

Reese Campus

Course Syllabus

COURSE: RSPT 2217.200 Respiratory Care Pharmacology
SEMESTER: Fall 2014
CLASS LOCATION: Reese Campus – Building 5 Room 521
CLASS TIMES: 9:00 AM – 9:50 AM
Monday-Wednesday
INSTRUCTOR: Ron Edwards, BS, RRT
OFFICE: 519
OFFICE HOURS: Monday 2:30 PM – 4:30 PM
Tuesday 1:30 PM – 3:30 PM
Wednesday 2:30 PM – 4:30 PM
Thursday 1:30 PM – 3:30 PM
Other Times by Appointment
OFFICE PHONE: (806) 716-4625
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"South Plains College improves each student's life."

GENERAL COURSE INFORMATION

COURSE DESCRIPTION

This course is a study of pharmacological principles/practices of drugs which affect the cardiopulmonary systems. This course has an emphasis on classification, routes of administration, dosage/calculations, and physiological interactions.

STUDENT LEARNING OUTCOMES

Students will:

1. Explain the mode of action, clinical indications, dosages, hazards, and side effects of pulmonary and cardiovascular drugs.
2. Perform drug dosage calculations.
3. Select appropriate pharmacological agents used in the practice of respiratory care.

EVALUATION METHODS

Eight major examinations and one comprehensive final examination will be given. No make-up exams will be given. The lowest graded unit exam will be dropped. Pop quizzes and assignments may be given periodically over lecture material and reading assignments.

COURSE OBJECTIVES - Outline form (correlated to Scans and Foundations Skills)

1. The student will gain an understanding of the common bronchodilators used in respiratory care. (F-1, F-2, F-6)
2. The student will gain an understanding of corticosteroids used in respiratory care. (F-1, F-2, F-6)
3. The student will become familiar with interpreting physician orders for respiratory care drugs and calculating an accurate and appropriate dosage for the patient. (F-1, F-2, F-3, F-4, F-6)
4. The student will develop the critical thinking skills necessary to recognize problems with drugs, consider risks, evaluate and choose among alternative drugs, and devise and implement a plan of action. (F-8, F-9, C-5, C-16)
5. The student will develop an understanding of the central and peripheral nervous system, including its control mechanisms and physiologic effects. (F-1, F-2, F-6)

ACADEMIC INTEGRITY

It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension.

Cheating - Dishonesty of any kind on examinations or on written assignments, illegal possession of examinations, the use of unauthorized notes during an examination, obtaining information during an examination from the textbook or from the examination paper of another student, assisting others to cheat, alteration of grade records, illegal entry or unauthorized presence in the office are examples of cheating. Complete honesty is required of the student in the presentation of any and all phases of coursework. This applies to quizzes of whatever length, as well as final examinations, to daily reports and to term papers.

Plagiarism - Offering the work of another as one's own, without proper acknowledgment, is plagiarism; therefore, any student who fails to give credit for quotations or essentially identical expression of material taken from books, encyclopedias, magazines and other reference works, or from themes, reports or other writings of a fellow student, is guilty of plagiarism.

SCANS and FOUNDATION SKILLS

This course completes the following Foundation Skills: F-1, F-2, F-3, F-4, F-6, F-8, and F-9. This course completes SCANS competencies: C-5 and C-16. Refer also to Course Objectives. SCANS and Foundation Skills attached.

VERIFICATION OF WORKPLACE COMPETENCIES – Technical Education Division

Successful completion of this course is required for the student to be eligible to sit for the Entry-Level Examination for Certified Therapists, and to obtain a Certificate to Practice in the state of Texas.

SPECIFIC COURSE INFORMATION

TEXT AND MATERIALS

Students are required to obtain and use the following:

1. Gardenhire, Douglas S. Rau's Respiratory Care Pharmacology, 8th Ed., (2012). Mosby.
2. Colbert, Bruce J. Cardiopulmonary Drug Guide. (2003).
4. Class Notes

ATTENDANCE POLICY

Attendance indicates the maturity, motivation, responsibility, and reliability expected of a student entering the respiratory care profession. Regular attendance RSPT 2317 is necessary to gain proficiency in respiratory care procedures.

1. Whenever absences become excessive and, in the instructor's opinion, minimum course objectives cannot be met due to absences, the student should be withdrawn from the course. These cases will be handled on an individual basis.
2. Whenever an unavoidable reason for class absence arises, such as illness, an official trip authorized by the college or an official activity, the instructor may permit students to make up work missed for that absence day.
3. The instructor is required to notify the Office of Student Services when the student has missed every class day during any 14 consecutive calendar day period, excluding holidays.

4. Students are responsible for all class work covered during absences from class.
5. A student who does not attend a class and does not officially withdraw from that course by the 12th class day in a regular semester or by the 4th class day in a summer session will be administratively withdrawn from that course and receive an “X” or “F” as determined by the instructor.
6. It is the student’s responsibility to verify administrative drops for excessive absences through MYSPC using his or her student online account.

ASSIGNMENT POLICY

1. Students are expected to maintain a reading schedule to keep current with classroom discussions. There is one assignment for practice in drug calculations.
2. Students that score less than 80% on their course average are encouraged to seek remedial help. The student should schedule an appointment with the instructor on record or any program faculty for specific remediation instruction.

GRADING POLICY - Grades in this course will be determined using the following criteria:

Pop Quizzes/Assignments	8%
Major Exams	72%
Comprehensive Final Exam	20%

A = 90 - 100

B = 80 - 89

C = 75 - 79

D = 74 – 65

F = 0 - 64

COMMUNICATION POLICY

- Electronic communication between instructor and students in this course will utilize the South Plains College “My SPC”, blackboard, and email systems. Instructor will not initiate communication using private email accounts. Students are encouraged to check SPC email and blackboard on a regular basis.
- Blackboard is an e-Education platform designed to enable educational innovations everywhere by connecting people and technology. This educational tool will be used in this course throughout the semester.

FACEBOOK

The Respiratory Care Program has a Facebook page at <http://www.facebook.com/SouthPlainsCollegeRespiratoryCare>.

In addition to the South Plains College website, this Facebook page will be used to keep students up-to-date on program activities, weather delays, South Plains College announcements and will help with program recruitment. “Liking” the South Plains College Respiratory Care Facebook page is not mandatory, nor are personal Facebook accounts, in order to access this page.

STUDENT CONDUCT

- Students in this class are expected to abide by the standards of student conduct as defined in the SPC Student Guide

SPECIAL REQUIREMENTS

- **Cell Phones** – Cell phones are to be turned OFF during scheduled class periods, unless prior approval has been given from the instructor. This includes text messaging. Cell phones are to be used outside the classroom only.

CHANGES AND AMENDMENTS TO SYLLABUS

- The program director or the clinical coordinator reserves the right to make reasonable changes to the syllabus at any time during the semester. If this occurs, the students will be notified and furnished a copy of all applicable changes or amendments.

COURSE OUTLINE

Unit I Basic Pharmacology Principles / Central & Peripheral Nervous Systems

Reading Assignment: Chapters 1, 2, 3, and 5

Notes

Test #1

Unit II Adrenergic Bronchodilators and Drug Calculation

Reading Assignment: Chapter 4 & 6

Notes

Drug/Dosage Calculation assignment

Test #2

Unit III Anticholinergic and Xanthine Bronchodilators

Reading Assignment: Chapters 7 & 8

Notes

Test #3

Unit IV Mucus-Controlling and Surfactant Agents

Reading Assignment: Chapters 9 & 10

Notes

Test #4

Unit V Corticosteroids and Nonsteroidal Anti-asthma Agents

Reading Assignment: Chapters 11 & 12

Notes

Test #5

Unit VI Anti-infective and Cough/Cold

Reading Assignment: Chapters 13, 14, 15, & 4

Notes

Test #6

Unit VII Neuromuscular Blocking Agents and Central Nervous System Drugs

Reading Assignment: Chapters 18 & 20

Notes

Test #7

Unit VIII Diuretics- Anti-hypertensives, and Smoking Cessation Agents

Reading Assignment: Chapters 19, 22, & 16

Notes

COMPREHENSIVE FINAL EXAM

ACCOMMODATIONS

DIVERSITY STATEMENT

In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

DISABILITIES STATEMENT

ADA Statement

Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office through the Guidance and Counseling Centers at Reese Center (Building 8) [716-4606](tel:716-4606), or Levelland (Student Services Building) [716-2577](tel:716-2577).

FOUNDATION SKILLS

BASIC SKILLS—Reads, Writes, Performs Arithmetic and Mathematical Operations, Listens and Speaks

F-1 Reading—locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.

F-2 Writing—communicates thoughts, ideas, information and messages in writing and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.

F-3 Arithmetic—performs basic computations; uses basic numerical concepts such as whole numbers, etc.

F-4 Mathematics—approaches practical problems by choosing appropriately from a variety of mathematical techniques.

F-5 Listening—receives, attends to, interprets, and responds to verbal messages and other cues.

F-6 Speaking—organizes ideas and communicates orally.

THINKING SKILLS—Thinks Creatively, Makes Decisions, Solves Problems, Visualizes and Knows How to Learn and Reason

F-7 Creative Thinking—generates new ideas.

F-8 Decision-Making—specifies goals and constraints, generates alternatives, considers risks, evaluates and chooses best alternative.

F-9 Problem Solving—recognizes problems, devises and implements plan of action.

F-10 Seeing Things in the Mind's Eye—organizes and processes symbols, pictures, graphs, objects, and other information.

F-11 Knowing How to Learn—uses efficient learning techniques to acquire and apply new knowledge and skills.

F-12 Reasoning—discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.

PERSONAL QUALITIES—Displays Responsibility, Self-Esteem, Sociability, Self-Management, Integrity and Honesty

F-13 Responsibility—exerts a high level of effort and perseveres towards goal attainment.

F-14 Self-Esteem—believes in own self-worth and maintains a positive view of self.

F-15 Sociability—demonstrates understanding, friendliness, adaptability, empathy and politeness in group settings.

F-16 Self-Management—assesses self accurately, sets personal goals, monitors progress and exhibits self-control.

F-17 Integrity/Honesty—chooses ethical courses of action.

SCANS COMPETENCIES

C-1 **TIME** - Selects goal - relevant activities, ranks them, allocates time, prepares and follows schedules.

C-2 **MONEY** - Uses or prepares budgets, makes forecasts, keeps records and makes adjustments to meet objectives.

C-3 **MATERIALS AND FACILITIES** - Acquires, stores, allocates, and uses materials or space efficiently.

C-4 **HUMAN RESOURCES** - Assesses skills and distributes work accordingly, evaluates performances and provides feedback.

INFORMATION - Acquires and Uses Information

C-5 Acquires and evaluates information.

C-6 Organizes and maintains information.

C-7 Interprets and communicates information.

C-8 Uses computers to process information.

INTERPERSONAL—Works With Others

C-9 Participates as member of a team and contributes to group effort.

C-10 Teaches others new skills.

C-11 Serves Clients/Customers—works to satisfy customer’s expectations.

C-12 Exercises Leadership—communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.

C-13 Negotiates—works toward agreements involving exchanges of resources; resolves divergent interests.

C-14 Works With Diversity—works well with men and women from diverse backgrounds.

SYSTEMS—Understands Complex Interrelationships

C-15 Understands Systems—knows how social, organizational, and technological systems work and operates effectively with them.

C-16 Monitors and Corrects Performance—distinguishes trends, predicts impacts on system operations, diagnoses systems performance and corrects malfunctions.

C-17 Improves or Designs Systems—suggests modifications to existing systems and develops new or alternative systems to improve performance.

TECHNOLOGY—Works with a Variety of Technologies

C-18 Selects Technology—chooses procedures, tools, or equipment, including computers and related technologies.

C-19 Applies Technology to Task—understands overall intent and proper procedures for setup and operation of equipment.

C-20 Maintains and Troubleshoots Equipment—prevents, identifies, or solves problems with equipment, including computers and other technologies.

Course Agreement

RSPT 2317.200

I have received a copy of the course syllabus. I have reviewed the syllabus thoroughly, and understand the course format, attendance and tardy policies, and examination system. I further understand my responsibilities and rights, as explained by the instructor and listed also in the syllabus, and agree to all course requirements as stated in the syllabus.

Student's Name (print)

Student's Signature

Date_____