

# Course Syllabus

**Department:** Physical Education and Integrated Health Care

**Date:** April 2014

**I. Course Prefix and Number:** EMCR 200

**Course Name:** Emergency Medical Technician

**Credit Hours and Contact Hours:** 6 credit hours and 6 contact hours

**Catalog Description including pre- and co-requisites:** The Emergency Medical Technician course prepares the EMT student to provide pre-hospital assessment and care for patients of all ages with a variety of medical conditions and traumatic injuries. Areas of study include an introduction to emergency medical services systems, roles and responsibilities of EMTs, anatomy and physiology, medical emergencies, trauma, special consideration for working in the pre-hospital setting, and providing patient transportation.

**Relationship to Academic Programs and Curriculum including SUNY Gen Ed designation if applicable:**

This course may be used as a Physical Education or General Elective for SUNY Gen Ed. This course is required for any student wishing to pursue any higher level of EMS education such as AEMT, Critical Care or Paramedic. Under NYSDOH Bureau of EMS policy any person wishing to take an advanced EMS program must first be certified in NYS as a Certified Emergency Medical Technician.

**II. Course Student Learning Outcomes:**

**The student will:**

1. Describe the roles of EMS in the health care system.
2. Demonstrate the professional attributes expected of EMTs.
3. Employ the roles and responsibilities of an EMT with regard to personal safety and wellness, as well as the safety of others.
4. Perform the duties of an EMT with regard for medical-legal and ethical issues, including functioning under medical direction and within the scope of practice.
5. Apply principles of anatomy, physiology, pathophysiology, life span development, and therapeutic communications to the assessment and management of patients.
6. Identify the need for and perform immediately live-saving interventions to manage a patient's airway, breathing and circulation.
7. Assess and manage patients of all ages with a variety of complaints, medical conditions, and traumatic injuries.
8. Apply principles of emergency medical services operations, including considerations in ambulance and air medical transportation, multiple-casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.

**College Learning Outcomes Addressed by the Course:** *(check each College Learning Outcome addressed by the Student Learning Outcomes)*

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> writing             | <input checked="" type="checkbox"/> computer literacy |
| <input checked="" type="checkbox"/> oral communications | <input type="checkbox"/> ethics/values                |
| <input checked="" type="checkbox"/> reading             | <input type="checkbox"/> citizenship                  |
| <input type="checkbox"/> mathematics                    | <input type="checkbox"/> global concerns              |
| <input checked="" type="checkbox"/> critical thinking   | <input type="checkbox"/> information resources        |

**III. Assessment Measures (Summarize how the college and student learning outcomes will be assessed):** *For each identified outcome checked, please provide the specific assessment measure.*

List identified College Learning Outcomes(s)	Specific assessment measure(s)
Writing	The student will learn to write patient care reports in a legible manner, using appropriate medical terms and grammar. Patient care reports are part of a patient's medical file.
Oral Communications	The student will learn how to give oral reports to medical control over various communication tools, such as radios or telephones. The student will also learn how to orally communicate with patients of varied medical conditions to be able to appropriately treat such patients.
Reading	Student will complete written quizzes, exams and NYSDOH Bureau of EMS Written Exam
Critical Thinking	Students will be given various scenarios to practice during the course of the program. These scenarios are to help the student develop their critical thinking skills to use in the field while rendering pre-hospital care to a sick or injured person. Also, the student learns critical thinking skills to be able to successfully pass the practical skills examination at the end of the course allowing the student to move forward to taking the NYSDOH Bureau of EMS Written Examination for certification.
Computer Literacy	Students must complete online requirements in NIMS 100, 700, MOLST, and Mandatory Child Abuse Reporting. Certificates are issued at the end of each online segment and

#### **IV. Instructional Materials and Methods**

##### **Types of Course Materials:**

Textbooks, workbooks, computer access, manikins, AED trainers, various pre-hospital pieces of equipment used on patients either on scene or in transport to the hospital. Course materials and equipment are to reflect the instruction of the EMS National Standards.

##### **Methods of Instruction (e.g. Lecture, Lab, Seminar ...):**

Teaching-learning methods in this course may include, but are not limited to, assigned readings, presentations, discussion, critical thinking exercises, labs and class activities. Students may take class trips to various places such as 911 communication centers, salvage yards to practice extrication, etc.

#### **V. General Outline of Topics Covered:**

- Course Introduction and Overview
- Introduction to Emergency Medical Services and the Health Care System
- The Well-being of the EMT
- Lifting and Moving Patients
- Medical, Legal and Ethical Issues
- Medical Terminology
- Anatomy and Physiology
- Life Span Development
- Airway Management
- Respiration and Artificial Ventilation
- CPR/AED
- Scene Size Up
- The Primary Assessment
- Vital Signs and Monitoring Devices
- History Taking
- Assessment of the Trauma Patient
- Assessment of the Medical Patient
- Reassessment
- Critical Thinking and Decision Making
- Communications and Documentation
- General Pharmacology
- Respiratory Emergencies

- Cardiac Emergencies
- Diabetic Emergencies
- Altered Mental Status
- Allergic Reaction
- Poisoning and Overdose Emergencies
- Abdominal Emergencies
- Behavioral and Psychiatric Emergencies and Suicide
- Hematologic and Renal Emergencies
- Bleeding and Shock
- Soft Tissue Trauma
- Chest and Abdominal Trauma
- Trauma to the Head, Neck and Spine
- Multisystem Trauma
- Environmental Emergencies
- Obstetric and Gynecological Emergencies
- Pediatric Emergencies
- Geriatric Emergencies
- Emergencies for Patients with Special Challenges
- EMS Operations
- Hazardous Materials, Multiple Casualty Incidents, and Incident Management
- Highway Safety and Vehicle Extrication
- EMS Response to Terrorism

7/12