

Department of Applied Medical Sciences
Paramedics Program

Program Information

Program Number	1
Instructional Level	Two-Year Technical Diploma
Instructional Area	Applied medical Sciences
Original Developer(s)	CDC + Department team

Target Population

This program is designed for individuals seeking jobs in the area of medical emergency

Description

This program is designed for any licensed emergency medical technician (EMT). Students who successfully complete this programs are eligible to deal with pre-hospital emergency cases, cooperate with the causality department in hospitals and be able to drive emergency vehicle.

External Requirements

1. Physical Examination
2. To provide Driving license within a year after program entry

Career/Job Titles

1. Assistant Emergency Medical Technician

Related DACUM Studies DACUM A

DACUM Title	Paramedics
Date	01/03/04
Method	DACUM

Entry Requirements

1. High School Graduate with Science Inclination
2. High School GPA of minimum 65% (2.6 of 4 point scale)
3. Satisfactory result on the personal interview administered by the Department
4. Placement tests: English (minimum 65%)
5. CPR certificate

Program Outcomes

1. Drive an emergency vehicle
2. Assess patient condition
3. Intubate a person
4. Operate emergency radio/ communication
5. Give fluid IV
6. Resuscitate a patient
7. Immobilization of patient
8. Provide psychiatric emergency

9. Control bleeding
10. Manage maternity cases
11. Disaster management (crisis management)
12. Conduct emergency administration
13. Provide First Aid for emergency cases
14. Deal with poisoning condition
15. Provide ambulance nursing care

General Education Outcomes

- A. Apply scientific concepts and terminology.
- B. Demonstrate awareness and respect for self and the differences in others when communicating.
- C. Describe the major role of each system of the body.
- D. Apply problem solving and management skills
- E. Preparation of personal and medical equipment
- F. Transportation of patients from major incidence scene

Core Abilities

1. Use technology
Indicators
 1. learner recognizes the impact of technology
 2. learner selects and uses appropriate technology
2. Communicate effectively
Indicators
 1. learner applies appropriate reading, writing, speaking, and listening skills to express information, ideas, and opinions
 2. learner interprets non-verbal communication
3. Self Management and Wellness
Indicators
 1. learner demonstrates knowledge of health maintenance and wellness
4. Act responsibly
5. Apply basic skills effectively
Indicators
 1. learner follows instruction.
 2. learner organizes and maintains information.
 3. learner transfers learning from one context to another.
 4. learner uses tools for learning such as calculators, computers, books, manuals, and community resources.
6. Communicate clearly
Indicators
 1. learner uses proper grammar, punctuation, and spelling.
 2. learner communicates accurately and clearly.
 3. learner communicates appropriately and professionally.
 4. learner uses active listening skills.
7. Behave ethically
Indicators
 1. learner accepts responsibility for his/her actions
 2. learner demonstrates respect for the rights, views, and work of others

3. learner exhibits personal, professional, and academic honesty
 4. learner recognizes his/her responsibility to personal, social, professional, and educational environments and makes informed decisions based on that responsibility
 5. learner displays behavior consistent with the ethical standards within a discipline or profession
8. Take responsibility for her or his own actions.
- Indicators
1. learner acknowledges one's actions
 2. learner acknowledges one's role in group activities
 3. learner reviews the results of one's actions
 4. learner identifies the successes resulting from one's actions
 5. learner identifies any problems resulting from one's actions and makes adaptations
 6. learner evaluates and acts upon feedback
9. Demonstrate responsible decision making skills
10. Teamwork--Work with others to analyze a situation, establish priorities, and supply resources for solving a problem or accomplishing a task)
- Indicators
1. learner participates in defining team expectations
 2. learner proactively identifies opportunities to support team members
 3. learner is proactive in carrying out team assignments
 4. learner supports other team members' ideas
 5. learner respects ideas and opinions of internal and external customers
 6. learner implements team decisions
 7. learner processes information to determine the best possible solution
 8. learner participates in cross-training and continuing education activities
 9. learner assumes leadership for mediating differences between team members
 10. learner thinks outside the guidelines; incorporates creativity
 11. learner values individual differences (gets along with others)
 12. learner maintains team records
11. Demonstrate integrity and honesty
- Indicators
1. learner dresses appropriately for the job
 2. learner avoids "bad-mouthing" the company or employer
 3. learner comes to work on the days scheduled
 4. learner does fair share of the work
 5. learner adapts work habits to changes in rules, procedures, and situations
 6. learner is careful not to endanger the safety of others
 7. learner follows appropriate safety regulations
 8. learner demonstrates positive attitude toward company or employer
 9. learner follows the rules about hours, vacations, time off, sick leave, etc.
 10. learner volunteers to help when there is a crisis or heavy work load
 11. learner notifies supervisor when unable to come to work as scheduled

12. Adapt language usage to meet cross cultural or multi-cultural needs

Indicators

 1. learner recognizes arbitrary use of language
 - 2.
 3. learner identifies options for overcoming language differences
 4. learner applies adaptive language strategies
 5. learner develops a minimal understanding of a second language (American Sign Language, foreign)
 6. learner affirms language diversity
13. Value cultural integration

Indicators

 1. learner identifies culture and diversity
 2. learner respects and encourages diversity
 3. learner considers multiple perspectives
 4. learner manages culture stress (culture shock)
 5. learner recognizes personal prejudices and stereotypes
 6. learner minimizes personal prejudices and stereotypes

Program Course Detail

Course A -- Emergency Medicine (EM1)

Course Number	AMS 100
Course Title	Emergency Medicine (EM1)
Semester/Year	1/1
Credits	5
Contact Hours	120
Category	Core Course
Required	Yes

Course Description

In this subject student will be able to learn techniques of physical examination, history taking, and patient assessment. Student will investigate the path-physiology and management of cardiac and respiratory arrest. The subject also introduces safe basic lifting and handling of patient.

Course B -- Medical Terminology

Course Number	AMS 116
Course Title	Medical Terminology
Semester/Year	1/1
Credits	3
Contact Hours	45
Category	Core Course
Required	Yes

Course Description

This course provides the students with the basic terms used in the medical field to help in understanding the information's written in the records of patients. In addition this course assists the student to pronounce, spell and write the daily used medical terms correctly. As the course progress, the students will be able to read and understand the meaning of a variety of medical terms including the anatomical, diagnostic laboratory results and pathological terms.

Course C -- English

Course Number	EL 101
Course Title	English
Semester/Year	1/1
Credits	2
Contact Hours	45
Category	General Education Requirement
Required	Yes

Course D -- Cell Biology

Course Number	AMS 115
Course Title	Cell Biology
Semester/Year	1/1
Credits	3
Contact Hours	60
Category	Core Course
Required	Yes

Course Description

Students will demonstrate knowledge of characteristics, structures, and functions of life systems; the process, continuity, and diversity of life; and the interactions of organisms with each other and their environment. The course will be designed to prepare the student for further study in scientific and medical fields. An introductory study of biological chemistry, cell biology, energy metabolism, genetics, ecology, and evolution. Topics include scientific method, biochemistry, cells, photosynthesis, respiration, DNA/RNA, protein synthesis, mitosis, meiosis, Mendelian genetics, human genetics, evolution, recombinant DNA, biotechnology, and environment. Special emphasis on the structure and function of cells, tissues, organs, and systems of the human body

Course E -- Work Ethics and loyalty

Course Number	SS 112
Course Title	Work Ethics and loyalty
Semester/Year	1/1
Credits	3
Contact Hours	45
Category	General Education Requirement
Required	Yes

Course F -- Emergency Medicine (EM2)

Course Number	AMS 121
Course Title	Emergency Medicine (EM2)
Semester/Year	2/1
Credits	5
Contact Hours	120
Category	Core Course
Required	No
Course Description	Apply the techniques of assessing patient, control bleeding, prevent shock and provide management of soft tissue injuries, burns and special cases.

Course G -- Medical Chemistry for EMT

Course Number	NSC 127
Course Title	Medical Chemistry for EMT
Semester/Year	2/1
Credits	3
Contact Hours	60
Category	Minor Requirement
Required	Yes

Course H -- English for EMT (ESP1)

Course Number	EL 102
Course Title	English for EMT (ESP1)
Semester/Year	2/1
Credits	3
Contact Hours	60
Category	Language Requirement
Required	Yes

Course I -- Anatomy and Physiology 1

Course Number	AMS 122
Course Title	Anatomy and Physiology 1
Semester/Year	2/1
Credits	3
Contact Hours	45
Category	Core Course
Required	Yes
Course Description	This course is designed to introduce students to the structure and organization of various systems in the human body. It deals with the structure and function of the musculoskeletal system, nervous system, circulatory system, blood, digestive system, urinary system, and endocrine and reproductive system. using a body system approach, the course emphasize the interrelationship between

structure and function at the gross and microscopic levels of organization of the entire human body.

Course J -- Islamic Education

Course Number SS 101
Course Title Islamic Education
Semester/Year 2/1
Credits 2
Contact Hours 30
Category General Education Requirement
Required Yes

Course K -- Emergency Medicine (EM3)

Course Number AMS 212
Course Title Emergency Medicine (EM3)
Semester/Year 1/2
Credits 5
Contact Hours 120
Category Core Course
Required Yes
Course Description Apply the techniques for pre- hospital care of immobilize of musculoskeletal trauma, medical emergencies, lifting and handling and positioning patient.

Course L -- Clinical Practice 1

Course Number AMS 211
Course Title Clinical Practice 1
Semester/Year 1/2
Credits 3
Contact Hours 75
Category Core Course
Required Yes
Course Description Apply the techniques for pre- hospital care of basic ECG interpretation and defibrillation, intubations and learn the skills of intravenous and drugs administration as a paramedic assistance and assessment for pregnant female patient.

Course M -- Emergency Ethics and laws

Course Number AMS 210
Course Title Emergency Ethics and laws
Semester/Year 1/2
Credits 3
Contact Hours 45
Category Core Course
Required Yes
Course Description Understanding and describe the ethical and legal issues that the student could face in the line of work. It provide the student with

his rights, duties and responsibilities in relation to employment as an emergency medical services employ.

Course N -- Clinical Medicine

Course Number AMS 214
Course Title Clinical Medicine
Semester/Year 1/2
Credits 3
Contact Hours 45
Category Core Course
Required Yes

Course Description This course introduce the diseases affecting the human body in relation to etiology, pathological changes in structure and function symptoms and signs, pertinent diagnostic procedures, complications, preferred treatment, outcome, and preventive measures special emphasis is placed on medical terminology.

Course O -- Pharmacology 1

Course Number AMS 217
Course Title Pharmacology 1
Semester/Year 1/2
Credits 3
Contact Hours 45
Category Core Course
Required Yes

Course P -- Major Incident and Crises Management

Course Number AMS 221
Course Title Major Incident and Crises Management
Semester/Year 2/2
Credits 3
Contact Hours 75
Category Core Course
Required Yes

Course Description Understanding the knowledge and skills to integrate principles and procedures of major incident and disaster medical response, to be able to implement a major incident response plan for a multi-victims situation. Major incident prevention, preparedness, response and recovery are the main course principles and techniques that the student will be learning. Field exercises will be taken a place through out the course, to provide the student with the appropriate experience of major incidents medical response.

Course Q -- Ambulance Driving

Course Number AMS 223
Course Title Ambulance Driving
Semester/Year 2/2
Credits 3
Contact Hours 90
Category Core Course

Required Yes
Course Description The Driving course focuses on the 'left-hand seat' position with greater emphasis placed on the candidate's skills and theoretical knowledge

Course R -- Hospital Internship (Rotation)

Course Number AMS 222
Course Title Hospital Internship (Rotation) need description
Semester/Year 2/2
Credits 5
Contact Hours 150
Category Core Course
Required Yes
Course Description In this course students will be able to learn basic anatomy, physiology, pharmacology history taking, techniques of physical examination, patient assessment, path physiology and management of cardiac respiratory arrest, including intubation's and defibrillation, unconscious state, safe lifting and transportation, including air lifting of the patient. Candidates will be able to assess and manage bleeding, shock, soft tissue injuries, burns and fractures in a pre-hospital environment. The course offers knowledge and practical experience in multi-victim situations, major incident and management, ambulance driving, emergency ethics and law.

Course S – Psychology for EMT

Course Number AMS 226
Course Title Psychology for EMT
Semester/Year 2/2
Credits 3
Contact Hours 60
Category Core Course
Required Yes

Course T -- Summer Internship in EMS

Course Number AMS 233
Course Title Summer Internship in EMS
Semester/Year 3/2
Credits 4
Contact Hours 280
Category Core Course
Required Yes

