

**AT 760: Pharmacology for Health Professionals
General Syllabus Fall Semester 2019**

Instructor: Rebecca Sommer
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Face to Face and Virtual Office Hours: Tuesdays 9:00^{am}-11:00^{pm}
Wednesdays 3:00-4:30^{pm}
Instructor available face to face and via phone/online
Additional times can be arranged by appointment

Course Description:

The study of prescription and the over the counter drugs including uses, methods of administration and effects on the body. Identification of the effects of various medications and ergogenic substances on health and performance.

Required Text:

Houglum J., Harrelson G., and Seefeldt T. (2016) *Principles of Pharmacology for Athletic Trainers*, 3rd edition, ISBN 13: 978-1-61711-929-3, ISBN 10: 1-61711-929-6. Hardcover is available from any number of book sellers. An ebook is available from publisher at <https://www.healio.com/books/athletic-training/%7Bbef5a8d8-bd2f-4c90-a64f-1e27ceef785%7D/principles-of-pharmacology-for-athletic-trainers-third-edition>

Supplemental Reading Assignments:

Readings in addition to the text, such as journal articles, reports by governmental and nongovernmental agencies, or other online resources will be assigned most weeks. Supplemental readings will be accessed via Canvas.

Course Goals:

- 1) Identify commonly used therapeutic drugs and nontherapeutic substances by clients/patients for acute and chronic conditions in the active population.
- 2) Understand and explain pharmacologic applications, including indications, contraindications, precautions, and interactions of medications commonly used in the active population.
- 3) Educate patients about the effects, performance/physical consequences, and risks of misuse and abuse of common over the counter (OTC), prescription and recreational drugs.
- 4) Practice health care in a manner that is compliant with the BOC Standards of Professional Practice and state/federal laws regulating OTC and prescription medications.
- 5) Identify and effectively use pharmacological agents to evaluate and manage acute cardiac, respiratory, and allergic conditions

Online Lectures:

Weekly online lectures (PowerPoint presentation with recorded audio) will be posted in Canvas. The lectures are provided in two formats: (1) as a PowerPoint file that can be downloaded and watched as a slide show with PowerPoint software or (2) a video file that can be simply clicked-on and watched with no additional software. The PowerPoint files are available in the Home section of Canvas and the video files are in the Assignment section (videos can't be posted in Home for some unknown reason).

Course Grades:

Derived from a percentage of total points possible, it is the amount of points earned/total points possible for the course. Each point carries equal weight.

Homework assignments, typically case studies (25 pts x 8)	200 (40%)
Quizzes (50 pts x 4)	200 (40%)
Evidence for Pharmacological Intervention Paper	<u>100</u> (20%)
	500 total points

A: 93.0-100%	B: 83.0-86.9%	C: 73.0-76.9%	D: 60.0-64.9%
A-: 90.0-92.9%	B-: 80.0-82.9%	C-: 70.0-72.9%	F: 59.0% or below
B+: 87.0-89.9%	C+: 77.0-79.9%	D+: 65.0-69.9%	

Late Work:

The course is online, however, please note that it is NOT “self-paced” in that there are specified due dates for assignments and quizzes.

Work not submitted by the deadline is subject to penalty. Typically, this is a reduction of one full letter grade (e.g. assignment docked from B+ to C+ = 87% points reduced to 77% points). I will work with students that have excused circumstances. An excused circumstance requires documentation (e.g. doctor’s note, obituary, coach’s list). I expect to hear from students in advance of missing a due date. Only a dire situation permits notifying me after the due date has passed.

Overview of Course Assignments:

Additional information will be given in Canvas for each assignment. To convey a general idea of the requirements of this course, there will be:

1. Eight homework assignments, typically case studies, but may also be brief essay questions designed to check on understanding and to help students focus on important aspects of each week’s lecture and reading materials. A part of each assignment will strive to provide an exercise that translates into real-world application as athletic trainers.
2. Four quizzes, 50 points each. They will all be scheduled – no pop quizzes. Quizzes are online (Canvas) and are open-book but they are to be completed on your own. Quizzes are not to be done in collaboration with anyone.
3. Research paper (4-5 pages, double-spaced, well-referenced) – student chooses a particular pharmacological intervention used to treat or prevent a condition relevant to an active population and analyzes evidence for or against the intervention’s efficacy.

Course Schedule Fall 2019

	Topic	Textbook Reading
Week 1 Sept. 3 – 6	Introduction	Chapter 1, pgs. 3-16
Week 2 Sept. 9 – 13	Pharmacokinetics Assignment 1 due Sept 16	Chapter 2, pgs. 17-36
Week 3 Sept. 16 – 20	Pharmacodynamics Assignment 2 due Sept 23	Chapter 3, pgs. 37-60
Week 4 Sept. 23 – 27	Medication Management Quiz 1 due Sept 30	Chapter 4, pgs. 61-74

Week 5 Sept. 30 – Oct. 4	Infections and Inflammation Assignment 3 due Oct 7	Chapter 5, pgs. 75-96 Chapter 6, pgs. 97-124
Week 6 Oct. 7 – 11	Pain Medication Assignment 4 due Oct 14	Chapter 7, pgs. 125
Week 7 Oct. 14 – 18	Peripheral Nervous System Paper Assigned	
Week 8 Oct. 21 – 25	Musculoskeletal Medications Quiz 2 due Oct 28	Chapter 8, pgs. 139
Week 9 Oct. 28 – Nov. 1	Asthma Medications Paper outline & reference list	Chapter 9, pgs. 147
Week 10 Nov. 4 – 8	Allergy Medications Assignment 5 due Nov 11	Chapter 10, pgs. 169
Week 11 Nov. 11 – 15	GI Medications Assignment 6 due Nov 18	Chapter 11, pgs. 187
Week 12 Nov. 18 – 22	Hypertension and Heart Disease Quiz 3 due Nov 25	Chapter 12, pgs. 211
Week 13 Nov. 25 – 29	Diabetes Paper due Dec 2	Chapter 14, pgs. 269
Week 14 Dec. 2 – 6	Mental Health Assignment 7 due Dec 9	Chapter 13, pgs. 291
Week 15 Dec. 9 – 13	Performance Enhancers and Drug Testing in Sports Assignment 8 due Dec 16	Chapter 16, pgs. 309 Chapter 17, pgs. 347
Week 16 Dec. 16 – 20	Quiz 4 due Dec 20	

This schedule is tentative & subject to modifications during the course of the semester

Students with Disabilities

In compliance with the Americans with Disabilities Act, students are encouraged to register with UWSP Disability and Assistive Technology Center (DACT) for assistance with accommodations. It is the student's responsibility to work with DATC to document permanent or temporary disability in order to determine eligibility and receive reasonable accommodations. The college cannot assume responsibility for providing accommodations or services to students who have not identified themselves as having a qualifying disability. Contact DACT at datctr@uwsp.edu, 715-346-3365, Room 609 Albertson Hall, 900 Reserve Street, Stevens Point, WI 54481.

Academic Honesty & Misconduct

Academic honesty is a core principle of learning and scholarship. When you violate this principle, you cheat yourself of the confidence that comes from knowing you have mastered the targeted skills and knowledge. You also hurt all members of the learning community by falsely presenting yourself as having command of competencies with which you are credited, thus degrading the credibility of the college, the program, and your fellow learners who hold the same credential.

All members of the learning community share an interest in protecting the value, integrity, and credibility of the outcomes of this learning experience. We also have the responsibility to censor behaviors that interfere with this effort. The following behaviors will be subject to disciplinary action:
Plagiarism - presenting someone else's words, ideas, or data as your own work.

Fabrication - using invented information, falsifying research or other findings.

Cheating - misleading others to believe you have mastered competencies or other learning outcomes that you have not mastered. Examples include but are not limited to:

1. Copying from another learner's work
2. Allowing another learner to copy from your work
3. Collaborating on an assessment (graded assignment or test) without permission from the instructor
4. Copying answers or other materials from the internet (e.g. Quizlet)
5. Taking a test for someone else or permitting someone else to take a test for you

Turnitin will be used to scan all materials submitted by students. Turnitin shows similarity to other materials, such as online content and past student papers and assignments. Students are not allowed to copy material from others (internet or other students). In addition, students are not allowed to turn in work that they completed for a different course.

Academic Misconduct - other academically dishonest acts such as tampering with grades, taking part in obtaining or distributing any part of an assessment, or selling or buying products such as papers, research, projects or other artifacts that document achievement of learning outcomes. Academic dishonesty is not acceptable. UWSP subscribes to the definitions of academic dishonesty provided by the National Association of Student Personnel Administrators. Academic misconduct in the University of Wisconsin System is defined by UWS Chapter 14. The complete text of the chapter is available to you from the Dean of Students or you can visit for more information.

Emergency Preparedness: See UW-Stevens Point Emergency Procedures at www.uwsp.edu/rmgt/Pages/em/procedures for details on all emergency response at UW-Stevens Point including Medical Emergencies (Red Phones), Fire, Tornado, other Severe Weather or Active Shooter.

The course facilitator reserves the right to make changes to syllabi, or course content at their discretion anytime during the semester. Any significant change will be documented in a revised syllabus and posted on CANVAS. It is the students' responsibility to know what changes have been made. It is also the student's responsibility to check official UWSP email, and/or CANVAS frequently for course announcements.