



Computed Tomography Imaging Continuing Professional Education Program

**Offered by
The School of Health Technology
and Management
Stony Brook University**



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action educator and employer.

This publication can be made available in an
alternative format upon request.

Stony Brook University
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Program Dates

January 30, 2010 — May 15, 2009

Program Overview

The School of Health Technology and Management, in collaboration with Stony Brook University Medical Center's Department of Radiology, is offering combined didactic/clinical continuing professional education [CPE] program in computed tomography [CT] imaging.

The goal of this CPE program is to prepare participants for the American Registry of Radiological Technologists' (ARRT) certification examination in CT. Didactic classes are designed to provide a strong educational foundation in multiple CT technology topic areas, while the clinical component provides the participant with the CT procedural experience required for CT examination eligibility.

The didactic component runs from January 30, 2010 to May 15, 2010. Classes are held from 9:00 a.m. -1:00 p.m. on Saturday in the Harold Atkin's Learning Center on Level 4 of the Health Sciences Center. The clinical component is conducted following successful completion of the didactic course at either Stony Brook University Medical Center or one of its program affiliates. Students who would like to have their facility added to the list of clinical affiliates are strongly encouraged to contact the program administrator at 631-638-0003.

CT students must be ARRT or NMTCB certified and registered in good standing and possess a NYSDOH license in radiography or nuclear medicine technology. Exceptions may be granted to a select few Stony Brook radiography/nuclear medicine clinical students based on the program director's discretion. Registered radiologic technologists currently working in CT will need to complete only the didactic portion of the program if they can document the completion of the required procedures specified by the ARRT in an off-site facility. Nuclear medicine technologists must complete both the clinical and didactic portions of the program in compliance with New York State licensure requirements.

Enrollment

Tuition is \$3000. Space is limited and enrollment is on a first-come, first-served basis. CT technologists employed at Stony Brook University Medical Center are eligible for discounted tuition.

If you have any questions please contact William Stanley at 631.638.0003 or at william.stanley@stonybrook.edu

To register for this program please complete the back page of this announcement and enclose a \$200 deposit. Make checks payable to SUNY Stony Brook. Mail the check along with the last page of this brochure to the following address:

CT CPE Certificate Program
William Stanley, Program Director
Nuclear Medicine Technology Program
School of Health Technology and Mgmt.
Health Sciences Center, L2, Room 455
Stony Brook, NY 11794-8200

The remainder of tuition is due [in full] on or before the first day of the program. The deposit will be refunded only to students who do not receive a seat in the program.



Required Topic Areas

Physics of Computed Tomography

Coursework begins with a study of the basic physical principles of computed tomography. This is followed by presentation of strategies for CT image formation and includes image contrast manipulation.

Computed Tomography Instrumentation

Coursework introduces students to computed tomography principles, operation and components. Students study x-ray production concepts including kVp and mA determination, generators and transformers, detector configuration, Data Acquisition Systems, collimation, computer and array processors and equipment maintenance. Quality control evaluations are presented.

Cross Sectional Anatomy

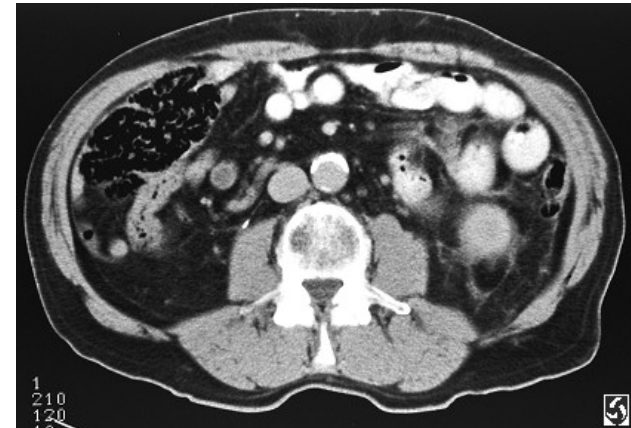
Human anatomy is studied in multi-dimensional axial, sagittal and coronal planes. Anatomy discussed includes the head, neck, chest, abdomen, pelvis and musculoskeletal procedures.

Computed Tomography Procedures

Procedures are presented for the use of computed tomography in medical diagnosis. Procedures studied include computed tomography of the head, spine, chest, abdomen, pelvis, musculoskeletal system, and special procedures, including the use of contrast agents.

Advanced computed tomography imaging methods are studied, including computed tomography angiography (CTA). Image display and post-processing including ROI measurement, multiplanar reconstruction, 3-D rendering techniques (MIP, SSD, VR)

Those students participating in the clinical CT component will be required to complete the combined didactic/clinical CPE training. While in the clinical rotation, students will learn to produce high-quality CT studies, practice CT safely, interact with patients in a professional manner, and conduct quality control procedures. Facilities at the hospital include 6 multi-slice CT scanners.



Participants must maintain a 75% average in each didactic area to receive a certificate of completion for the CPE program. A student must satisfactorily complete the didactic portion of the program to be eligible to participate in the clinical component.

