

**Common Course Outline**  
**ANET 102**  
**Concepts of Anesthesia Technology I**  
**3 Credits**

**Community College of Baltimore County**

**Description**

**ANET 102 – Concepts of Anesthesia Technology I** provides an introduction to functioning within the surgical environment.

**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. explain the significance of using aseptic technique within the environment of care;
2. describe sterile technique;
3. recognize breaks in sterile technique;
4. describe the function of the anesthesia gas machine;
5. compare the types of non-invasive and invasive monitoring modalities used in patient care;
6. identify the methods for the delivery of anesthetic agents;
7. outline the steps in creating the anesthesia schedule;
8. define anesthesia specific terminology;
9. explain the role of the Anesthesia Technologist in assisting in the delivery of regional anesthesia; and
10. summarize the basic anesthesia set-up.

**Major Topics**

- I. Surgical Environment of Care
  - A. Asepsis
  - B. Universal Precautions
  - C. Sterile Technique
  - D. Surgical Environment
  - E. Anesthesia Workroom
- II. Infection Control
  - A. Chain of transmission
  - B. Handwashing
  - C. Universal/ Standard Precautions
- III. Anesthesia Gas Machine
  - A. Introduction

- B. Basic Concepts of Ventilation
- C. Waste Gas Management
- IV. Introduction to Operating Room Schedule
  - A. Anesthesia Specific
  - B. Daily Use
  - C. Individual Assignments
- V. Hemodynamic Monitors
  - A. Non-Invasive
  - B. Invasive
- VI. Medical Terminology
  - A. Anesthesia Specific
  - B. Daily Use and Review
- VII. Delivery of Anesthetic Agents
  - A. Methods
  - B. Types of Agents Used
- VIII. Regional Anesthesia
  - A. Techniques and Procedures
  - B. Role of the Assistant
  - C. Positioning
  - D. Equipment

### **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 individual faculty member but will include the following:

### **Grading/Exams:**

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

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

- Minimum of one writing assignment such as: anesthesia individualized care plan or paper on topic relevant to course.
- Citations are based on the American Psychological Association (APA) format.