

# Common Course Outline

## ANET 201

### Anesthesia Pharmacology

3 Credits

## Community College of Baltimore County

### Description

**ANET 201 – Anesthesia Pharmacology** introduces the theory and principles for proper use, storage and delivery of anesthesia medications.

**3 Credits:** 3 lecture hours

**Prerequisite:** Acceptance into the Anesthesia Technology program.

### Overall Course Objectives

Upon completion of this course students will be able to:

1. identify drug classifications, actions, and side effects of selected medications;
2. describe the physiological effects of medications;
3. state the difference between colloid and crystalloid solutions;
4. describe possible blood transfusion reactions;
5. describe the appropriate storage of medications;
6. describe safe methods to order and categorize medications in the anesthesia environment;
7. describe antibiotic reactions;
8. explain the proper labeling of anesthetic medications;
9. outline the steps in disposing of outdated medications; and
10. identify agencies who establish medication regulations.

### Major Topics

- I. Medication Nomenclature/ Classification
- II. Pharmacodynamics and Pharmacokinetics
  - A. Medication Use and Storage
  - B. Physiological Effects of Medications
  - C. Medication Administration
- III. Types of Medications Used During Operative Procedures.
  - A. Antacids
  - B. Anticholinergics
  - C. Anticholinesterases
  - D. Anticoagulants
  - E. Antiemetic
  - F. Anti-inflammatory Agents
  - G. Anti-hyperglycemic Agents

- H. Antihistamines
- I. Anxiolytics
- J. Barbiturates
- K. Benzodiazepines
- L. Benzodiazepine Antagonist
- M. Bronchodilators
- N. Cardiovascular Drugs (ACLS)/ Vasopressors
- O. H2 Blockers
- P. Inhalational
- Q. Muscle Relaxants
- R. Narcotics
- S. Local Anesthetics
- T. Reversal Agents
- IV. Antibiotics
  - A. Administration
  - B. Allergic Reactions
- V. Parenteral Agent
  - A. IV Fluids
  - B. Crystalloid
  - C. Blood Products
  - D. Delivery Equipment
- VI. Medication Delivery System
  - A. Medication Safety Systems
  - B. Associated Equipment
- VII. Drug Stability/Storage/Labeling
  - A. Medication Order
  - B. Dating
  - C. Temperature
  - D. Syringe labeling
  - E. Pharmacy Oversight
- VIII. Medication Standards and Legislation
  - A. Checking for Outdated Drugs
  - B. Handling of Medications and Narcotics
  - C. Agencies

### **Course Requirements**

An overall grade of C (70%) or higher is required for satisfactory completion of the course.

Grading procedures will be determined by the course faculty members but will include the following:

### **Grading/Exams:**

- A minimum of three theory examinations
- A minimum of four quizzes

Written Assignments: Students are required to utilize appropriate academic resources.

- A minimum of one discussion board chosen by the instructor.
- Citations are based on the American Psychological Association (APA) format.