

**Florida International University
College of Nursing and Health Sciences
Masters of Science in Athletic Training**

**COURSE DESCRIPTION
Fall 2008**

COURSE NUMBER	HSC 4406
PS NUMBER	93986
COURSE TITLE	Management of Medical Emergencies
SECTION	U01
PLACEMENT	Observational Athletic Training Students
COURSE CREDITS	2
CLOCK HOURS	Monday and Wednesday 8:00 am – 8:50 am, GPA 112
CO-REQUISITES	PET 4520
FACULTY	Gabe Casanova, MS, ATC, LAT 305-348-1072 Gabe.Casanova@fiu.edu Office – FIU Arena 156 Office Hours – MW 9am-10am, TuTh 3pm-4pm Kari Riddle, MS, ATC, LAT, NREMT-B 305-348-2059 langleyk@fiu.edu Office – FIU Arena 156 Office Hours – TuTh 8-9:30 Class Web Page: http://www.fiu.edu/~dohertyj

COURSE DESCRIPTION

The purpose of this course is to introduce students to the basic principles of managing medical emergencies utilizing immediate first aid techniques. Students will become familiar with accident, injury and illness situations, as well as the legal parameters involved when administering immediate first aid techniques and managing medical emergencies.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to:

Learning Objectives

In order to demonstrate knowledge of the practice of athletic training, to think critically about the practices involved in athletic training, including the ability to integrate knowledge, skill and behavior, and to assume professional responsibility, the entry-level certified athletic trainer must

recognize, assess, and treat patients with acute injuries and illnesses and provide appropriate medical referral.

Cognitive Competencies

1. Identify and describe basic components of a comprehensive emergency plan for the care of acutely injured or ill patients, which include (1) emergency action plans for each setting or venue; (2) personnel education and rehearsal; (3) emergency care supplies and equipment appropriate for each venue; (4) availability of emergency care facilities; (5) communication with onsite personnel and notification of EMS; (6) the availability, capabilities, and policies of community-based emergency care facilities and community-based managed care systems; (7) transportation; (8) location of exit and evacuation routes; (9) activity or event coverage; and (10) record keeping.
2. Explain the legal, moral, and ethical parameters that define the scope of first aid and emergency care and identify the proper roles and responsibilities of the certified athletic trainer.
3. Describe the availability, content, purpose, and maintenance of contemporary first aid and emergency care equipment.
4. Determine what emergency care supplies and equipment are necessary for circumstances in which the athletic trainer is the responsible first responder.
5. Know and be able to use appropriately standard nomenclature of injuries and illnesses.
6. Describe the principles and rationale of the initial assessment including the determination of whether the accident scene is safe, what may have happened, and the assessment of airway, breathing, circulation, level of consciousness and other life-threatening conditions.
7. Differentiate the components of a secondary assessment to determine the type and severity of the injury or illness sustained.
8. Identify the normal ranges for vital signs.
9. Describe pathological signs of acute/traumatic injury and illness including, but not limited to, skin temperature, skin color, skin moisture, pupil reaction, and neurovascular function.
10. Describe the current standards of first aid, emergency care, rescue breathing, and cardiopulmonary resuscitation for the professional rescuer.
11. Describe the role and function of an automated external defibrillator in the emergency management of acute heart failure and abnormal heart rhythms.

12. Describe the role and function of supplemental oxygen administration as an adjunct to cardiopulmonary resuscitation techniques.
13. Describe the characteristics of common life-threatening conditions that can occur either spontaneously or as the result of direct trauma to the throat, thorax, and viscera, and identify the management of these conditions.
14. Describe the proper management of external hemorrhage, including the location of pressure points, use of universal precautions, and proper disposal of biohazardous materials.
15. Identify signs and symptoms associated with internal hemorrhaging.
16. Describe the appropriate use of aseptic or sterile techniques, approved sanitation methods, and universal precautions for the cleansing and dressing of wounds.
17. Describe the injuries and illnesses that require medical referral.
18. Explain the application principles of rest, cold application, elevation, and compression in the treatment of acute injuries.
19. Identify the signs and symptoms of head trauma, including loss of consciousness, changes in standardized neurological function, cranial nerve assessment, and other symptoms that indicate underlying trauma.
20. Explain the importance of monitoring a patient following a head injury, including obtaining clearance from a physician before further patient participation.
21. Define *cerebral concussion*, list the signs and symptoms of concussions, identify the methods for determining the neurocognitive status of a patient who sustains a concussion and describe contemporary concepts for the management and return-to-participation of a patient who sustains a concussion.
22. Identify signs and symptoms of trauma to the cervical, thoracic, and lumbar spines, the spinal cord, and spinal nerve roots, including neurological signs, referred symptoms, and other symptoms that indicate underlying trauma and pathology.
23. Describe cervical stabilization devices that are appropriate to the circumstances of an injury.
24. Describe the indications, guidelines, proper techniques and necessary supplies for removing equipment and clothing in order to evaluate and/or stabilize the involved area.
25. Describe the effective management, positioning, and immobilization of a patient with a suspected spinal cord injury.

26. Identify the appropriate short-distance transportation method, including immobilization, for an injured patient.
27. Identify the signs, symptoms, possible causes, and proper management of the following:
 - a. Different types of shock
 - b. Diabetic coma
 - c. Seizures
 - d. Toxic drug overdose
 - e. Allergic, thermal, and chemical reactions of the skin (including infestations and insect bites).
28. Identify the signs and symptoms of serious communicable diseases and describe the appropriate steps to prevent disease transmission.
29. Identify the signs, symptoms, and treatment of patients suffering from adverse reactions to environmental conditions.
30. Identify information obtained during the examination to determine when to refer an injury or illness for further or immediate medical attention.
31. Describe the proper immobilization techniques and select appropriate splinting material to stabilize the injured joint or limb and maintain distal circulation.
32. Describe the proper ambulatory aid and technique for the injury and patient.
33. Describe home care and self-treatment plans of acute injuries and illnesses.

Psychomotor Competencies

1. Survey the scene to determine whether the area is safe and determine what may have happened.
2. Perform an initial assessment to assess the following, but not limited to:
 - a. Airway
 - b. Breathing
 - c. Circulation
 - d. Level of consciousness
 - e. Other life-threatening conditions
3. Implement appropriate emergency treatment strategies including, but not limited to:
 - a. Activate an emergency action plan
 - b. Establish and maintain an airway in an infant, child, and adult
 - c. Establish and maintain an airway in a patient wearing shoulder pads, headgear or other protective equipment and/or with a suspected spine injury
 - d. Perform one- and two-person CPR on an infant, child, and adult

- e. Utilize a bag-valve mask on an infant, child, and adult
 - f. Utilize an automated external defibrillator (AED) according to current accepted practice protocols
 - g. Normalize body temperature in situations of severe/life-threatening heat or cold stress
 - h. Control bleeding using universal precautions
 - i. Administer an EpiPen for anaphylactic shock
4. Perform a secondary assessment and employ the appropriate management techniques for non-life-threatening situations, including but not limited to:
- a. Open and closed wounds (using universal precautions)
 - b. Closed-head trauma (using standard neurological tests and test for cranial nerve function)
 - c. Environmental illness
 - d. Seizures
 - e. Acute asthma attack
 - f. Different types of shock
 - g. Thoracic, respiratory, and internal abdominal injury or illness
 - h. Acute musculoskeletal injuries (i.e., sprains, strains, fractures, dislocations)
 - i. Spinal cord and peripheral nerve injuries
 - j. Diabetic coma
 - k. Toxic drug overdose
 - l. Allergic, thermal, and chemical reactions of the skin (including infestations and insect bites)

Clinical Proficiency

Demonstrate the ability to manage acute injuries and illnesses. This will include surveying the scene, conducting an initial assessment, utilizing universal precautions, activating the emergency action plan, implementing appropriate emergency techniques and procedures, conducting a secondary assessment and implementing appropriate first aid techniques and procedures for non-life-threatening situations. Effective lines of communication should be established and the results of the assessment, management, and treatment should be documented.

TOPICAL OUTLINE:

WEEK	DATE	TOPIC & ASSIGNMENTS
1	Lecture 1 Aug. 25	Course Introduction; Overview of the Athletic Training Profession; The Role of the First Responder Chapters 1 Text pages 2-21; Workbook Pages 2- 7. Chapter 2: Emotional Aspects of Emergency Care; Stress Management; The Emergency Scene; Well-Being of the Professional Rescuer Text pages 22 – 69. Workbook pages 8 – 17. <i>Assignment: Read Chapters 3 & 5</i>
	Lecture 2 Aug. 27	Chapter 3; Medical, Legal, and Ethical Issues Text pages 70 – 89; Workbook pages 18-23 Chapter 5; Baseline, Vital Signs, and Medical History

		Text pages 144 – 165; Workbook pages 42-51. <i>Assignment: Read chapter 7</i>
2	Lecture 3 Sept. 1	No Class – Labor Day
		<i>Sept. 2 - Last day to complete late registration.</i>
	Lecture 4 Sept. 3	Chapter 7: Airway Text pages 210 – 252; Workbook pages 68 – 76 <i>Assignment Due: Workbook chapters 1, 2, 3, 5</i> <i>Assignment: Register for Bloodborne Pathogen Certificate</i>
3	Lecture 5 Sept. 8	Chapter 11: Respiratory Emergencies Text pages 364-394; Workbook pages 108-119 <i>Assignment: Complete Bloodborne Pathogen Certificate</i>
	Lecture 6 Sept. 10	Chapter 3: Pediatric Assessment Text pages 950-954, 958-962; Workbook pages 344-357
4	Skill Sept. 15	Skill Activity: Conscious choking, unconscious choking and rescue breathing for adult, child, and infant, breathing barriers, BVM, Oxygen delivery <i>Assignment Due: Workbook chapters 7 and 11</i>
	Lecture 7 Sept. 17	Chapter 12: Cardiovascular Emergencies – Text pages 398-434; Workbook pages 120-133, Chapter 32: Pediatric Assessment Text pages 963-970 <i>Assignment Due: Bloodborne Pathogen Certificate</i>
5	Skill Sept. 22	Skill Activity: Adult, child, infant CPR, 2-person CPR, AED Scenarios, CPR w/ and w/o spinal injuries
	Skill Test Sept. 24	SKILL TEST: Breathing Emergencies and CPR <i>Assignment Due: Workbook chapters 12 and 32</i>
6	Exam 1 Sept. 29	Exam #1 - Chapters 1, 2, 3, 5, 7, 11, 12, and 32, and CPR <i>Assignment: Read Chapter 4 and 6</i>
	Lecture 8 Oct. 1	Chapter 4 Review of The Human Body (on your own) Text pages 90-143; Workbook Pages 24-41 Chapter 6 Lifting and Moving Patients Text pages 168-207; Workbook pages 52-67 Emergency Action Plan <i>Assignment: Write an EAP for a specific setting. Due: 10/20/08</i> <i>Read chapters 13 and 14</i>
7	Lecture 9 & Skill Oct. 6	Chapter 13 Neurologic Emergencies Text pages 438-463; Workbook pages 134-143 Chapter 14 The Acute Abdomen Text pages 464-479; workbook pages 144-151 Skill Activity: Lifting and Moving techniques and palpation of the abdomen <i>Assignment: Read Chapter 15 and 16</i> <i>Assignment Due: Workbook chapters 4, 6</i>

	Lecture 10 Oct. 8	Chapter 15 Diabetic Emergencies Text pages 480 – 497; Workbook pages 152-163 Chapter 16 Allergic Reactions Text pages 498-515; Workbook pages 164-171 <i>Assignment Due: Workbook chapters 13, 14</i> <i>Assignment: Read Chapters 10 and 17</i>
8	Lecture 11 Oct. 13	Chapter 10 General Pharmacology Text pages 342-363; workbook pages 102-107 Chapter 17 Substance Abuse and Poisoning Text pages 516-539; Workbook pages 172-181 <i>Assignment: Read chapter 18</i>
	Lecture 12 Oct. 15	Chapter 18 Environmental Emergencies Text pages 542-579; Workbook pages 182-193 <i>Assignment: Read chapter 22</i>
<i>Oct. 17 - Deadline to drop a course with a DR grade</i>		
9	Lecture 13 & Skill Oct. 20	Review Circulatory System; Text pages 118-125 Chapter 22 Internal Bleeding and External Bleeding Text pages 648-674; Workbook pages 222-235 <i>Assignment Due: EAP; Assignment Read Chapters 23, 24</i> <i>Assignment Due: 10,15, 16, 17, 18</i> Skill Activity: Wound Care
	Lecture 14 Oct. 22	Chapter 23 Shock Text pages 676-694; Workbook pages 236-245 Chapter 24 Soft Tissue Injuries Text pages 696-731; Workbook pages 246-259
10	Skill Oct. 27	Skill Activity: Caring for shock, Bleeding Control, Bandaging
	Skill Test Oct. 29	SKILLS TEST: Glove removal, wound care, bleeding control, bandaging <i>Assignment: Study for Exam #2.</i> <i>Assignment Due: Workbook chapters 22, 23, 24</i>
11	Exam 2 Nov. 3	Exam #2 - Chapters 4,6,10,13,14,15,16,17,18,19,20,22,23,&24 <i>Assignment: Read Chapter 25 & 26</i>
	Lecture 15 Nov. 5	Chapter 25 Eye Injuries Text pages 734-753; Workbook pages 260-269 Chapter 26 Facial Injuries Text pages 756-773; Workbook pages 270-277
12	Lecture 16 & Skill Nov. 10	Chapter 29 Musculoskeletal Care; Muscle, Bones Injuries Text pages 818-866; Workbook pages 300-319 Skill Activity: Splinting
	Lecture 17 & Skill Nov. 12	Muscle, Bones, and Joint Injuries Continued Skill Activity: Splinting <i>Assignment Due: Workbook chapters 25, 26, 29</i>
<i>Nov. 14 – Deadline for faculty to review class rosters to ensure accuracy before grade roster</i>		

13	Lecture 18 & Skill Nov. 17	Chapter 30 Head, Neck, and Back Injuries; Concussions Text pages 870-908; Workbook pages 320-337 Skill Activity: Concussion Screening
	Skill Nov. 19	Skill Activity: Spine boarding
14	Lecture 19 Nov. 24	Chapter 31 Pediatric Emergencies Text pages 914-936; Workbook pages 338-343
	Skill Test Nov. 26	SKILLS TEST: Splinting, spine boarding, concussion screening <i>Assignment Due: Workbook chapters 30, 31</i>
	<i>Nov. 27 & 28 – Thanksgiving Holiday (University Closed)</i>	
15	Lecture 20 Dec. 1	Review for Exam III <i>Assignment: Study for Exam III</i>
	Skill Dec. 3	SKILLS/EXAM Make up day <i>Assignment: Study for Final</i>
16	Dec. 8-13	<i>Final Exams Week</i> Exam #3
<i>Dec. 17 – Deadline (by 11:59PM) for faculty to submit grades.</i>		

*Lecture, Lab, and Examination schedules are tentative and modifications will be announced in class and/or posted on the class website. Special provisions are available for students who have special needs. Please notify the instructor for necessary accommodations.

TEACHING STRATEGIES

The course will be presented utilizing a variety of teaching techniques such as lectures, labs, simulations, role-playing, problem-solving games, and reflective activities with 2.0 contact hour per week.

EVALUATION

There will be 2 written exams, 1 written final exam and 3 skills tests. Each written exam is worth 100 points. The final exam is worth 200 points. Each skill activity is worth 10 points. Each skills test point totals will be based on which skills are randomly chosen to perform. There are a total of 8 skill activities. You will receive 2 certificates upon completion of this class. Each certificate is worth 20 points, which accounts for 5% of your final grade. If you don't score an 80% or better on your skill activities, you will not be awarded your certificates. If you do not pass your final exam with an 80% or better, you will not be awarded your certificates. There is an additional cost for the certificates and you must turn in a self addressed, stamped envelope to receive these certificates. The Emergency Action Plan will be worth 50 points.

2 Written Exams (2 @ 100 points each)	25%
1 Final Exam (200 points)	20%
Skill Activities (10 points each)	10%
Skills Testing (3)	20%
Emergency Action Plan	15%
Two Certifications (20 points each)	5%
Attendance/Assignments/Participation	5%
Extra Credit Articles	+5%
TOTAL	100%

Grading Scale:

93-100	A	73-76	C
90-92	A-	70-72	C-
87-89	B+	67-69	D+
83-86	B	63-66	D
80-82	B-	60-62	D-
77-79	C+	0-59	F

Note: When the decimal is .4 or below the grade is rounded down to the nearest whole number. If the decimal is .5 or above the grade is rounded up to the nearest whole number

Attendance/Participation

Attendance/Participation points are determined as follows:

- 1) A maximum of 10 points is earned when you come to class on time and participate in discussions.
- 2) Excused absences are worth 8 out of 10 points. To qualify for an excused absence you must notify the instructor **PRIOR TO THE TIME** of the absence by voice mail message or email.
- 3) If you arrive within 5 minutes after class has started, you will receive 5 out of 10 points
- 4) If you arrive 5 minutes after class has started you will receive 0 out of 10 points

Exams/Skill Activities

- Exams/Skill Activities are written and practical type tests.
- The last exam is given during finals week and will be a cumulative exam.
- Exams are scheduled at logical breaks in the lecture material and dates are tentative.
- Most of the material that will be on the exam will be covered in lecture. There will be sections or even chapters that the student will be required to read which may be on the exam.
- Exams begin **ON TIME**. If you arrive later than 15 min after the start of the exam, you will not be allowed to take the exam.
- If you are tardy (within 15 minutes after the start of the exam), 1 point for each minute you are late will be deducted from your exam grade.
- Any student unable to take an exam at the regularly scheduled time **AND** is able to present an approved excuse missing the exam, **MUST** notify the course instructor or the

department secretary PRIOR TO THE TIME of the absence by voice mail message or email.

- Make-up exams will be administered during the last class day, or during finals week.

Extra Credit Articles

- Current event articles from your choice of publication highlighting health or medical emergency related subjects and topics.
- A 1-page typewritten summary of the article must be submitted to the instructor on each Monday **BEFORE** class begins. (Late Articles will not be accepted)

REQUIRED TEXTS

1. Emergency Care and Transportation of the Sick and Injured) Andrew Pollak 9th Edition.
ISBN: 978-0-7637-4406-9
2. Emergency Care and Transportation of the Sick and Injured Student Workbook 9th Ed.
ISBN: 978-0-7637-4857-9
3. Course supplies include a Pocket Mask and First Aid Training Kit.

POLICIES

Attendance/Participation

**Attendance to all classes and labs is mandatory. Unexcused absences or tardiness will result in point deductions from the final course grade. Attendance is expected. More than two absences due to unavoidable emergency situations will be considered excessive. Excellent attendance and class participation will affect borderline grades favorably. Poor attendance and not arriving prepared for class may negatively affect grades.*

Academic Misconduct

Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly to demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of Florida International University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook. Students who plagiarize or cheat can be charged with academic misconduct. Penalties for academic misconduct can include up to dismissal from the University.

Misconduct includes:

Cheating: The unauthorized use of books, notes, aids, electronic sources; or assistance from another person with respect to examinations, course assignments, field service reports, class recitations; or the unauthorized possession of examination papers or course materials, whether originally authorized or not.

Plagiarism: The use and appropriation of another's work without any indication of the source and the representation of such work as the student's own. Any student, who fails to give credit for ideas, expressions or materials taken from another source, including internet sources, is guilty of plagiarism.

Religious Holidays

Religious holidays are an excused absence, but not beyond the day for the holiday itself. Students should

make their requests known at the beginning of the semester and arrangements must be made with the faculty member for missed work.

Students with Disabilities

Students with disabilities who may need special accommodations must register with the Office of Disability Services. In addition, students must contact the instructor so that arrangements can be made to accommodate their needs.

ATHLETIC TRAINING EDUCATION PROGRAM PLAGIARISM POLICY

Academic misconduct is a violation of the University Code of Standards, the Code of Academic Integrity, the ethical relationship between the student and the academic community, and especially between the student and the instructor. It is the responsibility and prerogative of the instructor to make an initial determination about the extent and severity of an instance of academic misconduct; the instructor may opt to make a referral for further adjudication in appropriate cases.

Plagiarism

This Policy views plagiarism as one form of academic misconduct, and adopts the definition of the university's Code of Academic Integrity, according to which plagiarism is

the deliberate use and appropriation of another's works without any indication of the source and the representation of such work as the student's own. Any student who fails to give credit for the ideas, expressions or materials taken from another source, including internet sources, is guilty of plagiarism.

Examples of plagiarism include, but are not limited to:

1. Term papers acquired online or from other sources;
2. Copying of original material without attribution;
3. Use of other students' work;
4. Copying and pasting, verbatim, information from Internet sources, without quotation marks and correct citation.

1. Availability of Information

- a. All Athletic Training students are expected to know what constitutes academic misconduct and to be willing to abide by all university policies on academic conduct and integrity. In order to facilitate this, The Athletic Training Program will prominently post and distribute information and links on these policies, and will strongly encourage students to review the Code of Academic Integrity, which is part of the FIU Student Handbook.
- b. Faculty of The Athletic Training Program will:
 - i. Describe in or link to their syllabi information about the academic conduct policies of the University, the Program, and the instructor, and
 - ii. Provide clear statements defining plagiarism and cheating in their syllabi.

2. Procedures and Penalties

a. Procedures

Charges of Academic Misconduct may be brought against an Athletic Training student by an Athletic Training faculty member. If the faculty member suspects plagiarism or other forms of academic misconduct, within one week of the discovery of the suspected act, the faculty member must hold an informal meeting with the student to inform him/her of the allegation(s), provide any evidence available, and allow the student to respond.

The faculty member will decide whether to pursue informal resolution, file formal resolution charges, or take no further action, and will follow the procedures outlined in the Academic Misconduct Procedures, available at <http://www.fiu.edu/~oabp/misconductweb/1acmisconductproc.htm>.

The faculty member will inform the student of the decision in writing within one week of the meeting.

The student has the right to appeal the outcome of the meeting with the instructor within one week of the faculty's decision, when the decision is to pursue informal resolution or file formal resolution charges. The appeal will take the form of a letter to the Athletic Training Program Director outlining the circumstances of the case and the reason for the objection to the instructor's recommendation. The student must provide the instructor with a copy of the letter of appeal. In the event the Athletic Training Program Director is the instructor of the course in which the alleged infraction occurs, the student submits the letter to the Associate Dean of Academic Affairs and provides a copy to the instructor. The Athletic Training Program Director or his/her designee will examine the case and make a final determination about the pursuit of Informal Resolution or the filing of formal resolution charges.

b. Penalties

First Infraction

An Athletic Training student found responsible for plagiarism or other academic misconduct by informal resolution or formal resolution will earn an F in the relevant Athletic Training course.

Second Infraction

An Athletic Training student found responsible for a second act of plagiarism or other academic misconduct by informal resolution or formal resolution will earn an F in the relevant Athletic Training course and will be dismissed from the Athletic Training Program by the Program Director, effective from the end of the semester in which the infraction occurs. Dismissal will be in writing and will entail the loss of all privileges and benefits of being in the Athletic Training Program, and the student will not be readmitted to the Athletic Training Program. The decision of the Program Director will be final. This decision relates solely to the student's status in the Athletic Training Program and does not affect the student's right to appeal the original faculty decision.

The penalty of dismissal from the Athletic Training Program may apply to academic misconduct in any course within Florida International University and not only to courses offered by the Athletic Training Program. In the case of courses outside the Athletic Training Program, the Athletic Training Program Director will rely on the Office of the Provost for notification about the infraction(s). More stringent penalties, such as dismissal from the university, may be pursued through the university's established academic misconduct process.

This Policy follows the University Academic Misconduct Procedures of the Code of Academic Integrity, with modification to provide for appeal within the Athletic Training Program.

This Policy becomes effective from Spring 2008.