



**Course Prefix/Number/Title:** EMS 222 - Medical Emergencies

**Number of Credits:** 3 credits

**Course Description:** This course prepares the Paramedic student to identify, assess, manage, and treat various emergencies. Topics include neurology, endocrinology, allergies and anaphylaxis, respiratory, gastroenterology, urology, toxicology, environmental conditions, infectious and communicable diseases, behavioral and psychiatric disorders, gynecological and obstetrical emergencies, and associated pharmacological intervention.

This course introduces the paramedic student to specific medications used in the pre-hospital setting that are focused on medical emergencies, mechanism of action, indications, contraindications, dosing and correct administration are discussed in this class.

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:** Integrate patient assessment findings, history and knowledge of anatomy, physiology, pathophysiology and basic and advanced life support interventions to recognize and manage patients with various medical conditions.

To integrate complex knowledge of medications associated with medical emergencies. To understand indications, contraindications, side effects, and dosage of emergency medications for patients of all ages.

**Instructor:** Wayne Fahy and Mary Jund

**Office:** 1900 8th Ave SE Minot ND

**Office Hours:** By appointment.

**Phone:** 701-852-

**Email:** Wayne Fahy: [wayne.fahy@dakotacollege.edu](mailto:wayne.fahy@dakotacollege.edu)  
Mary Jund: [mary.jund@dakotacollege.edu](mailto:mary.jund@dakotacollege.edu)

**Lecture/Lab Schedule:** Monday and Thursday for 6:15-10:15 pm & Friday 9:00 AM – 4:00 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. Pharmacology for Paramedic Students – an open resource publication. Other materials provided by instructors.

**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. 3, Ch. 3-13.  
Pharmacology for Paramedic Students – open resource, Ch 8.

### **TOPIC – CLASSROOM**

---

Neurology	Ch. 3
Endocrinology	Ch. 4
Immunology	Ch. 5
Gastroenterology	Ch. 6
Urology and Nephrology	Ch. 7
Toxicology and Substance Abuse	Ch. 8
Hematology	Ch. 9
Infectious Diseases and Sepsis	Ch. 10
Psychiatric and Behavioral Disorders	Ch. 11
Diseases of the Eyes, Ears, Nose and Throat	Ch. 12
Non-traumatic Musculoskeletal Disorders	Ch. 13

Medications used for Endocrine, Gastro-intestinal, Toxicological, OB/GYN and Neurological Emergencies Ch, 8

Medications Used in the Treatment of Metabolic-Endocrine Emergencies  
Medications Used in the Treatment of Neurological Emergencies  
Medications Used in the Treatment of Obstetrical/Gynecological Emergencies  
Medications Used in Toxicological Emergencies  
Medications Used in the Treatment of Behavioral Emergencies  
Medications Used in the Treatment of Gastrointestinal Emergencies  
Sedation and Pain Management  
Weapons of Mass Destruction

### **TOPIC – LAB**

---

Medical Physical Assessment – Skill Lab  
Medical Neurologic Pathologies or Complaints – Geriatric Stroke – SIM

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.