

# Course Syllabus

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**Department** : Emergency Services  
**Course Title** : Anatomy & Physiology for Medical Assistant  
**Section Name** : MDCA\_1409\_WB  
**Start Date** : 8/22/2011  
**End Date** : 12/15/2011  
**Modality** : ONLINE  
**Credits** :4

## Instructor Information

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**Name** : Steve Berry  
**OC Email** : sberry@odessa.edu  
**OC Phone #** : (432) 335-6471

## Course Description

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Emphasis on structure and function of human cells, tissues, organs, and systems with an overview of common pathophysiology as is relevant to the practice of Emergency medicine. In the online laboratory, students will learn how to calculate medication dosages and the anatomy of various organs and systems

## Prerequisites/Co requisites

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EMSP 1160; EMSP 1501 or program admission with EMSP 1356, EMSP 1338, EMSP 1164, and HPRS 1106

## [Scans](#)

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1, 2, 3, 6, 7, 8, 9, 10

## Course Objectives

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The objective of this course is to provide the student with the level of detail in anatomy and physiology needed to enable the student to undertake further study in pre-hospital and in-hospital paramedic care. Students will identify and correlate cells, tissues, organs, and systems of the human body; differentiate normal from abnormal structure and function; and identify all body systems, their organs, and relevant pathophysiology, as well as learn to calculate medication dosages and Intravenous drip rates based on body weight and simulated protocols.

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*Learning Outcomes:* Utilize critical thinking skills and a systematic problem-solving process as a framework for analyzing the structure and function of multiple body systems and their base components in emergency and critical care settings; and to analyze common pathophysiology that may be encountered by the professional paramedic in the provision of care for patients and families.

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### **Required Readings/Materials**

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

Anatomy and Physiology for Emergency Care 2e, Brady, Upper Saddle River, NJ 07458

Drug Dosage Calculations for the Emergency Care Provider 2e, Brady, Upper Saddle River. NJ 07458

- 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* (3<sup>rd</sup> Ed). Mosby: St Louis

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

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

### **Course Requirements (Lectures, Assignments and Assessments)**

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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 matching, labeling and short essay questions. Drug calculation questions may also be on any major exam. Consult the course schedule for exam dates.

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 matching, labeling and true false questions. Drug calculation questions may also be on any exam. Consult the course schedule for exam details.

The final exam is comprehensive.

**Topic/Overview:**

**Summary of Assignments & Activities**

<b>Item(Name)</b>	<b>Type</b>	<b>Description</b>	<b>Due*</b>
Week 1	Homework and Discussion Board 1	Chapter 1/ Math 1	8/28/11
Week 2	Homework and Discussion Board 2	Chapters 2,3 / Math 2	9/4/11
Week 3	Homework and Discussion Board 3	Chapter 4 / Math 3	9/11/11
Week 4	Homework and Discussion Board 4, Unit Test 1	Chapter 5 / Math 4	9/18/11
Week 5	Homework and Discussion Board 5	Chapter 6 / Math 5	9/25/11
Week 6	Homework and Discussion Board 6	Chapter 7,8 / Math 6	10/2/11
Week 7	Homework and Discussion Board 7	Chapter 9 / Math 7	10/9/11
Week 8	Homework and Discussion Board 8	Chapter 10, Unit Test 2 Math 8	10/16/11
Week 9	Homework and Discussion Board 9	Chapter 11 / Math 9	10/23/11
Week 10	Homework and Discussion Board 10	Chapter 12,13 Math 10	10/30/11

Week 11	Homework and Discussion Board11	Chapter 14 / Math 11	11/6/11
Week 12	Homework and Discussion Board12	Chapter 15 Unit Test 3 Math 12	11/13/11
Week 13	Homework and Discussion Board13	Chapter 16 / Math 13	11/20/11
Week 14	Homework and Discussion Board14	Chapter 17, 18 / Math 14	12/4/11
Week 15	Homework and Discussion Board15	Chapter 19, 20 Math 15	12/11/11
Week 16	Homework and Discussion Board16	Unit Test 4 Final Math 16	12/14/11

### **Grading Policy**

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

Average of 4 Exams 40%

Lab exercises/ Homework /Discussion Board 40%

Final exam 20%

All 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.

<b>Percentage %</b>	<b>Grade</b>
90-100	A
80-90	B
70-80	C
60-70	D
0-60	F

## Special Needs

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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)

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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

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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

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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

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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](https://www.odessa.edu/dept/ssc/helpdesk_form.htm).

## Important School Policies

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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](#).