

Bergen Community College
Division of Health Professions
RSP110, Respiratory Care Pharmacology

Revised:

Course and Section Number:

Meeting Time and Location:

Instructor:

Office Location:

Phone:

Departmental Secretary:

Office Hours:

Email Address:

Course Description

List lecture hours and credits: 2 lectures, 2 credits

List prerequisites and corequisites: Co-requisites: RSP-119 and RSP-121

Course Description: This course introduces the student to the medications utilized in the treatment of patients with acute and chronic cardiopulmonary disorders.

Learning Objectives: As a result of meeting the requirements in this course, the student will

1. Describe the terminology associated with pharmacology in respiratory care.
2. Classify various devices used to administer pulmonary medications.
3. Calculate drug dosages using common formula.
4. Implement a plan to treat the respiratory system by understanding the mechanism of action, indications, contraindications, hazards and potential side effects, and delivery methods of drugs administered to patients with pulmonary disorders.
 - a. Adrenergic (sympathomimetic) bronchodilators
 - b. Anticholinergic (parasympatholytic) bronchodilators
 - c. Xanthines
 - d. Phosphodiesterase Inhibitors
 - e. Mucolytic agents
 - f. Bland aerosols
 - g. Corticosteroids
 - h. Aerosolized anti-infective agents
 - i. Antimicrobial agents
5. Describe the mechanism of action for vaccines used in preventing pulmonary disease.
6. Apply the pharmacological use in smoking cessation.
7. Identify the delivery methods for the various nicotine therapy drugs.
8. Develop a pharmacologic regimen for asthma, chronic bronchitis, or emphysema.
9. Develop a monitoring and educational plan for asthma, chronic bronchitis, or emphysema.

Course Content

This course has been designed to provide the respiratory care student with an understanding and appreciation for how the body utilizes, reacts, and functions when exposed to various chemical agents (medications) to maintain homeostasis.

Special Features of the Course

Moodle is used to enhance the interaction with the student. PowerPoint presentations are posted prior to the topic being discussed. The student is to review the PowerPoint and develop questions in preparation for the class.

Course Texts

Required

- Colbert, B. Integrated Cardiopulmonary Pharmacology, 5th ed. BVT Publishing, 2019. ISBN 978-1-5178-0509-8

Recommended

- Kacmarek R. Egan's Fundamentals of Respiratory Care, 11th ed. Elsevier, 2016. ISBN: 9780323341363

Writing and Examination Requirements

Quizzes may consist of multiple-choice questions, fill-in, or true-false questions based on select unit's readings and class presentations. Quizzes will be given during the first hour of class unless otherwise specified. Spelling of medical terms and medication names may weight differently. Evaluation: Quizzes are graded on a point-based format. Quizzes are weighted differently based on the importance of content. Final grades are calculated as a percentage.

Each student is expected to submit a medications list and discuss the various medications. The medication list will include, at a minimum and where appropriate, these categories: name, dosage, onset, peak and duration of action, indications, contraindications, and adverse reactions. The discussion will take place on the day the medication category is presented. The medication list is due on the week prior to the medication's category quiz is scheduled.

Means of Assessment

Students are assessed through quizzes and a presentation. Quizzes consisting of multiple-choice questions, fill-in, or true-false questions based on select unit's readings and lecture presentations. Students post online for grading and present a brief discussion on the use of certain cardiopulmonary medications presented during this course. All quizzes are conducted through MoodleRooms.

Grading Policy

Grade Determinations

Quizzes	Points
Quiz 1	25
Quiz 2	20
Quiz 3	30
Quiz 4	20

Quiz 5	25	
Total	120	
Medication lists		
Medication list	20	
Medication list	20	
Medication list	20	
Medication list	20	
Total	80	
Course Total	200	
Grading:		
A	Student must show superior theoretical knowledge.	93 – 100
B+	Student must merit high quality classroom work and theoretical knowledge.	88 – 92.9
B	Student must show above average knowledge.	83 – 87.9
C+	Student meets the standard of achievement with reasonable knowledge.	78 – 82.9
F	Student fails to meet minimum course standards.	<78
N	Incomplete – Student has not completed course requirements.	
Missed Quizzes and Late Work		
Missed quizzes and late work will be penalized with a grade being no greater than seventy-eight percent (78%). Quizzes are scheduled during the last two weeks of the semester but before last scheduled class. All late coursework must be completed before the last scheduled class. If a quiz is not completed before the last scheduled day of class day, a grade of zero (0) will be recorded.		

Attendance and Academic Integrity Policy

<p>BCC Attendance Policy</p> <p>All students are expected to attend punctually every scheduled meeting of each course in which they are registered. Attendance and lateness policies and sanctions are to be determined by the instructor or program policy. The instructor will keep attendance for administrative and counseling purposes. Class attendance and student participation are essential to successful completion of this course.</p> <p>Course Attendance Policy</p> <p>Attendance and punctuality in all class sessions is required. Attendance for lecture and laboratory will be factored into the total grade for the course. One (1) point will be deducted from the total grade for every absence. If the student is 20 minutes late, a half-point (0.5) will be deducted from the total grade. If you are late, be sure to see the professor that class so the lateness is not counted as an absence.</p> <p>Academic Integrity</p> <p>Academic dishonesty is a serious violation of BCC policy and personal ethics and will be treated as such if reason for suspicion should arise. Students should be careful to avoid plagiarism,</p>

falsification, and compliance. Academic dishonesty also includes cheating on examinations. Refer to the BCC student code of conduct and student handbook for additional information.

Departmental Policy Statements

1. Acceptable quality of work and mature behavior is always expected from every student. Students are regarded as professionals and are expected to conduct themselves accordingly.
2. High standards of professional performance demand that students maintain good academic progress throughout their course of study in the program.
3. Students demonstrating chronic tardiness or absenteeism will be placed on academic warning or probation and may be subjected to termination from the program.
4. Absence from a class during a scheduled exam will be subject to the policy of the instructor for that specific course. If the student is going to miss a scheduled exam, it is expected that the student will contact the instructor ahead of time by email or phone to the department office.
5. All students are required to adhere to the policies and procedures of the school as outlined in the college catalogue.
6. Additional department policies are in the Student Policies and Procedures Manual.

Student and Faculty Support Services

1. The program faculty maintains office hours for counseling and is available to provide tutorial assistance to students.
2. Students must make appointments in advance to meet with the respective instructors.
3. Students may also obtain assistance from the College Tutoring Center. Appointments must be made in advance through this center.
4. The College has a personal counseling center for those students who may need personal assistance. Appointments are made directly through this center.
5. Any problems, concerns, or questions should be directed to the course instructor or the student's advisor.
6. Statement on Civility
 - a. Refer to the Standards of Conduct Subsection found in the Student Judicial Affairs Policies & Procedures Section found in the Student Handbook.
7. Academic Integrity
 - a. Refer to the Academic Integrity Subsection; found in the Academic Regulations, Academic Policies Section found in the Academic Policies & Regulations Area of the College Catalog.
8. Other possible College, Divisional, or Departmental Policy Statements to be referenced
 - a. ADA statement.
 - i. Students with documented disabilities who require accommodations by the American with Disabilities Act (ADA) can request support services from the Office of Specialized Service of Bergen Community College located in room L-115 of the Pitkin Learning Center. (<http://www.bergen.edu/oss>)
 - b. Sexual Harassment statement.
 - c. Statement on acceptable use of BCC technology.
 - d. Statement on the purpose and value of faculty office hours.
9. Student and Faculty Support Services
 - a. List support services, e.g., the Writing Center, the Math Lab, the Tutorial Center, Online Writing Lab (OWL), Office of Specialized Services, etc.

10. BCC Library

- a. The Sidney Silverman Library is committed to providing a quiet, welcoming, respectful atmosphere conducive to study and research in an environment that is comfortable, clean, and safe. The use of the library will be beneficial in providing resources on researching topic information, citation styles, finding current articles among many other media services available.