

RADIOGRAPHIC SCIENCE (NURSING AND HEALTH SCIENCES DIVISION)

RS-201 MEDICAL TERMINOLOGY FOR RADIOGRAPHERS (2 cr.) This online course serves as an introduction to Medical Terminology. The emphasis will be on the word-building process, medical abbreviations and symbols, as well as terminology used for specific radiologic procedures and diagnostic reports.

RS-204 INTRODUCTION TO RADIOGRAPHY (1 cr.) This online course serves as an introduction to the profession of radiography careers, professional requirements, advancement opportunities, the history of radiologic health care, the health care team, professional organizations, ethical principles in radiography, and medico legal considerations. Organization of the radiology department, equipment used in ionizing radiation, radiation safety and universal/standard precautions will be examined.

RS-220 PATIENT CARE IN RADIOGRAPHY (2 cr.) A lecture/laboratory course of principles and practices of professional oral and written communication, patient assessment and education in the radiographic setting. Techniques of patient care, medication and contrast media administration, patient preparation and techniques of special procedures, radiography in specialty care areas, and safety issues will be presented. Observation and practice will occur in concurrent course Radiographic Methods I. Co-requisites: RS 205, RS 225, and RS 235.

RS-221 RADIOGRAPHIC METHODS I (3 cr.) Core positioning practices in radiography. Simulated X-ray exams will be performed on upper and lower extremities, chest and abdomen. Phantom anatomical models may be imaged and film critique will be performed on each positioning protocol. There may be a few visits to local clinical sites to aid in understanding equipment descriptions, manipulations of locks and control panels, ext (time permitting).

RS-222 RADIOGRAPHIC METHODS II (3 cr.) This is a lecture/laboratory course of principles and practices of cranial radiography – including skull, facial bones, paranasal sinuses and mandible. Anatomy and positioning of the spinal cord will also be introduced. Techniques of patient care, positioning, technique, film critique, anatomy and pathology will be presented. Observations and practice will occur in the laboratory classroom.

RS-240 QUALITY ASSURANCE AND TECHNICAL IMAGING (3 cr.) A technical overview of radiography to include the x-ray tube, tube rating charts, tube failure, x-ray physics, x-ray production, x-ray machine components, x-ray machine circuits, beam restriction devices, grids, geometric factors, fluoroscopy, x-ray technique, digital/computer imaging, and quality control criteria.

RS-255 RADIOGRAPHIC PATHOLOGY (3 cr.) Basic principles of pathology and radiographic appearance of specific diseases. Selecting proper modalities related to disease processes, technical factors, and determination for retaking radiographs that might be acceptable under different circumstances. Co-requisites: RS 260 and RS 265.

RS-261 APPLIED RADIOGRAPHY I (8 cr.) Core positioning practices in radiography demonstrated in the clinical environment. Student begins to obtain competencies for Chest, Abdomen, Upper extremity and Lower extremity radiographic examinations.

RS-265 SPECIAL PROCEDURES AND IMAGING MODALITIES (3 cr.) This internet-based course focuses on the principles and practices of special procedures and advanced

imaging modalities. Mobile radiography and trauma imaging will be discussed. Special emphasis will be placed on fundamentals of Computed Tomography (fulfilling 2007 updated ASRT Guidelines). Techniques of tomography, myelography, angiography, and interventional radiography will be presented. An introduction to sonography, nuclear medicine, and digital radiography will also be given.

RS-330 RADIOBIOLOGY (3 cr.) Review of cell structure and function, ionizing radiation induced cell damage, history of radiation disease research, and subsequent development of radiation protection guidelines. Co-requisites: RS 332.

RS-355 REGISTRY REVIEW (2 cr.) This course provides an overview of radiographic terminology, anatomy, positioning, ethics, legal principles, technique, physics, radiobiology special procedures, quality assurance, patient care, and professionalism related to the performance of entry-level radiography in preparation for taking the American Registry of Radiologic Technology (ARRT) Radiography (R) exam.

RS-362 APPLIED RADIOGRAPHY II (10 cr.) Core positioning in radiography demonstrated in the clinical environment. Continuation of RS 261 to include all needed competency exams required by ARRT.

RS-363 APPLIED RADIOGRAPHY III (10 cr.) Core positioning practices in radiography demonstrated in the clinical environment. Continuation of 362 to include all needed competency exams by the ARRT.