 14 due by 12:00pm on 5/2
5/3/2022	Chapter 15 - Herbal and Fitness Supplements	
5/4/2022	Case Study 15 Discussion	Case Study 15 due by 12:00pm on 5/4 Chapter 15 Quiz Due 5/4 at 11:59pm
5/5/2022	Chapter 16 – Performance-Enhancing Drugs Chapter 17 – Drug Testing in Sports Case Study 16 and 17 Discussion	Case Study 16 and 17 due by 12:00pm on 5/5 Chapter 16 Quiz Due 5/6 at 11:59pm Chapter 17 Quiz Due 5/8 at 11:59pm
5/12/2022	Final Exam opens on 5/10 at 12:00AM and closes on 5/11 at 11:59pm	

Communication

Faculty will respond to email and/or telephone messages within 48 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	Percent of Total Grade
Quizzes 25 points each x 17	425
Case Studies 25 points each x 9	225
Pharmacology Project	100
Midterm Exam	100
Final Exam	150
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 = 900 - 1000

B = 800 - 899.99

C = 700 - 799.99

D = 600 - 699.99

F = 0 - 599.99 (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

Quizzes: 17 Chapter Quizzes 25 points each = 425 Points

Quizzes will close at 11:59 PM on the assigned days. You can use your notes or books when taking the quizzes; however, you may not use another person's assistance to complete the quizzes. Each quiz has a 60-minute time limit. No Late quizzes will be accepted.

Case Studies: 9 at 25 points each = 225 points

The student will reflect on the case study at the end of each chapter. The reflection will be between 3 to 5 paragraphs and submitted on BlackBoard by Sunday night at 11:59 pm. the week the chapter is assigned.

Case Study Groups

Group 1 - Case Studies for Chapters : 1, 3, 5, 7, 9, 11, 13, 15, 17	Group 2 - Case Studies for Chapters: 2, 4, 6, 8, 10, 12, 14, 16, 17
Giselle, Alexa, Kobe, Mariah, Breanna	Mackenzie, Kylar, Ozzy, Blaine

Rubric for Case Study

Criteria	Novice (0-3 points)	Competent (3.5-5)
Describes the Case	Not able to describe or discuss the case without reading from the text, notes, or slides.	Able to discuss the case without reading.
Answers the Questions Thoroughly	Ideas are not expressed at an appropriate level.	Ideas are well thought out and expressed at an appropriate level.
Provides the Class with Insight on the Topic	Not included	Provides the class with a similar situation or provides additional references related to the topic.
Overall Presentation	Professionalism lacking either in dress, demeanor or ability. The assignment is not at least 250 words in length.	Professionalism evident in dress, demeanor or ability. The assignment is at least 250 words in length.
Additional Questions and Comments	Not included; Unable to answer questions pertaining to the situation.	Included; Able to provide sufficient answers to questions pertaining to the situation.

Pharmacology Project: 100 points

Students will need to reach out and interview an Athletic Trainer in either the high school or collegiate setting. The goal of this interview is to inquire about current pharmacology practices currently utilized in these settings. Please incorporate the following questions into your interview:

- What is your background when operating with Over-the-Counter? Prescription drugs?
- What are your documentation practices? What information do you choose to record and why?
- If you work with Minors, what additional steps are needed for parental consent?
- Have there been any occurrences where adverse effects were noted in regards to pharmacological agents? What steps (if any) were taken to mitigate these results?
- How did you create your policies regarding OTC/Prescription drugs and when did you last update the policy.
- How much of your budget is dedicated to pharmacological agents and how often are they a part of your supply order?

After the interview, you will write a summary detailing your gathered intel (250 to 350 words) and a short reflection of how this information might inform your future practice (200 to 250 words). Be sure to include the Athletic Trainer's name and current clinical site.

Midterm Exam: 100 points

The midterm exam is a closed book exam and covers chapters 1-8. Students will have two hours to complete the midterm exam. The final will be taken via Blackboard using Respondus Monitor and Lockdown Browser.

Final Exam: 150 points

The final exam is a comprehensive closed book exam of the entire course. Students will have two hours to complete the final exam. The final will be taken via Blackboard using Respondus Monitor and Lockdown Browser.

Assignment Submission

All assignments will be submitted through the Assignments link on the Blackboard except for Scenarios and Simulations. 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 mterrill1@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](https://www.angelo.edu/student-handbook/)¹
- [Angelo State University Catalog](https://www.angelo.edu/catalogs/)²

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

² <https://www.angelo.edu/catalogs/>

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.

Food and Drink Policy

Only bottles of water or water in containers with lids are allowed in the HHS building.

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](#)

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

[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.

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>

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.

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

Gaining a basic understanding of the subject (e.g., factual knowledge, methods, principles, generalizations, theories)

Learning to apply course material (to improve thinking, problem solving, and decisions)

Developing specific skills, competencies, and points of view needed by professionals in the field most closely related to this course

End of Syllabus

Pharmacology Project Rubric

Criteria	0 Points	10 Points	20 Points	Score
Summary Content	Ideas are unclear and or not well	Unelaborated ideas that are	Depth of thought supported by	

	developed	not fully explained or supported; repetitive details	elaborated, relevant supportive evidence provides clear vision of the idea; contains detail.	
Reflection Content	Ideas are unclear and or not well developed	Unelaborated ideas that are not fully explained or supported; repetitive details	Depth of thought supported by elaborated, relevant supportive evidence provides clear vision of the idea; contains detail.	
Summary Word Count	Less than 100 words	100 words to 200 words	250 words to 350 words	
Reflection Word Count	Less than 100 words	100 to 199 words	200 to 250 words	
Grammar	Multiple grammatical and stylistic errors	Some errors in grammar and/or format that does not interfere with clarity	Nearly error-free which reflects clear understanding and thorough proofreading.	
Total				<u> </u> /100