



# COURSE OUTLINE

Instructor: Richard W. Lippert, NREMT-P

Semester/Session: Spring 2015

**Course Number:** PAM-103 BC 61

**Course Title:** Cardiology and Pulmonology

**Course Credits:** 5

**Lecture hours:** 4      **Lab hours:** 2      **Other hours:**

**Pre-requisite(s):** BIO-115 or BIO-162, PAM-101, PAM-102 & PAM-112

**Co-requisite(s):** PAM-104, PAM-105 & PAM-116

**Course Description:** This course covers cardiology and pulmonology for the paramedic, involving interpretation of cardiac rhythms, treatment protocols and assessment and intervention of respiratory deficiencies. Emphasis is placed on identifying EKG rhythms and using patient assessment information.

**Learning Outcomes:** Upon successful completion of the course, the student will:

1. Describe components in a normal EKG tracing and correlate to activity in the cardiac cycle.
2. Identify abnormal EKGs including tachycardias, bradycardias, AV blocks, atrial rhythms, ventricular rhythms, premature contractions, paced rhythms and asystole in both 3-lead and 12-lead format.
3. Demonstrate proper electrode placement and technique to obtain 3-lead and 12-lead EKG readings.
4. Apply rhythm interpretation and select proper treatment interventions for various cardiac dysrhythmias.
5. Demonstrate ability to use cardiac monitor/defibrillators to deliver appropriate therapeutic electrical interventions.
6. List treatment for various cardiovascular conditions.
7. Classify respiratory system dysfunctions and proper treatment interventions.
8. Utilize pulse oximetry and capnography to assess respiratory system function.
9. Describe V/Q mismatch and appropriate interventions.
10. Apply paramedic pharmacology to cardiac and pulmonary conditions.

A student completing the lecture portion of this course with a letter grade of "C" or better will be able to:

1. Describe risk factors related to cardiovascular disease.
2. Understand the basic structure and function of the cardiovascular system.
3. Identify the major normal and abnormal heart sounds.
4. Describe the cardiac cycle, including diastole and systole.
5. Identify the various types of blood vessels.
6. Explain how the heart functions as a pump, including the concepts of cardiac output, stroke volume, heart rate, and ejection fraction.
7. Understand how electrical conduction activity occurs within the heart.
8. Understand how the autonomic nervous system controls the functioning of the heart.
9. Identify the various classes of drugs that influence the sympathetic nervous system.
10. Understand how the sympathetic nervous system regulates blood pressure.
11. Explain patient assessment procedures for cardiovascular problems, including scene size-up, primary

- assessment, history taking, secondary assessment, and reassessment.
12. Recognize the medications commonly prescribed to patients with cardiovascular diseases.
  13. Describe the placement of leads and electrodes in 3-lead ECG monitoring.
  14. Identify the components of an ECG rhythm strip.
  15. Understand how to determine heart rate.
  16. Describe the placement of 12-lead ECG leads.
  17. Describe the placement of 15- and 18-lead ECG leads.
  18. Understand how to interpret 12-lead ECG findings, including atrial, junctional, and ventricular rhythms.
  19. Recognize normal sinus rhythm, and list the various types of cardiac dysrhythmias.
  20. Discuss manual defibrillation, cardioversion, and transcutaneous pacing as techniques for managing cardiac emergencies.
  21. Understand the indications and procedure for operating an automated external defibrillator (AED).
  22. Describe emergency medical care for the symptomatic patient with bradycardia.
  23. Describe emergency medical care for the symptomatic patient with tachycardia.
  24. Describe emergency medical care for the patient with cardiac arrest, including the elements of basic life support (BLS) and advanced cardiac life support (ACLS).
  25. Describe the components of care following resuscitation, including how to determine return of spontaneous circulation.
  26. Describe the pathophysiology of atherosclerosis, peripheral vascular disorders, acute coronary syndrome, and angina pectoris.
  27. Discuss the assessment and management of coronary disease and angina.
  28. List the signs and symptoms of acute myocardial infarction (AMI).
  29. Explain the procedure for managing AMI and suspected AMI in the field, including STEMI and non-STEMI presentations.
  30. Understand the benefits of reperfusion techniques (fibrinolysis and percutaneous intervention) in patients with AMI or suspected AMI.
  31. Discuss the pathophysiology of congestive heart failure and its signs, symptoms, and treatment.
  32. Discuss the pathophysiology of cardiac tamponade and its signs, symptoms, and treatment.
  33. Discuss the pathophysiology of cardiogenic shock and its signs, symptoms, and treatment.
  34. Describe the pathophysiology, assessment, and management of aortic aneurysms, including both acute dissecting aneurysm of the aorta and expanding and ruptured abdominal aortic aneurysms.
  35. Discuss the pathophysiology of hypertensive emergencies and their signs, symptoms, and treatment.
  36. Describe the risks posed by thromboembolism.
  37. Identify types of congenital heart disease.
  38. Describe the pathophysiology of hypertrophic cardiomyopathy.
  39. Describe the pathophysiology of other cardiovascular anomalies: coarctation of the aorta, truncus arteriosus, tricuspid atresia, hypoplastic left heart syndrome, tetralogy of Fallot, transposition of the great arteries, and total anomalous pulmonary venous return.
  40. Describe how infections—endocarditis, pericarditis, and rheumatic fever—can damage the heart.
  41. Discuss the epidemiology, morbidity, and mortality of respiratory illness in the United States.
  42. Define hypoventilation and hyperventilation, and outline the conditions with which they are often associated.
  43. List the structures of the upper and lower airways and accessory structures of the respiratory system.
  44. List the three primary functions of the respiratory system.
  45. Explain how gas exchange occurs at the interface of the alveoli and the pulmonary capillary bed.
  46. Analyze the neurologic, cardiovascular, muscular, and renal mechanisms of respiratory control.
  47. Analyze proper measures for ensuring scene safety when called to care for a patient with dyspnea.
  48. Describe the factors that contribute to a general impression of the patient's condition and an accurate estimation of his or her degree of respiratory distress.
  49. Discuss the typical presentation of a patient with dyspnea, and list the signs and symptoms that indicate a high level of respiratory distress.
  50. Explain the special patient assessment and care considerations for older adult patients with respiratory distress.
  51. Identify breathing alterations that may indicate respiratory distress, and become familiar with the signs of increased work of breathing.
  52. Describe the abnormal breathing patterns associated with neurologic insults that depress the respiratory center in the brain.

53. Become familiar with the signs of lung consolidation, including abnormal breath sounds associated with excessive fluid in the lungs.
54. Explain how to assess the adequacy of the circulation of a patient with dyspnea.
55. Discuss how transport decisions are made for patients with respiratory distress.
56. Describe how to investigate the chief complaint of a patient who is having trouble breathing.
57. Identify each component of the SAMPLE history as it applies to patients with dyspnea.
58. List the over-the-counter medications likely to be used by patients with respiratory conditions, and explain what each is used for.
59. Describe the components of the physical examination of a patient with dyspnea.
60. Survey the devices used to monitor patients with respiratory complaints.
61. Describe interventions available for treating patients with dyspnea.
62. Discuss the pathophysiology, assessment, and management of a patient whose upper airway has an anatomic or foreign body obstruction.
63. Discuss the pathophysiology, assessment, and management of a patient who has upper airway inflammation caused by infection.
64. Discuss the pathophysiology, assessment, and management of a patient who has aspirated food, liquid (including blood), or a foreign body.
65. Discuss the pathophysiology, assessment, and management of a patient with an obstructive lower airway disease.
66. List and explain the three features that characterize asthma and how each is treated.
67. Compare the signs and symptoms of asthma, emphysema, and chronic bronchitis.
68. Discuss complications that can cause a patient with COPD to decompensate.
69. Explain the concepts of hypoxic drive and auto-PEEP as they relate to COPD.
70. Discuss the pathophysiology, assessment, and management of patients with pulmonary infections, atelectasis, cancer, toxic inhalations, pulmonary edema, and acute respiratory distress syndrome.
71. Discuss the pathophysiology, assessment, and management of patients with pneumothorax, pleural effusion, and pulmonary embolism.
72. Describe age-related variations in respiratory anatomy and the pathophysiology of respiratory disease.
73. Discuss the importance of the American Heart Association's five links of the Chain of Survival to a successful code.
74. Describe the management acronym SMART and each of its objectives.
75. Describe how progressive communities can improve survival of prehospital cardiac arrest patients.
76. Discuss the use of simulation in CPR training.
77. Discuss some of the revisions made by the American Heart Association (AHA) and International Liaison Committee on Resuscitation (ILCOR) to the Emergency Cardiovascular Care (ECC) and CPR guidelines.
78. Describe how you, your crew, and your agency can incorporate the latest guidelines into the management of field codes.
79. Discuss some of the theories that have shifted the focus of certain CPR techniques.
80. Summarize the steps of the BLS healthcare provider algorithm and identify the key to a successful outcome in patients with cardiac arrest.
81. Explain how two-rescuer CPR can benefit the paramedic and the patient.
82. Explain the steps in providing two-rescuer adult CPR, including the method for switching positions during the process.
83. Identify the various age groups of infants and children for the purposes of resuscitation procedures and equipment.
84. Explain the steps in providing child and infant CPR, including the method for switching positions during the process.
85. Discuss guidelines for circumstances that require the use of an automated external defibrillator (AED) on both adult and pediatric patients experiencing cardiac arrest.
86. Describe situations in which manual or automated defibrillation would be appropriate.
87. Summarize how to perform manual defibrillation on an adult and child/infant.
88. Summarize how to use an automated external defibrillator.
89. Describe how to manage a witnessed arrest versus a nonwitnessed arrest.
90. Explain special situations related to the use of automated external defibrillation.
91. Review the management of a cardiac arrest based on analysis of the electrocardiogram (ECG) as

either a shockable (ventricular fibrillation or ventricular tachycardia) or a nonshockable (pulseless electrical activity or asystole) rhythm.

92. List the “Hs and Ts” and how they can be managed in the field.
93. Describe the different mechanical devices that are available to assist in delivering improved circulatory efforts during CPR.
94. Describe the general steps of postresuscitative care.
95. Describe the ethical issues related to patient resuscitation, providing examples of when not to start CPR on a patient.
96. Explain the various factors involved in the decision to stop CPR once it has been started on a patient.
97. Discuss the value of scene choreography at a field code.
98. Describe the typical roles of the code team leader and code team members at a field code.
99. Plan for a code by reviewing a sample script for a typical prehospital cardiac arrest resuscitation.

A student completing this course with a letter grade of “C” or better will be able to:

1. Demonstrate how to assess and provide emergency medical care for a patient with chest pain or discomfort.
2. Demonstrate how to perform cardiac monitoring.
3. Demonstrate how to acquire a 12-lead ECG.
4. Demonstrate how to perform manual defibrillation.
5. Demonstrate how to perform defibrillation with an AED.
6. Demonstrate how to perform cardioversion.
7. Demonstrate how to perform transcutaneous cardiac pacing.
8. Demonstrate how to manage symptomatic bradycardia.
9. Demonstrate how to perform ACLS care.
10. Demonstrate how to perform postresuscitative care.
11. Demonstrate the process of history taking for a patient with dyspnea.
12. Demonstrate how to help a patient use a metered-dose inhaler.
13. Demonstrate how to teach a patient to use a small-volume nebulizer.
14. Demonstrate the application of a CPAP/BiPAP unit.
15. Demonstrate how to perform one- and two-rescuer adult CPR.
16. Demonstrate how to perform CPR in a child who is between age 1 year and the onset of puberty.
17. Demonstrate how to perform CPR in an infant who is between ages 1 month and 1 year.
18. Demonstrate how to perform manual defibrillation in an adult patient.
19. Demonstrate how to perform manual defibrillation in an infant or child.
20. Demonstrate how to manage a patient in ventricular fibrillation or ventricular tachycardia.
21. Demonstrate how to manage a patient in asystole or pulseless electrical activity.
22. Demonstrate the steps of postresuscitative care.
23. Demonstrate how to be committed to the success of the team.
24. Demonstrate the roles of the code team member and the code team leader.

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<b>Class Section(s) Time &amp; Location:</b>	<b>Section</b>	<b>Dates</b>	<b>Days</b>	<b>Time</b>	<b>Room</b>
	BC61	1/12 – 5/8	T/H	5:30-7:10PM	N-107

<b>Instructor:</b>	<b>Richard W. Lippert</b>	<b>Office Hours:</b>	<b>Thursday Noon – 5:00 PM</b>
<b>Telephone:</b>	<b>724-325-6884</b>	<b>Office Location:</b>	<b>Boyce Campus N-220</b>
<b>E-Mail Address:</b>	<a href="mailto:rlippert@ccac.edu">rlippert@ccac.edu</a>		

#### Materials and Resources:

Required Text(s):	<b>Emergency Care in the Streets – 7<sup>th</sup> Edition Nancy Caroline/Jones &amp; Bartlett Prehospital Emergency Pharmacology – 7th Edition; Bledsoe &amp; Clayden/Prentice Hall</b>
Required Materials:	<b>N/A</b>

Recommended Text(s):	N/A
Audio-Visual Materials:	N/A
Directed Study:	N/A
Open Lab, Tutoring, etc.	N/A

### Teaching Methods:

This course is presented in a classroom environment, utilizing lecture, case studies, small group discussion and individual/group-work assignments. Students are expected to prepare for each class session by completing the reading assignments and any homework assigned. The student should check the Blackboard Announcements and Course Documents button for weekly information. The anticipated student preparation time required to be successful in this class is an average of 1-2 hours daily.

### Evaluation Plan:

The Allied Health Department utilizes the following classroom grading system:

93% and above = A

86% - 92% = B

75% - 85%= C

65% - 74%= D

64% and below = F

Quizzes (260 points possible): One quiz per week maximum, 13 quizzes- 20 points each

Exam 1 (100 points possible): Covering Chapter 17 and assigned medications

Exam 2 (100 points possible): Covering Chapter 16 and assigned medication

Final Exam (150 points possible): Covering Chapters 16-17 and assigned medications

### Other Policies and Procedures:

#### 1. Attendance Policy

Students are expected to attend all didactic sessions, to be prompt and to remain in the classroom for the entire scheduled time. Students are responsible for all information, materials and skills presented at didactic sessions. Students may miss a maximum of 4 didactic sessions. For every session missed over 4, the student's letter grade will be reduced each time.

#### 2. Assignment Information

Due dates for all assignments are listed in the Course Plan contained in this document. Quizzes will not be announced in advance. The Exam Schedule is listed in the Course Plan.

#### 3. Special Accommodations

It is the student's responsibility to inform the instructor of this course their needs for special accommodations. The student must also provide proper and current documentation from CCAC's Supportive Services for Students with Disabilities department with what specific accommodations are necessary. This information and required documentation must be presented to the instructor no later than the end of Week One (1) of the semester.

#### 4. Course Success

- Complete assignments on time as written in the course outline
- Studying every day (1-2 hour average)
- Communicating regularly with course instructor if you have a problem

## 5. Assessment of Student Learning

CCAC has a college-wide assessment program, the purpose of which is the improvement of instruction and student learning. Course outcomes, program objectives and the general education goals (Communication, Technology Competency, Information Literacy, Critical Thinking and Problem Solving, Quantitative and Scientific Reasoning, Culture and Society) will be assessed. As a student, you should focus on the goals, objectives and learning outcomes of your courses and program of study to help you analyze your performance and make your learning most effective. It is always CCAC's goal to have students function at their fullest capacity.

## 6. Additional Policies and Procedures

All students are required to adhere to the policies and procedures contained in the current CCAC Student Handbook. This includes but is not limited to the policies regarding cheating and plagiarism. In addition, all PAM students are required to adhere to the Paramedic Program Policies and Procedures contained in the Fall 2013 Manual. This manual may be updated as needed throughout your PAM Program; if updated, students will be provided with the revised copy.

## 7. Non-Discrimination Policy

CCAC does not discriminate based upon race, color, religion, national origin, ancestry or place of birth, sex, gender identity or expression, sexual orientation, disability, marital status, familial status, veteran status, age or use of a guide or support animal because of blindness, deafness or physical disability of any individual. Questions may be emailed to [diversity@ccac.edu](mailto:diversity@ccac.edu).

### **Students with Disabilities:**

The Community College of Allegheny County makes every effort to provide reasonable accommodations for students with disabilities. Questions about services and procedures for students with disabilities should be directed to the Office of Supportive Services at your campus.

### **Course Outline Corrections:**

During the semester/session, reasonable changes to the course outline may be academically appropriate. Students will be notified of these adjustments by the instructor in a timely manner.

## Course Plan: PAM 103 Section: BC61 Cardiology and Pulmonology

Class Week/Date	Lesson or Topic	Learning Activities	Assignments	Evaluation
1 Jan 12-18	Anatomy and Physiology Caroline: Chapter 7 Pgs. 240 – 255 Cardiovascular Emergencies Caroline: Chapter 17 Pgs. 908 – 918  <b>LAB</b> None	Chapter 17: YOU are the Medic: Parts 1- 2		
2 Jan 19-25	Cardiovascular Emergencies Caroline: Chapter 17 Pgs. 918 – 927  <b>LAB</b> Adult CPR and Obstructed Airway Skill Drill 4: Performing Defibrillation With an AED (Caroline: 996)			
3 Jan 26-Feb 1	Cardiovascular Emergencies Caroline: Chapter 17 Pgs. 927 – 936  <b>LAB</b> Infant CPR and Obstructed Airway	Chapter 17: YOU are the Medic: Part 3  Bledsoe/Clayden  Student must know medication name, mechanism of action, indications, contraindications, complications, routes of administration, side effects, interactions, dose and any specific administration considerations	Bledsoe/Clayden - Appendix B  Norepinephrine – Pg. 465 Phenylephrine – Pg. 137 Isoproterenol – Pg. 452 Dopamine – Pg. 439	

<p>4 Feb 2-8</p>	<p>Cardiovascular Emergencies Caroline: Chapter 17 Pgs. 936 – 946</p> <p><b>LAB</b> Skill Drill 1: Performing Cardiac Monitoring (Caroline: 938) Skill Drill 2: Acquiring a 12-Lead ECG (Caroline: 967)</p>	<p>Chapter 17: YOU are the Medic: Part 4</p> <p>Bledsoe/Clayden</p> <p>Student must know medication name, mechanism of action, indications, contraindications, complications, routes of administration, side effects, interactions, dose and any specific administration considerations</p>	<p>Bledsoe/Clayden - Appendix B</p> <p>Dobutamine – Pg. 438 Inamrinone – Pg. 450 Milrinone – Pg. 460 Vasopressin – Pg. 479</p>	
<p>5 Feb 9-15</p>	<p>Cardiovascular Emergencies Caroline: Chapter 17 Pgs. 947 – 964</p> <p>Review</p> <p><b>LAB</b> ECG Interpretation</p>	<p>Bledsoe/Clayden</p> <p>Student must know medication name, mechanism of action, indications, contraindications, complications, routes of administration, side effects, interactions, dose and any specific administration considerations</p>	<p>Bledsoe/Clayden - Appendix B</p> <p>Propranolol – Pg. 471 Sotalol HCL – Pg. 476 Metoprolol – Pg. 458 Labetalol – Pg. 453</p>	
<p>6 Feb 16-22</p>	<p>Exam 1</p> <p>Cardiovascular Emergencies Caroline: Chapter 17 Pgs. 964 – 990</p> <p><b>LAB</b> ECG Interpretation</p>	<p>Bledsoe/Clayden</p> <p>Student must know medication name, mechanism of action, indications, contraindications, complications, routes of administration, side effects, interactions, dose and any specific administration considerations</p>	<p>Bledsoe/Clayden - Appendix B</p> <p>Atenolol – Pg. 152 Esmolol – Pg. 443 Lidocaine – Pg. 454 Procainamide – Pg. 470</p>	<p><b>Exam 1 - 100 points Covering Chapter 17 up through Pg. 964</b></p>



<p>7 Feb 23- March 1</p>	<p>Cardiovascular Emergencies Caroline: Chapter 17 Pgs. 964 – 990</p> <p><b>LAB</b> ECG Interpretation Skill Drill 3: Performing Manual Defibrillation (Caroline: 994) Skill Drill 5: Performing Cardioversion (Caroline: 998)</p>	<p>Bledsoe/Clayden</p> <p>Student must know medication name, mechanism of action, indications, contraindications, complications, routes of administration, side effects, interactions, dose and any specific administration considerations</p>	<p>Bledsoe/Clayden - Appendix B</p> <p>Adenosine – Pg. 425 Verapamil – Pg. 480 Diltiazem – Pg. 436 Amiodarone – Pg. 428</p>	
<p>March 3-5</p>	<p>Mid-Term Break</p>			
<p>8 March 2-8</p>	<p>Cardiovascular Emergencies Caroline: Chapter 17 Pgs. 990 – 1011</p> <p><b>LAB</b> ECG Interpretation Skill Drill 6: Performing Transcutaneous Pacing (Caroline: 1000) Child CPR and Obstructed Airway</p>	<p>Bledsoe/Clayden</p> <p>Student must know medication name, mechanism of action, indications, contraindications, complications, routes of administration, side effects, interactions, dose and any specific administration considerations</p>	<p>Bledsoe/Clayden - Appendix B</p> <p>Phenytoin – Pg. 468 Edrophonium – Pg. 440 Magnesium Sulfate – Pg. 455 Atropine – Pg. 431</p>	

<p>9 March 9-15</p>	<p>Cardiovascular Emergencies Caroline: Chapter 17 Pgs. 1011 - 1035</p> <p><b>LAB</b> ECG Interpretation Administering Sublingual Nitroglycerin Cardiac Arrest Management</p>	<p>Bledsoe/Clayden</p> <p>Student must know medication name, mechanism of action, indications, contraindications, complications, routes of administration, side effects, interactions, dose and any specific administration considerations</p>	<p>Bledsoe/Clayden - Appendix B</p> <p>Digoxin – Pg. 436 Heparin – Pg. 446 Enoxaparin – Pg. 440 Clopidogrel – Pg. 434</p>	
<p>10 March 16-22</p>	<p>Review Chapter 17</p> <p>Exam 2</p> <p><b>LAB</b> ECG Interpretation Cardiac Arrest Management</p>	<p>Chapter 17: Prep Kit</p>	<p>Chapter 17: Assessment in Action – Pg. 1035</p>	<p><b>Exam 2 - 100 points Covering Chapter 17, primarily Pgs. 964 - 1035</b></p>
<p>11 March 22- March 29</p>	<p>Anatomy and Physiology Caroline: Chapter 7 Pgs. 232 – 240 Respiratory Emergencies Caroline: Chapter 16 Pgs. 850 – 863</p> <p><b>LAB</b> ECG Interpretation Skill Drill 12: Assisting Metered-Dose Inhaler (Caroline 530) Skill Drill 13: Administering Med via Nebulizer (Caroline 532)</p>	<p>Chapter 16: YOU are the Medic: Parts 1- 2</p> <p>Bledsoe/Clayden</p> <p>Student must know medication name, mechanism of action, indications, contraindications, complications, routes of administration, side effects, interactions, dose and any specific administration considerations</p>	<p>Bledsoe/Clayden - Appendix B</p> <p>Abciximab – Pg. 424 Eptifibatide – Pg. 442 Tirofiban – Pg. 479 Streptokinase – Pg. 477</p>	
<p>March 30 – April 5</p>	<p>Spring Break</p>			

<p>12 April 6-12</p>	<p>Respiratory Emergencies Caroline: Chapter 16 Pgs. 863 – 880</p> <p><b>LAB</b> ECG Interpretation Skill Drill 11: Using CPAP (Caroline: 765)</p>	<p>Chapter 16: YOU are the Medic: Part 3</p> <p>Bledsoe/Clayden</p> <p>Student must know medication name, mechanism of action, indications, contraindications, complications, routes of administration, side effects, interactions, dose and any specific administration considerations</p>	<p>Bledsoe/Clayden - Appendix B</p> <p>Anistreplase – Pg. 429 Alteplase – Pg. 426 Tenecteplase – Pg. 191 Reteplase – Pg. 472</p>	
<p>13 April 13-19</p>	<p>Respiratory Emergencies Caroline: Chapter 16 Pgs. 880 – 888</p> <p><b>LAB</b> ECG Interpretation Respiratory and Cardiac Patient Management</p>	<p>Chapter 16: YOU are the Medic: Part 4</p> <p>Bledsoe/Clayden</p> <p>Student must know medication name, mechanism of action, indications, contraindications, complications, routes of administration, side effects, interactions, dose and any specific administration considerations</p>	<p>Bledsoe/Clayden - Appendix B</p> <p>Sodium Bicarbonate – Pg. 474 Furosemide – Pg. 445 Bumetanide – Pg. 431 Calcium Chloride – Pg. 432</p>	
<p>14 April 20-26</p>	<p>Respiratory Emergencies Caroline: Chapter 16 Pgs. 888 – 907</p> <p><b>LAB</b> ECG Interpretation Respiratory and Cardiac Patient Management</p>	<p>Chapter 16: Prep Kit</p> <p>Bledsoe/Clayden</p> <p>Student must know medication name, mechanism of action, indications, contraindications, complications, routes of administration, side effects, interactions, dose and any specific administration considerations</p>	<p>Chapter 16: Assessment in Action – Pg. 907</p> <p>Bledsoe/Clayden - Appendix B</p> <p>Nesiritide – Pg. 461 Nicardipine – Pg. 462 Clevidipine – Pg. 433 Nifedipine – Pg. 462</p>	

<p>15 April 27 - May 3</p>	<p>Exam 3  Review Chapters 16 &amp; 17  <b>LAB</b> ECG Interpretation Respiratory and Cardiac Patient Management</p>	<p>Bledsoe/Clayden  Student must know medication name, mechanism of action, indications, contraindications, complications, routes of administration, side effects, interactions, dose and any specific administration considerations</p>	<p>Bledsoe/Clayden - Appendix B  Enalaprilat – Pg. 440 Captopril – Pg. 432 Sodium Nitroprusside – Pg. 475 Hydralazine – Pg. 447</p>	<p><b>Exam 3 - 100 points Covering Chapter 16</b></p>
<p>16 May 4-8</p>	<p>Final Exam Week</p>			<p><b>Final Exam - 150 points Covering Chapters 16-17</b></p>