COURSE OUTLINE
Emergency Medical Technician (EMT)

Course Description
FS 212. Emergency Medical Technician (EMT). 12 hours credit. Prerequisite: Current immunizations, pass a criminal background check, a score at a predetermined level in reading and writing on a placement exam. This course will enable the student to provide assessment and pre-hospital emergency care to patients experiencing trauma or medical emergencies by utilizing the National Standard Guidelines Scope of Practice (NSGSP) and the Kansas Authorized Activities for the EMT. The student will practice and be evaluated on the skills required for the assessment and management of traumatic and medical emergencies. The student will be evaluated in the classroom, field, and clinical setting. The student must be at least 17 years of age in order to be eligible to take the Kansas State Practical and National Registry EMT exams.

Required Materials
For complete material(s) information, refer to https://bookstore.butlercc.edu

Butler Assessed Outcomes
The intention is for the student to be able to
1. Demonstrate a knowledge base of human anatomy, physiology, and medical terminology.
2. Apply legal and ethical principles pertaining to emergency medical technology, ambulance operations, and basic triage in a variety of settings.
3. Provide basic life support for sick or injured patients.
4. Verbalize the appropriate scene size-up.
5. Demonstrate a proper primary assessment and verbalize an appropriate priority and transport decision.
6. Perform the appropriate patient assessment, then verbalize and perform the appropriate treatment.
7. Demonstrate proper use of techniques used in the EMT level management of a sick or injured patient.
8. Verbalize the appropriate indications, contraindications, administration techniques, documentation, and reassessment of EMT level medications.

Learning PACT Skills that will be developed and documented in this course
Through involvement in this course, the student will develop ability in the following PACT skill area(s):

Analytical Thinking Skills
- Critical thinking - By performing a scene size-up following appropriate steps and applying legal and ethical principles in emergency medical practice, the student will develop critical thinking skills.
• Problem solving - By performing a proper patient assessment with appropriate steps and applying legal and ethical principles in emergency medical practice, the student will develop problem solving skills.

**Technology Skills**
- Discipline-specific technology – By using specific medical equipment and practical medical skills according to the NSGSP and the regulations set forth by the State of Kansas, the student will develop discipline-specific technology skills.

**Major Summative Assessment Task(s)**
These Butler-assessed Outcome(s) and Learning PACT skill(s) will be demonstrated by
1. Completing a series of skills and competency-based assessments to prepare for the Kansas State and national exams.
2. Performing a scene size-up, primary assessment, focused history, secondary physical exam, and ongoing assessment as needed in an emergency response setting.

**Skills or Competencies**
These actions that are essential to achieve the course outcomes:
1. Participate in a variety of medical and trauma situations.
2. Demonstrate patient assessment, including assessment of vital signs.
3. Demonstrate the proper use of airway adjuncts, oxygen therapy, and ventilation devices.
4. Apply splints and perform wound care appropriately.
5. Demonstrate Cardiopulmonary Resuscitation (CPR), use of an Automated External Defibrillator (AED), and administration of medications.
6. Demonstrate component skills.
7. Assess and manage patient scenarios.
8. Use field technologies.

**Learning Units**
I. Introduction
   A. Emergency medical care
   B. Well-being of the EMT
   C. Medical, legal, and ethical issues
   D. The human body
   E. Baseline vital signs sample history
   F. Documentation and communication
   G. Medical terminology
   H. Pathophysiology
   I. Lifting and moving patients

II. Pharmacology
   A. Medications
   B. Pathophysiology
   C. Indications and contraindications

III. Airway
A. Manual methods of opening the airway
B. Maintaining an airway
C. Ventilation devices and techniques
D. Kansas Enrichment advanced airway techniques and equipment

IV. Patient assessment
A. Scene size-up
B. Primary assessment
C. History taking
D. Secondary assessment
E. Reassessment
F. Communications
G. Documentation

V. Medicine
A. Neurology
B. Abdominal and gastrointestinal disorders
C. Infectious disease
D. Endocrine disorders
E. Psychiatric emergencies
F. Respiratory emergencies
G. Cardiovascular emergencies
H. Toxicology
I. Genitourinary/Renal
J. Gynecology

VI. Trauma
A. Shock and resuscitation
B. Bleeding
C. Chest trauma
D. Abdominal and genitourinary trauma
E. Orthopedic trauma
F. Soft tissue trauma
G. Multi-systems trauma
H. Environmental emergencies

VII. EMS operations
A. Ground ambulance
B. Incident management
C. Mass Casualty Incident (MCI)
D. Air medical
E. Vehicle extrication
F. Hazardous materials
G. MCI due to terrorism and disaster

VIII. Kansas Enrichments
A. Airway enrichment module
B. Epi-Pen
C. Blood glucose monitoring
D. Pulse oximetry
E. Portable ventilators
F. Nebulized breathing treatments
G. IV monitoring
H. Electrocardiogram (ECG) application
I. Aspirin
J. Nitroglycerin
K. Glucagon pen

**Learning Activities**
Learning activities will be assigned to assist the student to achieve the intended learning outcomes through lecture, instructor-led class discussion, independent and collaborative group activities, case studies, computer assisted programs, laboratory, simulation and clinical experiences, and other activities at the discretion of the instructor. These activities may be delivered either face-to-face or online.

**Grade Determination**
The student will be graded on learning activities and assessment tasks. Grade determinants may include the following: daily work, quizzes, unit tests, class participation, and other methods of evaluation at the discretion of the instructor. A 90% attendance is also required by Kansas State Law for successful course completion. Students must maintain a C or better to be eligible to take the Kansas State Practical and National Registry EMT exams