

**Course Syllabus**

COURSE: EMSP 2444.200 Cardiology (4:3:2)  
SEMESTER: Spring 2014  
CLASS TIMES: Lecture: Wednesday & Thursday from 08:30am – 09:50am Bldg. 2, RM253  
Lab: Wednesday & Thursday from 10:00am – 11:00am Bldg. 1, Lab 101  
INSTRUCTOR: Jerry S. Findley, BS, MA, LP  
OFFICE: Reese Center, Building 5, Room 517A  
OFFICE HOURS: Mon. 8:00am to 4:00pm or Weds/Thurs 1:00pm to 4:00pm.  
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*"South Plains College improves each student's life."*

**GENERAL COURSE INFORMATION**

**COURSE DESCRIPTION**

This course includes a detailed study of the knowledge and skills necessary to reach competence in the assessment and management of patients with cardiac emergencies in the pre-hospital setting.

**STUDENT LEARNING OUTCOMES**

At the completion of the semester students will:
1. Understand the roles and responsibilities of a Paramedic within an EMS System.
2. Be able to apply the advanced concepts of development, pathophysiology, cardiology, medical emergencies, traumatic emergencies, and special populations in the assessment and management of emergency patients.
3. Be able to take a history and perform a comprehensive physical exam on any patient and communicate those findings to others.
4. Be able to communicate effectively with patients, co-workers and other health care professionals.
5. Be able to establish and/or maintain a patent airway, oxygenate, and ventilate a patient.
6. Be able to recognize and treat minor and life threatening emergencies of all natures in regards to the pre-hospital setting.

**COURSE OBJECTIVES** - Outline form ( C-1, C-5, C-6, C-7, C-8, C-9, C-12, C-13, C-14, C-18, C-20; F-1, F-2, F-5, F-7, F-8, F-9, F-11, F-12, F-13, F-16, F-17)

At the completion of this course the student will have:
• The cognitive, psychomotor, and affective competencies in the recognition and treatment of prehospital emergencies.
• The cognitive, psychomotor, and affective competencies of prehospital patient assessment and airway management emergencies.
• The cognitive, psychomotor, and affective competencies of prehospital utilization of medications in treating emergency situations.
• The cognitive, psychomotor and affective competencies of pre-hospital cardiac emergencies at the Paramedic entry-level.

## EVALUATION METHODS

Computer-based exams, written exams, written assignments, quizzes, and other projects as assigned.

## ACADEMIC INTEGRITY

It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension.

**Cheating** - Dishonesty of any kind on examinations or on written assignments, illegal possession of examinations, the use of unauthorized notes during an examination, obtaining information during an examination from the textbook or from the examination paper of another student, assisting others to cheat, alteration of grade records, illegal entry or unauthorized presence in the office are examples of cheating. Complete honesty is required of the student in the presentation of any and all phases of coursework. This applies to quizzes of whatever length, as well as final examinations, to daily reports and to term papers.

**Plagiarism** - Offering the work of another as one's own, without proper acknowledgment, is plagiarism; therefore, any student who fails to give credit for quotations or essentially identical expression of material taken from books, encyclopedias, magazines and other reference works, or from themes, reports or other writings of a fellow student, is guilty of plagiarism.

## VARIFICATION OF WORKPLACE COMPETENCIES

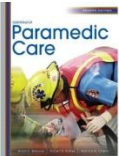
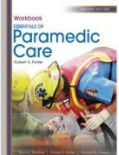

Paramedics are expected to know how to read a cardiac monitor and provide treatment based on their training.

## SCANS and FOUNDATION SKILLS

Refer also to Course Objectives. Scans and Foundation Skills attached

## SPECIFIC COURSE INFORMATION

### TEXT AND MATERIALS

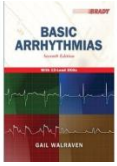
TEXTBOOK	Publisher	ISBN#	
	Essentials of Paramedic Care, 2 <sup>nd</sup> Ed., (Update)	Brady	ISBN#: 978-0-13-215689-9
	Essentials of Paramedic Care – Workbook (Update)	Brady	ISBN#: 978-0-13-138442-2
OR			
	Paramedic Care: Principles & Practice, Volume 3, Patient Assessment	Brady	0-13-211235-3



Paramedic Care: Principles & Practice, Volume 3, Patient Assessment Workbook

Bledsoe

0 -13-211107-1



Basic Arrhythmias, 7<sup>th</sup> Ed.

Brady

ISBN#: 978-0-13-500238-4



American Heart Association ACLS 2010 Guidelines

AHA

ISBN-10: 1616690100

\*SPC EMS Program Policy & Clinical Handbook (Course Website on-line) or SPC Bookstore hardcopy

### SUGGESTED TEXTS



EMS Pocket Field Guide, ACLS Version (16<sup>th</sup> Edition) InforMed Co.

ISBN-13: 9781890495589

### ADDITIONAL CLASSROOM ITEMS

Students should come to class prepared with pens, pencils, and a spiral notebook for taking notes or completing quizzes or assignments in class. Students should be prepared to take notes over lecture material.

### ATTENDANCE POLICY (\*READ CAREFULLY)

“Punctual and regular class attendance is required of all students attending South Plains College. There are no excused absences. Students are responsible for all class work covered during absences from class, even in cases in which they are able to satisfy the instructor that the absence was unavoidable.” (South Plains College Student Guide, 2012 – 2013, pp.29)

“Whenever absences become excessive and, in the instructor’s opinion, minimum course objectives cannot be met due to absences, the student should be withdrawn from the course.” (South Plains College General Catalog, 2012-2013, pp.18)

**Due to the importance of the emergency medical information being taught, the instructor of this course defines excessive absences as missing the 4th class day (or having equivalent tardies) in a course section. A student who meets this criteria will be administratively dropped from the course by the instructor.**

- Tardies: (Definition): arriving any time after the class has started or not returning from an approved break after class has started.
- Two tardies will be considered missing one class day and counted as such.
- Work schedule is not an excuse for missing class.

- Any exceptions to this policy must be discussed on an individual basis with the course instructor and the EMS Program Director. (i.e. – student hospitalization, immediate family member death, etc.)

### ASSIGNMENT POLICY

All assignments must be completed by the assigned due date. Late and/or incomplete work will not be accepted and a grade of zero will be recorded. Assignments, quizzes, exams, and skills that are missed due to an unexcused absence may not be made up. See the instructor for more specific information.

### COMPUTER USAGE

As computer technology in the field of emergency medical services continues to become more popular, computers will be used in this course for several assignments. All students have access to computers and printers on the South Plains College Reese campus. Students will be expected to utilize computers to access assignments and classroom resources. All registered students are supplied with a working email account from South Plains College. In order to take exams, students must have their user name and password.

**ALL STUDENTS ARE EXPECTED TO KNOW THEIR SPC STUDENT USER NAME AND PASSWORD.**

### COMPUTER LAB USAGE

The computer lab(s) on campus may be used by students during scheduled open hours or as assigned by an instructor. Printer paper will not be provided by SPC EMS department for students to print materials but students may seek assistance from faculty to request lab paper from the college if needed. Lack of computer lab paper is not an excuse for not having homework assignments, skills lab sheets, or any other required documents. Students should come prepared for class.

### EXAMS

Most student ‘written’ exams will be administered via computer to prepare them for the National Registry board exam. Many exam questions will be constructed in the same manner as National Registry questions, allowing students to prepare for that testing format throughout the course. The computer testing is administered in a campus computer lab which must be reserved by the instructor in advance. Students are expected to arrive on time to scheduled exams and complete the exams within the time frame allowed. CELL PHONES are not allowed to be on a student’s person during an exam at any time. Cell phones in a testing center must be turned off and out of student reach during an exam. *\*Any student caught with a cell phone during an exam may receive an automatic “F” for that exam and will be asked to leave the exam area.*

Additionally,

- **You may only take ONE retest on the Final Exam. There are no retests for Modular Exams.**
- *Students are required to make a 75% on the final exam or the student must re-take the course if they want to earn a course completion certificate. \*See SPC EMS Program Handbook for details.*
- A re-test on the final may be offered to the student automatically if they have a clean behavior record for the overall program, i.e.: no absences, no tardies, or previously failed exams.
- Students not automatically eligible for a re-test may submit a written request to an advisory committee lead by the program Medical Director to request a second opportunity to re-test a final exam. The Advisory Committee may allow a re-test or deny it based on past student performance.
- Students who are allowed a re-test of the final exam must re-take another final exam within 7 days of their initial attempt. Students should expect the re-take final exam to be more difficult than the initial final exam to determine if the student has a true mastery of the course material.

### GRADING POLICY

A minimum of 75% on all exams and assignments is required to receive a passing grade for that exam or assignment. Students must earn an overall grade of 75% or better for each course section to pass that section. Students are expected to demonstrate material competency by making a 75% or above on the final exam to receive a course completion certificate. (\*please refer to your SPC EMS Handbook)

**Final semester grades will be based on the following:**

Homework	10%
Quizzes	10%
Participation (Class/Lab)	10%
Modular Exams	40%
Final Exam	30% * There is ONE retest allowed on the final exam.

Grading Scale: 90-100	A
80-89	B
75-79	C
70-74	D
69 or Below	F

**COURSE COMPLETION CERTIFICATE**

Students must successfully complete all didactic studies, clinical rotations, pass each paramedic course section successfully, and pass each course final exam successfully to qualify for a course completion certificate. Please refer to the most current version of the SPC EMS Program Handbook for details.

**COMMUNICATION POLICY**

Electronic communication between instructor and students in this course will utilize the South Plains College “My SPC” and email systems. The instructor will not initiate communication using private email accounts. Students are encouraged to check SPC email on a regular basis each week of class. Students will also have access to assignments, web-links, handouts, and other vital material which will be delivered via the classroom website. Any student having difficulty accessing the classroom website or their email should immediately contact their instructor for direction. The instructor will work with any student to ensure the student has access to a computer on campus and can obtain the needed class content that is located on the course website.

**STUDENT CONDUCT**

Students in this class are expected to abide by the standards of student conduct as defined in the SPC Student Guide pages 12-17 (2012 – 2013 version).

**SPECIAL REQUIREMENTS (\*Read Carefully)**

- Students must present a signed original hardcopy of each of the following: syllabus signature page, SPC EMS Program Handbook signature page, SPC EMS Clinical Handbook signature page, & Student Guide signature page. **These signature pages are due by the second week of classes.**
- **Cell Phones** – Cell phones are to be turned OFF or silenced during scheduled class periods. **Text messaging is not allowed during scheduled class/lab times.** Cell phones are to be used outside the classroom or lab only on designated breaks. Students are not allowed to have cell phones on their person during exams. See “Exams” section for details.
- **Class Dress Code** – Due to the environment of the scheduled lab dates, students are required to wear the following:
  - a. **Jeans**
  - b. **Closed toed shoes or boots**
  - c. **Collared shirt or T-shirt**
  - d. **Watch with a second hand**

e. Stethoscope (optional)

**WHAT NOT TO WEAR:** hats, flip-flops, shorts, torn jeans, low cut blouses, private EMS uniforms.

- These guidelines are for your protection due to the nature of the EMS environment and the amount of lifting and moving that will take place in the lab.
- If you are employed by a local or regional EMS service, do not wear your uniform, badge, pager, or radio to class as this causes distractions from the teaching environment.

**COURSE DISCLAIMER**

Working with the public in emergency situations is stressful and requires a mentally tough individual to provide medical care in the prehospital environment. This course is designed to teach students about real-world situations the Paramedic may potentially encounter in the 'field' while managing patient care.

**In order to better prepare students for a career in the Emergency Medical Services profession, there will be times during this course where students will be exposed to training scenarios and situations that will be unpleasant to the average college student. If the student does not feel they can tolerate this type of learning environment, they should discuss this with me immediately before continuing in the course.**

Jerry S. Findley BS, MA, LP  
EMS Program Director

## COURSE OUTLINE

### South Plains College Allied Health Division - EMS Programs Spring 2014 Cardiology EMSP2444.200 Class Schedule

Class	Date	Day	Content Area	Chapters	Exams	Notes / Homework
Class 1	1.15.14	Wednesday	Paramedic Cardiology Course Overview	Syllabus & Schedule Presentation		
Class 2	1.16.14	Thursday	Clinical Rotation Policies	SPC EMS Program Handbook		Simulation Lab Orientation
Class 3	1.22.14	Wednesday	Cardiac Anatomy & Physiology	Brady, Chpt. 28, pp.1126 to 1130		B.A., Chpt. 1
Class 4	1.23.14	Thursday	ECG Monitoring	Brady, Chpt. 28, pp.1130 to 1140		B.A., Chpt. 2
Class 5	1.29.14	Wednesday	Interpretation of Rhythm Strips	Brady, Chpt. 28, pp.1141 to 1142		B.A., Chpt. 3
Class 6	1.30.14	Thursday	Sinus Rhythms	Brady, Chpt. 28 pp.1142 to 1149		B.A., Chpt. 4
Class 7	2.5.14	Wednesday	Dysrhythmias in the SA Node	Brady, Chpt. 28 pp.1144 to 1149	Exam 1	
Class 8	2.6.14	Thursday	Dysrhythmias in the AV Node	Brady, Chpt. 28 pp.1150 to 1159		B.A., Chpt. 5
Class 9	2.12.14	Wednesday	Dysrhythmias in the AV Junction	Brady, Chpt. 28 pp.1159 to 1170		B.A., Chpt. 6, 7
Class 10	2.13.14	Thursday	Dysrhythmias in the Ventricles	Brady, Chpt. 28 pp.1171 to 1179		B.A., Chpt. 8
Class 11	2.19.14	Wednesday	Artificial Pacemakers	Brady, Chpt. 28 pp.1179 to 1182		
Class 12	2.20.14	Thursday	P.E.A. & Conduction Disorders	Brady, Chpt. 28 pp.1182 to 1185		
Class 13	2.26.14	Wednesday	Assessment of the Cardiac Patient	Brady, Chpt. 28 pp.1186 to 1194		B. A., Chpt. 9
Class 14	2.27.14	Thursday	General Management of the Cardiac Patient	Brady, Chpt. 28 pp.1194 to 1211		
Class 15	3.5.14	Wednesday	Cardiac Pharmacology	Slide Show / Brady, Chpt. 28 pp.1200 Table 28-4	Exam 2	Brady Workbook Part 1, Chpt 28, pp.376
Class 16	3.6.14	Thursday	Cardiac Pharmacology	Slide Show		

Class 17	3.12.14	Wednesday	Managing Specific Cardiac Emergencies	Brady, Chpt. 28 pp.1211 to 1236		B. A., Chpt. 10
Class 18	3.13.14	Thursday	Managing Specific Cardiac Emergencies (A.C.S)	Brady, Chpt. 28 pp.1211 to 1236		Brady Workbook Part 2, Chpt. 28, pp.414
No Class			Spring Break SPC Offices Closed			*No Clinical Rotations
Class 19	3.26.14	Wednesday	Managing Specific Cardiac Emergencies (Angina & AMI)	Brady, Chpt. 28 pp.1211 to 1236		
Class 20	3.27.14	Thursday	Managing Specific Cardiac Emergencies (Cardiac Arrest)	Brady, Chpt. 28 pp.1211 to 1236		
Class 21	4.2.14	Wednesday	ACLS Course Part I	ACLS - 2010 Guidelines Text	Exam 3	
Class 22	4.3.14	Thursday	ACLS Course Part II	ACLS - 2010 Guidelines Text		
Class 23	4.9.14	Wednesday	ACLS Course Part III	ACLS - 2010 Guidelines Text		
Class 24	4.10.14	Thursday	ACLS Course Part IV	ACLS - 2010 Guidelines Text		
Class 25	4.16.14	Wednesday	ACLS Course Part V	ACLS - 2010 Guidelines Text		
Class 26	4.17.14	Thursday	ACLS Course Part VI	ACLS - 2010 Guidelines Text	Exam 4	*Exam 4 is the ACLS written exam.
Class 27	4.23.14	Wednesday	Megacode Testing	Megacode Testing		
Class 28	4.24.14	Thursday	Megacode Testing	Megacode Testing		
Class 29	4.30.14	Wednesday	Pre-hospital EKG Monitoring	Brady, Chpt 28 pp.1237 to 1240		B.A. – Appendix C, pp. 515
Class 30	5.1.14	Thursday	12 Lead EKG Lecture	Guest Speaker Handout		
Class 31	5.7.14	Wednesday	<b>Final Exam</b>		<b>Final Exam</b>	

Classroom Hours: 48

Lab Hours: 32

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Total Course Hours: 80

**Important Dates:**

March 17<sup>th</sup> – 21<sup>st</sup>

April 22<sup>nd</sup>

Spring Break. SPC Offices closed. No clinical rotations allowed.

\*Last day to drop a course.



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## ACCOMMODATIONS

### DIVERSITY STATEMENT

In this class, the instructor will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

### DISABILITIES STATEMENT

Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. **In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Coordinator of Disability Services.** For more information, call or visit the Disability Services Office in rooms 809 and 811, Reese Center Building 8, (806) 885-3048 ext. 4654.

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## FOUNDATION SKILLS

### **BASIC SKILLS—Reads, Writes, Performs Arithmetic and Mathematical Operations, Listens and Speaks**

F-1 Reading—locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.

F-2 Writing—communicates thoughts, ideas, information and messages in writing and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.

F-3 Arithmetic—performs basic computations; uses basic numerical concepts such as whole numbers, etc.

F-4 Mathematics—approaches practical problems by choosing appropriately from a variety of mathematical techniques.

F-5 Listening—receives, attends to, interprets, and responds to verbal messages and other cues.

F-6 Speaking—organizes ideas and communicates orally.

### **THINKING SKILLS—Thinks Creatively, Makes Decisions, Solves Problems, Visualizes and Knows How to Learn and Reason**

F-7 Creative Thinking—generates new ideas.

F-8 Decision-Making—specifies goals and constraints, generates alternatives, considers risks, evaluates and chooses best alternative.

F-9 Problem Solving—recognizes problems, devises and implements plan of action.

F-10 Seeing Things in the Mind's Eye—organizes and processes symbols, pictures, graphs, objects, and other information.

F-11 Knowing How to Learn—uses efficient learning techniques to acquire and apply new knowledge and skills.

F-12 Reasoning—discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.

### **PERSONAL QUALITIES—Displays Responsibility, Self-Esteem, Sociability, Self-Management, Integrity and Honesty**

F-13 Responsibility—exerts a high level of effort and perseveres towards goal attainment.

F-14 Self-Esteem—believes in own self-worth and maintains a positive view of self.

F-15 Sociability—demonstrates understanding, friendliness, adaptability, empathy and politeness in group settings.

F-16 Self-Management—assesses self accurately, sets personal goals, monitors progress and exhibits self-control.

F-17 Integrity/Honesty—chooses ethical courses of action.

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## SCANS COMPETENCIES

C-1 **TIME** - Selects goal - relevant activities, ranks them, allocates time, prepares and follows schedules.

C-2 **MONEY** - Uses or prepares budgets, makes forecasts, keeps records and makes adjustments to meet objectives.

C-3 **MATERIALS AND FACILITIES** - Acquires, stores, allocates, and uses materials or space efficiently.

C-4 **HUMAN RESOURCES** - Assesses skills and distributes work accordingly, evaluates performances and provides feedback.

### **INFORMATION - Acquires and Uses Information**

C-5 Acquires and evaluates information.

C-6 Organizes and maintains information.

C-7 Interprets and communicates information.

C-8 Uses computers to process information.

### **INTERPERSONAL—Works With Others**

C-9 Participates as a member of a team and contributes to group effort.

C-10 Teaches others new skills.

C-11 Serves Clients/Customers—works to satisfy customer’s expectations.

C-12 Exercises Leadership—communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.

C-13 Negotiates—works toward agreements involving exchanges of resources; resolves divergent interests.

C-14 Works With Diversity—works well with men and women from diverse backgrounds.

### **SYSTEMS—Understands Complex Interrelationships**

C-15 Understands Systems—knows how social, organizational, and technological systems work and operates effectively with them.

C-16 Monitors and Corrects Performance—distinguishes trends, predicts impacts on system operations, diagnoses systems performance and corrects malfunctions.

C-17 Improves or Designs Systems—suggests modifications to existing systems and develops new or alternative systems to improve performance.

### **TECHNOLOGY—Works with a Variety of Technologies**

C-18 Selects Technology—chooses procedures, tools, or equipment, including computers and related technologies.

C-19 Applies Technology to Task—understands overall intent and proper procedures for setup and operation of equipment.

C-20 Maintains and Troubleshoots Equipment—prevents, identifies, or solves problems with equipment, including computers and other technologies.



I (print name) \_\_\_\_\_ have received and read a copy of the syllabus for the **EMT Paramedic Program (EMSP 2444.200 - Cardiology)**. I understand the syllabus and understand that I must comply with all requirements listed within this document to complete the course.

\_\_\_\_\_  
Signature of Student

\_\_\_\_\_  
Date