

Radiography

RADI 101 (5233) Introduction to Radiography, Ethics and Law

Prerequisite: Acceptance into Radiography Program

Credit Hours: 2

Introduction to historical review of health care with emphasis on Radiologic technology. Principles of radiography, radiation protection, ethics, and law will be presented. A two week clinical orientation is also incorporated into this course.

RADI 103 (5234) Radiographic Procedures I

Prerequisite: Acceptance into Radiography Program

Credit Hours: 1

Content is designed to provide the knowledge base necessary to perform standard imaging procedures, including special studies. Consideration is given to the evaluation of optimal diagnostic images. In this course the radiographic positioning and anatomy of the chest and abdomen will be covered.

RADI 104 (5235) Radiographic Procedures II

Prerequisite: RADI 103 Radiographic Procedures I

Credit Hours: 3

Content is designed to provide the knowledge base necessary to perform standard imaging procedures, including special studies. Consideration is given to the evaluation of optimal diagnostic images. In this course the anatomy and positioning of the following body parts will be covered the upper extremity, shoulder girdle, lower extremity, pelvic girdle, bony thorax, and the spine.

RADI 105 (5236) Radiographic Procedures III

Prerequisite: RADI 104 Radiographic Procedures II

Credit Hours: 3

Content is designed to provide the knowledge base necessary to perform standard imaging procedures, including special studies. Consideration is given to the evaluation of optimal diagnostic images. In this course radiographic positioning of the skull and special radiographic procedures will be included. Surgical, Mobile, Trauma, and Pediatric Radiographic techniques will also be covered.

RADI 107 (5237) Radiographic Imaging I

Prerequisite: Acceptance into Radiography Program

Credit Hours: 1

Introduction to clinical radiography including radiographic equipment design and use, radiation protection, image acquisition, and image processing.

RADI 109 (5237) Patient Care in Radiography I

Prerequisite: Acceptance into Radiography Program

Credit Hours: 2

Introduction to the care of patients while in the radiology department. Topics include: Body Mechanics, Patient Transfer, Patient Assessment, and Infection control.

RADI 113 (5240) Simulations in Radiography I

Prerequisite: RADI 103 Radiographic Procedures I

Credit Hours: 1

Laboratory study of the radiographic procedures used to visualize the anatomical structures of upper and lower chest, abdomen, and contrast studies. Laboratory setting once a week.

RADI 115 (5472) Patient Care in Radiography II

Prerequisite: RADI 109 Patient Care in Radiography I

Credit Hours: 3

This course is a continuation of Patient Care with the addition of the basic concepts of pharmacology. Vital signs, medical emergencies, and the administration of contrast media and contrast studies will be covered.

*Refer to the Placement Testing Procedure 3.22, page 25 ** Refer to Course Transfer, page 20

RADI 117 (5239) Radiographic Imaging II

Prerequisite: RADI 107 Radiographic Imaging I

Credit Hours: 3

Content is designed to establish a knowledge base in factors that govern the image production process. Image quality and technical factors will be discussed in detail.

RADI 119 (5286) Clinical Training I

Prerequisite: RADI 103 Radiographic Procedures I

Credit Hours: 3

This portion of clinical training is used to acquaint the learner with the organization and function of health care facilities. In addition, the learner will observe and assist a practicing radiographer to appreciate both the ethical and technical responsibilities associated with radiologic technology. 24 hours a week for 15 weeks.

RADI 120 (5370) Clinical Training II

Prerequisite: RADI 119 Clinical Training I

Credit Hours: 3

This portion of clinical training encompasses major radiographic equipment, room maintenance and preparation, principles of record keeping, proper patient handling. The learner should be making the transition from the passive mode of observation to a more active mode of assisting the radiographer perform examinations of the chest, abdomen, extremities, and contrast studies. 24 hours per week for 15 weeks.

RADI 125 (5103) Principles of Radiation Physics and Equipment Operation

Prerequisite: RADI 117 Radiographic Imaging I

Credit Hours: 3

A basic knowledge of atomic structure and terminology. Also presented are the nature and characteristics of radiation, x-ray production, and the fundamentals of photon interactions with matter.

RADI 127 (5268) Introduction to Computed Tomography & Cross Sectional Anatomy

Prerequisite: RADI 104 Radiographic Procedures II

Credit Hours: 2

This course explores the basic computed tomography concepts for the entry level radiographer.

RADI 201 (5248) Imaging Modalities

Prerequisite: RADI 105 Radiographic Procedures III

Credit Hours: 3

This course encompasses the concepts and applications within advanced modality areas of radiology, including: Magnetic Resonance Imaging, Mammography, Bone Densitometry, Ultrasound, Nuclear Medicine, PET, Radiation Therapy, and Angiography.

RADI 203 (5371) Clinical Training III

Prerequisite: RADI 120 Clinical Training II

Credit Hours: 3

During this portion of clinical training, the learner investigates fluoroscopic equipment and procedural duties. In addition, the learner will be introduced to the responsibilities and principles of scheduling patients for radiographic examinations. The learner should now be assisting with all radiographic examinations, and should be making the transition from a passive mode to a more active mode. Students will change clinical sites in July. 32 hours per week for 8 weeks.

RADI 204 (5372) Clinical Training IV

Prerequisite: RADI 149 Clinical Training III

Credit Hours: 3

Emphasis is placed on skull radiography, trauma radiography, body section, mobile and surgical radiography, pediatric radiography, and computed tomography procedures. Quality Assurance procedures will also be performed. 24 hours per week for 15 weeks.

RADI 205 (5373) Clinical Training V

Prerequisite: RADI 204 Clinical Training IV

Credit Hours: 3

*Refer to the Placement Testing Procedure 3.22, page 25 ** Refer to Course Transfer, page 20

Emphasis is placed on trauma, special procedure radiography, and CT procedures. In addition the learner will be required to successfully complete the remaining category competency evaluations. 24 hours per week for 15 weeks.

RADI 207 (5104) Radiographic Imaging III

Prerequisite: RADI 117 Radiographic Imaging II

Credit Hours: 3

Content is designed to impart an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiography. Factors that impact image acquisition, display, archiving and retrieval are discussed. Guidelines for selecting exposure factors and evaluating images within a digital system assist students to bridge between film-base and digital imaging systems. Principles of digital system quality assurance and maintenance are presented.

RADI 211 (5107) Computed Tomography Procedures

Prerequisite: RADI 127 Introduction to CT and Cross Sectional Anatomy

Credit Hours: 2

Studies the positional and functional relationships of body structures, with an emphasis on their appearances as seen with Computed Tomography (CT) scanning.

RADI 213 (5247) Radiographic Pathophysiology

Prerequisite: Entrance into sophomore year of Radiography Program

Credit Hours: 2

Study of pathologies and their effects on the anatomy, physiology, and radiography of the human body.

RADI 214 (5229) Simulations in Radiography II

Prerequisite: RADI 113 Simulations in Radiology I

Credit Hours: 1

Laboratory study of the radiographic procedures used to visualize the anatomical structures of the scapula, pelvic girdle, bony thorax, spine, and head.

RADI 217 (5241) Radiation Protection I

Prerequisite: RADI 125 Principles of Physics & Equipment Operation

Credit Hours: 2

The study of the biological effects of radiation and patient protection. Also included are radiation monitoring and occupational exposure and protection.

RADI 218 Radiation Protection II

Prerequisite: RADI 217 Radiation Protection I

Credit Hours: 2

The study of the biological effects of radiation and patient protection. Also included are radiation monitoring and occupational exposure and protection.

RADI 219 (5105) Image Analysis

Prerequisite: Entrance into Sophomore year of Radiography Program

Credit Hours: 2

Will provide a basis for analyzing radiographic images. Including the importance of imaging standards, discussion of a problem-solving technique for image evaluation and factors that can affect image quality.

RADI 221 (5266) Radiography Comprehensive Review

Prerequisite: Completion of all Radiography courses to date

Credit Hours: 2

Group discussion on current topics in radiologic technology. Review of the principles of radiography and their application to the ARRT examination. Mock registry exams on the computer.

RADI 223 (5106) Critical Thinking and Analysis in Radiography

Prerequisite: Entrance into sophomore year of Radiography Program

*Refer to the Placement Testing Procedure 3.22, page 25 ** Refer to Course Transfer, page 20

Credit Hours: 3

Comprehensive review course with emphasis on critical thinking, problem analysis, and solution judgment skills. Includes group sessions for scenario development.

Religion

RELI 101 (1510) Comparative World Religions KRSN REL1010**

Prerequisite: None

Credit Hours: 3

This course examines different religions and their history, practices, and beliefs.

RELI 103 (1512) Old Testament Survey (IO)

Prerequisite: None

Credit Hours: 3

A general survey of the people and customs in Old Testament times, places, and periods of history, along with the study of the literary structure of the Old Testament.

RELI 105 (1564) New Testament Survey

Prerequisite: None

Credit Hours: 3

An introduction to the New Testament and other early Christian literature in their historical and cultural context.

Respiratory Therapy

RESP 101 Fundamentals of Respiratory Care I

Prerequisite: Admission into the Respiratory Therapy Program

Credit Hours: 3

This course provides instruction in basic gas physics and basic Respiratory Therapy. Included is a section on microbiology, patient assessment and professionalism.

RESP 102 Fundamentals of Respiratory Care II

Prerequisite: RESP 101 Fundamentals of Respiratory Care I

Credit Hours: 3

This course will continue from FRC I in presenting equipment and therapeutics. A diagnostics component will be added. The student will learn about specialized oxygen devices, arterial blood puncture analysis and interpretation, plus pulmonary function testing. In addition emergency care, artificial airways, and the electrical conduction system of the heart will also be taught. There is a separate laboratory class that will include hands on competencies taught in this course..

RESP 105 Respiratory Care Pharmacology

Prerequisite: Admission into the Respiratory Therapy program

Credit Hours: 3

This course addresses general principles of pharmacology with emphasis on drugs affecting the cardiopulmonary system. An overview of antibiotics, narcotics, and sedatives is presented.

RESP 107 Cardiopulmonary Anatomy and Physiology I

Prerequisite: Admissions into the Respiratory Therapy Program

Credit Hours: 2

An in-depth study of cardiopulmonary anatomy and physiology will be presented. Units on renal physiology and acid-base balance are included.

RESP 109 Clinical Practice I

Prerequisite: Fundamentals of Respiratory Care I, Cardiopulmonary Anatomy and Physiology, and RC Pharmacology

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