



PARAMEDICINE
EMSP 2140 – Advanced
Cardiovascular Concepts
COURSE SYLLABUS
HYBRID
Spring Semester 2017

Semester: Spring 2017 Course Title: Advanced Cardiovascular Concepts Course Number: EMSP 2140 Credit Hours/ Minutes: 4 / 3750 Class Location: Room 111 HSAW Bldg. Class Meets: 22% Hybrid / 78% Face-to-Face: One to two days per week from 9:00-5:00pm (See lesson plan for dates) CRN: 40248	Instructor: Jim Jones Office Hours: Monday - Thursday 7:00am – 8:30am Monday - Thursday 5:00pm - 6:00pm Office Location: Room 109 HSAW Building Email Address: jjones@southeasterntech.edu Phone: 912-538-3218 (office) 912-293-5161 (cell / text) Fax Number: 912-538-3106 Tutoring Hours: By Appointment
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The preferred method of contact for the instructor is by office phone. If there is no answer, please call or text the cell phone number provided above.

This course is taught in a hybrid format. Hybrid classes require students to complete a portion of the required contact hours traditionally by attending classes on campus while completing the remaining portion online at the student's convenience with respect to the instructor's requirements.

REQUIRED TEXT:

Paramedic Care: Principles & Practice, Volume 4:
Introduction to Paramedicine, 4th Edition
By Bryan E. Bledsoe, Robert S. Porter, Richard A. Cherry
Pub. Date: Feb 2, 2012 by Prentice Hall.
ISBN-10: 0-13-211208-6



REQUIRED SUPPLIES & SOFTWARE: Pencils, 3-ring binder. Paper, computer and internet access.

COURSE DESCRIPTION: This course equips the paramedicine student with an expanded knowledge of the anatomy, physiology, and electrophysiology of the cardiovascular system. Students will also examine the epidemiology of cardiovascular disease, and will begin to integrate advanced assessment skills (including ECG interpretation) into the assessment of cardiac patients. Topics include: Anatomy, Physiology, and Electrophysiology of the Cardiovascular System; Epidemiology of Cardiovascular Disease; Assessment of the Cardiac Patient; Electrocardiographic (ECG) interpretation.

MAJOR COURSE COMPETENCIES:

1. Anatomy, Physiology, Electrophysiology of the Cardiovascular System
2. Epidemiology of Cardiovascular Disease
3. Assessment of the Cardiac Patient
4. Electrocardiographic (ECG) interpretation

PREREQUISITE(S): Program Admission

COURSE OUTLINE:

Anatomy, Physiology, and Electrophysiology of the Cardiovascular System

Order	Description	Learning Domain	Level of Learning
1	Characterize the anatomy and physiology of the cardiovascular system.	Cognitive	Analysis
2	Illustrate the electrophysiology of the heart.	Cognitive	Analysis
3	Appreciate the anatomy, physiology, and electrophysiology of the cardiovascular system.	Affective	Characterization

Epidemiology of Cardiovascular Disease

Order	Description	Learning Domain	Level of Learning
1	Examine the epidemiology of cardiovascular disease.	Cognitive	Analysis

Assessment of the Cardiac Patient

Order	Description	Learning Domain	Level of Learning
1	Initiate the assessment of a patient experiencing a cardiac related emergency.	Cognitive	Synthesis
2	Implement the assessment of a patient experiencing a cardiac related emergency.	Psychomotor	Mechanism
3	Appreciate the need for a proper assessment of a patient experiencing a cardiac related emergency.	Affective	Characterization

Electrocardiographic (ECG) interpretation

Order	Description	Learning Domain	Level of Learning
1	Characterize the principles of ECG monitoring and interpretation.	Cognitive	Analysis
2	Correlate the electrophysiological and hemodynamic events occurring throughout the entire cardiac cycle with the various ECG wave forms, segments and intervals.	Cognitive	Analysis
3	Interpret various cardiac rhythms.	Cognitive	Evaluation
4	Evaluate various 12 lead ECGs.	Cognitive	Evaluation
5	Integrate electrocardiographic monitoring and interpretation (including 12 lead ECGs) into the assessment of patients experiencing a cardiac related emergency.	Psychomotor	Complex Response
6	Promote the utilization of electrocardiographic monitoring and interpretation (including 12 lead ECGs) into the assessment of patients experiencing a cardiac related emergency.	Affective	Characterization

GENERAL EDUCATION CORE COMPETENCIES: STC has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

STUDENT REQUIREMENTS (Hybrid): Students are expected to complete all work shown on the attached lesson schedule. Students are also expected to complete all tests and comprehensive problems on the dates specified on the attached lesson schedule. Students are responsible for policies and procedures included in the *STC Catalog* and the *Paramedicine Program Handbook*. **Paramedicine program students must earn a minimum grade of C in this course to advance to EMSP 2310.**

Students, who are more than 15 minutes late on exam days, will not be allowed to take the exam once the exam has started. These students must schedule a time to make up the exam or a zero will be given for the exam. This time will be other than normal class hours, must be prior to the next class, and will be at the instructor's convenience. If the student is less than 15 minutes late, and the exam has started, the student may begin the exam, however he/she must turn in their exam at the end of the allotted exam time, whether finished or not. Example: Exam begins at 9:05am -- 50 minutes are allotted for the exam -- ALL exams must be turned in by 9:55am.

AFFECTIVE LEARNING EVALUATION: EMS Professions students will be evaluated weekly to identify and correct deficits in affective learning. Students will be evaluated in up to 11 areas of affective behavior. A score will be entered into the grade book to reflect the affective behaviors exhibited during each week of the semester. See the scoring rubric included on the Affective Learning Evaluation form in the program handbook.

ATTENDANCE GUIDELINES: Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of F and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

ADDITIONAL ATTENDANCE PROVISIONS

Health Sciences

Requirements for instructional hours within Health Science programs reflect the rules of respective licensure boards and/or accrediting agencies. Therefore, these programs have stringent attendance policies. The Paramedicine program's attendance policy is published in the program's handbook and/or syllabus which specify the number of allowable absences. All provisions for required make-up work in the classroom or clinical experiences are at the discretion of the instructor.

Attendance is counted from the first scheduled class meeting of each semester. To receive credit for a course a student must attend at least 90% of the scheduled instructional time. Time and/or work missed due to tardiness or absences must be made up at the convenience of the instructor. Any student attending less than the required scheduled instructional time (90%) may be dropped from the course as stated below in the Withdrawal Procedure.

Tardy means arriving after the scheduled time for instruction to begin. Early departure means leaving before the end of the scheduled time. Three (3) tardies or early departures equal one (1) absence for the course.

HYBRID ATTENDANCE: STC's attendance procedure is followed for all hybrid classes along with the following addition. Hybrid classes require students to complete a portion of the required contact hours traditionally by attending classes on campus while completing the remaining portion online at the student's convenience with respect to the instructor's requirements. STC's attendance policy located in the STC Catalog and Student Handbook must be followed in all hybrid classes. For the scheduled class sessions, attendance is counted from the first scheduled class meeting of each semester. Three (3) tardies or early departures equal one (1) absence for the course(s) involved. In order for a student to receive credit for a course, a student must attend at least 90% of the scheduled instructional time.

HYBRID ATTENDANCE ADDENDUM: This class meets six class sessions. Students must attend the scheduled campus class each week and complete the online assignments. The maximum number of absences a student may miss for this class is one (1).

SPECIAL NEEDS: Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Helen Thomas, 912-538-3126, hthomas@southeasterntech.edu, to coordinate reasonable accommodations.

SPECIFIC ABSENCES: Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

PREGNANCY: Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please advise me and make appropriate arrangements with Helen Thomas, 912-538-3126, hthomas@southeasterntech.edu.

WITHDRAWAL PROCEDURE: Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" is assigned when the student completes the withdrawal form from the course.

Students who are dropped from courses due to attendance (see your course syllabus for attendance policy) after drop/add until the 65% point of the semester will receive a "W" for the course. Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of 'F' being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A zero will be given for all missed assignments.)

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. All grades, including grades of 'W', will count in attempted hour calculations for the purpose of Financial Aid.

Remember - Informing your instructor that you will not return to his/her course does not satisfy the approved withdrawal procedure outlined above.

MAKEUP GUIDELINES (Tests, quizzes, homework, projects, etc...): If a student misses a test, a grade of zero will be assigned. Only students with extenuating circumstances (who contact the instructor **on or before the day of the test** regarding their absence) will be allowed to take a makeup test, which will replace the zero. Extenuating circumstances are determined at the instructor's discretion. Unless otherwise scheduled with the instructor, it is expected that the test will be taken **PRIOR TO THE NEXT CLASS**, scheduled outside of regular class time. Failure to follow this procedure will result in a grade of zero.

Assignment due dates are listed on the attached lesson schedule. Students are expected to have the assignment completed at the beginning of class on the date that it is due. It is within the instructor's discretion to accept or reject late assignments. Any late assignments accepted will be subject to a ten point penalty each day the assignment is late. After three class meetings, no late assignments will be accepted; a zero will be recorded.

Unannounced quizzes are subject to be given on any day. A grade of zero will be assigned for any quizzes missed. There will be no makeup of quizzes.

Any zeros recorded will be included in the final score calculation.

ACADEMIC DISHONESTY POLICY: The STC Academic Dishonesty Policy states *All forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline.* The policy can also be found in the *STC Catalog and Student Handbook*.

Procedure for Academic Misconduct

The procedure for dealing with academic misconduct and dishonesty is as follows:

--First Offense--

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

--Second Offense--

Student is given a grade of "WF" for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

--Third Offense--

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

STATEMENT OF NON-DISCRIMINATION: The Technical College System of Georgia and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member or citizenship status (except in those special circumstances permitted or mandated by law). This school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

ADA/Section 504 - Equity- Title IX (Students) - OCR Compliance Officer	Title VI - Title IX (Employees) - EEOC Officer
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 st Street, Vidalia Office 108 Phone: 912-538-3126 hthomas@southeasterntech.edu	Blythe Wilcox, Director of Human Resources Vidalia Campus 3001 East 1 st Street, Vidalia Office 138B Phone: 912-538-3147 bwilcox@southeasterntech.edu

GRIEVANCE PROCEDURES: Grievance procedures can be found in the Catalog and Handbook located on STC’s website.

ACCESS TO TECHNOLOGY: Students can now access [Blackboard](#), Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the STC website at www.southeasterntech.edu.

GRADING POLICY

Exams	50%
Assignments/Quizzes	20%
Affective Learning	5%
Final Exam	<u>25%</u> 100%
Practical Exercises - Pass/Fail	

GRADING

SCALE

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

TCSG GUARANTEE/WARRANTY

STATEMENT: *The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.*

(All Practical competencies must be passed to complete the course.)

**Course Number: EMSP 2140 CRN# 40248
Spring Semester 2017
Lesson Schedule**

WHITE background areas identify work to be completed in the classroom.

**Approx. time to complete.
(in minutes)**

**GREEN background areas identify
work to be completed online.**

ONLINE Assignment

Date	Chapter / Lesson	Content	Assignments	Competency Area
240 minutes	Cardiac Drug Cards	Cardiac related Pharmacology (Due 5/19/2016)	See the handout for instructions.	
105 minutes	Read the chapter and complete the MyBradyLab Pre-test, Homework, and Post-test for the following: Chapter 2 - Volume 4 Part 1 Must be completed by 11:59pm on 3/27/2017			
WEEK ELEVEN				
Tuesday March 28	Chapter 2 Volume 4	PART 1: Cardiovascular Anatomy and Physiology, ECG Monitoring, and Arrhythmia Analysis	Review Chapter 2v4 Part 1 review MyBradyLab assignment	*1,2,4 ** a,b,c
60 minutes	Review the chapter and review the MyBradyLab Pre-test, Homework, and Post-test for the following: Chapter 2 - Volume 4 Part 1			
WEEK TWELVE PART A				
Monday April 3	Chapter 2 Volume 4	PART 1: Cardiovascular Anatomy and Physiology, ECG Monitoring, and Arrhythmia Analysis	Review Chapter 2v4 Part 1 and review the MyBradyLab assignment CHAPTER 2v4 PART 1 EXAM next class	*1,2,4 ** a,b,c
60 minutes	Review the chapter and review the MyBradyLab Pre-test, Homework, and Post-test for the following: Chapter 2 - Volume 4 Part 1 CHAPTER 2v4 PART 1 EXAM Will be administered at the end of the next class			
WEEK TWELVE PART B				
Thursday April 6	Chapter 2 Volume 4	ECG Review ECG Strip recognition exam (40 strips) CHAPTER 2v4 PART 1 EXAM Will be administered at the end of this class	Review Chapter 2v4 Part 1 and review the MyBradyLab assignment Read Chapter 2v4 Part 2 Complete MyBradyLab assignment	*1,2,4 ** a,b,c

120 minutes	Read the chapter and complete the MyBradyLab Pre-test, Homework, and Post-test for the following: Chapter 2 - Volume 4 Part 2 Must be completed by 11:59pm on 4/11/2017			
WEEK THIRTEEN				
Wednesday April 12	Chapter 2 Volume 4	PART 2: Assessment and Management of the Cardiovascular Patient CHAPTER 2v4 PART 2 EXAM Will be administered at the end of this class	Review Chapter 2v4 Part 2 and review the MyBradyLab assignment	*1,2,3,4 **a,b,c
120 minutes	Review the chapter and the MyBradyLab Pre-test, Homework, and Post-test for the following: Chapter 2 - Volume 4 Part 2			
WEEK FOURTEEN PART A				
Tuesday April 18	Chapter 2 Volume 4	Cardiovascular Lab		*1,2,3,4 **a,b,c
	Review the chapter and the MyBradyLab Pre-test, Homework, and Post-test for the following: Chapter 2 - Volume 4 Part 2			
WEEK FOURTEEN PART B				
Friday April 21	Chapter 2 Volume 4	Cardiovascular Lab		EMSP 2140 FINAL EXAM Will be administered at the end of the next class *1,2,3,4 **a,b,c
	Review the chapter and the MyBradyLab Pre-test, Homework, and Post-test for the following: Chapter 2 - Volume 4 Part 2 CHAPTER 2v4 PART 2 EXAM will be administered during the class			
WEEK FIFTEEN				
Monday April 24	Chapter 2 Volume 4	Cardiovascular Lab		*1,2,3,4 **a,b,c
The EMSP 2140 course Final Exam will be administered at the end of class on Monday – April 24, 2017				

Competency Area

1. Anatomy, Physiology, and Electrophysiology of the Cardiovascular System
2. Epidemiology of Cardiovascular Disease
3. Assessment of the Cardiac Patient
4. Electrocardiographic (ECG) interpretation

**General Core Educational Competencies

- a) The ability to utilize standard written English.
- b) The ability to solve practical mathematical problems.
- c) The ability to read, analyze, and interpret information