



**Course Prefix/Number/Title:** EMS 216 – Trauma Management

**Number of Credits:** 2 credits

**Course Description:** This course prepares the student to identify, assess, manage, and treat various types of trauma emergencies. Topics include trauma systems, mechanism of injury, soft-tissue trauma, burns, head and face trauma, spinal trauma, thoracic trauma, abdominal trauma, and musculoskeletal trauma. Skills include, but are not limited to, assessment, splinting, bandaging, spinal immobilization, IV therapy, chest decompression, and associated pharmacological interventions.

Teaching-learning methods in this course may include, but are not limited to, assigned readings, independent studies, presentations, discussion, critical thinking exercises, labs and class activities.

**Pre-/Co-requisites:** EMS 214

**Course Objectives:** To describe epidemiology of trauma in general and the role of a paramedic caring for a patient with non-life-threatening injuries to caring for a patient with life-threatening injuries. To understand kinetics and mechanisms of injury and associate these findings to the patients' potential for blunt, soft-tissue, orthopedic and penetrating injuries. To understand the pathophysiology of hemorrhage and shock and their management. To integrate knowledge to assess and provide management of patients with burns, thoracic, abdominal, head, face neck and spinal trauma.

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**Office Hours:** By appointment.

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**Lecture/Lab Schedule:** Monday and Thursday for 6:15-10:15 pm. See class schedule.

**Textbook(s):** Bledsoe, B., Porter, R., Cherry, R. (2017). Paramedic Care Principles and Practice Volumes 1-5, 5th Edition. Hoboken, NJ: Brady Books.

**Course Requirements:** Students will be required to attend class and complete assignments in MyBradyLab and exams in EMStesting on time. Final exams will be worth 40%, additional tests 20%, quizzes 20%, homework 10% and affective behavior 10%. All final course grades will be calculated on a weighted grading system. Assignments, quizzes and other tests will be graded based on the scale below:

A	90- 100
B	80- 89
C	70- 79
D	60- 69
F	< 59

Students will also be required to pass skill sheets and scenario skills sessions per portfolio requirements (where applicable). Please see DCB Paramedic Handbook for full grading and course requirements.

**Tentative Course Outline:** Paramedic Care Principles and Practice, 5th Edition. Vol. 4, Chs. 1-11.

<b>TOPIC – CLASSROOM</b>	<b>READING</b>
Trauma and Trauma Systems	Ch. 1
Mechanism of Injury	Ch. 2
Hemorrhage and Shock	Ch. 3
Soft-Tissue Trauma	Ch. 4
Burns	Ch. 5
Head, Neck and Spinal Trauma	Ch. 6
Chest Trauma	Ch. 7
Abdominal and Pelvic Trauma	Ch. 8
Orthopedic Trauma	Ch. 9
Environmental Trauma	Ch. 10
Special Considerations in Trauma	Ch. 11

<b>TOPIC-LAB</b>
Skills Lab: Trauma Adult Physical Assessment – Skill Lab Trauma Endotracheal Intubation Adult – Skill Lab

Course objectives details to be covered according to the EMS National Standards instructional guidelines.

**General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s):** Students will apply knowledge gained in the didactic component of the program to achieve a minimum of 70% proficiency in all of the following curricular levels of EMS Testing exams: 1) airway management, 2) medicine, 3) EMS operations, 4) assessment, 5) preparatory, 6) special patient populations and 7) shock/resuscitation/trauma.

**Relationship to Campus Theme:** The goal of the Paramedic Program is to prepare professionals to work in the emergency medical services industry. The Paramedic Program is committed to a hands-on learning environment and uses field experiences and emerging technologies in emergency medical services as common instructional techniques.

**Classroom Policies:** Dakota College at Bottineau Paramedic Program guides.

**Student Email Policy:** Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

**Academic Integrity:** According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

**Disabilities or Special Needs:** Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services within the first two weeks of the semester to line up accommodations.

**Title IX:** Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX Webpage.