

Medical Radiography

Medical Radiological Technologists play a vital role in the diagnosis and treatment of many injuries and illnesses. At a physician's request, Radiological Technologists use equipment that emits x-rays to produce images of a body part or system. Their work involves a broad variety of procedures and specialties including: routine general radiography, mammography, angiography, fluoroscopy and computerized tomography.

OBJECTIVES

1. To provide the academic knowledge outlined in the Canadian Association of Medical Radiation Technologists (CAMRT) Competency Profile.
2. To apply the learned academic knowledge in clinical practice.
3. To develop a sense of professionalism and responsibility.
4. To provide comprehensive knowledge of the hazards involved and appropriate protection methods.
5. To provide the community with trained personnel who can serve their employers and patients with the highest degree of competence.

CURRICULUM

The curriculum for this program emphasizes theory and practice of medical radiography. Second year classroom and laboratory sessions are supplemented by weekly assignments at Eastern Regional Integrated Health Authority.

The clinical phase of the program is designed to train the student in practical aspects of medical radiography and to discipline the student to the working conditions of the radiology department. This portion of the course is a clinical training period during which the student will apply, under supervision, the theories and principles learned during the previous years of training.

The aim of this portion of the program is:

1. To ensure that the student can accurately and confidently perform the varied examinations that are carried out on a daily basis in a radiology department.
2. To ensure that the student has performed the number and variety of examinations required to complete the course.

The clinical phase will consist of 48 weeks of training. The program is conducted at sites of Eastern Regional Integrated Health Authority. Students will follow a rotation

schedule designed to provide broad clinical exposure to the different radiographic specialties.

Graduates of the program will be eligible to write Canadian Association of Medical Radiation Technologists (CAMRT) certification examinations. The CAMRT is the national professional body for medical radiation technologists.

ACCREDITATION

The program at the Prince Philip Drive Campus is accredited by the Canadian Medical Association.

PROGRAM TRANSFERABILITY

Graduates may elect to further their studies and obtain a Bachelor of Technology degree from Memorial University of Newfoundland or a Bachelor of Sciences (Post Diploma, Human Science) from Athabasca University.

ENTRANCE REQUIREMENTS

For the 2011-2012 academic year, applicants wishing to pursue a career in Medical Radiography must complete the Medical Sciences I (General) program of studies. Selection to Medical Radiography is competitive and will occur at the end of the second semester.

PLEASE NOTE a change in the application process for the Medical Radiography program effective January 1, 2010. See the "Application Process for Medical Laboratory Sciences, Medical Radiography, and Respiratory Therapy Programs" section of the calendar for details.

Selection:

1. Students will compete for entry into the third semester.
2. Competition will be based on academic standing in semesters 1 and 2 of the Medical Sciences I (General) program. Students must pass all first and second semester (minimum 50%) courses and have a minimum G.P.A. of 2.00 to be considered for admission to the third semester.
3. The student's weighted average at the end of the second semester will be used to calculate academic standing for purposes of competition. In the case of students who have been exempted from courses in the first and second semesters, the mark obtained in the course completed by the student at another post secondary institution, or other college program will be used in calculating the weighted average as if the course had been completed as part of the Medical Sciences I (General) program.

DIPLOMA

- Three years
- September start
- Prince Philip Drive Campus

COURSES

CODE	TITLE	Hrs/wk		
Semester 1 and 2 – Refer to Medical Sciences I (General)				
Semester 3 (Interession I)				
Semester 3 (Interession I)		Cr	Le	La
BL2100	Biology	2	1	2
PS1100 or PS1150	Psychology	2	2	0
PH1201	Physics	2	2	1
PS1420	Health Care Organization and Structure	3	3	0

Course Lecture (Le) and Lab (La) hours per week are based on a 15 week semester. In interession the Lecture and Lab hours will be adjusted to reflect the shorter semester length.

Semester 4				
MX2102	Radiographic Anatomy and Pathology	4	4	0
MX2110	Radiographic Technique	5	4	2
MX2200	Image Recording	4	3	2
MX2310	Apparatus & Accessories	3	3	0
MX2410	Patient Care & Safety	3	3	0
PH2200	Radiation Physics	3	3	0
SD1620	Clinical Orientation	P/F	0	3

Semester 5				
MX2103	Radiographic Anatomy and Pathology	5	5	0
MX2120	Radiographic Technique	5	4	2
MX2201	Image Recording	4	3	2
MX2301	Apparatus & Accessories	5	4	4
MX2500	Radiation Protection & Radiobiology	3	3	0
SD1621	Clinical Orientation	P/F	0	3

Clinical Year (May-April)				
		Cr	Le	La

Semester 6 (Interession II)				
MX1510	Clinical Radiography Orientation	1	6	6wks
SD1680	Ethics in Health Care	3	3	0

Course Lecture (Le) and Lab (La) hours per week are based on a 15 week semester. In interession the Lecture and Lab hours will be adjusted to reflect the shorter semester length.

Semester 7				
MX3250	Clinical Radiography	16	16	wks

Semester 8				
MX3260	Clinical Radiography	16	16	wks

Students rotate through the sites of the Eastern Regional Integrated Health Authority.

Students must possess a valid Emergency First Aid Certificate and Basic Cardiopulmonary Resuscitation Certificate to be eligible for a Diploma from the college.

