HAN 481   INTRODUCTION TO BASIC ANESTHESIA
2 Credits (30 Hours)

0930-1100 Monday/Wednesday - HSC Level 2

Course Directors:
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Linda Cimino, Ed.D., M.S., RN, CPNP, ANP

Course Description: This course provides students with a Bachelor of Science level exposure to the basic principles of anesthesia related to the role of the anesthesia technologist. Part 1 of this course introduces students to the scope and practice of the anesthesia specialty. Students generalize the application of topics such as OR safety, infection control, spinal/epidural techniques, acid-base balance and ventilator compensation for imbalances, preoperative evaluation, hemostasis, fluid and blood therapy. Part 2 of this course prepares students to develop a foundation and working knowledge of the anesthesia machine and gas delivery. The subspecialties within anesthesia practice as well as their respective common surgical procedures and associated patient positioning are also presented in this part of the course. Students develop an appreciation for the nuances associated with such practice areas as cardio-thoracic, neuro-vascular, transplant and pediatric anesthesia as well as pain management.

Goals: To provide students with a strong foundation in basic anesthesia principles. Students will attain a working knowledge of anesthetizing location set-up and assisting the attending anesthesiologist. Students will correlate, integrate, and relate concepts and principles presented in HAN 483-Cardiopulmonary Physiology for Anesthesia Technology and HAN489-Pharmacology for Anesthesia Technology to anesthetic management.

Behavioral Objectives: Upon completion of this course, students will be able to:

1) Define Universal Precautions
2) List at least 3 safety features/practices used in the Operating Room
3) Identify affects of acid-base imbalance on anesthetic management
4) Summarize the components of preoperative evaluation
5) Differentiate between spinal and epidural anesthesia
6) Evaluate the relationship of fluid and blood on hemodynamic stability
7) Diagram gas delivery through the anesthesia machine
8) Explain the significance of proper anesthesia set-up – general and subspecialty
9) Differentiate between pediatric and adult anatomy and physiology
10)Categorize different types of pain assessments and management techniques

Teaching Strategies: Lectures* (Interactive)
Case Scenarios
**Evaluation:**

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* A different faculty member presents each topic

**Americans with Disabilities Act:**

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building Room 128, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

**Academic Integrity:**

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person’s work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (Schools of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at: [http://www.stonybrook.edu/uaa/academicjudiciary/](http://www.stonybrook.edu/uaa/academicjudiciary/)

**Critical Incident Management:**

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students’ ability to learn. Faculty in the HSC Schools and School of Medicine are required to follow their school-specific procedures.