

HSCC 371
Pharmacology Techniques
Fall 2007

Instructor:

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Office Hours:

T, R 1:00-2:00
F 10:00-12:00
By appointment

Description: Emergency applications of drug therapy. Laboratory practice in drug recognition, calculations, measurement, and administration.

Objectives: At the conclusion of this portion of the course, the student will:

1. understand the role of the paramedic in drug therapy
2. be able to identify and describe drug names, forms of drugs, and routes of drug administration appropriate to emergency medical use
3. understand the mechanisms of action, therapeutic effects, indications, and contraindications of drugs important in the treatment of medical and traumatic emergencies
4. understand the principles of weights and measures, drug concentrations, dose calculations and drug administration
5. have developed beginning proficiencies in the calculation of drug doses and intravenous administration

Text:

Pharmacology. (2000). G.M. Brenner. W.B. Saunders Company.

Pharmacology for the EMS Provider, 3rd Ed. (2003). R.K. Beck. Delmar Learning.

Drug Dose Calculations For the Emergency Care Provider, 2nd Ed. (2003). A.J. Mikolaj. Prentice Hall.

Evaluation:

Quizzes	40%
Homework	15%
Lab Practicals	30%
Final Exam	15%

Grading Scale:

A = 93-100
B = 83-92
C = 73-82
D = 63-72
F = < 62

Medical Director Signature_____

Homework and Quizzes:

Homework is essential to success in Pharmacology. Students will be responsible for completing weekly homework. Students are reminded that homework assignments are an individual activity and should neither give nor receive assistance when working on them. The lowest homework grade will be dropped prior to figuring the student's final grade. All homework is due at the time and date indicated on the syllabus. **Late homework assignments will not be accepted.**

Students will be quizzed weekly on the material covered in the previous week of class. Make up quizzes are at the discretion of the instructor. The lowest quiz grade will be dropped prior to figuring the student's final grade.

Attendance

Because of the nature of the course, class participation is an important component. Attendance at the lectures is required. Students are expected to be punctual. Tardiness will not be tolerated. Penalties for absences and tardiness are as follows:

Each unexcused absence beyond one (1) reduces final course grade by 2 points.

Each tardy beyond one (1) reduces final course grade by 1 point.

Excused absences include death in the family, approved University sponsored trips, and other circumstances if prior approval is sought from the course instructor.

Class Notes

Students are responsible for retrieving all class notes from the EMC website, <http://emc.wcu.edu>, and bringing them to the appropriate class. Handouts will not be provided in class.

Pagers/Cell Phones

Pagers, cell phones, text messengers, PDA's, etc. are **not allowed** during class time. Students must **turn them off** and have them stored at all times while in class.

Academic Honesty: In accordance with the academic honesty policy presented in the Student Handbook, you should be aware that failure to adhere to this policy will result in a grade of F for this course. Note: academic dishonesty includes knowingly allowing someone else to cheat.

ADA Compliance: WCU makes every effort to provide reasonable accommodations for students with documented disabilities in compliance with the Americans with Disabilities Act. To receive academic accommodations, students must be registered with the Office of Student Support Services. The letter received from Student Support Services should be presented as documentation to the instructor as early in the semester as possible.

Schedule Changes: Every effort will be made to adhere to the class schedule as presented. The instructor reserves the right to change or rearrange the course schedule due to unforeseen circumstances.

HSCC 371
Course Outline: Fall 2007

Date	Topic	Reading Assignment	Assignment Due
08/24	<p>Introduction to the Course</p> <p>General Pharmacological Principles (slides) (outline)</p>	<p>Brenner: pp. 2-42 Beck: pp. 1-41 Mikolaj: pp. 49-62</p> <p>NC Medical Board Approved Meds</p> <p>NCCEP Drug List</p> <p>NCCEP Pediatric Color-coded Drug List</p> <p>Standards for EMS Meds and Skills Use</p>	
08/31	<p>Drugs Affecting the Central Nervous System (CNS) (CNS Outline) (CNS Drug List)</p> <p>Quiz 1</p>	<p>Brenner: pp. 176-210, 222-253</p>	Homework 1 Due
09/7	<p>Drugs Affecting the Central Nervous System</p> <p>Quiz 2</p>	<p>Brenner: pp. 176-210, 222-253</p>	Homework 2 Due
09/14	<p>Drugs Affecting the Autonomic Nervous System (ANS) (ANS Drugs) (ANS Drug List)</p> <p>Quiz 3</p>	<p>Brenner: pp. 44-85 Beck: pp. 42-53</p>	Homework 3 Due
09/21	<p>Drugs Affecting the Cardiovascular System (Cardiovascular System)</p> <p>Quiz 4</p>	<p>Brenner: pp. 88-147 Beck: pp. 204-269</p>	Homework 4 Due

09/28	Drugs Affecting the Cardiovascular System Quiz 5	Brenner: pp. 88-147 Beck: pp. 204-269	Homework 5 Due
10/5	Drugs Affecting the Respiratory System (Respiratory System) Quiz 6 <i>Laboratory Session</i> (Handheld Nebulizer)	Brenner: pp. 278-296	Homework 6 Due
10/12	NO CLASS. FALL BREAK		
10/19	Weights and Measures (Metric Handout) (Step by Step Drug Calculations) Drug Doses and Calculations Quiz 7	Beck: pp. 88-135 Mikolaj: pp. 63-77	Homework 7 Due
10/26	Drug Doses and Calculations Quiz 8 <i>Laboratory Session</i> (Ampule) (Prefilled Syringe) (Vial)	Beck: pp. 109-135 Mikolaj: pp. 87-116	Homework 8 Due
11/02	IV Doses and Calculations (IV Drip Meds) Quiz 9 <i>Laboratory Session</i> (IV Piggyback)	Beck: pp. 109-135 Mikolaj: pp. 117-131	Homework 9 Due

11/09	<p>Drugs Affecting the Blood (Blood)</p> <p>Drugs Affecting the Urinary System (Urinary)</p> <p>Drugs Affecting the Endocrine System (Endocrine)</p> <p>Quiz 10</p> <p><i>Laboratory Session</i></p>	<p>Brenner: pp. 148-173, 330-378</p> <p>Beck: pp. 270-282</p>	Homework 10 Due
11/16	<p>Drugs Affecting the GI System (GI)</p> <p>Drugs Affecting the Visual System (Visual)</p> <p>Intravenous and Nutritional Therapy (IV & Nutritional)</p> <p>Paralytics (Paralytics)</p> <p>Quiz 11</p>	<p>Brenner: pp. 297-309</p> <p>Beck: pp. 306-314, 54-87</p>	Homework 11 Due
11/23	THANKSGIVING BREAK. NO CLASS		
11/30	<p>Miscellaneous Drugs (Miscellaneous)</p> <p>Quiz 12</p>		Homework 12 Due
12-7	Laboratory Practical Exams		
12/10	Final Exam. 12:00-2:30	Study Guide Final Exam	