### Radiography (RADIOGR)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>RADIOGR 101</td>
<td>Intro To Radiation Sciences</td>
<td>4 Lecture; 4 Credit</td>
<td>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</td>
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<tr>
<td>RADIOGR 102</td>
<td>Radiography (RADIOGR) 102</td>
<td>2 Laboratory; 2 Credit</td>
<td>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</td>
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<tr>
<td>RADIOGR 105</td>
<td>Radiography (RADIOGR) 105</td>
<td>4 Lecture; 4 Credit</td>
<td>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.</td>
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<tr>
<td>RADIOGR 115</td>
<td>Radiography (RADIOGR) 115</td>
<td>2 Laboratory; 2 Credit</td>
<td>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</td>
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<tr>
<td>RADIOGR 124</td>
<td>Radiography (RADIOGR) 124</td>
<td>4 Lecture; 4 Credit</td>
<td>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</td>
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<tr>
<td>RADIOGR 128</td>
<td>Radiography (RADIOGR) 128</td>
<td>1 Lecture; 1 Credit</td>
<td>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.</td>
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<tr>
<td>RADIOGR 131</td>
<td>Radiography (RADIOGR) 131</td>
<td>1 Lecture; 1 Credit</td>
<td>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</td>
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<tr>
<td>RADIOGR 140</td>
<td>Radiography (RADIOGR) 140</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<tr>
<td>RADIOGR 141</td>
<td>Radiography Clinical Education I</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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.</td>
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<tr>
<td>RADIOGR 142</td>
<td>Radiography Clinical Education II</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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.</td>
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<tr>
<td>RADIOGR 143</td>
<td>Radiography Clinical Education III</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<tr>
<td>RADIOGR 144</td>
<td>Radiography Clinical Education IV</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<tr>
<td>RADIOGR 145</td>
<td>Radiography Clinical Education V</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<td>RADIOGR 146</td>
<td>Radiography Clinical Education VI</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<td>RADIOGR 147</td>
<td>Radiography Clinical Education VII</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<td>RADIOGR 148</td>
<td>Radiography Clinical Education VIII</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<td>RADIOGR 149</td>
<td>Radiography Clinical Education IX</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<td>RADIOGR 150</td>
<td>Radiography Clinical Education X</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<td>RADIOGR 151</td>
<td>Radiography Clinical Education XI</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<td>RADIOGR 152</td>
<td>Radiography Clinical Education XII</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<td>RADIOGR 153</td>
<td>Radiography Clinical Education XIII</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<tr>
<td>RADIOGR 154</td>
<td>Radiography Clinical Education XIV</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<td>RADIOGR 155</td>
<td>Radiography Clinical Education XV</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<td>RADIOGR 156</td>
<td>Radiography Clinical Education XVI</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<td>RADIOGR 157</td>
<td>Radiography Clinical Education XVII</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<tr>
<td>RADIOGR 158</td>
<td>Radiography Clinical Education XVIII</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<tr>
<td>RADIOGR 159</td>
<td>Radiography Clinical Education XIX</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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<tr>
<td>RADIOGR 160</td>
<td>Radiography Clinical Education XX</td>
<td>20 Laboratory; 1 Lecture; 3 Credit</td>
<td>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</td>
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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) 245
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) 261
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) 262
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) 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