

RADIOGRAPHY (RADIOGR)

Radiography (RADIOGR) 101

Intro To Radiation Sciences

Fundamental concepts of medical imaging and the radiation sciences; includes origins of the profession, common terminology and chemicals; technical factors influencing development of the radiograph and technical factors which produce the image. Writing assignments, as appropriate to the discipline, are part of the course.

Admission into the Radiography program/plan 246.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 102

Attitudes In Patient Care

Skills needed for proper patient care; includes physical and psychological skills necessary to cope with various situations. Writing assignments, as appropriate to the discipline, are part of the course.

Admission into the Radiography program/plan 246.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 105

Imaging Physics

Structure of matter, electric circuitry, especially the x-ray circuit, interactions between ionizing radiation and matter and principles necessary for production of radiographic image. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

4 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 115

Basic Prins Of Image Produc

Analysis of various technical factors and accessories which affect radiographic image; includes basic qualitative factors of image production, and laboratory experiments. Writing assignments, as appropriate to the discipline, are part of the course.

Admission into the Radiologic Program

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 124

Intro To Patient Care

Proper positioning and basic nursing procedures necessary for patient care; includes proper placement and manipulation of patient and equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Admission into the Radiography program/plan 246.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 128

Image Evaluation

Analysis of image and quality of radiographs images submitted for interpretation; covers patients size, cooperation and pathological condition relative to and influencing accuracy and quality of resultant image. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 131

Radiographic Procedures I

Proper positioning of patient for demonstration of suspect pathology of abdomen and its contents, correlated with course in anatomy and physiology, and routine and contrast media procedures. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 140

Intro To Clinical Education

Physical and technical skills needed to apply ionizing radiation to human beings; clinical orientation and assessment to determine professional preparedness. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

20 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 141

Radiography Clinical Education I

Orientation and initial skills development in basic radiographic procedures; visualization of abdomen and its contents stressed to prepare student for further study in major area of specialization; includes communication, operation of equipment, patient care and technical skills development. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

20 Laboratory hours. 1 Lecture hours. 3 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 200

Pathology

Covers disease process with radiographic manifestations; laboratory sessions include use of radiographs and images from other modalities to visualize various types of pathologic conditions. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

4 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 202

Radiology Management

Administration, purchasing and personnel control; practical experience in department administration. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 205

Applied Radiographic Techniques

Practical applications of previously learned concepts; effects of technical factor selection, use of accessories and changes in patient type and condition. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 206

Imaging

The components of radiological imaging system chains; imaging systems will be explored, including current systems and new and emerging modalities. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 208

Radiobiology

Effects of radiation on cells, organs, and organisms and implications on present and future populations, use of ionizing radiation in internal and external treatment of benign and malignant disease. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 232

Radiographic Procedures II

Positioning and patient-care skills applied to additional body systems and correlated with clinical study; proper positioning of patient for demonstration of suspect pathology correlated with previous procedures; includes skeletal and urinary systems. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 233

Radiographic Procedures III

Study of additional body systems; includes procedures less frequently performed and those requiring special skills or equipment; procedures covered will not normally require invasive techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 234

Special Radiographic Procedure

Procedures frequently performed in modern department but which employ surgical or other invasive techniques and injection of contrast media into circulatory system; covers emergency procedures and pertinent aspects of some pharmaceuticals. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

2 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 242

Radiography Clinical Ed II

Application of concepts learned in related radiography classes; emphasis on progression from role of observer to assistant, then to relative independence under supervision of qualified clinical instructors, radiographers and faculty. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

30 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 243

Radiography Clinical Education III

Progression from role of assistant to greater independence under supervision of qualified clinical instructors. Quality and related aspects of special consent will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

30 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 244

Radiography Clinical Education IV

Progression of student to full clinical independence, upon demonstrating clinical competency. Student can refine skills through independent practice. Includes field experiences in elective specialization. Writing assignments, as appropriate to the discipline, are part of the course.

Grade of C or better in RADIOGR 101.

30 Laboratory hours. 1 Lecture hours. 4 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 261

Patient Care and Pathology

This course is designed to provide requisite theories and processes related to mammographic manifestations; proper positioning and basic procedures necessary for patient care; includes proper placement and manipulation of patient and equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Admittance into the Mammography Advanced Program.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 262

Anatomy, Physiology and Procedures

Proper positioning of patient for demonstration of suspect pathology of breast, correlated with course in anatomy and physiology, and routine procedures. Writing assignments, as appropriate to the discipline, are part of the course.

Admittance into the Mammography Advanced Program.

2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 263

Imaging Production and QA

Analysis of various breast imaging and systems and quality of images submitted for interpretation. Practical applications of previously learned concepts; effects of technical factor selection, use of accessories and changes in patient type and condition. Writing assignments, as appropriate to the discipline, are part of the course.

Admittance into the Mammography Advanced Program.

1 Lecture hours. 1 Credit Hours.

Offered At: MX

Radiography (RADIOGR) 265**Mammography Clinical Education**

The program strives to empower students of diverse backgrounds and abilities to develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of mammographic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice, and professional development are discussed and evaluated. The program provides graduates with a level of preparation to become licensed, certified and employed entry-level mammographers upon completion of all program requirements.

Admittance into the Mammography Advanced Program.

12 Clinical hours. 1 Lecture hours. 5 Credit Hours.

Offered At: MX