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 radiographic 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
<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>RADIOGR 206</td>
<td>Imaging</td>
<td>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.</td>
<td>2 Lecture hours. 2 Credit Hours.</td>
<td>MX</td>
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<tr>
<td>RADIOGR 208</td>
<td>Radiobiology</td>
<td>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.</td>
<td>2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.</td>
<td>MX</td>
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<td>RADIOGR 232</td>
<td>Radiographic Procedures II</td>
<td>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.</td>
<td>2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.</td>
<td>MX</td>
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<tr>
<td>RADIOGR 233</td>
<td>Radiographic Procedures III</td>
<td>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.</td>
<td>2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.</td>
<td>MX</td>
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<tr>
<td>RADIOGR 234</td>
<td>Special Radiographic Procedure</td>
<td>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.</td>
<td>2 Lecture hours. 2 Credit Hours.</td>
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<td>RADIOGR 242</td>
<td>Radiography Clinical Ed II</td>
<td>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.</td>
<td>30 Laboratory hours. 1 Lecture hours. 4 Credit Hours.</td>
<td>MX</td>
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<tr>
<td>RADIOGR 243</td>
<td>Radiography Clinical Education III</td>
<td>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.</td>
<td>30 Laboratory hours. 1 Lecture hours. 4 Credit Hours.</td>
<td>MX</td>
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<tr>
<td>RADIOGR 244</td>
<td>Radiography Clinical Education IV</td>
<td>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.</td>
<td>30 Laboratory hours. 1 Lecture hours. 4 Credit Hours.</td>
<td>MX</td>
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<td>RADIOGR 261</td>
<td>Patient Care and Pathology</td>
<td>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.</td>
<td>2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.</td>
<td>MX</td>
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<td>RADIOGR 262</td>
<td>Anatomy, Physiology and Procedures</td>
<td>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.</td>
<td>2 Laboratory hours. 1 Lecture hours. 2 Credit Hours.</td>
<td>MX</td>
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<td>RADIOGR 263</td>
<td>Imaging Production and QA</td>
<td>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.</td>
<td>1 Lecture hours. 1 Credit Hours.</td>
<td>MX</td>
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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