



Program of Study: Certificate of Completion in Computed Tomography

Program Description

The certificate of completion in Computed Tomography is designed to provide licensed radiologic technologists, nuclear medicine technologists, and licensed radiation therapists with a cognitive base of entry-level education in the practice of computed tomography (CT). The professional practice of computed tomography requires specific knowledge and skills generally not obtained in basic educational programs in radiography. This core curriculum presents elements that are considered essential in educating technologists in the postprimary practice of computed tomography and aid in meeting the eligibility requirements for a postprimary certification examination in computed tomography.

Admission Requirements:

The student must be registered in Radiography or Radiation Therapy by the American Registry of Radiologic Technologists (ARRT), or Nuclear Medicine Technology by ARRT or the Nuclear Medicine Technology Certification Board (NMTCB).

Course Number	Course Title	Course Description	Credits
BIO 311	Sectional Anatomy	Content is designed to provide students with a review of the anatomy of the body systems from the cross sectional perspective via diagrams and radiographic images.	3
MDI 308	Physics and Instrumentation of Computed Tomography	Students will become familiar with the basic concepts of computed tomography physics. Content is designed to impart an understanding of the theories of computed tomography properties, their discovery, and initial applications in the clinical setting.	3
MDI 414	Computed Tomography Procedure Protocols	Content is designed to provide students with an understanding of computed tomography tissue characteristics as they will be used in producing images. Computed tomography protocols will be taught for differentiation of specific structures, patient symptomology and pathology.	3
MDI 420	Pathology in CT/MRI	Content introduces the study of pathology and how this relates to CT and MR imaging. A body system approach is used.	3

Total Certificate of Completion in Computed Tomography Credits: 12