

Course Syllabus

COURSE: RSPT 2210.200 – Cardiopulmonary Disease
SEMESTER: Spring 2014
CLASS LOCATION: Reese Campus – Building 5 Room 521
CLASS TIMES: 9:00 AM – 9:50 AM
Monday-Wednesday-Friday
INSTRUCTOR: Ron Edwards, BS, RRT
OFFICE: Room 519
OFFICE HOURS: Monday & Wednesday: 2:00 PM – 4:00 PM
Tuesday & Thursday: 1:30 PM – 3:00 PM
Other Times by Appointment
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"South Plains College improves each student's life."

GENERAL COURSE INFORMATION

COURSE DESCRIPTION

This course provides a discussion of pathogenesis, pathology, diagnosis, history, prognosis, manifestations, treatment, and detection of cardiopulmonary diseases.

STUDENT LEARNING OUTCOMES

Students will:

1. Analyze the etiology, pathophysiology, clinical manifestations, and management of cardiopulmonary disorders.

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

1. The student will explain the use of clinical practice guidelines and therapist-driven protocols in the treatment of cardiopulmonary disease. (F-1, F-2, F-5, F-6, C-15, C-16, C-17)
2. The student will recognize factors that can influence communication between the patient and the clinician during an interview. (F-1, F-2, F-5, F-6, F-15, C-5, C-6, C-7)
3. The student will describe techniques for structuring a patient history, and describe the components of a complete health history. (F-1, F-2, F-5, F-6, F-15, C-5, C-6, C-7)
4. The student will discuss the etiology, pathophysiology, clinical manifestations, and management of the following:
 - a. Chronic bronchitis and emphysema
 - b. Asthma and bronchiectasis
 - c. Restrictive lung diseases
 - d. Infectious lung diseases
 - e. Environmental lung diseases
 - f. Atelectasis, cancer, tuberculosis, and AIDS
 - g. Chest Trauma and Pleural effusion
 - h. Neurologic/neuromuscular diseases
 - i. Respiratory Failure, ARDS, and Near Drowning
(F-1, F-2, F-5, F-6, F-8, F-9, F-10, F-12, C-5, C-6, C-7, C-8)

EVALUATION METHODS

1. Seven unit exams will be given. . **Make up exams will not be given.** The lowest scored unit exam grade will be dropped and not calculated into the exam percentages.
2. A comprehensive final examination will be given.
3. An oral presentation with power point copy of presentation will be due during the semester.

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-5, F-6, F-8, F-9, F-10, F-12, and F-15. This course completes the following SCANS competencies: C-5, C-6, C-7, C-8, C-15, C-16, and C-17. Refer also to Course Objectives. SCANS and Foundation Skills attached.

VERIFICATION OF WORKPLACE COMPETENCIES – Health Occupations Division

Successful completion of this course is required for the student to be eligible to sit for the Certification Exam for Entry-Level Respiratory Therapists, and to obtain a Texas License to practice Respiratory Care.

SPECIFIC COURSE INFORMATION

TEXT AND MATERIALS

Students are required to obtain the following:

1. Des Jardins, Terry. Clinical Manifestations and Assessment of Respiratory Disease, 6th Ed., (2011). Maryland Heights, Missouri, Mosby, Inc.
2. Des Jardins, Terry. Case Studies to accompany Clinical Manifestations and Assessment of Respiratory Disease, 4th Ed., (2002). St. Louis, Missouri, Mosby, Inc. **(optional)**
3. Wilkins, Robert L. Clinical Assessment in Respiratory Care, 7th Ed., (2014). Maryland Heights, Missouri, Mosby, Inc.
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 2210 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 at home to keep current with classroom discussions.
2. Case study exercises will be conducted on specific disease topics. Case study practice allows the student to apply the reading and lecture material to actual assessment and development of critical thinking skills.
3. Additional reading is on reserve in the library. Students are encouraged to read this supplementary material to develop the ability to read and critique scientific discourse in respiratory care.
4. Disease Research Presentation
 - a. Students will be responsible for presenting a power point presentation. Research will include some aspect of cardiopulmonary disease. Topics may include such information as new discoveries about respiratory diseases, new insights into well-known diseases, disease prevention, and new methods of diagnosis and management. At least five resources should be used, including three journal articles. Program textbooks may not be used as resources. Resources should be published more recently than 2004.
 - c. Provide a bibliography in APA style, and reference material appropriately throughout the presentation with imbedded citations.
 - d. A five to ten minute oral presentation will be given during RSPT 2210 class period. (students may refer to their slides but not simply read their slides).
 - e. Due date timeline
 - 1). The student should discuss and select a topic with the instructor no later than **2/17/14**.
 - 2). Bibliography in APA format is due no later than **3/24/14**.
 - 3). Students may submit rough drafts to be critiqued no later than **4/11/14**. This is entirely optional.
 - 4). Oral presentations will begin on **4/21/13**.
 - 5). The written power point presentation is due the week of **4/21/2014**
 - d. Disease presentation rubric is provided in blackboard accompanying the course syllabus
5. Students that score less than 80% on their course average will be encouraged to seek remedial help. The student can 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:

Exams (6)	72%
Power point presentation	13%
Comprehensive Final	15%

A = 90 - 100
B = 80 - 89
C = 75 - 79
F = 0 - 74

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.

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.

STUDENT CONDUCT

- Students in this class are expected to abide by the standards of student conduct as defined in the SPC Student Guide pages 11-14.

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.

COURSE OUTLINE

TOPIC 1: CLINICAL PRACTICE GUIDELINES, THERAPIST-DRIVEN PROTOCOLS, COMMUNICATION, PATIENT HISTORY, & SOAP

Reading Assignment: Des Jardins Chapters 1, 2, and 9
Wilkins Chapters 1 and 2

Quiz #1

TOPIC 2: COPD , BRONCHIECTASIS, AND CYSTIC FIBROSIS

Reading Assignment: Des Jardins Chapters 11, 13, and 14
Case studies: 2, 3, and 4

Quiz #2

TOPIC 3: ASTHMA

Reading Assignment: Des Jardins Chapter 12
Case studies: 5

Quiz #3

TOPIC 4: RESTRICTIVE LUNG DISEASES AND ENVIRONMENTAL LUNG DISEASES

Reading Assignment: Des Jardins Chapter 25, 24, and 42
Case Studies: 20, 17, and 28

Quiz #4

TOPIC 5: ATELECTASIS, LUNG CA, AND TB

Reading Assignment: Des Jardins Chapter 42, 26, and 17
Case Studies: 29, 18, and 9

Quiz #5

TOPIC 6: INFECTIOUS LUNG DISEASES (PNEUMONIA, LUNG ABSCESS, AND FUNGAL DISEASE)

Reading Assignment: Des Jardins Chapter 15, 16, and 18
Case Studies: 6, 8, and 10

Quiz #6

TOPIC 7: CHEST TRAUMA; NEUROLOGIC / NEUROMUSCULAR DISEASES

Reading Assignment: Des Jardins Chapter 21, 22, 23, 28, and 29
Case Studies: 13, 14, 15, 21, and 22

Quiz #7

TOPIC 8: ARDS, NEAR DROWN, AND SMOKE INHALATION/THERMAL INJURIES

Reading Assignment: Des Jardins: Chapter 27, 40, and 41
Case Studies: 19 and 27

COMPREHENSIVE FINAL EXAM

RSPT 2210
Disease Presentation (Power Point) Spring 2014

Student: _____

Date: _____

- I. Presentation Style ____/5
- a. Presented in a clear and organized manner
 - b. Use of appropriate medical terminology
 - c. Presentation lasts between 5 and 10 minutes
 - d. Primarily discusses disease process and uses written material as reference
 - e. Answers questions appropriately
- II. Disease Presentation Power Point ____/20
- a. Disease Introduction
 - b. Etiology
 - c. Pathogenesis
 - d. Signs and Symptoms
 - e. Recommended Treatment
 - f. Usual Prognosis
- III. Patient Assessment ____/20
- a. Physical Findings expected from disease process i.e. general appearance, LOC, chest auscultation, breathing pattern, cough, fever, sputum (amount, color, and consistency), skin color, JVD, clubbing, extremity assessment –edema etc...
- IV. Applicable clinical laboratory test findings associated with disease and basic interpretation of findings ____/20
- a. Sputum Culture and Sensitivity
 - b. X-RAY
 - c. WBC, RBC, Chemistry, and ABGs trends
 - d. EKG
 - e. PFT
 - f. Bronchoscopy findings
 - g. Histology and Cytology Findings
 - h. Other Testing
- V. Current Therapy / Procedures ____/20
- a. Review of recommended medications (name, route, dose, frequency, and purpose)
 - b. RT Procedures – include purpose for procedure
 - c. Other pertinent therapy to treat disease process
 - d. Surgical Interventions- Type, expected outcome, possible complications

VI. Closing Summary

 /5

- a. Paragraph with the following key elements:
 - i. Disease: chronic and/or acute, general progression and prognosis
 - ii. Key assessment and lab findings associated with disease
 - iii. Current recommended treatment and/or procedures
 - iv. Additional actions or suggestions that you feel may improve or
enhance the care of this disease process

VII. Bibliography and copies of resource material used

 /10

- a. Complete bibliography list in appropriate format
- b. Complete copies of resource material used

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

Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Special 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 Coordinator of Special Services. For more information, call or visit the Special Services Office in rooms 809 and 811, Reese Center Building 8, (806) 885-3048 ext. 4654.

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 2210.200

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_____