Riverland COMMUNITY COLLEGE
A Technical & Community College

MASTER COURSE OUTLINE

A. EMER 1200 Emergency Medical Technician

B. COURSE DESCRIPTION:

The primary focus of the Emergency Medical Technician (EMT) is to provide basic emergency medical care and transportation for critical and emergent patients who access the emergency medical system (EMS). EMTs perform interventions with the basic equipment typically found on an ambulance. This course will provide the basic knowledge and skills necessary to provide patient care and transportation. Upon successful completion, participants are eligible for the National Registry of Emergency Medical Technician's exam.
(7 Cr – 3 lect, 4 lab)

C. **Core theme: Critical Thinking

D. MAJOR CONTENT AREAS:

- EMT Foundations
- Airway Management, Respiration, and Artificial Ventilation
- Patient Assessment
- Medical Emergencies
- Trauma Emergencies
- Special Populations
- Operations
- National Incident Management System (NIMS)

E. GOAL TYPES, OBJECTIVES, AND OUTCOMES:

GOAL	**OBJECTIVES** **Students will be able to**	**OUTCOMES** **The student will successfully**
**Critical Thinking	gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.	1. perform accurate documentation prior to, after, and during the assessment of an individual who is in need of emergency medical care.
CS	understand the origins and present-day structure of emergency medical care delivery systems, the importance of meeting their own emotional needs, assisting patients and families with the emotional aspect of injuries, illness, and/or death and the scope of practice for EMT personnel, ethical responsibilities, and medicolegal	1. assess areas of personal attitude and conduct of the EMT and characterize the various methods used to access the emergency medical service (EMS) system. This understanding may also be gauged through the use of

	directives and guidelines pertinent to the EMT.	group discussion.
CS	understand the basic components of human body systems, processes of obtaining baseline vital signs, and the mechanics of patient movement, types of patient packaging and moving devices.	1. describe, identify, and locate anatomical features using directional terms and planes of the body. 2. assess and record vital signs, obtain a sample history, and assess levels of consciousness using alert, verbal, painful, unresponsive (AVPU). 3. move patients as a team and protect themselves from injury when moving patients.
CS	understand the need for proper airway management including recognizing adequate and inadequate breathing.	1. maintain an open airway and provide artificial ventilation.
CS	understand scope and sequence of patient assessment for medical and trauma patients and all components of patient assessment, communications systems and equipment; regulations and protocols governing radio communications; methods and procedures for effective communication.	1. perform rapid, focused, and detailed physical exams. This understanding also may be gauged through the use of group discussion or testing.
CS	understand the significance and characteristics of general pharmacology, respiratory emergencies and characteristics of cardiovascular emergencies, the pathophysiology, signs and symptoms of the most common cardiac conditions, contraindications, and use of automated external defibrillators and general care of a patient experiencing a cardiac emergency and the concept of "acute abdomen" and the potential causes of abdominal pain and referred pain.	1. perform a rapid, gentle assessment of the abdomen. This understanding also may be gauged through the use of group discussion or testing. 2. describe types of medications used by EMTs, routes of administration, side effects, interactions, dose, and any special administration considerations. 3. applies fundamental knowledge of the pathophysiology of respiration and perfusion to patient assessment and management.
CS	understand the significance and characteristics of the pathophysiology of diabetes, the two types of diabetic emergencies, patient assessment, and emergency treatment and the mechanisms of injury and treatment for allergic reactions and anaphylaxis.	1. demonstrate the steps in the emergency medical care for the patient taking diabetic medicine with an altered mental status and a history of diabetes. 2. demonstrate the steps in the administration of oral glucose. 3. assess and document patient response to oral glucose. 4. complete a pre-hospital care report for patients with diabetic emergencies. 5. assess and initiate effective treatment for allergic reactions and anaphylaxis.
CS	understand the classes of compounds	1. demonstrate the steps in the

	involved in substance abuse and poisonings, the routes by which poisons enter the body, and the signs, symptoms, assessment, and treatment for various poisoning emergencies.	emergency medical care for the patient with possible overdose and suspected poisoning. 2. perform the necessary steps required to provide a patient with activated charcoal. 3. assess and document patient response and proper disposal of the equipment for the administration of activated charcoal. 4. complete a pre-hospital care report for patients with a poisoning/overdose emergency.
CS	understand the significance and characteristics of environmental and behavioral issues.	1. demonstrate the assessment and emergency medical care of a patient with exposure to cold, heat, or near-drowning patient. 2. complete a pre-hospital care report for patients with environmental and behavioral emergencies. 3. demonstrate various techniques to safely restrain a patient with a behavioral problem.
CS	understand the significance and characteristics of normal childbirth, predelivery emergencies, complicated childbirth, neonatal evaluation, and gynecological emergencies.	1. demonstrate the steps to assist in the normal cephalic delivery, necessary care procedures of the fetus as the head appears, infant neonatal procedures, post delivery care of infant, how and when to cut the umbilical cord, and attend to the steps in the delivery of the placenta. 2. demonstrate the post delivery care of the mother and the procedures for the following abnormal deliveries. 3. demonstrate the steps in the emergency medical care of the mother with excessive bleeding and completing a pre-hospital care report for patients with obstetrical/gynecological emergencies.
CS	understand the basic concepts of energy and its effect on the human body, the general injury patterns associated with different types of impacts, bleeding, shock, soft-tissue injuries, eye injuries, chest injuries, abdomen and genitalia injuries along with musculoskeletal care and head and spine injuries.	1. identify various high-energy injuries and potential damage to the patient. 2. demonstrate methods of emergency medical care of internal and external bleeding. 3. demonstrate the care of the patient exhibiting signs and symptoms of shock. 4. demonstrate the steps in the emergency medical care of

		closed soft tissue injuries, eye injuries, abdomen and genitalia injuries along with musculoskeletal care and care for spine injuries including completing a pre-hospital care report.
CS	understand the types of injuries affecting children of all ages, injury patterns based on patient size, special types of body system injuries, and the appropriate assessment and emergency care for suspected victims of child abuse.	1. demonstrate the techniques necessary in neonatal resuscitation through the use of group discussion or testing.
CS	understand the patient assessment procedures unique to geriatric patients and the physiologic changes and common acute illnesses.	1. identify the following basics of patient assessment for the geriatric patient through group discussion or testing: • Scene size-up • Initial assessment • Focused history and physical exam • Detailed physical exam • Ongoing assessment
CS	understand basic ambulance design and equipment, phases of an ambulance call, and air ambulance operations.	1. explain the rationale for appropriate reporting of patient information and the rational for having the unit prepared to respond.
CS	understand the concepts and general approach to gaining access to a patient trapped in a motor vehicle and concepts and application of incident command systems, the process of triage at mass-casualty incidents, and the general approach to hazardous materials incidents.	1. demonstrate extricating a patient from a vehicle in different situations using specific tools and performing triage in a mass-casualty incident scenario.
CS	manage the initial response to a terrorist event, provide care to victims, and protect themselves in events involving weapons of mass destruction.	1. demonstrate the patient assessment skills to assist the victim of a nuclear, chemical, biological, explosive agent. 2. establish scene safety and begin patient management given a scenario of a terrorist event.
CS	understand the key concepts and principles underlying the National Incident Management System (NIMS).	1. Describe the purpose of the NIMS Components including: Preparedness, Communications and Information Management, Resource Management, and Command and Management.

F. SPECIAL INFORMATION:

- The course fulfills the minimum hourly requirements for certification with the Minnesota Emergency Medical Services Regulatory Board.

- Students are required to have proof of Hepatitis B immunization and up-to-date immunization records.
- Prior to clinical practice, students will have to successfully complete a background check.
- This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact the instructor or the Student Success Center at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request.

G. COURSE CODING INFORMATION: Course Code X/Class Maximum 20; Letter Grade

Revision date: 03/02/13
AASC Approval date: 04/02/13

***Riverland Community College Disciplines**	**MnTC Goal Number**
Communication (CM)	**1**
Natural Sciences (NS)	**3**
Mathematics/Logical Reasoning (MA)	**4**
History and the Social & Behavioral Sciences (SS)	**5**
Humanities and Fine Arts (HU)	**6**

****Riverland Community College Core Themes**	**MnTC Goal Number**
Critical Thinking (CT)	**2**
Human Diversity (HD)	**7**
Global Perspective (GP)	**8**
Ethical and Civic Responsibility (EC)	**9**
People and the Environment (PE)	**10**

*These five MnTC Goals have been identified as Riverland Community College Disciplines.
** These five MnTC Goals have been identified as Riverland Community College Core Themes.
NOTE: The Minnesota Transfer Curriculum "10 Goal Areas of Emphasis" are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.