

**JEFFERSON COLLEGE**

**COURSE SYLLABUS**

**EMT 235**  
**EMT Paramedic I**  
20 credit hours

Prepared by:  
Earl Neal  
EMS Program Director

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Dean Dena McCaffrey  
Earl H. Neal, EMS Program Director

## 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

Expected Learning Outcomes	Assessment Measures
The student will identify the medicolegal system unique to each situation encountered.	Written exams, verbal/workbook reviews, and practical labs
Given various patients with medical concerns, the student will administer proper medications identifying proper medication, routes of administration, and correct dosages for the patient	Written exams, quizzes, class discussions, practical applications through labs and clinical rotations
Given a patient with inadequate breathing the student will consider various advanced airway treatments and apply proper techniques	Written exams, quizzes, workbooks, class discussions, practical labs, and clinical rotations

The student will properly document all patient finding (e.i. 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](http://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.

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The website [www.nremt.org](http://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):**

Bryon E. Bledsoe. Essentials of Paramedic Care 2nd ed., Pearson. ISBN 978-0-13-215689-9

Bryon E. Bledsoe. Prehospital Emergency Pharmacology 7th ed. Pearson ISBN 978-0-13-513822-9

Gail Wlaraven. Basic Arrhythmias 7th ed. Brady. ISBN 978-0-13-04378-6

Bruce Wingerd. Medical Terminology Complete 1st ed. Pearson. ISBN 978-0-13-513395-8

Bryon E. Bledsoe: **Essentials of Paramedic Care Update -- Access Card Package and Resource Central EMS Student Access Code Card Package, 2/E** ISBN-13: 9780132766265

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
- FISSAP 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
  - 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.
  - 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.
  - 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.
  - 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.
  - 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.*