

SPRING 1

ATP 6322

PHARMACOLOGY IN ATHLETIC TRAINING

TBD

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Tuesday:
Wednesday:
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Course Description:

ATP 6322. PHARMACOLOGY IN ATHLETIC TRAINING. Credit 3 Hours.
Prerequisites: Formal acceptance for progression into the Master's Degree in Athletic Training. Introduces principles of drug therapy across the lifespan and the use of drugs as they pertain to the health care of athletes and their effect on athletic competition. An emphasis on the knowledge, skills and values required of the Athletic Trainer on pharmacological applications, including indications, contraindications, precautions, interactions, documentation and governing regulations relevant to the treatment of injury and illness in athletic training.

Textbook(s):

Mangus, B.C., Miller, M. G. (2005). Pharmacology Application in Athletic Training. Publisher: F.A. Davis. ISBN: 978-0803611276

Course Objectives:

Upon successful completion of this course students will be able to demonstrate the appropriate knowledge and skill base to understand the basic principles of:

1. Identify which therapeutic drugs, supplements, and performance-enhancing substances are banned by sport and/or workplace organizations in order to properly advise clients/patients about possible disqualification and other consequences. (PHP-49)
2. Differentiate between palliative and primary pain control mechanisms. (TI-3)
3. Explain the theory and principles relating to expected physiological responses during and following therapeutic interventions. (TI-8)
4. Design therapeutic interventions and describe the expected effects and potential adverse reactions to the patient. (TI-11)
5. Explain the federal, state, and local laws, regulations and procedures for the proper storage, disposal, transportation, dispensing, and documentation associated with commonly used prescription and nonprescription medications. (TI-21)
6. Identify and use appropriate pharmaceutical terminology for management of medications, inventory control, and reporting of pharmacological agents commonly used in an athletic training facility. (TI-22)
7. Use an electronic drug resource to locate and identify indications, contraindications, precautions, and adverse reactions for common prescription and nonprescription medications. (TI-23)
8. Explain the major concepts of pharmacokinetics (e.g. bioavailability, half-life, bioequivalence) as well as principles of receptor theory, dose response relationship, and placebo effect as they relate to the mechanism of drug action and therapeutic effectiveness and the influence that exercise might have on these processes. (TI-24, TI-25, TI-26)
9. Describe the common routes for drug administration and properly assist and/or instruct the patient in the proper use, cleaning, and storage of drugs commonly delivered via parenteral routes as described by the physician. (TI-27, TI-28)
10. Describe how common pharmacological agents influence pain and healing and their influence on various therapeutic interventions. (TI-29)
11. Explain the general therapeutic strategy, including drug categories used for treatment, desired treatment outcomes, and typical duration of treatment for general medical and orthopedic diseases and conditions. (TI-30)
12. Optimize therapeutic outcomes by communicating with patients and/or appropriate healthcare professionals regarding compliance issues, drug interactions, adverse drug interactions and sub-optimal therapy. (TI-31)
13. Perform a comprehensive clinical examination of a patient with a lower extremity injury or emergent condition. (CIP-4)
14. Based on the comprehensive clinical examination and findings provide the appropriate initial care and establish overall treatment goals of lower extremity injuries or emergent conditions. (CIP-4)
15. Create and implement a therapeutic intervention to target treatment goals for lower extremity injuries or emergent conditions. (CIP-4)

16. Integrate and interpret various forms of standardized documentation to recommend activity level, make return to play decisions and maximize patient outcomes and progress in treatment plans for lower extremity injuries or emergent conditions. (CIP-4)
17. Perform a comprehensive general medical clinical examination in order to formulate a differential diagnosis and/or diagnosis and implement the appropriate treatment strategy to include medications. (CIP-5)
18. Determine whether referral is needed and identify potential restrictions in activities and participation. (CIP-5)
19. Formulate and communicate an appropriate return to activity protocol. (CIP-5)

Retention and Progression Procedures & Policy:

After students have been formally accepted into the Master of Athletic Training Program at the University of Houston the ATS must maintain a G.P.A. of 3.0 or above and receive no more than one grade of “C” in any of the required Master of Athletic Training Program courses. When a student falls below the required G.P.A. and/or receives a grade of “C” in two or more classes, the ATS will be removed from the Master of Athletic Training Program.

Should the student who has been removed from the Master of Athletic Training Program wish to file a grievance, he/she must follow the guidelines as defined at the following link:

<http://www.uh.edu/class/students/graduate/academics-planning/policies-procedures/index.php>

Evaluation Methods:

Total Possible:

Grading Scale:

100-93:	A
92-85:	B
84-77:	C
76-69:	D
<69:	F

ADA STATEMENT

When possible, and in accordance with 504/ADA guidelines, we will attempt to provide reasonable academic accommodations to students who request and require them. Please call the Center for Students with Disabilities at ext. 3-5400 for more assistance.

ACADEMIC HONESTY

Honesty in your academic work is important in developing professional integrity. Students are to maintain a high standard of academic honesty, including doing your best work and reporting academic misconduct and plagiarism. At all times you must present your own, original work. Any student who commits academic misconduct will receive a zero for that assignment, and depending on the nature of the violation, may fail the class and be reported to the university for disciplinary action.