



**Department:** Emergency Medical Services Professional

**Course Title:** Cardiology

**Section Name:** EMSP 2444.BSS

**Semester:** Spring 2013

**Time:** 13:30 – 16:15 Monday - Wednesday

**Classroom:** EST 105

**Instructor:** Stephen Berry

**Email:** sberry@odessa.edu

**Office:** EST 104

**Phone:** 432 335 6471

**Office Hours:** Monday –Wednesday 4:15-5:30 Thursday 12:00-5:30

**Course Description:**

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

**End-of-Course Outcomes:**

Integrate pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan for the cardiac patient.

**Required Texts:**

Bledsoe, Porter, Cherry (2008). *Paramedic Care 1-7* (4<sup>th</sup> Ed.). Pearson, Prentice Hall: Upper Saddle River, NJ

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

American Heart Association (2010), *Advanced Cardiovascular Life Support Provider Manual*, Channing Bete Company: South Deerfield, MA

Page (2005). *12 lead ECG for Acute and Critical Care Providers*. Pearson, Prentice Hall: Upper Saddle River, NJ

EMSTESTING.Com Paramedic Student access code

**Recommended Texts:**

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:

**Description of Institutional Core Objectives (ICO’s)**

Given the rapid evolution of necessary knowledge and skills and the need to take into account global, national, state, and local cultures, the core curriculum must ensure that students will develop the essential knowledge and skills they need to be successful in college, in a career, in their communities, and in life. Therefore, with the assistance of the Undergraduate Education Advisory Committee, the Coordinating Board has approved guidelines for a core curriculum for all undergraduate students in Texas.

Through the application and assessment of objectives within the institution’s core curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world; develop principles of personal and social responsibility for living in a diverse world; and advance intellectual and practical skills that are essential for all learning. Appropriate Odessa College faculty periodically evaluates all of the courses listed in the descriptions on the following pages of this catalog and keys them to Odessa College’s Institutional Core Objectives (ICOs), as defined by the Texas Higher Education Coordinating Board (THECB). (Source: *Odessa College Catalog of Courses 2012-2013, page 73*)

**Odessa College’s Institutional Core Objectives (ICOs):**

- 1) *Critical Thinking Skills* - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- 2) *Communication Skills* - to include effective development, interpretation and expression of ideas through written, oral and visual communication
- 3) *Empirical and Quantitative Skills* - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
- 4) *Teamwork* - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
- 5) *Personal Responsibility* - to include the ability to connect choices, actions and consequences to ethical decision-making
- 6) *Social Responsibility* - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

**Learning Outcomes for EMSP 2444    ICO 1**

<b>Outcome</b>	<b>ICO</b>
<b>Analysis of cardiac rhythms to formulate a field impression and treatment plan</b>	<i>Critical Thinking Skills</i> - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
	<i>Communication Skills</i> - to include effective development, interpretation and expression of ideas through written, oral and visual communication

	<i>Empirical and Quantitative Skills</i> - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
	<i>Teamwork</i> - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
	<i>Personal Responsibility</i> - to include the ability to connect choices, actions and consequences to ethical decision-making
	<i>Social Responsibility</i> - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

## **Odessa College Policies**

### **Academic Policies**

Note that the OC Student Handbook states (page 32) that “[i]n cases of academic dishonesty, the instructor has the authority to impose appropriate scholastic penalties. Complaints or appeals of disciplinary sanctions may be filed in accordance with the college due process procedure. Copies of the college due process procedure are available in the office of The Director of Student Life (CC104).”

For more information on your rights and responsibilities as a student at Odessa College, please refer to the following: *The 411 of OC: Student Handbook 2012-2013; Student Rights & Responsibilities*  
<http://www.odessa.edu/dept/studenthandbook/handbook.pdf>

### **Scholastic Dishonesty**

Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by board policies. Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism and collusion.

#### **"Cheating on a test" shall include:**

- Copying from another student's test paper
- Using test materials not authorized by the person administering the test.
- Collaborating with or seeking aid from another student during a test without permission from the test administrator.
- Knowingly using, buying, selling, stealing or soliciting, in whole or in part, the contents of an unadministered test.
- The unauthorized transporting or removal, in whole or in part, of the contents of the unadministered test.
- Substituting for another student, or permitting another student to substitute for

one's self, to take a test.

- Bribing another person to obtain an unadministered test or information about an unadministered test.
- "Plagiarism" shall be defined as the appropriating, buying, receiving as a gift, or obtaining by any means another's work and the unacknowledged submission or incorporation of it in one's own written work.
- "Collusion" shall be defined as the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements. (Source: *Odessa College Student Handbook 2012-2013, page 29-30*)

### **Special Populations/Disability Services/Learning Assistance**

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.

Odessa College affirms that it will provide access to programs, services and activities to qualified individuals with known disabilities as required by **Section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990 (ADA)**, unless doing so poses an undue hardship or fundamentally alters the nature of the program or activity. Disabilities may include hearing, mobility or visual impairments as well as hidden disabilities such as chronic medical conditions (arthritis, cancer, diabetes, heart disease, kidney disorders, lupus, seizure disorders, etc.), learning disabilities or psychiatric or emotional disabilities. A student who comes to Odessa College with diagnosed disabilities which may interfere with learning may receive accommodations when the student requests them and submits proper documentation of the diagnosis. A Request for Accommodations form and guidelines for beginning the request process are available in the OC Help Center or on the Odessa College web site at [www.odessa.edu/dept/counseling/disabilities.htm](http://www.odessa.edu/dept/counseling/disabilities.htm). The college strives to provide a complete and appropriate range of services for students with disabilities such as assistance with testing, registration, information on adaptive and assistive equipment, tutoring, assistance with access and accommodations for the classroom where appropriate. For information regarding services, students with disabilities should contact the Office of Disability Services in the OC Help Center located in Room 204 of the Student Union Building or call 432-335-6433. (Source: *Odessa College Catalog of Courses 2012-2013, page 52*)

### **Dropping a Course or Withdrawing from College**

Students wishing to drop a non-developmental course may do so online using Web Advisor, at the Wrangler Express, or Registrar's Office. A student wishing to drop a developmental course or withdraw from college should obtain a drop or withdrawal form from the Wrangler Express or the Registrar's Office. Students are encouraged to consult with instructors prior to dropping a class. Students may not completely withdraw from the college by use of the Web. Students must drop a class or withdraw from college before the official withdrawal date stated in the class schedule. Students who are part of the Armed Forces Reserves may withdraw with a full refund if the withdrawal is due to their being ordered into active duty. A copy of the student's orders must be presented to the Registrar's Office at the time of the withdrawal. For details, please contact the Office of the Registrar. **No longer attending class does not automatically constitute withdrawal from that class, nor does a student's notification to an instructor that the student wishes to be dropped. Failure of a student to complete the drop/withdrawal process will result in a grade of "F."** (Source: *Odessa College Catalog of Courses 2012-2013, page 36*)

### **Learning Resource Center (LRC; 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 Success Center (SSC)**

Located in the LRC, the Student Success Center (SSC) provides assistance to students in meeting their academic and career goals. We strive to provide new and updated resources and services at no charge to OC students. Academic support services include tutoring, study skills training, workshops, and the mentoring program. Tutoring is available for a variety of subjects including college mathematics, English, government, history, speech, chemistry, biology, and all developmental coursework. Appointments are preferred, but walk-ins will be served as soon as possible. Smarthinking online tutoring is also available. All computers in the center have Internet access, Microsoft Office, and software resources to assist OC students in improving their reading, writing and mathematical skills. The center also offers special assistance to students preparing for the THEA/COMPASS test. Computer lab assistants are available to assist students with student email, Blackboard, OC portal, Course Compass and more. For more information or to make an appointment, please call 432-335-6673 or visit [www.odessa.edu/dept/ssc/](http://www.odessa.edu/dept/ssc/) (Source: *Odessa College Catalog of Courses 2012-2013, page 54*)

### **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/>. **Correspondence will be submitted using your Odessa College email as an alternative method to contact you with information regarding this course.**

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

### **Expectations for Engagement – Face to Face Learning**

To help make the learning experience fulfilling and rewarding, the following Expectations for Engagement provide the parameters for reasonable engagement between students and instructors for the learning environment. Students and instructors are welcome to exceed these requirements.

#### *Reasonable Expectations of Engagement for Instructors*

1. As an instructor, I understand the importance of clear, timely communication with my students. In order to maintain sufficient communication, I will
  - provided my contact information at the beginning of the syllabus;
  - respond to all messages in a timely manner through telephone, email, or next classroom contact; and,
  - notify students of any extended times that I will be unavailable and provide them with alternative contact information (for me or for my supervisor) in case of emergencies during the time I'm unavailable.

2. As an instructor, I understand that my students will work to the best of their abilities to fulfill the course requirements. In order to help them in this area, I will
  - provide clear information about grading policies and assignment requirements in the course syllabus, and
  - communicate any changes to assignments and/or to the course calendar to students as quickly as possible.
3. As an instructor, I understand that I need to provide regular, timely feedback to students about their performance in the course. To keep students informed about their progress, I will
  - return classroom activities and homework within one week of the due date and
  - provide grades for major assignments within 2 weeks of the due date or at least 3 days before the next major assignment is due, whichever comes first.

*Reasonable Expectations of Engagement for Students*

1. As a student, I understand that I am responsible for keeping up with the course. To help with this, I will
  - attend the course regularly and line up alternative transportation in case my primary means of transportation is unavailable;
  - recognize that the college provides free wi-fi, computer labs, and library resources during regular campus hours to help me with completing my assignments; and,
  - understand that my instructor does not have to accept my technical issues as a legitimate reason for late or missing work if my personal computer equipment or internet service is unreliable.
2. As a student, I understand that it is my responsibility to communicate quickly with the instructor any issue or emergency that will impact my involvement with or performance in the class. This includes, but is not limited to,
  - missing class when a major test is planned or a major assignment is due;
  - having trouble submitting assignments;
  - dealing with a traumatic personal event; and,
  - having my work or childcare schedule changed so that my classroom attendance is affected.
3. As a student, I understand that it is my responsibility to understand course material and requirements and to keep up with the course calendar. While my instructor is available for help and clarification, I will
  - seek out help from my instructor and/or from tutors;
  - ask questions if I don't understand; and,
  - attend class regularly to keep up with assignments and announcements.

## Institutional Calendar Spring 2013

[http://www.odessa.edu/catalog/schedule/SP13/pg03\\_academic-calendar.pdf](http://www.odessa.edu/catalog/schedule/SP13/pg03_academic-calendar.pdf)

### Summer 2013

#### Summer I – First Term (6/10-7/11)

##### Registration:

On the Web (5am to midnight, 7 days a week).....Mar 1-Jun 9  
In Person (See business hours above).....Mar 1-Jun 7

##### \*\*\* Registration Payment Deadline

\*For students who register prior to May 23 .....Payment is DUE May 23 (Thurs)

\*For students who register on or after May 23..... Due on Day of Registration

Late Registration & Schedule Changes (Add/Drop)..... Jun 10 (Mon)

Classes Begin..... Jun 10 (Mon)

\* Classes are scheduled to meet one Friday during the Summer I session – Friday, June 14 only

Census Day..... Jun 13 (Thurs)

Last Day to Drop or Withdraw with a "W"..... July 2 (Tues)

Holiday (Independence Day – Offices Closed – No Classes)..... July 4 (Thurs)

Last Class Day, Final Exams, End of Term.....July 11 (Thurs)

#### Summer II – Second Term (7/15-8/15)

##### Registration:

On the Web (5am to midnight, 7 days a week)..... Mar 1-July 14

In Person (See business hours above)..... Mar 1-July 11

##### \*\*\* Registration Payment Deadline

\*For students who register prior to June 27 Payment is DUE..... June 27 (Thurs)

\*For students who register on or after June 27..... Due on Day of Registration

Late Registration & Schedule Changes (Add/Drop).....July 15 (Mon)

Classes Begin.....July 15 (Mon)

Census Day.....July 18 (Thurs)

Last Day to Drop or Withdraw with a "W"..... Aug 7 (Wed)

Last Class Day, Final Exams, End of Term.....Aug 15 (Thurs)

### Course Policies

#### Disclaimer

This syllabus is tentative and subject to change in any part at the discretion of the instructor. Any changes will be in accordance with Odessa College policies. Students will be notified of changes, if any, in timely manner.

#### Original Effort

The work submitted for this course must be original work prepared by the student enrolled in this course. Efforts will be recognized and graded in terms of individual participation and in terms of ability to collaborate with other students in this course.

#### Description of students

Students enrolled in this course are second semester Paramedic students

#### Course prerequisites

Department Consent

#### Course Alignment with Industry Standards

NHTSA Paramedic Curriculum

TDSHS Paramedic Curriculum

EMS Agenda for the Future

#### Digital Protocol

Cell phones must be placed on either *vibrate* or *silent* mode and are to be accessed in emergency cases

only. The use of laptops or any other digital device is permitted in order to facilitate note-taking relative to instruction. Any written assignments will be submitted electronically on Blackboard. **The electronic recording of the time on Blackboard will be considered the time of assignment submission. Take necessary steps to ensure that your assignments are submitted on “Blackboard” time.** Back-up and/or additional copies of all assignments submitted is encouraged. **Computers/printers are available to OC students in the LRC (301-303); therefore, not having access to a computer due to technical issues (crash; corrupted files) will not be considered as an acceptable reason for not completing assignments.** If there is a loss of server connection with Odessa College due to maintenance, then an email will be sent to student with pertinent information and status reports. Assignments submitted electronically need to be **WORD documents (doc or docx).**

### **Attendance Policy**

Students are expected to attend class regularly. Attendance will be recorded using a “sign-in” sheet. Excessive absences will be grounds for disciplinary action, and will be determined on a case-by-case basis. If you are more than 15 minutes late to class or leave class early without notifying the instructor, this will count as a tardy. 2 tardy’s = 1 absence.

Classroom/on-site laboratory attendance policy for paramedic students will follow the same guidelines as listed in the college catalog. This policy states that any student who misses as much as 20 percent of scheduled class time in any semester should review his or her standing in the class with the instructor and determine whether to continue in class or withdraw. Note that since paramedic students may be enrolled in more than one paramedic course in a given semester, the faculty interprets the college policy as 20 percent of scheduled class time in any paramedic course in any semester. The ability to meet course objectives may be seriously jeopardized for students missing 2-3 days of classroom/laboratory instruction in any course. Your attendance is also mandated by the minimum contact hour requirements of the Texas Department of State Health Services.

### **AVID**

This course has been identified as a course by Career, Technical, and Workforce Education as one in which teaching and learning strategies adopted by AVID will be implemented. As a student in the legal program, you will be expected to develop an understanding of the strategies, to model the strategies, to maintain fidelity of implementation, and to examine how these strategies may impact your effectiveness as a professional in your chosen area of occupation, either through coursework or practicum experience as outlined by the course instructor.

### **Grading Policy**

Please understand that this is a required course for the Paramedic program in order to prepare you. For your National Certification Exam you must make at least a 70 “C” in all EMSP courses to progress to the next semester. Grades below 70 (69.99999) will not be rounded up. Quality work and active participation is expected and not to be negotiated. As a general policy, grades will be taken in class. Any written assignments or tests will be graded outside of class. You can expect feedback on assignments within a week’s time.

### **Grade Inquiry Policy**

It is the responsibility of the individual taking this course to maintain accurate track of assignment submissions and grades. There will be opportunities during the semester to meet with the instructor to discuss your academic



progress. Contact the instructor to schedule an appointment. Class time will not be used for grade inquiries. All grades are final.

### Communication Plan

The best way to communicate with the course instructor is via email through Blackboard. Also, check in Blackboard regularly for announcements, including any changes in the course schedule due to instructor illness or conference attendance. Appointments with the instructor may also be scheduled.

### General Course Requirements

1. Attend class and participate.
2. Contribute and cooperate with civility.
3. **Submit assignments on time. Late work will not be accepted. Medical and/or family circumstances that warrant an extension on assignments need to be presented to the instructor. Extensions will be allowed at the instructor's discretion.**

### Grading Scale:

- “A” = 90-100
- “B” = 80-89
- “C” = 70-79
- “D” = 60-69
- “F” = 0-59

### Incomplete Policy

An ‘Incomplete’ grade may be given only if:

1. The student has passed all completed work
2. If he/she has completed a minimum of 75% of the required coursework. A grade of an “I” will only be assigned when the conditions for completions have been discussed and agreed upon by the instructor and the student.

### Overview of assignments

Type of Assignment	Percentage
1. Homework and quizzes	10%
2. Lab participation /preparation	10%
3. Unit Exams	50%
4. Final exam	30%

### Assignments

#### 1. Homework

- a. There will be an assignment for each chapter on blackboard

#### 2. UNIT Tests

- a. Cardiac Rhythm Interpretation
  - i. Walraven Chapters 1-10

- b. Brady Vol. 4 Chapter 2 Cardiology and 12 Lead interpretation
  - c. Advanced Cardiac Life Support Course
    - i. You must pass the ACLS Written test with a 75 within 2 attempts if you need the second attempt your scores will be averaged and entered into the grade book.
3. Final Exam
- a. This will be comprehensive

**4. LABORATORY COMPONENT OF EMSP 2444**

The laboratory component of EMSP 1338 is designed to improve clinical skills and critical thinking skills. The following skills 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 no higher than a D, 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.

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

**Schedule (Tentative and Subject to Change)**

Date	Instructional Approach  (* denotes a strategy adopted by AVID)	Topic	Assignment	Assignment Submission
June 10	Lecture	Go over REVISED SYLLABUS Appendix A Anatomy of the Heart Waves and Measures Analyzing ECG Strips	Chapter 1, 2, 3 Homework	BB
June 11	*Think Pair Share Group discussion	Sinus Rhythms Atrial Rhythms	Chapter 4, 5 Homework	BB

June 12	*Think Pair Share Group discussion	Junctional Rhythms Heartblocks	Chapter 6, 7 Homework	BB
June 17	*Think Pair Share Group discussion	Ventricular Rhythms	Chapter 8 Homework	BB
June 18- July 16	*Think Pair Share Group discussion	Practice	Chapter 9-10	Self Study
July 17	Exam	Rhythm Recognition Test	Rhythm Recognition Test	Written Test
July 22-24	Psychomotor  Lecture	Static Cardiology on a Cardiac monitor  Vol. 4 Ch. 2 Cardiology / Dosage calculations	Vol. 4 Chapter 2	BB
July 29-31 August 5	Psychomotor  Exam	Static/ Dynamic Cardiology Algorithms	Psychomotor Practice	Computer Based Test Hands On Application
August 6 August 14	Lecture Think Pair Share  Psychomotor Exam	ACLS	Take the ACLS pretest  ACLS posttest and Psychomotor Skills Testing	Computer Based Test  Written Test Hands On Application Testing