

Dakota College at Bottineau Course Syllabus

Course Prefix/Number/Title: EMS 218 - Respiratory Emergencies

Number of credits: 1 credits

Course Description:

This course prepares the student to assess, manage and treat various respiratory emergencies.

Respiratory emergencies are some of the most common conditions EMS personnel encounter. This course will focus on the most frequently encountered respiratory emergencies and prepare the student or prompt management, including the skill of rapid sequence intubation.

Pre-/Co-requisites: none

Course Objectives:

UNIT TERMINAL OBJECTIVE

5-2 At the completion of this unit, the paramedic student will be able to integrate pathophysiological principles and assessment findings to formulate a field impression and implement the treatment plan for the patient with respiratory emergencies.

COGNITIVE OBJECTIVES

At the completion of this unit, the paramedic student will be able to:

1. Discuss the epidemiology of pulmonary diseases and pulmonary conditions.
2. Identify and describe the function of the structures located in the upper and lower airway.
3. Discuss the physiology of ventilation and respiration.
4. Identify common pathological events that affect the pulmonary system.
5. Compare various airway and ventilation techniques used in the management of pulmonary diseases.
6. Review the use of equipment utilized during the physical examination of patients with complaints associated with respiratory diseases and conditions.
7. Identify the epidemiology, anatomy, physiology, pathophysiology, assessment findings, and management (including prehospital medications) for the following respiratory diseases and conditions:
 - Adult respiratory distress syndrome
 - Bronchial asthma
 - Chronic bronchitis
 - Emphysema
 - Pneumonia
 - Pulmonary edema
 - Pulmonary thromboembolism
 - Neoplasms of the lung
 - Upper respiratory infections
 - Spontaneous pneumothorax
 - Hyperventilation syndrome

8. Given several preprogrammed patients with nontraumatic pulmonary problems, provide the appropriate assessment, prehospital care, and transport.

AFFECTIVE OBJECTIVES

At the completion of this unit, the paramedic student will be able to:

- 5-2.184 Value the sense of urgency for initial assessment and intervention in the patient with cardiac compromise. (A-3)
- 5-2.185 Value and defend the sense of urgency necessary to protect the window of opportunity for reperfusion in the patient with suspected myocardial infarction. (A-3)
- 5-2.186 Defend patient situations where ECG rhythm analysis is indicated. (A-3)
- 5-2.187 Value and defend the application of transcutaneous pacing system. (A-3)
- 5-2.188 Value and defend the urgency in identifying pacemaker malfunction. (A-3)
- 5-2.189 Based on the pathophysiology and clinical evaluation of the patient with acute myocardial infarction, characterize the clinical problems according to their life-threatening potential. (A-3)
- 5-2.190 Defend the measures that may be taken to prevent or minimize complications in the patient with a suspected myocardial infarction. (A-3)
- 5-2.191 Defend the urgency based on the severity of the patient=s clinical problems in a hypertensive emergency. (A-3)
- 5-2.192 From the priority of clinical problems identified, state the management responsibilities for the patient with a hypertensive emergency. (A-3)
- 5-2.193 Value and defend the urgency in rapid determination of and rapid intervention of patients in cardiac arrest. (A-3)
- 5-2.194 Value and defend the possibility of termination of resuscitative efforts in the out-of-hospital setting. (A-3)
- 5-2.195 Based on the pathophysiology and clinical evaluation of the patient with vascular disorders, characterize the clinical problems according to their life-threatening potential. (A-3)
- 5-2.196 Value and defend the sense of urgency in identifying peripheral vascular occlusion. (A-3)
- 5-2.197 Value and defend the sense of urgency in recognizing signs of aortic aneurysm. (A-3)

PSYCHOMOTOR OBJECTIVES

At the completion of this unit, the paramedic student will be able to:

- 5-2.198 Demonstrate how to set and adjust the ECG monitor settings to varying patient situations. (P-3)
- 5-2.199 Demonstrate a working knowledge of various ECG lead systems. (P-3)
- 5-2.200 Demonstrate how to record an ECG. (P-2)

Instructor: Wayne Fahy and Kelli Sears

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Lecture/Lab Schedule: Mondays and Thursdays from 6:15-10:15 pm

Course Requirements: Regular classroom attendance. Completion of required assignments and exams.

Textbook(s): Paramedic Care Principles & Practice. Bledsoe/Porter/Cherry –Brady 4th edition

Tentative Course Outline: See course objectives for a detail list of topics to be covered.

General Education Goals/Objectives: Not identified as a general education course.

Relationship to Campus Theme: The goal of the Paramedic (EMT) program is to prepare professionals to work in the emergency medical services industry. Paramedic degree programs are fulfilling an emerging need in the health care industry. The Paramedic program is committed to a hands-on learning environment and uses field experiences and emerging technologies in emergency medical services as common instructional techniques.

Classroom Policies: See CAS/Dakota College at Bottineau Paramedic Program Guide

Academic Integrity: The academic community is operated on the basis of honesty, integrity and fair play. Occasionally, this trust is violated when cheating occurs, either inadvertently or deliberately this code will serve as the guideline for cease where cheating, plagiarism or academic improprieties have occurred.

1. The primary responsibility of the students, faculty and administration is to create an atmosphere where the honesty of individuals will not be questioned.
 - a. Faculty members are responsible for providing guidelines concerning cheating and plagiarism at the beginning of each course, and should use precautionary measures and security in cases where cheating is likely to occur.
 - b. Students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred.

View the [Plagiarism Tutorial-Pearson Education](http://wps.prenhall.com/hss_understand_plagiarism_1/6/1668/427064.cw/index.html) to learn more about plagiarism, citing sources, etc. (http://wps.prenhall.com/hss_understand_plagiarism_1/6/1668/427064.cw/index.html)

Disabilities and Special Needs: Please inform the instructor within the first week of classes if any assistance is required due to disabilities or special needs.