

**JEFFERSON COLLEGE**

**COURSE SYLLABUS**

**PAR230 Paramedic Trauma Emergencies**

3 credit hours

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## PAR230 Paramedic Trauma Emergencies

### I. CATALOGUE DESCRIPTION

#### A. Prerequisites

1. PAR200 Paramedic Advanced Care and Terminology
2. PAR205 Paramedic Pharmacology
3. PAR215 Paramedic Advanced Cardiology
4. PAR210 Paramedic Medical Emergencies
5. PAR220 Paramedic Clinical Practicum I
6. PAR225 Paramedic Internship I
7. Reading proficiency
8. Current American Heart Association Healthcare Provider CPR certification
9. Current Missouri EMT license
10. Criminal background check
11. Current immunizations required: MMR, PPD, Flu, Hepatitis B series, Tdap, and Varicella series

#### Co-requisite

1. PAR235 Paramedic Special Considerations
2. PAR240 Paramedic Ambulance Operations
3. PAR245 Paramedic Clinical Practicum II
4. PAR250 Paramedic Internship II

#### B. 3 credit hours

- C. Paramedic Trauma Emergencies prepares the student to identify shock and hypoxia in traumatic patients. The student will learn to identify life threatening and non-life threatening traumatic emergencies by assessment and evaluation, as well as the proper treatment and transport. (S)

### II. EXPECTED LEARNING OUTCOMES/CORRESPONDING ASSESSMENT MEASURES

Learning Outcome	Assessment Measures
Identify the initial life threats and develop a patient care plan	Written exams, quizzes, class discussions, practical applications
Describe trauma triage criteria and apply them to narrative descriptions of trauma patients	Written exams, quizzes, class discussions, practical applications

Compare and contrast the types of vehicle impacts and related/expected injuries	Written exams, quizzes, class discussions, practical applications
Describe the elements of the ballistic injury process including direct injury, cavitation, temporary cavity, permanent cavity, and the zone of injury	Written exams, quizzes, class discussions, practical applications
Discuss the various types and degrees of shock and hemorrhage	Written exams, quizzes, class discussions, practical applications
Describe the specific epidemiologies, mechanisms of injury, pathophysiology, and severity assessments of inhalation, chemical and electrical burn injuries	Written exams, quizzes, class discussions, practical applications
List the primary signs and symptoms of extremity trauma	Written exams, quizzes, class discussions, practical applications

### III. OUTLINE OF TOPICS

- A. Trauma and trauma systems
  - 1. Trauma center designation
  - 2. Mechanism of injury
  - 3. Injury prevention
  
- B. Blunt trauma
  - 1. Kinetics of blunt trauma
  - 2. Automobile and motorcycle trauma
  - 3. Blast injuries
  
- C. Penetrating trauma
  - 1. Ballistics
  - 2. Low velocity wounds
  - 3. Penetrating wound assessment
  - 4. Penetrating wound care
  
- D. Hemorrhage and shock
  - 1. Clotting
  - 2. Hemorrhage control
  - 3. Body's response to blood loss
  - 4. Stages of shock
  
- E. Soft-tissue trauma

1. Closed and open wounds
  2. Types of dressings
  3. Primary and secondary assessment
  4. Care of specific wounds
- F. Burns
1. Types of burns
  2. Depth of burns
  3. Electrical burns
  4. Chemical burns
  5. Radiation burns
- G. Musculoskeletal trauma
1. Muscular injuries
  2. Joint injuries
  3. Sports injury considerations
  4. Splinting devices
  5. Transport decisions
- H. Head, facial, and neck trauma
1. Mechanism of injury
  2. Head injury
  3. Spinal immobilization
  4. Hypoxia
- I. Spinal Trauma
1. Results of trauma to the spinal cord
  2. Manual stabilization of cervical spine
  3. Standing take down
  4. Medications
- J. Thoracic trauma
1. Chest wall injuries
  2. Cardiovascular injuries
  3. Pulmonary injuries
  4. Pericardial tamponade
  5. Tension and open pneumothorax
  6. Flail chest
- K. Abdominal trauma
1. Injury to solid organs
  2. Injuries to hollow organs
  3. Management of pregnant patients

#### IV. METHOD(S) OF INSTRUCTION

- A. Lecture
- B. Psychomotor Practice and Simulation
- C. Classroom Discussions
- D. Student Participation
- E. Homework
- F. Quizzes

V. REQUIRED TEXTBOOK(S)

Bledsoe, B., Porter, R., & Cherry, R., *Essentials of Paramedic Care Update*. Upper Saddle River, NJ: Prentice Hall, Current ed

VI. REQUIRED MATERIALS

- A. Uniform for lecture/lab
  1. Navy blue color polo with EMS logo embroidered
  2. Dark blue or black EMS pants
  3. Dark socks
  4. Black shoes
  5. Black belt
  6. Jefferson College Student ID badge
- B. Stethoscope
- C. Wristwatch with second hand capabilities
- D. Computer with internet access (available through Jefferson College Labs)

VII. SUPPLEMENTAL REFERENCES

- A. Library Resources: IPAD
- B. Miller, C.D., *Paramedic National Standards Self Test*. Upper Saddle River, NJ: Prentice Hall, Current ed

VIII. METHOD(S) OF EVALUATION

- A. Didactic
  - 1. Quizzes
  - 2. Homework
  - 3. Module exams
  - 4. Classroom participation
  - 5. Class project (Drug Cards)
- B. Psychomotor
  - 1. Student portfolio
  - 2. Practical evaluations
  - 3. Independent labs
  - 4. Professionalism
- C. Assignment of Final Letter Grades
  - A = 92 - 100
  - B = 85 – 91.9
  - C = 80 – 84.5
  - D = 75 – 79.9
  - F = Below 75

#### IX. ADA AA STATEMENT

Any student requiring special accommodations should inform the instructor and the Coordinator of Disability Support Services (Library; phone 636-481-3169).

#### X. ACADEMIC HONESTY STATEMENT

All students are responsible for complying with campus policies as stated in the Student Handbook (see College website, <http://www.jeffco.edu>).

#### XI. ATTENDANCE STATEMENT

Regular and punctual attendance is expected of all students. Any one of these four options may result in the student being removed from the class and an administrative withdrawal being processed: (1) Student fails to begin class; (2) Student ceases participation for at least two consecutive weeks; (3) Student misses 15 percent or more of the coursework; and/or (4) Student misses 15 percent or more of the course as defined by the instructor. Students earn their financial aid by regularly attending and actively participating in their coursework. If a student does not actively participate, he/she may have to return financial aid funds. Consult the College Catalog or a Student Financial Services representative for more details.

## XII. OUTSIDE OF CLASS ACADEMICALLY RELATED ACTIVITIES

The U.S. Department of Education mandates that students be made aware of expectations regarding coursework to be completed outside the classroom. Students are expected to spend substantial time outside of class meetings engaging in academically related activities such as reading, studying, and completing assignments. Specifically, time spent on academically related activities outside of class combined with time spent in class meetings is expected to be a minimum of 37.5 hours over the duration of the term for each credit hour.