

ANESTHESIA TECHNOLOGY

REV. 2015

IS ANESTHESIA TECHNOLOGY THE RIGHT CHOICE FOR YOU?

What is the study of anesthesiology?

Anesthesia is a drug administered for medical or surgical purposes that induces partial or total loss of sensation and may be topical, local, regional, or general, depending on the method of administration and area of the body affected.

Anesthesiology is the medical specialty concerned with the pharmacological, physiological, and clinical basis of anesthesia and the related fields of resuscitation, intensive care, and acute and chronic pain management.

Anesthesiologists are medical doctors (MDs) with training in anesthesiology. They are assisted by a team of health care professionals who are specially trained in the methods and equipment used for monitoring anesthetized patients. These professionals may include resident physicians,

nurse anesthetists, and anesthesiology technologists.

What is the role of the anesthesia technologist?

Anesthesia technologists are integral members of the operating room team and work under the direction of an anesthesiologist.

Their technical expertise is an asset in preparing and monitoring anesthesia delivery systems before and during administration of anesthesia to patients. Some of their job responsibilities include cleaning, sterilizing, disinfecting, maintaining and stocking anesthesia equipment as well as assisting with patient positioning, application of external patient monitoring devices and assisting the anesthesiologist with insertion of invasive patient monitoring devices.

What is the salary range for anesthesia technologists?

In New York State, entry level salaries for bachelor's-prepared anesthesia technologists starts around \$42,000.

What else should I know?

Entry level positions as anesthesia technologists are available for recent graduates who are not certified. Employers favor those who have certification as a Cer.AT (certified anesthesia technician) or as a Cer.ATT (certified anesthesia technologist).

Completion of this concentration provides a strong academic base for those wishing to pursue further education in medical professions such as RN to CRNA or NP, perfusionist, or other graduate education.



“Anesthesia care personally performed or medically directed by an anesthesiologist, a physician who has successfully completed a training program in anesthesiology, constitutes the practice of medicine. Certain aspects of anesthesia care may be delegated to other properly trained and credentialed professionals. These professionals, medically directed by the anesthesiologist, comprise the Anesthesia Care Team.”

- American Society of Anesthesia Technologists and Technicians

What is the admission policy for the Anesthesia Technologist concentration?

Preference will be given to students who can document an overall natural science G.P.A. of 2.5 in college level course work and a strong background in the recommended coursework (minimum “C” grade in each course and an overall G.P.A. of 2.5). Recommended coursework includes biology, psychology, human anatomy, physiology, and medical terminology. Preference is given to students who document health care experience (paid or volunteer) and/or community service. All offers of admissions into the Anesthesia Technology non-credit program are conditional. Requirements for admission into the non-credit program are as follows: one semester of Chemistry; maintain an overall senior year G.P.A. of 2.5; successfully complete all fall semester coursework and successfully complete each of the following courses with a minimum grade of C and an overall spring semester G.P.A. of 2.5 (HAN 434 Corporate Compliance and Regulation; HAN 481 Introduction to Anesthesia; HAN 483 Cardiopulmonary Physiology for Anesthesia Technology; HAN 485 Clinical Monitoring; HAN 489 Pharmacology Anesthesia). **What are the requirements of the Anesthesia Technologist concentration?** Health science students must successfully complete the fall semester coursework during their senior year before enrolling for spring courses in the concentration.

If students plan to take the post-baccalaureate year program (qualifying the student to take the certification exam in anesthesia technology) they must apply for acceptance in the program during the fall

semester.

Coursework during the spring semester of the senior year will provide students with the basic foundation for further study in this field.

Successful completion of the major and concentration coursework are required for a student to participate in the post-baccalaureate year of study in the Anesthesia Technology program at University Hospital Medical Center.

Required courses in the concentration include:

- Corporate Compliance and Regulation:** Provides and overview of recently enacted legislation requiring health care institutions' compliance programs. Introduces regulations and compliance including anti-trust, controlled substances, Americans with Disabilities Act, Occupational Safety and Health Act, Joint Commission on Accreditation of Health Care Organizations, Department of Health jurisdiction over hospitals and licensure requirements. Restricted to students approved for appropriate senior year track in the Health Science major.
- Introduction to Anesthesia:** Introduces the basics of the anesthesia specialty. Defines the role of the anesthesia specialist as an integral part of the patient care team. Through the use of lecture, video, tour, and hand-on demonstration, students will gain a working knowledge of how to assist anesthesiologists and anesthetists in the acquisition, preparation and application of equipment and supplies required for the administration of anesthesia. Restricted to students approved for appropriate senior year track in the Health Science major.
- Cardiopulmonary Physiology for Anesthesia Technology:** Familiarizes students with the anatomical structures and physiological mechanisms and functions of the cardiopulmonary system. Reviews mathematical formulas and calculations used in clinical applications of physiologic concepts. Restricted to students approved for appropriate senior year track in the Health Science major.
- Clinical Monitoring:** Provides students with a working knowledge of clinical monitoring devices and their application to clinical settings. Covers duties of anesthesia technologist including the provision of technical support to professional staff in order to facilitate anesthesia departmental function. Student develops skills to maintain and organize the anesthesia environment, equipment and supplies. Restricted to students approved for appropriate senior year track in the Health Science major.
- Pharmacology for Anesthesia Technology:** Presents basic principles of pharmacologic properties and clinical applications. Through the use of lectures and scenarios, provides working knowledge base of drug classifications and their modes of action to produce therapeutic effects on target sites. Restricted to students approved for appropriate senior year track in the Health Science major.

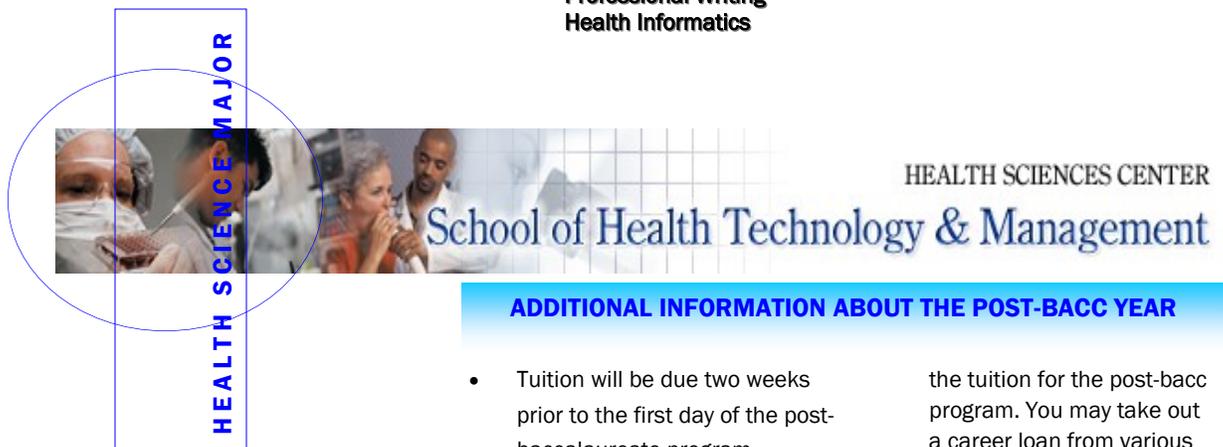
ANESTHESIA TECHNOLOGY

To declare Health Science as your major, you are required to attend an Advising Workshop. To schedule an appointment, please email Jennifer Jimenez at jennifer.jimenez.1@stonybrook.edu.

Traci Thompson—Advising
HSC, Level 2, Room 453
Phone: 631.444.2407
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traci.thompson@stonybrook.edu

Jennifer Jimenez—Advising
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OR VISIT OUR WEBSITE AT:
<http://healthtechnology.stonybrookmedicine.edu/programs/hs>



FOR ADDITIONAL INFORMATION, PLEASE VISIT THE FOLLOWING WEBSITES

Professional Organizations:

- American Society of Anesthesia Technologists and Technicians
www.asatt.org
- Anesthesia Society of Anesthesiologists
www.asahq.org

Job Information:

www.asatt.org
www.salaries.com
www.bls.gov

HOW TO BECOME A HEALTH SCIENCE STUDENT

Students can declare the Health Science major at any time during their academic career. All major courses are taken during the senior year.

In order to begin your senior year courses in the major, you must have:

- a G.P.A. of at least 2.0 and have successfully completed 91 credits and have met all D.E.C/S.B.C requirements
 - * except TECH SBC requirement which will be satisfied during the senior year
 - * at least 16 credits in sciences, which must include HAN 200 and HAN 202 sequence, or equivalent sequence (ask advisor for information)
 - * 21 credits of related electives, which must include HAN 251 and HAN 312
 - * 10 upper division credits.

Successful completion of the following courses during the fall semester of your senior year is required:

- Health Care Issues**
- Professional Ethics**
- Communication Skills**
- Professional Writing**
- Health Informatics**

ADDITIONAL INFORMATION ABOUT THE POST-BACC YEAR

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| <ul style="list-style-type: none"> • Tuition will be due two weeks prior to the first day of the post-baccalaureate program. | <ul style="list-style-type: none"> • the tuition for the post-bacc program. You may take out a career loan from various financial institutions. |
| <ul style="list-style-type: none"> • Health Assessment Forms must be submitted one month prior to the start of the program. | <ul style="list-style-type: none"> • Students may incur additional costs (materials, books, drug tests, background checks, etc.) during the post-baccalaureate program. |
| <ul style="list-style-type: none"> • Student are responsible for transportation during the post-baccalaureate year. | <ul style="list-style-type: none"> • Campus housing may not be available. |
| <ul style="list-style-type: none"> • Clinical sites are located at Stony Brook University Hospital. | <ul style="list-style-type: none"> • \$50 application fee |
| <ul style="list-style-type: none"> • Financial Aid does not cover the tuition for the post-bacc program. You may take out Financial Aid does not cover | <p>Tuition Costs—
\$5,000.00</p> <p>Number of Seats—
10</p> |