

RADIOLOGIC TECHNOLOGY (AHXR)

AHXR 100 - Intro to Diagnostic Imaging. 2 Credits.

Offered autumn. Offered at Missoula College. Coreqs., AHXR 121, AHXR 140, AHXR 141, AHXR 225. All program prereqs must be completed and must be accepted into program. Introduction to the field of radiology and its mix of technical equipment, lab work, hospital environment, and team work.

AHXR 101 - Patient Care in Radiology. 2 Credits.

Offered spring. Offered at Missoula College. Coreqs., AHXR 160, AHXR 161, AHXR 221, AHXR 240. Introduction to the concepts and practices necessary to provide quality patient care in the diagnostic imaging department. Course covers legal and ethical standards of care, basic nursing practices, infection control, venipuncture, and etc, as well as medications and contrast agents used in radiology.

AHXR 121 - Radiographic Imaging I. 3 Credits.

Offered autumn. Offered at Missoula College. All program prereqs must be completed and must be accepted into program. Coreqs., AHXR 100, AHXR 140, AHXR 141, AHXR 225. Introduction to physics of x-ray production. Includes factors of image quality and exposure methods: density, contrast, recorded detail, distortion.

AHXR 140 - Radiographic Methods. 3 Credits.

Offered autumn. Offered at Missoula College. Knowledge and skills necessary for quality patient care during standard and specialty radiographic procedures.

AHXR 141 - Radiology Lab. 1 Credit.

Offered at Missoula College. Co-Requisite AHXR 140, Radiological Methods. Students will practice all patient positioning skills necessary for competency as Radiologic Technologists.

AHXR 160 - Radiographic Methods II. 3 Credits.

Offered spring. Offered at Missoula College. Prereqs., BIOH 211N, BIOH 212N. Coreqs., AHXR 101, AHXR 161, AHXR 221, AHXR 240. Advanced and less common radiographic procedures are introduced including fluoroscopy, surgery and various other procedures.

AHXR 161 - Radiographic Methods II Lab. 1 Credit.

Offered spring. Offered at Missoula College. Coreqs., AHXR 101, AHXR 160, AHXR 221, AHXR 240. Students will practice patient positioning skills necessary for competency as Radiologic Technologists. Simulations are used to ready students for first clinical rotation.

AHXR 192 - Independent Study. 1-6 Credits.

Offered at Missoula College. Course material appropriate to the needs and objectives of the individual student.

AHXR 195 - Radiographic Clinical: I. 1-14 Credits.

(R-20) Offered over two semesters throughout the Radiology Technology program, beginning Spring semester. Offered at Missoula College. Students will begin with an introduction to patient management and basic radiographic procedures. The final semester offers opportunities in advanced patient management skills and experience with highly skilled radiographic procedures. Each semester builds on the previous semester, always emphasizing the principles of ALARA.

AHXR 221 - Radiographic Imaging II. 3 Credits.

Offered spring. Offered at Missoula College. Offers students more technical and detailed information on the use of image receptor systems, processing principles, advanced digital imaging systems and imaging modalities used in radiology.

AHXR 225 - Radiobiology/Radiation Protctn. 2 Credits.

Offered autumn. Offered at Missoula College. All program prereqs must be completed and must be accepted into program. Coreqs., AHXR 100, AHXR 140, AHXR 141. Principles of radiation protection and radiobiology. Topics include the effects of ionizing radiation on body tissues, protective measures for limiting exposure to the patient and personnel, and radiation monitoring devices.

AHXR 240 - Pathology and Image Analysis. 2 Credits.

Offered spring. Offered at Missoula College. Coreqs., AHXR 101, AHXR 160, AHXR 161, AHXR 221. Study of common pathologies encountered in radiology, and how pathologies are demonstrated on radiographic images. Introduces skills needed to evaluate and correct radiographic images.

AHXR 270 - Radiographic Registry Review. 2 Credits.

Offered spring. Offered at Missoula College. An overview of imaging concepts as a review for the national certification test. Topics include a systematic approach for image evaluation, patient care, radiation protection and the physics of radiographic imaging.

AHXR 274 - Cross Sectional Anatomy. 3 Credits.

Course offered online each semester. Offered at Missoula College. Students must be ARRT certified with a current state license to register for the CT courses. This course will cover information specific to ARRT guidelines in preparation for the Computed Tomography Exam. The regions of the body to be included are: Head, Neck, Chest, Abdomen, Pelvis and Musculoskeletal. Within each of these categories, focus will be placed on these relevant factors. Sectional Anatomy (axial, sagittal and coronal planes), Contrast Media (types, contraindications, administration), Imaging Processes (scout acquisition and methods, parameter selection, protocol modification) and Special Procedures (Reformatting, 3-D rendering, biopsies/drains, screening).

AHXR 275 - Physics and Instrumentation. 2 Credits.

Course offered online each semester. Offered at Missoula College. Students must be ARRT certified with a current state license to register for the CT courses. This course will cover information specific to ARRT guidelines in preparation for the Computed Tomography Exam. The course will be broken down in to the following sections: Patient Assessment and Preparation (to include patient history, screening, and consent. Immobilization, patient monitoring, accessory medical devices, lab values and medications/dosage). Contrast Administration (to include contrast media types, considerations, administration and dosage, venipuncture, injection techniques, post-procedure care and adverse reactions). Radiation Safety and Dosimetry (to include technical factors, protection and shielding, dose measurement and dose reduction/optimization).

AHXR 291 - Special Topics. 1-6 Credits.

(R-6) Offered at Missoula College. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

AHXR 295 - Radiographic Clinical: II. 8-24 Credits.

(R-20) Offered over two semesters throughout the Radiology Technology program, beginning Spring semester. Offered at Missoula College. Students will begin with an introduction to patient management and basic radiographic procedures. The final semester offers opportunities in advanced patient management skills and experience with highly skilled radiographic procedures. Each semester builds on the previous semester, always emphasizing the principles of ALARA.

AHXR 298 - Internship. 1 Credit.

Offered at Missoula College. Extended classroom experience which provides practical application of classroom learning during placements off campus.