

COMPUTED TOMOGRAPHY

For the Computed Tomography program, please see the Medical Imaging section of the catalog.

CTT 101. Cross-Sectional Anatomy-Abdomen & Pelvis. 1 Credit.

Introduces the normal appearance of anatomical structures in normal planes. Enables student to differentiate between normal anatomical structures and abnormalities. Designed for graduate technologists or senior radiography students. ARRT certification or department permission required.

CTT 102. Cross-Sectional Anatomy- Head & Spine. 1 Credit.

Introduces the normal appearance of anatomical structures in multiple planes. Enables student to differentiate between normal anatomical structures and abnormalities. Designed for graduate technologists or senior radiography students. ARRT certification or department permission required.

CTT 103. Cross-Sectional Anatomy - Neck & Thorax. 1 Credit.

Introduces the normal appearance of anatomical structures in multiple planes. Enables student to differentiate between normal anatomical structures and abnormalities. Designed for graduate technologists or senior radiography students. ARRT certification or department permission required.

CTT 104. Cross Sectional Anatomy Review. 1 Credit.

Provides a comprehensive review of cross sectional anatomy of all body systems, review of anatomical landmarks and an understanding of normal versus abnormal anatomy and is a hybrid course – both classroom and on-line components. May be taken two times for credit. Department permission required. Prerequisites: CTT 103 or equivalent.

CTT 111. CT Physics, Equipment and Instrumentation. 2 Credits.

Introduces Computed Tomography theory and application, patient care, CT safety, imaging procedures, data acquisition and processing and the physical principles of image formation. Prerequisite: Department permission required.

CTT 112. CT Procedures, Protocols and Pathology Correlation. 2 Credits.

Emphasizes CT Protocol development, comparison of CT parameters, parameter tradeoffs, normal vs abnormal anatomy visualization and contrast media utilization. Prerequisite: Department permission required.

CTT 113. CT Registry Review. 1 Credit.

Provides a comprehensive review of patient care, imaging procedures, data acquisition and processing and physical principles of image formation for Computed Tomography. Prerequisites: RAD 254 or CTT 111 AND RAD 255 or CTT 112 or department permission.

CTT 271. CT Clinical Education I. 5 Credits.

Provides clinical education experience in an affiliated hospital or clinical CT department under the direct supervision of a registered technologist and radiologist. Includes the application of equipment use, manipulation and operation, CT imaging procedures, CT radiation safety and patient care. Requires attendance and clinical competencies, objectives, and performance assessments. Teaches skills that are required to function in the clinical area as a CT technologist, with a professional work ethic. May be repeated one time for credit. Prerequisite: CTT 101, CTT 103, CTT 111.

CTT 272. CT Clinical II. 5 Credits.

Provides intermediate and advanced clinical education experience in an affiliated hospital CT imaging department under the supervision of a credentialed CT technologist and radiologist. Includes application of equipment manipulation and operation, CT imaging procedures, radiation safety, medicolegal and ethical protocols, record keeping and patient care. Requires attendance and completion of clinical competencies, objectives, and performance assessments. Teaches the necessary skills that are required to function in the clinical area as a CT technologist, with a professional work ethic. May be repeated one time for credit. Prerequisite: CTT 271 or RAD 270.