MEDICAL IMAGING (RADR)

RADR 1201 Introduction to Radiography  2 Credits  (2 Lec, 0 Lab)
This course is 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 profession and the health care system.
Prerequisite(s): Reading level 7. Prerequisite or Co-requisite(s): ENGL 1301
Course Type: Technical

RADR 1202 Radiographic Image Evaluation I  2 Credits  (2 Lec, 1 Lab)
This course is the study of the scientific process of radiographic image evaluation.
Prerequisite(s): Completion of all second semester RADR courses; concurrent enrollment in RADR 1313 and RADR 2401
Course Type: Technical

RADR 1203 Patient Care  2 Credits  (2 Lec, 1 Lab)
This course is an introduction in patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology.
Prerequisite(s): Acceptance into the Medical Radiography Program.
Course Type: Technical

RADR 1213 Principles of Radiographic Imaging I  2 Credits  (2 Lec, 1 Lab)
This course is the study of radiographic image quality and the effects of exposure variables.
Prerequisite(s): RADR 2209, 1311, 1202, 1203, 1166
Course Type: Technical

RADR 1250 Radiographic Image Evaluation II  2 Credits  (2 Lec, 1 Lab)
This course is the study of the assessment of radiographic images.
Prerequisite(s): Completion of all second semester RADR courses. Concurrent enrollment in RADR 2401 and RADR 1266.
Course Type: Technical

RADR 1266 Practicum  2 Credits  (0 Lec, 16 Lab)
This course offers practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.
Prerequisite(s): Completion of all first semester RADR courses. Concurrent enrollment in RADR 1203 and RADR 1411.
Course Type: Technical

RADR 1267 Practicum  2 Credits  (0 Lec, 16 Lab)
This course is the study of the practical, general workplace training supported by an individualized learning plan/syllabus developed by the employer, college, and student.
Prerequisite(s): Completion of all second semester RADR courses. Concurrent enrollment in RADR 1266 and RADR 2401.
Course Type: Technical

RADR 1311 Basic Radiographic Procedures  3 Credits  (2 Lec, 3 Lab)
This course is an introduction to radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomic structure and equipment, and evaluation of images for proper demonstration of basic anatomy.
Prerequisite(s): Acceptance into the Medical Radiography Program
Course Type: Technical

RADR 1313 Principles of Radiographic Imaging I  3 Credits  (3 Lec, 1 Lab)
This course is the study of radiographic image quality and the effects of exposure variables.
Prerequisite(s): Completion of all first semester RADR courses; concurrent enrollment in RADR 2209 and 1411
Course Type: Technical

RADR 2209 Radiographic Imaging Equipment  2 Credits  (2 Lec, 1 Lab)
This course is the study of the equipment and physics of x-ray production. Includes basic x-ray circuits. Also examines the relationship of conventional and digital equipment components to the imaging process.
Prerequisite(s): Acceptance into the Medical Radiography Program
Course Type: Technical

RADR 2217 Radiographic Pathology  2 Credits  (2 Lec, 0 Lab)
This course is the study of the disease processes and their appearance on radiographic images.
Prerequisite(s): RADR 2233, 2313, 2266
Course Type: Technical

RADR 2233 Advanced Medical Imaging  2 Credits  (2 Lec, 0 Lab)
This course is an exploration of specialized imaging modalities. Includes concepts and theories of equipment operations and their integration for medical diagnosis.
Prerequisite(s): Completion of all third semester RADR courses. Concurrent enrollment in RADR 1267 and RADR 2305.
Course Type: Technical

RADR 2236 Special Patient Applications  2 Credits  (2 Lec, 1 Lab)
This course is the study of the advanced concepts of pediatrics, geriatrics, trauma, history documentation and electrocardiogram (ECG). Includes phlebotomy, venipuncture and concepts of pharmacology.
Prerequisite(s): Completion of all first semester RADR courses. Concurrent enrollment in RADR 1203 and RADR 1411.
Course Type: Technical
RADR 2266 Practicum 2 Credits (0 Lec, 20 Lab)
This course is the study of the practical, general workplace training supported by an individualized learning plan/syllabus developed by the employer, college, and student.
Prerequisite(s): Completion of all third semester RADR courses. Concurrent enrollment in RADR 1267 and RADR 2331.
Course Type: Technical

RADR 2267 Practicum 2 Credits (0 Lec, 20 Lab)
This course is the study of the practical, general workplace training supported by an individualized learning plan/syllabus developed by the employer, college, and student.
Prerequisite(s): RADR 2266, 2313, 2233
Course Type: Technical

RADR 2301 Intermediate Radiographic Procedures 3 Credits (2 Lec, 3 Lab)
This course is a continuation of the study of the proper manipulation of radiographic equipment, positioning and alignment of the anatomic structure and equipment, and evaluation of images for proper demonstration of anatomy.
Prerequisite(s): RADR 1311, 1166, 1202, 1203, 2209
Course Type: Technical

RADR 2305 Principles of Radiographic Imaging II 3 Credits (3 Lec, 1 Lab)
This is a continuation of Radiographic image quality and the effects of exposure variables, and the synthesis of all variables in image production.
Prerequisite(s): Completion of all second semester RADR courses. Concurrent enrollment in RADR 1313 and RADR 1266.
Course Type: Technical

RADR 2313 Radiation Biology and Protection 3 Credits (3 Lec, 0 Lab)
This course is the study of the effects of radiation exposure on biological systems. Includes typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure.
Prerequisite(s): Completion of all third semester RADR courses. Concurrent enrollment in RADR 1267 and RADR 2331.
Course Type: Technical

RADR 2331 Advanced Radiographic Procedures 3 Credits (2 Lec, 2 Lab)
This course a continuation of positioning and alignment of anatomic structures and equipment, evaluation of images for demonstration of anatomy and related pathology.
Prerequisite(s): Completion of all second semester RADR courses. Concurrent enrollment in RADR 2401 and RADR 1266.
Course Type: Technical

RADR 2333 Advanced Medical Imaging 3 Credits (3 Lec, 0 Lab)
This course covers specialized imaging modalities. Includes concepts and theories of equipment operations and their integration for medical diagnosis.
Prerequisite(s): RADR 2360 and 2309
Course Type: Technical

RADR 2335 Radiologic Technology Seminar 3 Credits (3 Lec, 1 Lab)
This is a capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning.
Prerequisite(s): RADR 2233, 2313, 2266
Course Type: Technical

RADR 2340 Sectional Anatomy for Medical Imaging 3 Credits (3 Lec, 0 Lab)
This course presents an in-depth coverage of anatomic relationships that are present under various sectional orientations.
Prerequisite(s): ARRT registered or acceptance to a Medical Imaging Program or departmental approval.
Course Type: Technical

RADR 2401 Intermediate Radiographic Procedures 4 Credits (3 Lec, 3 Lab)
This course is a continuation of the study of the proper manipulation of radiographic equipment, positioning and alignment of the anatomic structure and equipment, and evaluation of images for proper demonstration of anatomy.
Prerequisite(s): Completion of all first semester RADR course; concurrent enrollment in RADR 1203 and 1411
Course Type: Technical