

Common Course Outline
ANET 205
Anesthesia Technology Equipment II
4 Credits

Community College of Baltimore County

Description

ANET 205- Anesthesia Technology Equipment II expands on the principles covered in Anesthesia Technology Equipment I. Introduces various equipment such as cell savers, ultrasound devices, rapid infusion pumps and intra-aortic balloon pumps.

4 Credits: 3 lecture hours; 3 laboratory hours

Prerequisite: ANET 202

Overall Course Objectives

Upon completion of this course students will be able to:

1. explain the function and use of anesthesia equipment in relation to concepts from the biological sciences;
2. demonstrate management of the difficult airway;
3. demonstrate the proper preparation of anesthesia equipment;
4. demonstrate problem solving for equipment malfunction;
5. describe the proper use of hemodynamic monitoring equipment;
6. describe regulatory requirements regarding anesthesia equipment;
7. describe the use of advance anesthesia equipment and maintenance;
8. demonstrate the maintenance procedures for emergency equipment;
9. outline the leadership responsibilities of an anesthesia technician; and
10. create a leadership work flow log.

Major Topics

- I. Airway Equipment
 - A. Usage
 - B. Maintenance
 - C. Troubleshooting
 - D. Difficult Airway
- II. Anesthesia Machine
 - A. Mechanical Ventilation
 - B. Scavenging Systems
 - C. Usage
 - D. Maintenance
 - E. Troubleshooting
- III. Hemodynamic Monitoring

- A. Usage
- B. Maintenance
- C. Troubleshooting
- IV. Malignant Hyperthermia Cart
 - A. Usage
 - B. Maintenance
 - C. Troubleshooting
- V. Peripheral Nerve Block Equipment
 - A. Usage
 - B. Maintenance
 - C. Trouble
- VI. Portable Laboratory Equipment
 - A. Usage
 - B. Maintenance
- VII. Emergency Equipment
 - A. Usage
 - B. Maintenance
- VIII. Advanced Anesthesia Equipment
 - A. Cell Saver
 - B. Ultrasound Devices
 - C. Transesophageal echocardiogram
 - D. Peripheral Nerve Block Monitors
 - E. Rapid Infusion Pumps
 - F. Intra-Aortic Balloon Pumps
- IX. Leadership Responsibilities
 - A. Coordination of Ordering of Supplies
 - B. Arrange Routine Maintenance of Equipment
 - C. Ensures Regulatory Compliance
 - D. Interprofessional Collaboration
 - E. Management of Work Assignments

Course Requirements

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

The course will contain a minimum of two simulated laboratory experiences.

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

Grading/Exams:

- A minimum of two theory examinations
- A minimum of two practical examinations
- A minimum of four quizzes

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

- Minimum of one writing assignment: anesthesia individualized care plan.
- Citations are based on the American Psychological Association (APA) format.