

## TECHNICAL COURSE DESCRIPTIONS

RADI 104 Introduction to Radiography 2credits. Introduces radiography with emphasis on the historical perspective, professional requirements, health care environment, cultural diversity and legal and ethical considerations. Incorporates basic tube function and radiation protection. Prerequisite or Corequisite: BIO 139.

RADI 106 Patient Care in Radiography 2 credits, Provides the basic concepts of patient care including considerations for the physical and psychological needs of the patient and the patient's family. Includes communication, safety, and infection control. Prerequisite: or Corequisite: BIO139

RADI 108 Radiographic Procedures I 4 credits, Presents the principles of human anatomy applied to the study of fundamental radiographic procedures (Exposure factors and patient positioning) used for different age groups for upper and lower extremities, bony and visceral thorax, and abdomen. Consideration is given to the evaluation of optimal diagnostic images. Prerequisite or Corequisite: BIO 139

RADI 109 Clinical Practice I, 1 credit, Provides clinical experience through structured sequential competency based clinical assignments of the upper and lower extremities, bony and visceral thorax, and abdomen. Prerequisite or Corequisite: BIO 139.

RADI 114 Image Production and Acquisition 2 credits. Provides a knowledge base of factors related to image production and acquisition. Exposes students to digital imaging systems. Prerequisite: RADI 104, RADI 106, RADI 108 and RADI 109

RADI 116 Advanced Patient Care in Radiography 2credits, Provides the basic concepts of medical emergencies and pharmacology related to radiography. Addresses use of imaging contrast agents, venipuncture, IV therapy, and informed consent in radiology practice. Includes professional practice standards of radiographer. Prerequisite: RADI 104, and (RADI 106 or NAA100) and RADI 108 and RADI 109.

RADI 118 Radiographic Procedures II 4 credits, Continues the acquisition of radiographic procedures with emphasis on the vertebral column, cranium, gastrointestinal, urinary, and special procedures. Consideration is given to the evaluation of optimal diagnostic images. Prerequisites: RADI 104, RADI 106, RADI 108 and RADI 109

RADI 119 Clinical Practice II 3 credits, Provides clinical experience through structured sequential competency based assignments of the upper and lower extremities. Prerequisites: RADI 104, RADI 106, RADI 108 and RADI 109

RADI 209 Clinical Practice III 3 credits, Provides clinical experience through structured sequential competency based assignments of the upper and lower extremities, bony and visceral thorax and abdomen. Prerequisite: RADI 114, RADI 116, RADI 118 and RADI 119.

RADI 214 Imaging Equipment 2 credits. Focuses on the types of imaging equipment used in radiography including x-ray systems, fluoroscopy, tomography, screens, film and automatic processing. Introduces the student to the process of quality management in radiography. Prerequisite: RADI 209

RADI 216 Basic Computed Tomography 2 credits. Provides the basics of computed tomography including image formation, equipment, and terminology. Includes scanning techniques for basic CT procedures of the head, chest and abdomen, and sectional anatomy. Prerequisite: RADI 209

RADI 219 Clinical Practice IV 6 credits. Provides clinical experience through structured sequential competency based clinical assignments to include the upper and lower extremities, bony and visceral thorax, abdomen, vertebral column, cranium, and contrast studies of the digestive, urinary, and central nervous systems, and arthrography. Basic CT scans of the head, chest, abdomen and pelvis will be included. Prerequisite: RADI 209.

RADI 224 Radiation Protection & Biology 2 credits. Provides the information to increase the knowledge of radiation protection, the effects of various radiation levels as well as methods to measure radiation. Introduces the principles of radiation biology. Prerequisite: RADI 214, RADI 216 and RADI 219.

RADI 226 Radiographic Pathology 1 credit. Introduces concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection. Prerequisite: RADI 214, RADI 216, and RADI 219.

RADI 228 Radiography Seminar 1 credit. Introduces the format, rules and regulations regarding certification by the American Registry of Radiologic Technologists (ARRT) and state certification requirements. Prerequisites: RADI 214, RADI 216 and RADI 219

RADI 229 Clinical Practice V 6 credits. Provides clinical experience through structured competency based clinical assignments to include the upper and lower extremities, bony and visceral thorax, abdomen, vertebral column, cranium, and contrast studies of the digestive, urinary, and central nervous systems and arthrography. Includes basic CT scan procedures.