

FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	EMS 1401
COURSE TITLE:	Fundamentals of Emergency Medical Care Clinical Experience
PREREQUISITE(S):	EMS 1059 or comparable medical experience
COREQUISITE(S):	EMS 1119
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	7
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	2
Laboratory:	2
Other Clinical_____:	1.5
Rescue Field Experience:	1.5
FACULTY WORKLOAD POINTS:	4.45
STANDARDIZED CLASS SIZE ALLOCATION:	6
CATALOG COURSE DESCRIPTION:	
<p>This course consists of demonstrations of emergency procedures for life-threatening problems which will be practiced in the College laboratory. Clinical rotation in a local hospital emergency care facility is a requirement for this class.</p>	
SUGGESTED TEXT(S):	EMS 1401 Student Lab Module
IMPLEMENTATION DATE:	January, 1990
REVIEW OR MODIFICATION DATE:	Fall Term, 1996 (971) Fall Term, 1998 Fall Term, 2002 (20031) Fall Term, 2008 (20091) - Outline Review 2007

COURSE TOPICS	<u>CONTACT HOURS PER TOPIC</u>
I. Laboratory Skills	60
A. Adjuncts for Airway and Mechanical Breathing (12)	
1. Oro and Nasopharyngeal Suctioning	
2. Insertion of an Oropharyngeal Airway	
3. Bag-valve-mask Unit	
4. Mouth to Mask with Supplemental Oxygen	
B. Measurement of Arterial Blood Pressure (1)	
C. Controlling External Hemorrhage/Principals of Bandaging (2)	
D. Dressing and Bandaging an Impelled Object (1)	
E. Dressing and Bandaging an Avulsed Eye or an Impelled Object in the Eye (1)	
F. Dressing and Bandaging an Amputation (1)	
G. Assessment of the Unconscious Patient with Suspected Trauma-Related Problem (8)	
H. Assessment of a Communicative Patient with a Suspected Trauma-Related Problem (8)	
I. Spinal Survey of a Conscious Patient (8)	
1. Application of Traction	
2. Application of Cervical and Horse Collars	
3. Secondary Survey	
J. Spinal Survey of the Unconscious Victim (2)	
K. Long Spine Board Maneuver (4)	
L. Splinting a Fractured or Dislocated Femur (2)	
M. Short Board K.E.D. Maneuver (2)	
N. Vehicle Rescue/Crash Victim Extrication (8)	
II. Hospital Clinical Rotation	20
A. Taking and Recording Vital Signs	
1. B/P	
2. Pulse	
3. Respiration	
4. Temperature	
B. Observe and Perform Patient Assessment	
1. Vital Signs	
2. Behavior and Appearance	
3. Physical Exam	
4. Medical History	

CONTACT HOURS
PER TOPIC

COURSE TOPICS (CONTINUED)

- C. Assisting in Trauma Cases
 - 1. Control of External Bleeding
 - 2. Lifting and Moving Patients
 - 3. Immobilization of Fractures and Splinting
 - 4. Application of Traction and Other Immobilization Devices
 - 5. Protection of C-spine if Evidence of Head Trauma is Present or Neck Injury is Suspected
- D. Observe and Assist in Medical Emergency
 - 1. Undressing and Gowning Patient
 - 2. Monitoring of Patient
 - 3. Patient Assessment
 - 4. Perform CPR
- E. Bandage Dressing
 - 1. Cleanse Wound using Aseptic Technique
 - 2. Dress Wound
- F. Specimen Collection
 - 1. Urine - Dip Stick if Required
 - 2. Stool
 - 3. Sputum
- G. Transporting Patients
 - 1. Floor
 - 2. X-ray
- H. Observe and Assist O₂ Therapy
 - 1. Nasal Cannula
 - 2. Plastic Face Mask
 - 3. Venturi Mask
 - 4. Humidifier
 - 5. O₂ Cylinder
- I. Observe Airway Adjuncts (Definitive Therapy Procedures)
 - 1. Oropharyngeal Insertion
 - 2. Combi-tube Insertion
 - 3. Esophageal Obturator Airway Intubation
 - 4. Endotracheal Intubation
 - 5. Pharyngeal Suctioning
 - 6. Endotracheal Suctioning
- J. Observe Catheterization Procedures
 - 1. Naso-gastric
 - 2. Urethral
 - 3. Intravenous
- K. Observe and Assist IV/IM/SQ
 - 1. Selection of Fluid and Infusion Set-up
 - 2. Monitoring of Rate

COURSE TOPICS (CONTINUED)	CONTACT HOURS <u>PER TOPIC</u>
3. Peripheral IV Cannulation 4. Patency 5. d/c IV's	
L. Management of Neuro-Psychiatric Patient 1. Depressive 2. Hostile	
M. Observe Safety Practices 1. Maintaining Side Rails on Stretchers 2. Anticipating Need for Protective Restraint	
N. Follow Aseptic Technique 1. Clean Stretchers 2. Surgical Trays	
O. Assist with Triage of Patients 1. Vital Signs 2. Allergies/Medications 3. Chief Complaint	
P. NOTE 1. Report Any Abnormal Vital Signs to Physician, Nurse and/or Clinical Preceptor 2. Vital Signs Taken Prior and Upon Return of Transporting Patient 3. Document all Procedures Performed 4. Adhering to all Regulations, Policies, and Procedures Set Forth by the Hospital 5. Acting in Supporting, Cooperative and Friendly Manner to Patients, Hospital Staff and Student Colleagues	
III. Rescue Field Experience - Observe and Perform Patient Assessment Including Developing a Relevant Medical History, Making Pertinent Observations of the Environment and Doing the Appropriate Physical Examination.	20-30
A. Assist the Paramedic and/or EMT in the Application of the Following Stretcher Skills: 1. Removing and Installing the Stretcher in the MICU* 2. Raising and Lowering the Stretcher Using Side and Rear Handles 3. Raising and Lowering the Head and/or Foot of the Stretcher	

CONTACT HOURS
PER TOPIC

COURSE TOPICS (CONTINUED)

- B. Identify, Locate and Be Able to Use the Following Equipment:
 - 1. Shock Trousers
 - 2. Backboards (long and short)
 - 3. Scoop Stretcher
 - 4. Stair Chair
 - 5. Splints
 - a. Thomas Half Ring
 - b. form Leg Splint
 - c. Wire Splint
 - d. Board Splint
 - 6. O2 Equipment (Fixed and Portable)
 - a. Record Cylinder Pressure
 - b. Note the Difference Between Pressure
 - 7. Fixed and Portable Suction
- C. Complete DHRS-EMS BLS Ambulance Inspection Forms
- D. Be Able to Identify and Remove the Following from the MICU*
 - 1. Jump Bag and Its Contents
 - 2. Cardiac Box
- E. Observe and Assist in Managing Patients with:
 - 1. Major Trauma to Head, Neck, Chest, Abdomen Spine, and Extremities.
 - 2. Myocardial Infarction
 - 3. Congestive Heart Failure
 - 4. Obstructed Airway
 - 5. Diabetic Emergency
 - 6. Asthmatic Attack
 - 7. Seizure
 - 8. Coma
 - 9. Obstetric Problems
 - 10. Psychiatric Problems
 - 11. Overdose
 - 12. Intoxication

PROGRAM TITLE: Emergency Medical Technician

COURSE TITLE: Fundamentals of Emergency Medical Care
Clinical Experience

CIP NUMBER: 0317.020500

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLE(S):

15.0 TAKE BASELINE VITAL SIGNS AND SAMPLE HISTORY -- The student will be able to:

- 15.01 Assess vital signs, differentiating normal from abnormal.
- 15.02 Assess skin color, temperature, state of dryness or moistness, and capillary refill.
- 15.03 Assess pupils, including size, reactive and non-reactive, and equal and unequal.
- 15.04 Explain the difference between auscultation and palpation for obtaining a blood pressure.
- 15.05 Identify the components and the importance of the SAMPLE history.
- 15.06 Differentiate between a sign and a symptom.
- 15.07 Demonstrate the skills used to obtain information from the patient, family, or bystanders at the scene.
- 15.08 Discuss the need to search for additional medical identification.

16.0 LIFT AND MOVE PATIENTS -- The student will be able to:

- 16.01 Describe the guidelines and safety precautions for moving or carrying patients and/or equipment specific to EMT.
- 16.02 State three situations that may require the use of an emergency move.
- 16.03 Identify, prepare for use, and demonstrate use of the following patient carrying devices - wheeled ambulance stretcher, stair chair, scoop stretcher, long spine board, basket stretcher, and flexible stretcher.

17.0 ACCOMPLISH BASIC ADVANCED AIRWAY MANAGEMENT -- The student will be able to:

- 17.01 Describe the anatomy and physiology of the respiratory and airway system differentiating adult and infant, child.
- 17.02 Differentiate between the signs of adequate and inadequate ventilation.
- 17.03 Describe and demonstrate the steps in providing mouth-to-mouth artificial ventilation with body substance isolation (barriers) for adult, infant and child patients.
- 17.04 Demonstrate a knowledge of the parts and assembly of a bag-valve-mask system.
- 17.05 Demonstrate ventilation of a patient with a bag-valve-mask system, including adult, infant and child.
- 17.06 Demonstrate ventilation of a patient with a pocket mask.
- 17.07 Demonstrate artificial ventilation of a patient utilizing a flow restricted, oxygen-powered ventilation device.
- 17.08 Demonstrate artificial ventilation of a patient with a stoma.
- 17.09 Demonstrate measurement and insertion of oropharyngeal and nasopharyngeal airways.
- 17.10 Demonstrate oxygen administration for adult, infant and child patients, including correct use of oxygen tanks and regulators, and correct flow rate.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S):

TITLE(S):

- 17.11 Demonstrate the use of a non-rebreather face mask, stating the correct flow rate and indications for its use.
- 17.12 Demonstrate the use of a nasal cannula for oxygen administration, stating the correct flow requirements and indications for its use.
- 17.13 Explain the pathophysiology of airway compromise.
- 17.15 Demonstrate how to perform the Sellick maneuver (cricoid pressure).
- 17.17 Demonstrate endotracheal intubation, placement confirmation, and securement in the adult, infant, and child patient.
- 17.18 Demonstrate the placement of multi-lumen airway, tube confirmation, and securement in the adult patient.
- 17.19 Demonstrate foreign body airway obstruction removal in the adult, infant and child patient.

19.0 DEMONSTRATE INITIAL AND ONGOING ASSESSMENTS -- The student will be able to:

- 19.01 Summarize reasons for forming a general impression of the patient.
- 19.02 Describe and demonstrate the components of an initial assessment, including vital signs, skin condition, mental status, airway and breathing and external bleeding.
- 19.03 Demonstrate the ability to prioritize patients.
- 19.04 Discuss the reasons for repeating the initial assessment as part of the ongoing assessment.
- 19.05 Describe the components and demonstrate the skills of the on-going assessment.
- 19.06 Describe trending of assessment components.

20.0 PERFORM FOCUSED AND DETAILED HISTORY AND PHYSICAL EXAMS - The student will be able to:

- 20.01 Discuss the reasons for and the areas included in the focused rapid trauma assessment and discuss what should be evaluated.
- 20.02 Differentiate when the rapid assessment may be altered in order to provide patient care.
- 20.03 Demonstrate the rapid trauma assessment that should be used to assess a patient based on mechanism of injury.
- 20.04 Differentiate between and demonstrate the focused history and physical exam that is performed for responsive medical patients with no known prior history and responsive patients with a known prior history.
- 20.05 Discuss the components of and areas of the body included in a detailed physical exam.
- 20.06 Explain what additional care should be provided while performing the detailed physical exam.
- 20.07 Distinguish between the detailed physical exam that is performed on a trauma patient and that of a medical patient.
- 20.08 Demonstrate the skills involved in performing a detailed physical examination.
- 20.09 Demonstrate the skills involved with the proper initiation of an intravenous line, evaluation of patency, securement, and fluid flow rate appropriate for the indicated patient.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S): TITLE(S):

21.0 DEMONSTRATE ABILITY TO COMMUNICATE AS AN EMT -- The student will be able to:

- 21.01 List the proper methods of initiating and terminating a radio call.
- 21.02 State the proper sequence for delivery of patient information.
- 21.03 Identify the essential components of the EMT verbal report, stating the legal aspects to be considered.
- 21.04 List the correct radio procedures in the following phases of a typical call; to the scene, at the scene, to the facility, at the facility, to the station, at the station.
- 21.05 Perform a simulated, organized concise radio transmission, an organized, concise report that would be given to an ALS provider arriving at an incident scene at which the EMT was already providing care, and a patient report that would be given to the staff at a receiving facility.
- 21.06 Correctly complete a pre-hospital report.
- 21.07 Describe the legal implications associated with the written report and the special consideration concerning patient refusal.
- 21.08 Discuss all state and local record and reporting requirements specific to EMS.
- 21.09 Explain the rationale for using an accurate and synchronous clock so that information can be used in trending.

22.0 ASSIST PATIENTS TO ADMINISTER MEDICATIONS -- The student will be able to:

- 22.01 Identify medications carried on the unit by brand and generic names.
- 22.02 Identify medications which the EMT may assist patients to administer by brand and generic names.
- 22.03 Discuss the various forms of medication and the rationale for their administration.
- 22.04 Demonstrate general steps for assisting patient with self-administration of medications.
- 22.05 Correctly read labels and inspect each type of medication.

24.0 MANAGE VARIOUS TRAUMA SITUATIONS -- The student will be able to:

- 24.01 Establish the relationship between airway management and the trauma patient.
- 24.02 Establish the relationship between body substance isolation and various trauma situations.
- 24.03 Demonstrate completing a prehospital report for various trauma situations.
- 24.04 Respond correctly to bleeding and shock.
- 24.05 Respond correctly to soft tissue injuries.
- 24.06 Respond correctly to musculoskeletal trauma situations.
- 24.07 Respond correctly to injuries to the head and spine.



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 1401</u>	SEMESTER CREDIT HOURS: <u>3</u>
COURSE TITLE: <u>Fundamentals of Emergency Medical Care Clinical Experience</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 checked="" type="checkbox"/> Scientific Method of Inquiry
<input checked="" type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input checked="" type="checkbox"/> Information Literacy	<input checked="" type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively

	<u>LEARNING OUTCOMES</u>	<u>METHOD OF ASSESSMENT</u>
•	Demonstrate proper spinal immobilization of trauma patients	Scenarios, skills exam
•	Demonstrate proficiency in how to deal with patients, preceptors, and fellow students who come from diverse backgrounds, age groups, socioeconomic groups, and those with complaints, problems, and aggressive behaviors utilizing analytical and problem-solving tools.	Role play, exams, clinical evaluations
•	Demonstrate oxygen delivery to patients using various methods	Scenarios, clinical evaluations
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Section 6

Name of Person Completing This Form: Marcie Heatherington Date: 11/05/2007