

Course Syllabus

NOTE: This syllabus is subject to change during the semester. Please check this syllabus on a regular basis for any updates.

Department : Emergency Services
Course Title : Cardiology
Section Name : EMSP 2444
Start Date : 1/18/2011
End Date : 5/12/2011
Modality : WEB ENHANCED
Credits : 4

Instructor Information

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Course Description

Assessment and management of patients with cardiac emergencies. Includes single and multi-lead ECG interpretation The American Heart Association, Advanced life Support course curriculum material is included. Lab Fee Required.

Prerequisites/Co requisites

EMSP 1165; EMSP 2434; EMSP 1355

Scans

SCANS 1, 2, 5, 8, 9, 10, 11

Course Objectives

Course objectives utilize the framework of Differentiated Entry Level Competencies. On completion of this course, students should be able to perform in the following roles:

Provider of Care:

1. Analyze health care deviations in the patient experiencing complex alterations in multisystem functioning.
2. Correlate the physiological effects of aging with the patient's ability to recuperate from complex health needs involving multiple body systems.
3. Integrate elements of pre-hospital emergency care with patients experiencing complex health needs involving multiple body systems.
4. Utilize decision making skills, research-based findings, psychosocial, and cultural knowledge in planning and communicating care for patients with complex health needs involving multiple body systems.
5. Integrate knowledge of cognitive, psychomotor and affective skills essential for providing pre-hospital emergency care to patients with complex health needs involving multiple body systems.
6. Appraise the legal and professional implications that relate to the care of patients with complex health care needs involving multiple body systems.
7. Analyze physiological actions, side effects, and rationale, of pharmacological agents utilized in the care of patients with complex health needs involving multiple body systems.

Coordinator of Care:

8. Compose teaching relevant to health promotion/disease prevention for patients and their families to facilitate adaptation to complex health needs involving multiple body systems.
9. Examine economic and political issues impacting care of patients with complex health needs involving multiple body systems.
10. Identify a variety of community resources that assist patients with complex health needs involving multiple body systems to achieve an optimal level of health or to prepare terminal clients for death.

Member of a Profession:

11. Examine professional attributes of caring that assist the patient to adapt to complex health alterations within the critical care environment.
12. Justify situations which would necessitate advocacy for the patient within the critical care environment.

Learning Outcomes:

The student will be able to

1. Utilize critical thinking skills and a systematic problem-solving process as a

- framework for providing care for patients with complex health care needs involving multiple body systems in emergency and critical care settings
2. Analyze the roles of the professional paramedic in the provision of care for patients and families.

Required Readings/Materials

- a) You must purchase the following *required* readings/materials:

Bledsoe, Porter, Cherry (2008). *Paramedic Care 1-5* (3rd Ed.). Pearson, Prentice Hall: Upper Saddle River, NJ

Walraven (2006), *Basic Arrhythmias* (7th Ed.) Pearson, Prentice Hall: Upper Saddle River, NJ

**American Heart Association (2008), *ACLS Resource Text for Instructors and Experienced Providers*, Channing Bete Compay: South Deerfield, MA

**American Heart Association (2008), *Advanced Cardiovascular Life Support Provider Manual*, Channing Bete Compay: South Deerfield, MA

***New Version Pending*

- b) You are encouraged to buy the following *optional* books/materials

Pagana, K.D. & Pagana, T.J. (2006) *Mosby's Manual of Diagnostic & Laboratory Test* (3rd Ed). Mosby: St Louis

Mosby (2006). *Mosby's Dictionary of Medicine, Nursing, and Health Professions* (7th Ed.). Mosby; St Louis

Deglin, J. & Vallerand, A. (2006). *Davis Drug Guide for Nurses* (10th Ed.). Davis: Philadelphia

Course Requirements (Lectures, Assignments and Assessments)

UNIT OUTLINE:

- I. Cardiac Rhythm Interpretation
- II. Brady Vol. 3 Chapter 2 Cardiology
- III. Advanced Cardiac Life Support Course

LABORATORY COMPONENT OF EMSP 2444

The laboratory component of EMSP 1338 is designed to improve clinical skills and critical thinking skills. The following skills that will be taught or reviewed:

1. Successful completion of the Medication Math Competency Examination (grade of 70 or better)
2. Successful completion of NREMT Static Cardiology
3. Successful Completion of NREMT Dynamic Cardiology
4. Completion of the Advanced Cardiac Life Support Provider Course

A grade of PASS is required on each skill.

Two opportunities will be allowed to pass each skill.

The first opportunity is the Test and the second is the Re-Test.

Remedial training will be mandatory and successfully completed before the Re-Test.

Failure to pass both written and all laboratory portions of EMSP 2444 will result in a grade of F, regardless of the actual numerical grade, and prohibits registering for any other EMSP courses.

Unit and final exams will be constructed from a random sample of the material studied in each unit. These questions will mostly be done in the form of multiple choice questions. However, there may be some short essay questions. Drug calculation questions may also be on any major exam. Consult the course schedule for exam dates.

Home work assignments must be turned in / completed on or before the due date no late assignments will be accepted unless arrangements have been made with the instructor prior to their deadline.

Lab Participation / preparation grades are subjective and will be determined by the Skills Instructors.

A course grade of 70 or better is required to pass EMSP 2444. **No assignments are optional.** In order to receive a passing grade in EMSP 2444, the student must be successfully completed all skills with a grade of pass in each skill.

Medication Math Competency

The examination will contain 25 calculation questions form the following categories:

Conversion between and within systems

Calculations of medication doses administered IM, SC, or IV given by a syringe

Calculations of medication doses administered PO in liquids, tablets, or capsules

Combination problems such as calculating weight and dosage

Calculation of IV flow rates/administration rates by gravity flow and by infusion pump

Titration of IV medications (mcg/kg/min)

A minimum passing grade is 70%. Students not passing the first exam will take a second exam after completing a minimum of two hours of documented remediation. If the second attempt is not successful, the student will be allowed a third attempt after completing a mandatory individualized remediation plan. The third exam can be taken no later than the day of the final examination for EMSP 2444 Cardiology.

Grading Policy

Grades will be calculated as follows and averaged for the final course grade:

Homework and quizzes	10%
Lab participation /preparation	10%
Cardiac Rhythm Interpretation Unit Exam	25%
Cardiology (Vol. 3 Chapter 2) Unit Exam	25%
Final exam	30%

A course final grade below 70, “C”, does not meet criteria for progression/graduation. Students must meet all course requirements, or a grade of D or F will be assigned according to the above scale. Grades below 70 will not be rounded up.

The final exam will be a comprehensive exam Students must make at least a 70 on the Final Exam to receive a passing grade in EMSP 2444.

All exams missed due to absence must be made up before the next scheduled class meeting. If an exam is not made up, the student will receive a “0” for that exam and the grades will be averaged accordingly. **This policy is not negotiable.** The student may expect an alternate method of testing for the make up exam. **NOTE: Students will be allowed make up exams only if they have notified the instructor prior to the scheduled time of the exam.**

Each week, I will provide grades or scores and comments on assignments within 6 days of when they were submitted. After I send feedback each week, I will post a notification in the **Main** forum.

Late assignments receive a 10% deduction for each day they are late if assignments are not posted by 11:59 p.m. central on the day they are due. Assignments more than 5 days late will not be accepted. Technological issues will not be considered as valid grounds for late assignment submission. In the event of a server outage, students should submit assignments to the instructor.

Percentage %	Grade
90 +	A
80 - 90	B
70 - 80	C
60 - 70	D
Less than 60	F

Special Needs

Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have any special needs or issues pertaining to your access to and participation in this or any other class at Odessa College, please feel free to contact me to discuss your concerns. You may also call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

Learning Resource Center (Library)

The Library, known as the [Learning Resources Center](#), provides research assistance via the [LRC's catalog \(print books, videos, e-books\)](#) and [databases \(journal and magazine articles\)](#). [Research guides](#) covering specific subject areas, [tutorials](#), and the "[Ask a Librarian](#)" service provide additional help.

Student E-mail

Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

Student Portal

Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

Technical Support

For Blackboard username and password help and for help accessing your online course availability and student email account contact the Student Success Center at 432-335-6878 or online at https://www.odessa.edu/dept/ssc/helpdesk_form.htm.

Important School Policies

For information regarding student support services, academic dishonesty, disciplinary actions, special accommodations, or students and instructors' right to academic freedom can be found in the [Odessa College Student Handbook](#).