JEFFERSON COLLEGE

COURSE SYLLABUS

EMT 235
EMT Paramedic I
20 credit hours

Prepared by:
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Course Number and Title

I. Catalogue Description

The paramedic will be prepared to effectively handle all types of medical and traumatic emergencies. These courses consist of 40 weeks of instruction, class meets Monday and Wednesday from 9:00 am to 4:00 pm, plus arranged clinical and internship experiences. Successful completion of these courses will enable the student to take the practical and written examinations with the NREMT for certification as an Emergency Medical Technician-Paramedic. This certification will then be recognized by the Missouri Department of Health–Bureau of Emergency Medical Services for licensure as a Paramedic.

A. Prerequisites:
   EMT 111 Basic Emergency Medical Technician
   ENG 101 English Comp I
   COMPASS pre-algebra score of at least 33, or ACT math score of 16 or higher
   BIO 116 Anatomy & Physiology for Healthcare Providers OR BIO 212
   EMT 206 Pre Paramedic Training or proof of 1 year of fulltime patient care experience
   Immunizations: MMR, PPD, DPT, and Hepatitis B series. Criminal background check, applicant acceptance into the program and formal interview.

B. EMT 235-1 Paramedic I 20 credit hours

C. EMT 235-1 Paramedic I offered each Fall semester

II. Expected Learning Outcomes of the course are in compliance with the learning outcomes outlined in the National Standards

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<tr>
<th>Expected Learning Outcomes</th>
<th>Assessment Measures</th>
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<td>The student will identify the medicolegal system unique to each situation encountered.</td>
<td>Written exams, verbal/workbook reviews, and practical labs</td>
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<td>Given various patients with medical concerns, the student will administer proper medications identifying proper medication, routes of administration, and correct dosages for the patient</td>
<td>Written exams, quizzes, class discussions, practical applications through labs and clinical rotations</td>
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<td>Given a patient with inadequate breathing the student will consider various advanced airway treatments and apply proper techniques</td>
<td>Written exams, quizzes, workbooks, class discussions, practical labs, and clinical rotations</td>
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The student will properly document all patient finding (e.g. vital signs, history, allergies, signs and symptoms, etc.)

Written exams, quizzes, workbooks, class discussions, practical labs, and clinical rotations

Given a patient with injuries to the head, neck, face and throat the student will administer proper treatment for these patients

Written exams, quizzes, workbooks, class discussions, practical labs, and clinical rotations

See www.ems.gov National EMS Education Standards for the complete and concise breakdown of all didactic objectives needed to successfully complete the Paramedic I and Paramedic II.

See www.ems.gov National EMS Education Standards Paramedic for the complete and concise outline of all didactic objectives needed to successfully complete the Paramedic I and Paramedic II.

The website www.nremt.org provides standardized skills performance sheets that are utilized to prove competency on individual required skills. These are on the website under Coordinator Documents, and are subdivided into Basic Skills and Advanced Skills.

III. Course Outline with Unit Objectives (denote optional content parenthetically)

Module I: Preparatory

- Roles and Responsibilities above all else.
- EMS Systems
- Medicolegal Considerations/Ethics
- Wellbeing of the Paramedic/Illness and Injury Prevention
- Ethics

Module II: Pharmacology

- Pharmacology is a division of preparatory, but due to the vast knowledge base and clinical significance, the study of pharmacodynamic and pharmacokinetics will be discussed and practiced as its own module.

Module III: Airway Management & Ventilation

- The maintenance of a patent airway is the top priority in emergency airway management. All other considerations are secondary. Lack of adequate airway and ventilatory support is the major cause of non-survival and/or neurological, cardiac and pulmonary complications of medical and trauma patients in the prehospital arena.
Module IV: Patient Assessment

- Patient Assessment
- History Taking
- EMS Communications
- Documentation

Module V: Medical Emergencies

- Head, Eyes, Ears, Nose and Throat Disorders:
- Pulmonology
- Cardiovascular
- Endocrine
- Nervous System
- Toxicology
- Infectious Disease
- Hematology/Immune System Disorders
- Abdominal and Genitourinary
- Musculoskeletal Disorders
- Cutaneous Disorders
- Psychiatric
- Crisis Intervention

Module VI: Shock

- Profound shock is an extreme emergency, one that paramedics must recognize and treat early. An understanding of cellular metabolism, acid base balance, and fluid and electrolytes is crucial to understanding shock. The student will be able to diagram the important components of the shock pathophysiology and the methodical management of all types of shock.

IV. Method(s) of Instruction

Lecture
Psychomotor Practice & Simulations
Affective Clinical Rotations

Lecture: 400 clock hours of Lecture. Traditional lecture with the use of Powerpoint lecture format, digital AV, and case base studies are presented over the course of two semesters.

Psychomotor Practice: 200 hours of simulation, experiential learning through scenario based training, as well as simulations with Sim Man, Mega Code Kelly humanoid simulators, Virtual IV simulation, and ACLS simulation.

Affective Clinical Rotations: 264 hours of clinical rotations through various departments
of the hospital and 375 hours of field internship on an ALS ambulance. Affective domain is measured by predetermined preceptors and direct supervision of the student’s skills; utilizing the 11 points of professionalism recognized by the EMS profession.

V. Required Textbook(s) (with publication information; denote if different text is used for online sections):

Platinum Testing-EMS Testing access code

VI. Required Materials (student)

- Uniform; Black EMS polo with EMS logo embroidered, black or dark navy EMS pants, dark socks, black shoes, belt and name ID badge.
- Stethoscope
- FISDAP online tracking of clinical skills, and national standards test review.
- Computer for extracurricular homework.

VII. Supplemental References

None

VIII. Method of Evaluation (basis for determining course grade)

- Didactic
  - Quizzes  Scheduled and unscheduled quizzes serve as a formative assessment tool of the currently covered objectives from didactic material.
    - Quizzes: 10% of the overall grade
  - Exams  Scheduled module exams are a summative assessment to verify that the goals of each module have been met.
    - 35% of the overall grade
  - Project  Various projects are assigned to promote teamwork and diplomacy. Although done as a group, points for following direction and completion of the assigned work are awarded individually.
    - 10% of the overall grade
  - Final Exam  The final exam is given at the end of the semester as a Summative exam for all modules.
    - 35% of the overall grade
• Psychomotor
  o NREMT skills sheets  Scheduled practice labs are utilized throughout the semester to help students master competency upon summative examination at the end of each module. All skills are graded with a cut score, and that grade is merely a reflection of Pass/Fail for skills. The grade given for skills is not part of the didactic grade, but students must prove 75% or higher in skills competency. A student with average to above average didactic skills is not allowed to progress through the program if they are unable to maintain 75% or higher on skills.
  o Computer Virtual Reality  Students work at their own pace to complete the skills and certification of both Advanced Cardiac Life Support as well as Intravenous Placement. These are completed upon our virtual reality computer based simulators. These skills must be completed before clinical rotations may be started. No grades are issued.
  o Final Practical Examination  Each semester is concluded with the passing of practical skills learned in each semester. The skills are assessed using NREMT skills sheet. Paramedic II final exit examination is a randomized skills review (Oral Examination) used to assess the affective treatment of either a trauma patient or a medical patient. Remediation is done the same day. The parameters of this examination are very similar to those seen at their State practical examinations.
  o Professionalism  Affective domain is assessed during a student’s clinical rotation. Each student schedules clinical at various pre approved clinical sites and is under the direct supervision of a licensed medical professional. The objective is to assess a student’s psychomotor performance in a real clinical setting. Adjustments to style and professionalism are addressed on a continual basis. The student is subjected to nationally accepted hours as well as exposures to specific pathophysiology, age-based complaints and skills.
  o Proficiency in skills
    ▪ 10% of overall grade

IX. ADA Statement
Any student requiring special accommodations should inform the instructor and the Coordinator of Disability Support Services (Library; phone 636-797-3000, ext. 169).

X. Academic Honesty Statement
All students are responsible for complying with campus policies as stated in the Student Handbook.