

RADIOLOGIC TECHNOLOGY

FALL 2006

IS RADIOLOGIC TECHNOLOGY THE RIGHT CHOICE FOR YOU?

What is radiologic technology?

Radiologic technology involves using medical radiation equipment to create images of bones, organs, and blood vessels as prescribed by physicians to assist in the diagnosis of diseases or injuries.

What is the role of the radiologic technologist?

Working as members of radiology teams, radiologic technologists explain procedures to patients, position them appropriately for x-rays, and produce x-ray images while limiting patient and personal exposure to radiation. They use their knowledge of anatomy and physiology to obtain necessary imaging results.

Where do radiologic technologists work?

While most work in hospitals, there are opportunities for radiologic tech-

nologists to work in physicians' offices, urgent care clinics, diagnostic laboratories, and industry.

Is there a demand for radiologic technologists?

According to the U.S. Department of Labor, there will be steady growth in the field over the next decade as the population ages.

What is the salary range for radiologic technologists?

According to the Health Professions Career and Education Directory, radiographers' salaries and benefits are competitive with other health professionals and vary according to experience and employment location.

As of 2003, thirty-five states require licensure as a condition of practice. Locally, the median annual earnings for radiologic technologists is \$52,000 with an expected income of

approximately \$65,000 with 10 years of experience. According to ASRT Wage and Salary Survey of 2004 the national median salary is \$58,065. The New York State median salary is \$60,945.

What else should I know?

After completing Stony Brook's post-baccalaureate year Radiologic Technology program, students are eligible for the National Registry Examination and prepared for entry-level positions in radiologic technology.

Additional training may lead to qualification for specialized areas such as CT scanning, angiography, and magnetic resonance imaging. Career paths include positions as supervisors, chief radiologic technologists, and directors of radiologic technology.



"Modern imaging technologies in the hands of competent professionals have the capacity to improve health outcomes for patients with many types of illnesses and injuries. Earlier diagnosis of disease, ongoing monitoring of treatment protocols, and therapeutic applications in imaging have improved the prognosis for patients in many medical disciplines. The important contributions of imaging to quality health care are increasingly apparent and its place in the health care landscape seems secure."

- Center for Health Workforce Studies, University at Albany

RADIOLOGIC TECHNOLOGY

What are the requirements for acceptance to the post-baccalaureate year Radiologic Technology program?

Health Science students apply to the post-baccalaureate year Radiologic Technology program during the fall semester of the senior year. In order to enter the concentration during the spring, a student must have been granted a seat in the post-baccalaureate year program.

Preference is given to students who have strong math and science skills and a G.P.A. of 2.5 or better.

In preparation for the post-baccalaureate year, seniors in the major must successfully complete HAN 395 Radiation Physics in Medicine during the fall semester and the following courses during the spring semester:

- **Radiographic Anatomy and Pathology:** provides basic radiographic anatomy from projection and cross sectional views. Introduces basic disease processes including the nature and causes of disease and injury. Examines these processes on medical images acquired through radiography, computed tomography, an-

giography, magnetic resonance, scintigraphy, emission computed tomography, ultrasonography.

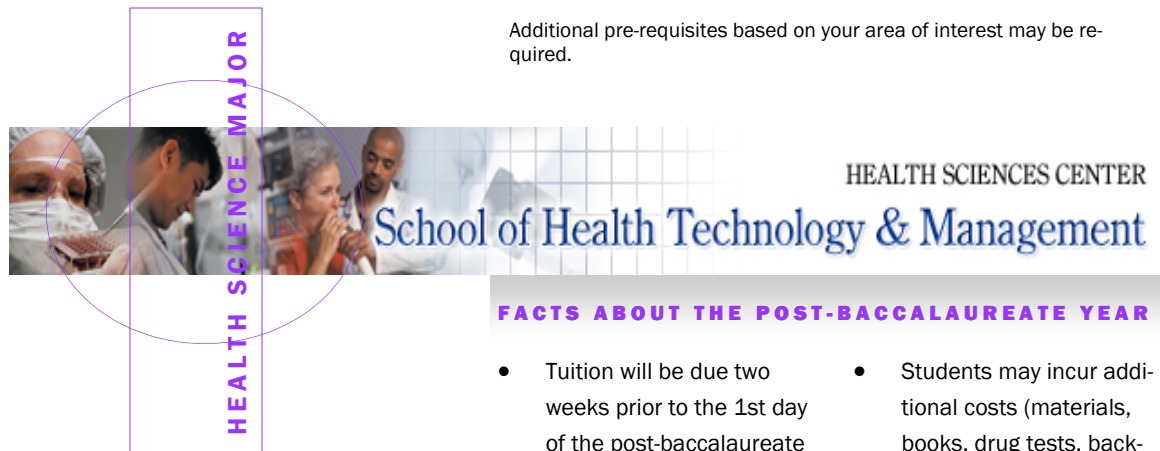
- **Radiology Instrumentation:** expands imaging physics into the area of radiologic technology. Studies the physical basis, construction, operation, and quality control of radiographic, fluoroscopic, computed radiographic, direct radiographic, digital subtraction, and computed tomography systems.
- **Radiobiology and Health Physics:** presents an overview of the biological effects of radiation by examining the interaction of radiation with matter, macromolecules, cells, tissue, and the whole body. Studies the clinical impact of responses to radiation. Introduces students to radiation safety through topics such as methods for exposure minimization and radiation monitoring.
- **Radiologic Procedures & Positioning I:** examines routine clinical radiographic positioning of the upper and lower extremities, shoulder, spine, chest, pelvis, skull, abdomen, and digestive and urinary systems. Includes portable studies, operating room applications, angiography, and advanced imaging techniques.
- **Radiologic Technique:** focuses on production of radiographic images. Includes rationale for selection of technical factors; issues of image resolution and contrast, image receptor technology, film sensitometry, image intensification, film processing, grids, automatic exposure control; portable/surgical procedures; basic contrast agent pharmacology; and administration directly related to the production of radiographic images. Presents an overview of the special modalities of computed radiography (CR), direct radiography (DR), fluoroscopy, digital fluoroscopy, digital subtraction angiography (DSA), computed tomography (CT), and picture archive communication systems (PACS). Special emphasis on reducing patient exposure to radiation.

Advising sessions are conducted on both campuses, as early as possible, to assess student interest and provide information on prerequisites. For additional information about the major please contact:

Traci Thompson—Advising	Régine Verrier—Advising
HSC, Level 2, Room 453	• Mon/Fri, HSC, L2, Rm 453
Phone: 631.444.2407	Phone: 631.444.6858
Fax: 631.444.1515	• Tu/Wed/Thur
	Academic Advising Office
	Melville Library

OR VISIT OUR WEBSITE AT:

www.uhmc.sunysb.edu/shtm



FOR ADDITIONAL INFORMATION VISIT THE FOLLOWING WEBSITES

Professional Organizations:

- American Society of Radiologic Technologists
www.asrt.org
- Joint Review Committee on Education in Radiologic Technology
www.jrcert.org
- The American Registry of Radiologic Technologists
www.arrt.org

Occupational and Employment Information:

- www.bls.gov
- www.rjobs.com
- www.comphealth.com
- www.salary.com
- www.labor.ny.state.ny.us

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.
- You must also have met all D.E.C. requirements, including at least 16 credits in natural sciences (D.E.C. E), 21 credits of related electives, and 10 upper division credits.
- Successful completion of the following courses during the fall semester of your senior year is required:

Health Care Issues

Medical Ethics

Communications

Professional Writing

Health Informatics

Radiation Physics in Medicine—(4 credits) is required for students interested in the Radiologic Technology concentration.

Additional pre-requisites based on your area of interest may be required.

FACTS ABOUT THE POST-BACCALAUREATE YEAR

- Tuition will be due two weeks prior to the 1st day of the post-baccalaureate program.
 - Health Assessment Forms must be submitted one month prior to the start of your program.
 - The student is responsible for transportation during the post-baccalaureate year.
 - Clinical sites are located anywhere from Manhattan to eastern Long Island.
 - Financial Aid does not cover tuition for the post-baccalaureate program. You may take out a career loan from various financial institutions.
 - Students may incur additional costs (materials, books, drug tests, background checks, etc.) during the post-baccalaureate program.
 - Campus housing may not be available.
 - \$40 application fee
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| Tuition Costs— |
| \$5,000.00 |
| Number of Seats— |
| 20 |