

RADIOGRAPHY (RAD)

RAD 1001 Introduction to Radiologic Sciences and Patient Care (3 Credits)

This course is an introduction to the hospital environment, developing an understanding of the role of a Radiographer. Students will learn medical terminology to better communicate with other healthcare professionals and their patients. The history of radiography as well as developing technologies will be presented. Introduction to prime factors. Prerequisites: Program Admission
Corequisite: CCC, GWCC, MxCC and NVCC: RAD 1002, RAD 1002L, RAD 1094

RAD 1002 Radiographic Procedures (3 Credits)

This course introduces task objectives and competencies in general radiographic procedures, related anatomy, and image evaluation. Recommended topics include Chest, Abdomen, and appendicular skeleton. Prerequisites: Program Admission
Corequisite: RAD 1002L, RAD 1001, RAD 1094
Previous: Legacy Equivalent(s): RAD* 120

RAD 1002L Radiographic Procedures Lab (1 Credits)

In conjunction with Radiographic Procedures I, students will attend weekly lab instruction to reinforce the content presented in the classroom. Previous: Legacy Equivalent(s): RAD* 120L

RAD 1010 Radiographic Procedures II (3 Credits)

This course is a continuation of Radiographic Procedures I and continues to emphasize task objectives and competencies in general radiographic procedures, related anatomy and image evaluation. Recommended topics include completion of appendicular skeleton, and introduction to axial skeleton imaging. Prerequisites: RAD 1001, RAD 1002, RAD 1002L, RAD 1094, and/or RST 1000 and/or RST 1005, and/ or RAD 1094A
Prerequisite or corequisite: RAD 1010L, RAD 1011, RAD 1194 and/ or RST 2000 RAD 1010L
Corequisite: RAD 1001, RAD 1002, RAD 1002L, RAD 1094
Previous: Legacy Equivalent(s): RAD* 130, RAD* 204

RAD 1010L Radiographic Procedures II Lab (1 Credits)

In conjunction with Radiographic Procedures II, students will attend weekly lab instruction to reinforce the procedures learned in the classroom. Previous: Legacy Equivalent(s): RAD* 225L

RAD 1011 Imaging/Exposure I (3 Credits)

This introductory course will cover radiographic equipment with emphasis on image formation, radiation protection and safety, and the production and interaction of x-rays with matter. Imaging accessories and their effect on radiographic quality will be discussed. Prerequisites: RAD 1001, RAD 1002, RAD 1002L, and RAD 1094
Manchester campus only: RST 1021, RST 1005, RAD 1094A Gateway campus - Acceptance into Gateway Campus Radiography program
Corequisite: RAD 1010, RAD 1010L, RAD 1194 AND Gateway only: RAD 1001 and RAD 1011L, MATH 1600 Middlesex campus only: RAD 1013 RAD 1011L

RAD 1011L Imaging/Exposure I Lab (1 Credits)

This course is the laboratory component of the Imaging/Exposure I course. It is meant to give the student hands on lab practice to learn the basics of prime factors and their effect on radiographic image quality. Basic digital imaging characteristics will also be introduced.

RAD 1012 Imaging/Exposure II (3 Credits)

This course provides the student with advanced study of fluoroscopy, physics, computed radiography, digital radiography, digital fluoroscopy, and quality assurance/quality control techniques used to evaluate radiographic imaging equipment. Prerequisites: RAD 1010L, RAD 1010, RAD 1011, RAD 1194 GWCC and MCC: RAD 1094A GWCC only: RAD 1011L MxCC only: RAD 1013
Corequisite: GWCC, MCC, and NVCC: RAD 1294
MxCC: RAD 2001, RAD 2001L, and RAD 1294
CCC: RAD 1294 and RAD 2015
Previous: Legacy Equivalent(s): RAD* 200

RAD 1012L Imaging/Exposure II Lab (1 Credits)

This course is the laboratory component of the Imaging/Exposure III course that is a continuation of advanced study of fluoroscopy, computed radiography, digital radiography, digital fluoroscopy, and the techniques and testing to evaluate and assess quality assurance.

RAD 1013 Advanced Patient Care (2 Credits)

This course is a continuation of the Introduction to Radiologic Science and Patient Care Course, delving more deeply into Patient Care issues. Patient interactions, medical emergencies, Pharmacology, and ethical and medical issues will be discussed. Additional reflection on patient care skills will be included. Prerequisites: MxCC and MCC: RAD 1001 or RST 1021, RAD 1002, RAD 1002L, and RAD 1094
Corequisite: MxCC and MCC - RAD 1010, RAD 1010L, RAD 1011, and RAD 1194
Previous: Legacy Equivalent(s): RAD* 209

RAD 1094 Radiography Clinical I (2 Credits)

This course introduces the clinical setting and general radiographic areas of Diagnostic Imaging with supervised clinical practice. Students will develop patient positioning skills, image evaluation, patient communication skills, and basic patient care skills. Prerequisites: Program Admission
Corequisite: RAD 1002, RAD 1002L, RAD 1001 MCC only: RST 1000 and RST 1005 RAD 1094A
Previous: Legacy Equivalent(s): RAD* 190, RAD* 171

RAD 1094A Radiography Winter Clinical I (0.5 Credits)

Students will practice clinical skills, at a campus clinical affiliate, in the general radiographic areas of Diagnostic Imaging with supervised clinical practice. Previous: Legacy Equivalent(s): RAD* 190w

RAD 1194 Radiography Clinical II (2 Credits)

This course is a continuation of Radiography Clinical I. Students will continue to practice clinical skills in the general radiographic areas of Diagnostic Imaging with supervised clinical practice. Prerequisites: RAD 1001, RAD 1002, RAD 1002L, RAD 1094 MCC only: RST 1000, RST 1005, and RAD 1094A GWCC and MCC only: RAD 1094A
Prerequisite or corequisite: RAD 1010, RAD 1010L, and RAD 1011 CCC and MCC only: RAD 2022
Previous: Legacy Equivalent(s): RAD* 191, RAD* 172

RAD 1294 Radiography Clinical III (2 Credits)

Students continue to develop clinical skills, at a campus clinical affiliate, in the general radiographic areas of Diagnostic Imaging with supervised clinical practice.

Prerequisites: RAD 1010, RAD 1010L, RAD 1011, RAD 1194 Middlesex Campus and Manchester Campus only: RAD 1013 CCC and MCC only: RAD 2022

Prerequisite or corequisite: RAD 1012 MxCC only: RAD 2001, RAD 2001L Previous: Legacy Equivalent(s): RAD* 192, RAD* 240

RAD 1394 Rad Clinical Internship III (1 Credits)

Supervised clinical practice experience for students transitioning from first year to second year radiography courses. Students continue to develop skills at a clinical facility on Diagnostic Imaging.

Prerequisites: RAD 1010, RAD 1011, RAD 1194, COMM 1301 and PSY 1011

RAD 2001 Radiographic Procedures III (3 Credits)

This course is a continuation of Radiographic Procedures II. It introduces more advanced imaging procedures and continues to emphasize task objectives and competencies in general radiographic procedures, related anatomy, and image evaluation. Procedures covered completion of axial skeleton and Digestive System, Urinary System, Reproductive System and Advanced imaging for fluoroscopy.

Prerequisites: RAD 1010, RAD 1010L, RAD 1011, RAD 1194 and Gateway Campus: RAD 1294 Middlesex Campus and Manchester Campus only: RAD 1013

Prerequisite or corequisite: RAD 2002, RAD 2002L, and RAD 2001L Middlesex Campus and Manchester Campus only: RAD 1294, RAD 2001L, RAD 1012 Naugatuck Valley Campus only: RAD 2015 Gateway Campus only: RAD 2001L, RAD 2022, RAD 2094 RAD 2001L

Corequisite: RAD 1010, RAD 1010L, RAD 1011, RAD 1013, RAD 1094

Prerequisite: RAD 1002 and RAD 1002L MxCC and MCC only: RAD 1194, RAD 1013

Previous: Legacy Equivalent(s): RAD* 225

RAD 2001L Radiographic Procedures III Lab (1 Credits)

In conjunction with Radiographic Procedures III, students will attend weekly lab instruction to reinforce the procedures learned in the classroom.

Previous: Legacy Equivalent(s): RAD* 130L

RAD 2002 Imaging/Exposure III (3 Credits)

This course is a continuation in the advanced study of fluoroscopy, computed radiography, digital radiography, digital fluoroscopy, and the techniques and testing to evaluate and assess quality assurance.

Prerequisites: RAD 1012, RAD 1294 OR Middlesex Campus and Manchester Campus: RAD 1012, RAD 1294, RAD 2001, RAD 2001L

Prerequisite or corequisite: Middlesex Campus and Manchester Campus: RAD2002, RAD 2002L, RAD 2015, RAD 2022, RAD 2094 OR Capital Campus and Naugatuck Valley Campus: RAD2011, RAD 2094 RAD 2002L

Corequisite: RAD 1012, RAD 2001, RAD 2001L, RAD 1294

RAD 2002L Imaging/Exposure III Lab (1 Credits)

This course is the laboratory component of the Imaging/Exposure III course that is a continuation of advanced study of fluoroscopy, computed radiography, digital radiography, digital fluoroscopy, and the techniques and testing to evaluate and assess quality assurance.

RAD 2015 Radiographic Pathology (3 Credits)

This course provides an overview of pathologic conditions that are demonstrated by diagnostic imaging.

Prerequisites: CCC: Summer: RAD 1010, RAD 1010L, RAD 1011, and RAD 1194 MCC: RAD 1012 and RAD 1294

MxCC: RAD 1011L, RAD 1011, RAD 1294, RAD 2001, RAD 2001L Both MCC and MxCC are offering this course in the fall of the second year.

Prerequisite or corequisite: RAD 2090 and RAD 2194

RAD 2022 Radiobiology and Radiation Safety for the Radiographer (3 Credits)

This course is designed to present a clear understanding of all sources and use of medical radiation and the various types of equipment used in a radiology department. This course also includes the study of radioisotopes, the production of x-rays, imaging measurements of radiation and a basic understanding of the ways in which radiation interacts with the biological system. Emphasis is also placed on the various methods of protection for technologists and patients.

Prerequisites: MxCC & MCC: RAD 1011, RAD 2001, RAD 2001L, and RAD 1194 CCC: RAD 1001, RAD 1002, RAD 1002L, and RAD 1094 NVCC: RAD 1012 and RAD 1294 GWCC: RAD 2094A

Prerequisite or corequisite: MxCC and MCC: RAD 2002, RAD 2002L, RAD 2015, RAD 2094 CCC: RAD 1010, RAD 1010L, RAD 1011 GWCC and NVCC: RAD2011, RAD 2194

Previous: Legacy Equivalent(s): RAD* 222

RAD 2090 Senior Seminar (3 Credits)

This course is the culmination of all radiographic technology courses. Students will look at future technology and will research and present on a chosen topic that utilizes imaging technology for diagnosis and/or treatment.

Prerequisites: RAD 2002 and RAD 2002L GWCC and MCC only:

RAD 2094A MxCC: RAD 2022 and RAD 2015

Corequisite: RAD 2194 Gateway Campus only: RAD 2022 and RAD 2015 Middlesex Campus only: RADT 2295

Previous: Legacy Equivalent(s): RAD* 218

RAD 2094 Radiography Clinical IV (3 Credits)

Students will practice clinical skills in the general radiographic areas of Diagnostic Imaging, including Advanced Imaging Procedures with supervised clinical practice.

Prerequisites: RAD 1294 or RAD 1394 MCC and NVCC: RAD 1012 MxCC only: RAD 2001, RAD 2001L, and RAD 1012

Prerequisite or corequisite: RAD 2001 and RAD 2001L MxCC only: RAD 2015, RAD 2022, RAD 2002, and RAD 2002L RAD 2094A

Corequisite: GWCC and MCC campuses only: RAD 2001, RAD 2001L, RAD 2002, RAD 2002L MCC only: RAD 2015

Previous: Legacy Equivalent(s): RAD* 288

RAD 2094A Radiography Winter Clinical II (0.5 Credits)

This course is designed to present a clear understanding of all sources and use of medical radiation and the various types of equipment used in a radiology department. This course also includes the study of radioisotopes, the production of x-rays, imaging measurements of radiation and a basic understanding of the ways in which radiation interacts with the biological system. Emphasis is also placed on the various methods of protection for technologists and patients.

Previous: Legacy Equivalent(s): RAD* 290w

RAD 2095 Radiographic Clinical Internship (4 Credits)

The student will have the opportunity to refine skills learned earlier in the program with indirect supervision. Students will complete all required clinical competency procedures in preparation to apply for the ARRT national certification examination in radiography.

Prerequisites: MxCC: RAD 2002, RAD 2002L, RAD 2015, RAD 2002, and RAD 2094

Corequisite: RAD 2090

RAD 2194 Radiography Clinical V (3 Credits)

Students will practice clinical skills in the general radiographic areas of Diagnostic Imaging, including Advanced Imaging Procedures with supervised clinical practice.

Prerequisites: RAD 2094

Prerequisite or corequisite: RAD 2090 Gateway Campus and Naugatuck Valley Campus only: RAD 2015

Previous: Legacy Equivalent(s): RAD* 289