

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	EMS 2615L
COURSE TITLE:	Paramedic Module V, Medical Lab
PREREQUISITE(S):	EMS 2611, EMS 2611L, EMS 2612L, EMS 2613L, EMS 2666 and EMS 2614
COREQUISITE(S):	EMS 2615 and EMS 2667
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	3
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	2
Laboratory:	1
Other _____:	
FACULTY WORKLOAD POINTS:	2.7
STANDARDIZED CLASS SIZE ALLOCATION:	6 (state requirement)
CATALOG COURSE DESCRIPTION:	
This course is lab Module V in a sequence of instruction for EMT-paramedic. Instruction includes recognition and management of cardiac and obstetrical emergencies and Advanced Cardiac Life Support.	
SUGGESTED TEXT(S):	<u>American Heart Association, Advanced Cardiac Life Support Provider Text</u>
IMPLEMENTATION DATE:	January, 2001
REVIEW OR MODIFICATION DATE:	Fall Term, 2002 (20031) Fall Term, 2008 (20091) - Outline Review 2007

COURSE TOPICS

CONTACT HOURS
PER TOPIC

I. Advanced Cardiac Life Support

41

- A. Cardiac Anatomy and Physiology (2)
 - 1. Circulatory system
 - 2. Heart
 - 3. Cardiac cycle
 - 4. Heart sounds
 - 5. Cardiac output
 - 6. Blood pressure
 - 7. Pulse
 - 8. Nervous control
 - 9. Electromechanical System of the heart
 - 10. Physiology of the Specialized conduction system
 - 11. Cardiac Conduction System
 - 12. Principles of Electrophysiology
- B. Reading and Understanding a Normal EKG (3)
 - 1. Electrophysiology
 - 2. Components of the EKG Record
 - 3. Reading an EKG Rhythm Strip
- C. Arrhythmia Recognition (6)
 - 1. General Concepts
 - 2. Introduction to Reading Arrhythmias
- D. Techniques of Management (30)
 - 1. Drug therapy
 - 2. Application of monitoring electrodes
 - 3. Defibrillation
 - 4. Cardioversion
 - 5. Rotation tourniquets
 - 6. Carotid Sinus Massage
 - 7. Intracardiac Injections
 - 8. Mechanical CPR Devices

II. OB/GYN

4

- A. Unscheduled Delivery
 - 1. Normal
 - 2. Abnormal
- B. Complications of Delivery
- C. Apgar Scoring

PROGRAM TITLE: Emergency Medical Services - Associate's Degree

COURSE TITLE: Paramedic Module V, Medical Lab

CIP NUMBER: 0317.020601

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

27.0 ASSESS AND MANAGE CARDIOVASCULAR EMERGENCIES--The student will be able to:

- 27.01 Describe the anatomy, physiology, and pathophysiology relevant to cardiovascular disease and emergencies.
- 27.02 Identify the pharmacology, actions, indications, precautions, methods of administration, dosages, contraindications, and side effects of common emergency cardiovascular drugs (AHA/ACLS).
- 27.03 Identify complications of intracardiac injections.
- 27.04 Describe innervation of the heart, sympathetic and parasympathetic stimulation, blockade, and effects on the heart rate.
- 27.05 Discuss myocardial electrical physiology.
- 27.06 Describe signs, symptoms, and common chief complaints of patients with cardiac conditions.
- 27.07 Identify and describe the historical information, specific observations, and physical findings to be evaluated in the cardiac patient.
- 27.08 Identify actions, uses, and side effects of common prescription drugs relative to cardiac problems.
- 27.09 Discuss the etiology of cardiac arrest in adults and pediatric patients.
- 27.10 Discuss concepts of ECG monitoring, types and causes of artifacts, and rhythm analysis format.
- 27.11 Identify the wave forms, intervals, and normal values relative to an electrocardiogram (ECG).
- 27.12 Describe a 12-lead ECG and compare to continuous monitoring.
- 27.13 Describe the etiology, clinical significance, and ECG characteristics of cardiac dysrhythmias.
- 27.14 Describe the indications for use of a precordial thump, vago tonic maneuvers, synchronized cardioversion, and defibrillation and discuss energy recommendations for adult and pediatric patients.
- 27.15 Identify wave forms, artifacts, and dysrhythmias on Lead or MC11 rhythm strips and oscilloscope.
- 27.16 Obtain history, assess, and manage dysrhythmias or cardiac condition.
- 27.17 Demonstrate application of ECG electrodes and obtain a sample Lead II or MC11 rhythm strip.
- 27.18 Use defibrillator paddles for Lead II monitoring.
- 27.19 Troubleshoot a poor ECG rhythm.
- 27.20 Perform a precordial thump, vago tonic maneuvers, synchronized cardioversion, defibrillation, and external cardiac pacing.
- 27.21 Use a mechanical CPR device.

37.0 ASSESS AND MANAGE THE GYNECOLOGIC PATIENT--The student will be able to:

- 37.01 Describe the anatomy and physiology of the female reproductive system.
- 37.02 Identify and discuss the significance of historical information, observations, and physical findings to be evaluated in the patient's gynecologic problems.
- 37.03 Describe the pathophysiology and management of gynecological disorders.
- 37.04 Describe potential causes, assessment and management of trauma to the external genitalia.
- 37.05 Describe the assessment and management of a sexual assault victim.
- 37.06 Obtain a history and assess and manage the patient with a gynecologic problem.

LIST PERFORMANCE STANDARD ADDRESSED: (Continued)

NUMBER(S): TITLES(S):

38.0 ASSESS AND MANAGE THE OBSTETRIC PATIENT--The student will be able to:

- 38.01 Define obstetrical terminology.
- 38.02 Describe the process of fetal development and circulation.
- 38.03 Identify and discuss the significance of historical information, observations, and physical findings in the obstetric patient.
- 38.04 Identify and describe early signs and symptoms of pregnancy.
- 38.05 Describe potential causes, assessment, and management of trauma to the pregnant mother and the fetus.
- 38.06 Discuss the effects of pregnancy on pre-existing medical conditions.
- 38.07 Describe the anatomy, physiology, pathophysiology, causes, assessment and management of obstetric.
- 38.08 Describe Braxton-Hicks contractions.
- 38.09 Discuss the progression of labor.
- 38.10 Discuss factors that influence transport decisions for the patient in labor.
- 38.11 Describe a normal cephalic delivery.
- 38.12 Discuss the pathophysiology, assessment, and management of delivery complications.
- 38.13 Identify the pharmacology, actions, indications, methods of administration, dosages, contraindications and side effects of oxytocin.
- 38.14 Obtain a history and assess the obstetric patient.
- 38.15 Treat obstetrical patients, including assisting with childbirth.
- 38.16 Administer oxytocin.



NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

Section 1	
COURSE PREFIX AND NUMBER: <u>EMS 2615L</u>	SEMESTER CREDIT HOURS: <u>3</u>
COURSE TITLE: <u>Paramedic Module 5, Medical Lab</u>	

Section 2

TYPE OF COURSE: (Click on the box to check all that apply)

<input type="checkbox"/> AA Elective	<input checked="" type="checkbox"/> AS Required Professional Course	<input type="checkbox"/> College Prep
<input type="checkbox"/> AS Professional Elective	<input type="checkbox"/> AAS Required Professional Course	<input checked="" type="checkbox"/> Technical Certificate
<input type="checkbox"/> Other _____	<input type="checkbox"/> PSAV	<input type="checkbox"/> Apprenticeship
<input type="checkbox"/> General Education: (For General Education courses, you must also complete Section 3 and Section 7)		

Section 3 (If applicable)

INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:

<input type="checkbox"/> Communications	<input type="checkbox"/> Social & Behavioral Sciences	<input type="checkbox"/> Mathematics
<input type="checkbox"/> Natural Sciences	<input type="checkbox"/> Humanities	

Section 4

INTELLECTUAL COMPETENCIES:

<input checked="" type="checkbox"/> Reading	<input checked="" type="checkbox"/> Speaking	<input checked="" type="checkbox"/> Critical Analysis	<input checked="" type="checkbox"/> Quantitative Skills	<input type="checkbox"/> Scientific Method of Inquiry
<input checked="" type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input type="checkbox"/> Information Literacy	<input checked="" type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively

	LEARNING OUTCOMES	METHOD OF ASSESSMENT
•	Demonstrate ability to properly calculate medication dosages	Scenraios, exams and quizzes
•	Demonstrate ability to operate a cardiac monitor	Scenrarios, exams and quizzes
•	Demonstrate ability to care for patients in cardiac arrest	Scenarios, exams and quizzes
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Section 6

Name of Person Completing This Form: Marcie Heatherington Date: 10/30/2007