

Radiologic Technology Training Program

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Program Coordinator: Mansour, Zepure

General Information

The Radiologic Technology program offers two years of theoretical and clinical training in all diagnostic imaging modalities. Theoretical training is provided in the program's facilities located in the sub-basement of the Medical Center, and clinical training is provided in the Department of Diagnostic Radiology of the Faculty of Medicine.

The program also offers post-certificate courses in specialized imaging modalities.

Admission

The minimum requirement for admission to the first year is the Lebanese Baccalaureate, or its equivalent. Applicants must take the SAT I and the University's English Entrance Examination or TOEFL, as specified in the admissions section of this catalogue.

Curriculum

First Year

| First Semester | | | Credits |
|-----------------|-----|--|---------|
| XR | 101 | Orientation | 3 |
| XR | 103 | Physics | 7 |
| XR | 105 | Anatomy and Physiology | 6 |
| XR | 107 | Image Production and Processing | 6 |
| XR | 109 | Radiographic Technique | 7 |
| XR | 111 | Clinical | 2 |
| Second Semester | | | Credits |
| XR | 104 | Physics | 7 |
| XR | 106 | Anatomy and Physiology | 6 |
| XR | 108 | Image Production and Processing | 6 |
| XR | 110 | Radiographic Technique | 7 |
| XR | 102 | Clinical | 2 |
| XR | 112 | Fundamentals of Nursing and Patient Care | 3 |

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| XR 202 | Special Procedures, Theory | 6 cr. |
| A study of imaging procedures related to the circulatory system, breast imaging techniques and interventional procedures related to different systems. | | |
| XR 203 | Radiologic Equipment, Theory | 8 cr. |
| A detailed study of the x-ray tubes with methods of kV, mA, and exposure time control; control of scattered radiation, mammographic and tomographic equipment, image intensification, and television systems. A description and function of automatic film changers and pressure injectors. | | |
| XR 204 | Radiologic Equipment, Theory | 8 cr. |
| This course covers the topics of equipment design and function in computed tomography, nuclear medicine, ultrasonography, and magnetic resonance imaging. | | |
| XR 205 | Introduction to Principles of Disease, Theory | 5 cr. |
| An introduction to pathology that focuses on nature and causes of diseases, diseases of the gastrointestinal and hepato-biliary systems, and genito-urinary and endocrine systems. | | |
| XR 206 | Introduction to Principles of Disease, Theory | 5 cr. |
| A study of diseases of the nervous system, skeletal system, respiratory, cardio-vascular, and hematopoietic diseases; and miscellaneous diseases related to nutrition and the immune system. | | |
| XR 207 | Sectional Anatomy, Theory | 2 cr. |
| A study of the sectional anatomy of the head, neck, and thorax. | | |
| XR 208 | Sectional Anatomy, Theory | 2 cr. |
| A study of the sectional anatomy of the abdomen, pelvis, and extremities. | | |
| XR 209 | Clinical, Practicum | 4 cr. |
| Clinical training in the Department of Diagnostic Radiology. | | |
| XR 210 | Projects | 2 cr. |
| An application of basic research methodology in the preparation of case studies, presentations, and journal clubs. | | |
| XR 212 | Clinical, Practicum | 4 cr. |
| Clinical training in the Department of Diagnostic Radiology. | | |
| XR 214 | Clinical, Practicum | 4 cr. |
| Clinical training in the Department of Diagnostic Radiology and various departments/divisions using imaging modalities. | | |
| XR 220 | Mammography, Practicum, and Projects | 10 cr. |
| XR 222 | Ultrasonography, Practicum, and Projects | 12 cr. |
| XR 224 | Computed Tomography, Practicum, and Projects | 12 cr. |
| XR 226 | Magnetic Resonance I, Practicum, and Projects | 14 cr. |
| XR 228 | Magnetic Resonance II, Practicum, and Projects | 14 cr. |