

	<p style="text-align: center;">Department of Kinesiology KIN 4020: Pharmacology 1 Unit</p>
<p>Fall 2021</p>	

Meeting days: Online	Instructor: Susan Ganz, PhD, ATC
Meeting times: Online	Phone: (619) 701-2567
Meeting location: Online	Email: sganz@pointloma.edu
Final Exam: (day/time)	Office location and hours: Kinesiology Department
Additional info:	Additional info:

PLNU Mission

To Teach ~ To Shape ~ To Send

Point Loma Nazarene University exists to provide higher education in a vital Christian community where minds are engaged and challenged, character is modeled and formed, and service is an expression of faith. Being of Wesleyan heritage, we strive to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.

COURSE DESCRIPTION

This course will provide an overview of drug classifications and medical-legal aspects of therapeutic and pharmacological treatments.

This course provides an in-depth study and eventual mastery of the knowledge and skills you will need as a health professional to utilize the appropriate OTC and

prescription medication to treat pain, inflammation and other illnesses and disorders. Students will gain a working knowledge of pharmacological principles in athletic training:

- OTC's
- Indication/contraindication
- Side effects of drugs
- Prescription drugs
- Pharmacology of drugs

In the process, you will develop an emerging mastery of the *Educational Competencies* of the NATA's Educational Council (See Appendix D for details on these Competencies in preparation for the Board of Certification Examination for Athletic Trainers)

To be successful in this course, students must synthesize information presented in the lecture and laboratory and apply it to the clinical setting. Specifically, this means that studying for quizzes and tests should involve reviewing and integrating the essential ideas contained in both the lectures and the textbook. Where possible, we will do activities in class or have study sessions to improve your retention. Graded assignments (e.g., tests, quizzes, assessment outlines and review of literature paper) will be used to help students identify, recall, synthesize and apply the key concepts in therapeutic modalities and pharmacology.

COURSE LEARNING OUTCOMES

Upon completing this course, you will be able to:

1. Identify situations in which athletes may require therapeutic medication for treating certain symptoms associated with illness and injury.
2. Differentiate between the indications, contraindications, precautions, and adverse reactions of medications commonly used to treat athletes.
3. Analyze and defend the general therapeutic strategy, including drug categories used for treatment, desired treatment outcomes, and typical duration of treatment for various diseases and conditions.
4. Discuss the common methods used to administer medication and their advantages and disadvantages.
5. Outline the concepts related to bioavailability, half-life, and bioequivalence (including the relationship between generic and brand name drugs) and their relevance to the patient, the choice of medication, and the dosing schedule.
6. Review, critique and adhere to a policies-and-procedures manual as it relates to medications.
7. Understand and formulate the laws, regulations, and procedures that govern storage, transportation,

dispensation, and recording prescription and nonprescription medications.

8. Detect the signs of drug abuse/dependency and explain the proper approach to intervention and referral.

REQUIRED TEXTS AND RECOMMENDED STUDY RESOURCES

Textbook:

	Title	Therapeutic Medications for Athletic Trainers (2nd edition)
	Author	Micheal Koester
	ISBN	978-0-7360-6877-2
	Publisher	Human Kinetics
	Publication Date	August 3, 2007

Websites:

- Drug Free Sport [www.drugfreesport.com (Links to an external site.)]
- Food and Drug Administration:[www.fda.gov (Links to an external site.)]
- MEDLINEplus website:[<http://medlineplus.gov> (Links to an external site.)]

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COURSE CREDIT HOUR INFORMATION

In the interest of providing sufficient time to accomplish the stated Course Learning Outcomes, this class meets the PLNU credit hour policy for a 1 unit class delivered over 7 weeks.

Example

It is anticipated that students will spend a minimum of 37.5 participation hours per credit hour on their course work. The time expectations for this course are shown below:

Distribution of Student Learning Hours

Category	Time Expectation in Hours
Online Participation in Discussions, Groups, etc.	8
Reading & Video Assignments	12
Web Assignments	5
Other Assignments & Learning Activities (journal and group)	8.5
Quizzes, Surveys	4
Total Hours	37.5

COURSE SCHEDULE AND ASSIGNMENTS

Note: For each assignment, provide the following things:

- Description: Clear explanation of the assignment
- Requirements: Clearly identify all evaluation requirements for each assignment, including rubrics, if any, for assignments.
- Style standard: APA, Chicago, etc., if applicable.

ASSESSMENT AND GRADING

Your grades will be posted in the Canvas gradebook no later than midnight on Tuesday of each week beginning in Week Two of this course. It is important to read the feedback provided in the gradebook as these comments are intended to help you improve your work. Final grades will be posted within ten days of the end of the class. Multiple measures of evaluation are used in the course, allowing students opportunities to demonstrate their learning in more than one way, and giving consideration to individual learning styles. Course components that will be evaluated include:

Discussion Boards:

Students will participate in online discussions with classmates to expand upon the topics raised during the week from the videos and readings. You will have the opportunity, via the Discussion Boards, to interact with your fellow students and with me

and to discuss topics of interest to you. You are invited to become engaged with others in this class as you debate issues raised in the questions, examine and analyze case studies related to the content, and respond to the comments of your classmates.

For each Discussion Board topic, you will be required to post one response of your own and to post one reply to a classmate's response. Thus, you must respond at least **twice** to each Discussion Board topic on canvas. Your response to a classmate's post may include one or more of the following:

- Ask a probing question
- Share an insight from having read your classmate's post
- Offer and provide evidence to support an opinion
- Validate a classmate's idea with reference to your own experiences
- Make a suggestion for improvement
- Expand on your classmate's post.

To **receive full credit for your participation**, your posts **MUST** also be **MADE IN A TIMELY WAY**. Specifically, this means that you must post a response during the week after we first encounter a new chapter or topic. **Discussions represent 30% of the overall course grade.**

Web Assignments:

There will be two assignments where you will be given specific organization to look up on the web with scenarios included that you will complete. **Web assignments represent 12% of the overall course grade.**

NATA Position Statement Discussion Questions:

You will be assigned three NATA position statements to read and complete discussion questions related to each article. **Discussion questions will represent of the overall grade**

Journal Article Review:

You will be asked to find an article on specific topics. The article will contain important findings or conclusions relative to current topics discussed in lecture. The reviews should be 1-2 pages in length (double spaced, 12 pt. font, Times New Roman or equivalent). Journal article reviews should include the following information:

<ul style="list-style-type: none">• Purpose• Hypothesis• Purpose• Methods• Results	<ul style="list-style-type: none">• what were the significant findings and implications• Strengths and weakness of the article
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<ul style="list-style-type: none"> • Conclusions 	<ul style="list-style-type: none"> • Would you recommend this article
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Journals represent 9% of overall course grade

Pharmacology project:

With a partner you will be assigned specific over-the-counter medications (OTC). You will compare and contrast brand name and store name medications for each drug. A detailed guideline will be provided. **Pharmacology project represents 8% of overall course grade.**

Group Project - Service Announcement:

Students will be assigned to groups and given a specific prescription or over-the-counter analgesic medication. After reading the article by the FDA "A guide to safe use of pain medication", students will create a service announcement video on safety guidelines for their particular medication. **The video should include:** How that medication works as an analgesic; dosage; Indications/contraindications, active ingredients and misuse/abuse of drug. **Resources:** Smart Phone App - Epocrates, Website - www.fda.gov. **Submission of assignment:** Video needs to be uploaded onto youtube and the link sent to the professor. **Group project represents 8% of overall course grade.**

Quizzes

The quizzes will be designed to test the students' comprehension of the material presented via lectures and independent studying of the textbook. Questions will include: multiple choice, fill in the blank, matching, true/false, short answer, surveys, polls, and essay formats. **Quizzes represent 26% of overall course grade.**

Final Exam

The final exam will be cumulative and summative. Information from the entire semester will be tested. **Final exam represents 15% of overall course grade.**

Student grades will be posted in the Canvas grade book no later than midnight on Tuesday of each week beginning in Week Two of this course. It is important to read the comments posted in the grade book as these comments are intended to help students improve their work. Final grades will be posted within one week of the end of the class. Grades will be based on the following:

Standard Grade Scale Based on Percentages

A	B	C	D	F
A 93-100	B+ 87-89	C+ 77-79	D+ 67-69	F Less than 59
A- 90-92	B 83-86	C 73-76	D 63-66	
	B- 80-82	C- 70-72	D- 60-62	

STATE AUTHORIZATION

State authorization is a formal determination by a state that Point Loma Nazarene University is approved to conduct activities regulated by that state. In certain states outside California, Point Loma Nazarene University is not authorized to enroll online (distance education) students. If a student moves to another state after admission to the program and/or enrollment in an online course, continuation within the program and/or course will depend on whether Point Loma Nazarene University is authorized to offer distance education courses in that state. It is the student's responsibility to notify the institution of any change in his or her physical location. Refer to the map on [State Authorization](#) to view which states allow online (distance education) outside of Ca.

ATTENDANCE

Regular and punctual attendance is considered essential to optimum academic achievement. As a student in this course, you will have a minimum attendance requirement of three days each week. This means you will need to log into Canvas and post an assignment or response on at least three days in each week. Any day missed below this minimum requirement will count as an absence. Students may be dropped from the course if two such absences are recorded during the class and **will be** dropped if four such absences occur or if a student fails to attend class in any given week.

IN-COMPLETES AND LATE ASSIGNMENTS

All assignments are to be submitted/turned in by the beginning of the class session when they are due—including assignments posted in Canvas. In completes will only be assigned in extremely unusual circumstances.

PLNU COPYRIGHT POLICY

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PLNU ACADEMIC HONESTY POLICY

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. A faculty member who believes a situation

involving academic dishonesty has been detected may assign a failing grade for that assignment or examination, or, depending on the seriousness of the offense, for the course. Faculty should follow and students may appeal using the procedure in the university Catalog. See [Academic PoliciesLinks to an external site.](#) for definitions of kinds of academic dishonesty and for further policy information.

PLNU ACADEMIC ACCOMMODATIONS POLICY

While all students are expected to meet the minimum standards for completion of this course as established by the instructor, students with disabilities may require academic adjustments, modifications or auxiliary aids/services. At Point Loma Nazarene University (PLNU), these students are requested to register with the Disability Resource Center (DRC), located in the Bond Academic Center. (DRC@pointloma.edu ([Links to an external site.](#)) or 619-849-2486). The DRC's policies and procedures for assisting such students in the development of an appropriate academic adjustment plan (AP) allows PLNU to comply with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act. Section 504 (a) prohibits discrimination against students with special needs and guarantees all qualified students equal access to and benefits of PLNU programs and activities. After the student files the required documentation, the DRC, in conjunction with the student, will develop an AP to meet that student's specific learning needs. The DRC will thereafter email the student's AP to all faculty who teach courses in which the student is enrolled each semester. The AP must be implemented in all such courses.

If students do not wish to avail themselves of some or all of the elements of their AP in a particular course, it is the responsibility of those students to notify their professor in that course. PLNU highly recommends that DRC students speak with their professors during the first two weeks of each semester about the applicability of their AP in that particular course and/or if they do not desire to take advantage of some or all of the elements of their AP in that course.

SPIRITUAL CARE

Please be aware PLNU strives to be a place where you grow as whole persons. To this end, we provide resources for our students to encounter God and grow in their Christian faith.

If students have questions, a desire to meet with the chaplain or have prayer requests you can contact the [Office of Spiritual Development Links to an external site.](#)

USE OF TECHNOLOGY

In order to be successful in the online environment, you'll need to meet the minimum technology and system requirements; please refer to the *Technology and System Requirements* [Links to an external site.](#) information.

Problems with technology do not relieve you of the responsibility of participating, turning in your assignments, or completing your class work.

