

**Common Course Outline**  
**EMST 222**  
**Paramedic Pharmacology**  
**2 Credits**

**The Community College of Baltimore County**

**Description**

**Paramedic Pharmacology**

Provides in-depth understanding for the safe, effective, and rational use of therapeutic agents by the Paramedic in prehospital emergency care; discusses commonly abused drugs and poisons.

Prerequisites: EMST 105, EMST 110, EMST 210, EMST 211, EMST 212, EMST 213, EMST 214, EMST 220, EMST 221

**Overall Course Objectives**

Upon completion of this course the student will be able to:

1. Explain what a drug is.
2. Identify the four types of drug names.
3. Outline drug standards and legislation and the enforcement agencies pertinent to the paramedic profession.
4. Describe the paramedic's responsibilities in drug administration.
5. Distinguish among drug forms.
6. Differentiate among the four different types of allergic reactions to drugs.
7. Outline autonomic nervous system functions that may be changed with drug therapy.
8. Discuss factors that influence drug absorption, distribution, and elimination.
9. Describe how drugs react with receptors to produce their desired effects.
10. List variables that can influence drug interactions.
11. Identify special considerations for administering pharmacological agents to pregnant patients, pediatric patients, and older patients.

12. Outline drug actions and care considerations for a patient who is given drugs that affect the nervous, cardiovascular, respiratory, endocrine, and gastrointestinal systems.
13. Explain the meaning of drug terms that are necessary to safely interpret information in drug references.

### **Major Topics**

Drug Sources  
Drug Names  
Drug Laws  
Drug Actions  
Drug Indications and Contraindications  
Drug Dosage and Solution  
Drug Administration  
Common Emergency Drugs  
Common Drugs of Abuse

### **Course Requirements**

Students registered for EMST 222 must maintain advanced life support affiliation with a Maryland volunteer, career, or commercial ambulance company at all times while enrolled in the CCBC Essex EMT Program.

Mastery level for all written examinations is 75%.

### **Other Course Information**

This course is offered during the Fall only.

Successful completion of this course, in combination with EMST 220, 221, 223, and 224 is required for the student to be eligible to sit for the National Registry of EMT's Paramedic examinations.

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