

RADIOLOGIC TECHNOLOGY (RADR)

RADR 1213

Principles of Radiographic Imaging I

CRT HRS:2 LEC HRS:1 LAB HRS:4 OTH HRS:0

This course is an introduction to radiographic image qualities and the effects of exposure variables upon those qualities. Photographic versus geometric properties, radiographic film types and development, film construction, section and systems of the processor and quality control are also included.

Prerequisite: Admission to the Radiologic Technology Program and concurrent enrollment in RADR 1311 and RADR 1360.

RADR 1267

Practicum II

CRT HRS:2 LEC HRS:0 LAB HRS:0 OTH HRS:14

This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and the student. The emphasis is to build upon acquired clinical skills and is simultaneously related to theory in the classroom.

Prerequisite: Admission to the Radiologic Technology Program; RADR 2301 and RADR 2205 with a minimum of "C" or better and RADR 1366 with a minimum of "B" or better.

RADR 1309

Introduction to Radiography and Patient Care

CRT HRS:3 LEC HRS:3 LAB HRS:0 OTH HRS:0

This course includes an overview of the historical development of radiography, basic radiation protection, an introduction to medical terminology, ethical and legal issues for health care professionals, and an orientation to the program and to the health care system. Patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology are also included.

Prerequisite: Must be ACT complete; preferred ACT of 19 composite; 16 in all sections and Departmental Approval Required.

RADR 1311

Basic Radiographic Procedures

CRT HRS:3 LEC HRS:2 LAB HRS:3 OTH HRS:0

This course includes an introduction to radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy.

Prerequisite: Admission to the Radiologic Technology Program and concurrent enrollment in RADR 1213 and RADR 1360.

RADR 1360

Clinical

CRT HRS:3 LEC HRS:0 LAB HRS:0 OTH HRS:18

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. This course includes basic fundamental clinical instruction performed in the Diagnostic Radiology Department at the clinical education centers, and is simultaneously related to theory presented in the classroom.

Prerequisite: Admission to the Radiologic Technology Program and concurrent enrollment in RADR 1213 and RADR 1311.

RADR 1366

Practicum I

CRT HRS:3 LEC HRS:0 LAB HRS:0 OTH HRS:21

This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and the student. The emphasis is to build upon acquired clinical skills and is simultaneously related to theory in the classroom.

Prerequisite: Admission to the Radiologic Technology Program; RADR 1213 and RADR 1311 with a minimum of "C" or better, RADR 1360 with a minimum of "B" or better, and concurrent enrollment in RADR 2301 and RADR 2205.

RADR 2117

Radiographic Pathology

CRT HRS:1 LEC HRS:1 LAB HRS:1 OTH HRS:0

This course is a presentation of the disease process and common diseases and their appearance on medical images. Special image procedures and modalities used for diagnosis and treatment are also included.

Prerequisite: RADR 2431 and RADR 2309 with a minimum of "C" or better, RADR 2366 with a minimum of "B" or better, and concurrent enrollment in RADR 2213 and RADR 2367.

RADR 2166

Capstone: Practicum V

CRT HRS:1 LEC HRS:0 LAB HRS:0 OTH HRS:10

This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and the student. The emphasis is to build upon acquired clinical skills and is simultaneously related to theory in the classroom.

Prerequisite: Admission to the Radiologic Technology Program; RADR 2117 and RADR 2213 with a minimum of "C" or better, RADR 2367 with a minimum of "B" or better, and concurrent enrollment in RADR 2235.

RADR 2205

Principles of Radiographic Imaging II

CRT HRS:2 LEC HRS:1 LAB HRS:4 OTH HRS:0

This course covers Radiographic image quality and the effects of exposure variables, and the synthesis of all variables in image production.

Prerequisite: RADR 1311 and RADR 1213 with a minimum of "C" or better, RADR 1360 with a minimum of "B" or better, and concurrent enrollment in RADR 2301 and RADR 1366.

RADR 2213

Radiation Biology and Protection

CRT HRS:2 LEC HRS:2 LAB HRS:1 OTH HRS:0

This course is a study of the effects of radiation exposure on biological systems, typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure.

Prerequisite: RADR 2309 and RADR 2431 with a minimum of "C" or better, RADR 2366 with a "B" or better, and concurrent enrollment in RADR 2117 and RADR 2367.

RADR 2235

CAPSTONE: Radiologic Technology Seminar

CRT HRS:2 LEC HRS:1 LAB HRS:2 OTH HRS:0

This capstone course focuses on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning.

Prerequisite: RADR 2117 and RADR 2213 with a minimum of "C" or better, RADR 2367 with a minimum of "B" or better, and concurrent enrollment in RADR 2166.

RADR 2301**Intermediate Radiographic Procedures**

CRT HRS:3 LEC HRS:2 LAB HRS:3 OTH HRS:0

This is a continuation of the study of the proper manipulation of radiographic equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of anatomy.

Prerequisite: RADR 1213 and RADR 1311 with a minimum of "C" or better; RADR 1360 with a minimum of "B" or better, and concurrent enrollment in RADR 1366 and RADR 2205.

RADR 2309**Radiographic Imaging Equipment**

CRT HRS:3 LEC HRS:2 LAB HRS:3 OTH HRS:0

This course is a study of the equipment and physics of x-ray production, basic x-ray circuits, and the relationship of equipment components to the imaging process.

Prerequisite: RADR 1267 with a minimum of "B" or better, and concurrent enrollment in RADR 2431 and RADR 2366.

RADR 2366**Practicum III**

CRT HRS:3 LEC HRS:0 LAB HRS:0 OTH HRS:21

This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and the student. The emphasis is to build upon acquired clinical skills and is simultaneously related to theory in the classroom.

Prerequisite: Admission to the Radiologic Technology Program; RADR 1267 with a minimum of "B" or better, and concurrent enrollment in RADR 2431 and RADR 2309.

RADR 2367**Practicum IV**

CRT HRS:3 LEC HRS:0 LAB HRS:0 OTH HRS:21

This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and the student. The emphasis is to build upon acquired clinical skills and is simultaneously related to theory in the classroom.

Prerequisite: Admission to the Radiologic Technology Program; RADR 2431 and RADR 2309 with a minimum of "C" or better; RADR 2366 with a minimum of "B" or better, and concurrent enrollment in RADR 2117 and RADR 2213.

RADR 2431**Advanced Radiographic Procedures**

CRT HRS:4 LEC HRS:3 LAB HRS:4 OTH HRS:0

This advanced course is a continuation of positioning; alignment of the anatomical structure and equipment, evaluation of images for proper demonstration of anatomy and related pathology. Non-Routine radiographic positioning, introduction to cross-sectional anatomy and trauma radiography are also included.

Prerequisite: RADR 1267 with a minimum of "B" or better, and concurrent enrollment in RADR 2309 and RADR 2366.