RES 133T.01: Respiratory Care Pharmacology

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RES 133T RESPIRATORY CARE PHARMACOLOGY
COURSE SYLLABUS

INSTRUCTOR: Charles Miller

DAYS/TIME:

COURSE DESCRIPTION: Introduction to pharmacology as related to the cardiopulmonary system. Emphasis is placed on drug receptor sites, mechanism of action of bronchoactive, and cardiotonic drugs, that are seen or used by Respiratory Care Practioners

PREREQUISITE: RES 133T

TEXT: Cottrell G P, Surkin HB. Pharmacology for Respiratory Care Practitioners. 1995 F.A. Davis Company (out of print)

ATTENDANCE/ EVALUATION: Attendance is required for all scheduled examinations and quizzes. There are no make-up examinations or quizzes. If you are unable to take the scheduled examination, you must make arrangements to take the examination prior to the scheduled examination. In cases of emergency, the examination will be taken on the first day of return.

GRADING SCALE:

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Students in Respiratory Care program must have a “B-“ final grade in order to progress within the program. Test questions will be based on unit objectives. Unit objectives are to be used as study guides.

HOMEWORK: Your homework must be turned in on the assigned class day. For math problems, write the formula, derivation of the answer, and box the answer with the appropriate units of measurement for full credit. No credit may be given for late work. Returned homework will be placed in the drawer of the overhead projector stand for absentees.

TEST PROCEDURE: Standard testing policy will be adhered to. No talking, no papers on desk, every other chair occupied. You
should not leave the room during the exam period. Occasional quizzes may be given.

**CLASSROOM ETIQUETTE:**

Please refrain from talking to each other during lectures. Do not leave or arrive late to the classroom as previous students have stated this is very distractive.

**OTHER POLICIES:**

*Academic Misconduct:* All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University.

All students need to be familiar with the Student Conduct Code. The Code is available for review online at [http://www.umt.edu/SA/VPSA/index.cfm/page/1321](http://www.umt.edu/SA/VPSA/index.cfm/page/1321).

*Disabilities:* Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please speak with me after class or in my office. Please be prepared to provide a letter from your DSS Coordinator.
COURSE OUTLINE:

I. The Physiologic Basis of Drug Action
   A. Pharmaceutical Phase
   B. Pharmacokinetic Phase
   C. Pharmacodynamic Phase

II. Drugs Affecting the Peripheral Nervous System
   A. Neurochemical Transmission
   B. Autonomic Pharmacology
   C. Cholinergic Agonists
   D. Nicotinic Antagonists
   E. Muscarinic Antagonists

III. Drugs Affecting the Respiratory System
   A. Allergic Mediators
   B. Antiallergics and Antihistaminics
   C. Antimuscarinic Bronchodilators
   D. Adrenergic Agonists
   E. Xanthine Bronchodilators and Ventilatory Stimulants
   F. Glucocorticoids
   G. Mucokinetic, Surface-Active and Antitussive Agents
   H. Antibacterials
   I. Antivirals, Antifungals, and Antiprotozoals

IV. Drugs Affecting the Cardiovascular System
   A. Cardiotonics
   B. Nitric oxide
   C. Antianginals
   D. Antiarrhythmics
   E. Antithrombotics and Thrombolytics
   F. Diuretics

V. Drugs Affecting the Central Nervous System
   A. Conscious Sedation
   B. Analgesics
   C. Local Anesthetics
   D. Narcotic Antagonists