

**RET 2350C-CRN# 16778**  
**Respiratory Pharmacology**  
**Fall 2016**  
**Syllabus**

**Instructor:** Name: Jamy Chulak M.S. RRT  
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**Location:**

AHS Building Room 226  
Wednesdays  
9:00-12:00  
(*lunch break*)  
1:00-4:00

**Office Hours:**

| Location            | DAY       | FROM (am/pm) | TO (am/pm) |
|---------------------|-----------|--------------|------------|
| AHS-235 and AHS-226 | Monday    | 8:00 AM      | 8:30 AM    |
| AHS-235 and AHS-226 | Tuesday   | 8:00 AM      | 11:00 AM   |
| AHS-235 and AHS-226 | Wednesday | 8:00 AM      | 9:00 AM    |
| AHS-235 and AHS-226 | Thursday  | 8:00 AM      | 11:00 AM   |
| Virtual/email/phone | Friday    | 8:00 AM      | 10:30 AM   |

**Important Date:**

|                                |   |
|--------------------------------|---|
| Term (Start and End Dates)     | August 29 <sup>th</sup> to December 18 <sup>th</sup> 2016 |
| Withdrawal for "W" Grade       | November 11 <sup>th</sup> 2016                            |
| Drop/Refund Deadline (11:59PM) | September 6 <sup>th</sup> , 2016                          |
| Classes Do Not Meet            | Sept 4 <sup>th</sup> and Nov 22 <sup>nd</sup> 2016        |
| Final Examination              | December 11 <sup>th</sup> 2016                            |

**Introduction to the Course**

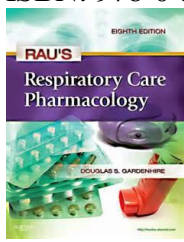
History of pharmacology, regulatory agencies and regulations concerning use of drugs. Drug action, absorption, distribution, and use in human body. Emphasis on respiratory drugs, cardiac drugs and related drugs therapist is exposed to in a hospital.

## Overall Course objectives/Outcomes

- Understand the study, naming, source and process for drug approval
- Describe drug administration in terms of pharmacokinetics, pharmacodynamics and pharmacogenetics.
- Identify the principles of aerosolized drug delivery.
- Define and describe the use of adrenergic bronchodilators.
- Define and describe the use of anticholinergic bronchodilators.
- Identify the properties of multiple forms of bronchodilators.
- Describe the use of mucolytic therapy for bronchial hygiene
- Describe the use of corticosteroids treatment for pulmonary wellness.
- Distinguish the difference between antimicrobial and antiinfective agents.
- Identify the properties and use of diuretic agents.
- Describe the properties and use for hemodynamic medications.

### Textbooks:

Respiratory Care Pharmacology. Douglas S. Gardenshire 8th Edition  
ISBN: 978-0-323-07528-2



### Valencia College Core Competencies

The Valencia Student Core Competencies (Think, Value, Act and Communicate) are an established component of the College's curriculum development and review process. A detailed overview can be found in the current Valencia catalogue or the Valencia Website: <http://valenciacollege.edu/competencies/> . Developing these core competencies will be enhanced through critical thinking exercises, classroom discussions, and reasoned choices made by acquiring, analyzing, synthesizing, and evaluating knowledge. You will also need to read, listen, write and speak effectively.

### Withdrawal Policy:

Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the established deadline for a particular term will receive a grade of "W." A student is not permitted to withdraw after the withdrawal deadline. A faculty member MAY withdraw a student up to the beginning of the final exam period for violation of the class attendance policy. A student who is withdrawn by faculty for violation of the class attendance policy will receive a grade of "W." Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of "F." For a complete policy and procedure overview on Valencia Policy 4-07 please go to: <http://valenciacollege.edu/generalcounsel/policydetail.cfm?RecordID=75>.

**Course Disclaimer:**

These course requirements may be changed with notification, as deemed necessary by the instructor due to unforeseen circumstances.

**Students with Disabilities:**

Students with disabilities who qualify for academic accommodations must provide a letter from the Office for Students with Disabilities and discuss specific needs with the professor, preferably during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities. (West Campus SSB room 102, 407-582-1523)

**Mobile Devices:**

Refrain from bringing mobile devices to class. All mobile devices must be turned off during class to ensure an optimal learning environment. No use of these devices will be tolerated during class. The use of such devices during class will result in a reduction in class participation points.

**Academic Honesty:**

Students are expected to be in complete compliance with Valencia College policy on academic honesty. This policy is written in the Valencia College Catalog and Student Handbook. Academic honesty, in terms of documentation, means that you have not stolen another's ideas and misrepresented them as your own; you have given credit where credit is due. As in most areas of life, let common sense and common courtesy rule and help keep you from inadvertently committing an act of plagiarism.

**Atlas:**

Students will need to check their Atlas account daily for email, helpful hints and updated information. <https://atlas.valenciacollege.edu/>

**Blackboard:**

This course is web-enhanced. The student will be required to complete assignments, quizzes and participate in discussion topics online. Any problems or questions must be communicated to the instructor in a timely manner. <https://online.valenciacollege.edu/>

**Grading Considerations:**

- All late assignments will result in an automatic grade reduction of 10%.
- No assignment or test will be accepted after one week past the due date.
- Quizzes and online discussions may NOT be made up beyond the due date.

## **Grade Breakdown:**

### **5%- Attendance**

Attendance is essential to success in this course. Absences or failure to do the assigned reading will result in difficulty mastering the material. It will be assumed by the instructor that all assigned material has been read prior to scheduled class time. Excessive absences may result in withdrawal from the course and is defined in the student handbook as greater than two absences within a semester.

### **10%- Participation**

Participation is essential to learning. A direct correlation to your learning outcome(s) rely upon active engagement in and out of the classroom.

*Participation Rubric* (available on blackboard)

### **15% Assignments**

- Case Studies
- Group Projects
- Presentation

### **50%- Examinations: (will be averaged towards final grade)**

Formats may be multiple choice, short answer or essay. Content will include assigned reading material, handouts and/or lecture material.

Calculators may be used. No scientific calculators or those capable of storing formulas can be used

### **10%- Mid Term Examination:**

This is a cumulative exam for half of the term from the start of term. Format may be multiple choice, short answer or essay.

### **10%- Final Examination**

This is a cumulative exam for half of the term following the midterm examination.

Format may be multiple choice, short answer or essay. See Valencia catalogue for dates and times.

### **Grading Scale**

A= 90-100

B= 83-89

C= 75-82

D= 70-74

F= Less than 70%

Note: A minimum grade of "C" is required to be considered for participation in RET 1874L Clinical Practice I.

## Course Itinerary

|          |  |
|----------|--|
| Week 1   | <b>Introduction to Respiratory Pharmacology</b><br><i>-Rau chapter 1</i>                   |
| Week 2   | <b>Principles of Drug Action</b><br><i>-Rau chapter 2</i>                                  |
| Week 3   | <b>Administration of Aerosolized Agents</b><br><i>-Rau chapter 3</i>                       |
| Week 4   | <b>Adrenergic (Sympathomimetic) Bronchodilators</b><br><i>-Rau chapter 6</i>               |
| Week 5   | <b>Anticholinergic (Parasympathomimetic) Bronchodilators</b><br><i>-Rau chapter 7</i>      |
| Week 6   | <b>Xanthines</b><br><i>-Rau chapter 8</i>  |
| Week 7   | <b>Mucous Controlling Drug Therapy</b><br><i>-Rau chapter 9</i>                            |
| Week 8*  | <b>Corticosteroids in Respiratory Care</b><br><i>-Rau chapter 11</i>                       |
| Week 9   | <b>Mid Term Examination (cumulative for half of term)</b>                                  |
| Week 10  | <b>Aerosolized Antiinfective Agents</b><br><i>-Rau chapter 13</i>                          |
| Week 11  | <b>Antimicrobial Agents</b><br><i>-Rau chapter 14</i>                                      |
| Week 12  | <b>Skeletal Muscle Relaxants (Neuromuscular Blocking Agents)</b><br><i>-Rau chapter 18</i> |
| Week 13* | <b>Diuretic Agents</b><br><i>-Rau chapter 19</i>   |
| Week 14  | <b>Vasopressors, Inotropes, and Antiarrhythmic Agents</b><br><i>-Rau chapter 21</i>        |
| Week 15  | <b>Drugs Affecting Circulation</b><br><i>-Rau chapter 22</i>                               |
| Week 16  | <b>Final Examination (cumulative for half of term)</b>                                     |