Course Syllabus

EMSP 2434 – Medical Emergencies

Revision Date: 8/22/2016

Catalog Description: A detailed study of the knowledge and skills in the assessment and management of patients with medical emergencies.

Lecture hours = 3, Lab hours = 2

Prerequisites: EMSP 2404, 1501, 1361, 1338, 1356, 1355, 2205, 2260, 2306 and a current CPR (Healthcare Provider/Professional Rescuer) certification.

Co-requisite: EMSP 2434, EMSP 2330, EMSP 2143, EMSP 2444

Semester Credit Hours: 4

Lecture Hours per Week: 3

Lab Hours per Week: 2

Contact Hours per Semester: 80

State Approval Code: 51.0904

Instructional Goals and Purposes: The purpose of this course is for the student to be able to integrate pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan for the medical patient.

Learning Outcomes:

Integrate pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan for the cardiac patient. Curriculum based on U.S. Department of transportation National Standard Curriculum.

Specific Course Objectives (includes SCANS):

After studying all materials and resources presented in the course, the student will be able to:

1. Describing the pathophysiology principles and assessment findings needed to treat the patient with respiratory problems. (1Ai, iv, v; B I, ii, iii, iv, v, vi; Ci, ii, iii, iv, v; 2Bi, ii, iii)

2. Describing the pathophysiology principles and assessment findings needed to treat the patient with neurological problems. (1Ai, iv, v; Bi, ii, iii, iv, v, vi; Ci, ii, iii, iv, v; 2Bi, ii, iii)

3. Describing the pathophysiology principles and assessment findings needed to treat the patient with endocrine problems. (1Ai, iv, v; Bi, ii, iii, iv, v, vi; Ci, ii, iii, iv, v; 2Bi, ii, iii)

4. Describing the pathophysiology principles and assessment findings needed to treat the patient with an allergy or having an anaphylaxis reaction. (1Ai, iv, v; Bi, ii, iii, iv, v, vi; Ci, ii, iii, iv, v; 2Bi, ii, iii)

5. Describing the pathophysiology principles and assessment findings needed to treat the patient with gastroenterological problems. (1Ai, iv, v; Bi, ii, iii, iv, v, vi; Ci, ii, iii, iv, v; 2Bi, ii, iii)

6. Describing the pathophysiology principles and assessment findings needed to treat the patient having a toxicological problem. (1Ai, iv, v; Bi, ii, iii, iv, v, vi; Ci, ii, iii, iv, v; 2Bi, ii, iii)

7. Describing the pathophysiology principles and assessment findings needed to treat the patient having hematological problems. (1Ai, iv, v; Bi, ii, iii, iv, v, vi; Ci, ii, iii, iv, v; 2Bi, ii, iii)

8. Describing the pathophysiology principles and assessment findings needed to treat the patient having an environmentally induced or exacerbated medical or traumatic condition. (1Ai, iv, v; Bi, ii, iii, iv, v, vi; Ci, ii, iii, iv, v; 2Bi, ii, iii)

9. Describing the pathophysiology principles and assessment findings needed to treat the patient with an infectious or communicable disease. (1Ai, iv v; Bi, ii, iii, iv, v, vi; Ci, ii, iii, iv, v; 2Bi, ii, iii)

10. Describing the pathophysiology principles and assessment findings needed to treat the patient with a gynecological or obstetric problem. (1Ai, iv, v; Bi, ii, iii, iv, v, vi; Ci, ii, iii, iv, v; 2Bi, ii, iii)

11. Describing general pharmacology and proper administration of pre-hospital drug applications. (1Ai, iv, v; Bi, ii, iii, iv, vi, vi; Ci, ii, iii, iv, v; 2Bi, ii, iii)

Course Content:
A general description of lecture/discussion topics included in this course are listed in the Learning Objectives / Specific Course Objectives sections of this syllabus.

Students in all sections of this course will be required to do the following:

1. See specific course objectives

Methods of Instruction/Course Format/Delivery:

This course is offered in a face to face lecture and lab format.

Major Assignments / Assessments:
The following items will be assigned and assessed during the semester and used to calculate the student's final grade.

Assignments

1. Students will have assignments consisting of pre-test, homework, and posttest and chapter test assigned through MYBRADYLAB for chapters 1& 3-13.

Assessment(s):

1. Medical Exam 1 (Ch 1, 3-7)
2. Medical Exam 2 (Ch 8-13)

Course Grade:
The grading scale for this course is as follows:

90%-100%	A
80-89.99%	B
70-79.99%	C
60-69.99%	D
50-59.99%	F

Texts, Materials, and Supplies:

- Paramedic Care Principles and Practice, 4th Edition, Bledsoe, Pearson Publishing;
- MYBRADYLAB

Required Readings:

- Volume 4, Chapters 1-13

Recommended Readings:

Other:

- For current texts and materials, use the following link to access bookstore listings: http://www.panolacollegestore.com
- For testing services, use the following link: http://www.panola.edu/elearning/testing.html
- If any student in this class has special classroom or testing needs because of a physical learning or emotional condition, please contact the ADA Student Coordinator in Support Services located in the Administration Building or go to http://www.panola.edu/student-success/disability-support-services/ for more information.
- Withdrawing from a course is the student's responsibility. Students who do not attend class and who do not withdraw will receive the grade earned for the course.
- Student Handbook, *The Pathfinder:* http://www.panola.edu/student-success/documents/pathfinder.pdf

SCANS CRITERIA

1) **Foundation skills are defined in three areas: basic skills, thinking skills, and personal qualities.**

   a) **Basic Skills**: A worker must read, write, perform arithmetic and mathematical operations, listen, and speak effectively. These skills include:
      i) Reading: locate, understand, and interpret written information in prose and in documents such as manuals, graphs, and schedules.
      ii) Writing: communicate thoughts, ideas, information, and messages in writing, and create documents such as letters, directions, manuals, reports, graphs, and flow charts.
      iii) Arithmetic and Mathematical Operations: perform basic computations and approach practical problems by choosing appropriately from a variety of mathematical techniques.
      iv) Listening: receive, attend to, interpret, and respond to verbal messages and other cues.
      v) Speaking: Organize ideas and communicate orally.

   b) **Thinking Skills**: A worker must think creatively, make decisions, solve problems, visualize, know how to learn, and reason effectively. These skills include:
      i) Creative Thinking: generate new ideas.
      ii) Decision Making: specify goals and constraints, generate alternatives, consider risks, and evaluate and choose the best alternative.
      iii) Problem Solving: recognize problems and devise and implement plan of action.
      iv) Visualize ("Seeing Things in the Mind's Eye"): organize and process symbols, pictures, graphs, objects, and other information.
      v) Knowing How to Learn: use efficient learning techniques to acquire and apply new knowledge and skills.
      vi) Reasoning: discover a rule or principle underlying the relationship between two or more objects and apply it when solving a problem.

   c) **Personal Qualities**: A worker must display responsibility, self-esteem, sociability, self-management, integrity, and honesty.
      i) Responsibility: exert a high level of effort and persevere toward goal attainment.
      ii) Self-Esteem: believe in one's own self-worth and maintain a positive view of oneself.
      iii) Sociability: demonstrate understanding, friendliness, adaptability, empathy, and politeness in group settings.
      iv) Self-Management: assess oneself accurately, set personal goals, monitor progress, and exhibit self-control.
      v) Integrity and Honesty: choose ethical courses of action.

2) **Workplace competencies are defined in five areas: resources, interpersonal skills, information, systems, and technology.**

   a) **Resources**: A worker must identify, organize, plan, and allocate resources effectively.
      i) Time: select goal-relevant activities, rank them, allocate time, and prepare and follow schedules.
      ii) Money: Use or prepare budgets, make forecasts, keep records, and make adjustments to meet objectives.
      iii) Material and Facilities: Acquire, store, allocate, and use materials or space efficiently.
      Examples: construct a decision time line chart; use computer software to plan a project; prepare a budget; conduct a cost/benefits analysis; design an RFP process; write a job description; develop a staffing plan.

   b) **Interpersonal Skills**: A worker must work with others effectively.
      i) Participate as a Member of a Team: contribute to group effort.
      ii) Teach Others New Skills.
      iii) Serve Clients/Customers: work to satisfy customer's expectations.

iv) Exercise Leadership: communicate ideas to justify position, persuade and convince others, responsibly challenge existing procedures and policies.
v) Negotiate: work toward agreements involving exchange of resources, resolve divergent interests.
vi) Work with Diversity: work well with men and women from diverse backgrounds.

Examples: collaborate with a group member to solve a problem; work through a group conflict situation, train a colleague; deal with a dissatisfied customer in person; select and use appropriate leadership styles; use effective delegation techniques; conduct an individual or team negotiation; demonstrate an understanding of how people from different cultural backgrounds might behave in various situations.

c) **Information**: A worker must be able to acquire and use information.
   i) Acquire and Evaluate Information.
   ii) Organize and Maintain Information.
   iii) Interpret and Communicate Information.
   iv) Use Computers to Process Information.

   Examples: research and collect data from various sources; develop a form to collect data; develop an inventory record-keeping system; produce a report using graphics; make an oral presentation using various media; use on-line computer data bases to research a report; use a computer spreadsheet to develop a budget.

d) **Systems**: A worker must understand complex interrelationships.
   i) Understand Systems: know how social, organizational, and technological systems work and operate effectively with them.
   ii) Monitor and Correct Performance: distinguish trends, predict impacts on system operations, diagnose deviations in systems' performance and correct malfunctions.
   iii) Improve or Design Systems: suggest modifications to existing systems and develop new or alternative systems to improve performance.

   Examples: draw and interpret an organizational chart; develop a monitoring process; choose a situation needing improvement, break it down, examine it, propose an improvement, and implement it.

e) **Technology**: A worker must be able to work with a variety of technologies.
   i) Select Technology: choose procedures, tools or equipment including computers and related technologies.
   ii) Apply Technologies to Task: understand overall intent and proper procedures for setup and operation of equipment.
   iii) Maintain and Troubleshoot Equipment: Prevent, identify, or solve problems with equipment, including computers and other technologies.

   Examples: read equipment descriptions and technical specifications to select equipment to meet needs; set up and assemble appropriate equipment from instructions; read and follow directions for troubleshooting and repairing equipment.