



Nuclear Medicine Technology

SCHOOL OF HEALTH AND PUBLIC SAFETY

Overview

Our Nuclear Medicine Technology program is an in-depth journey into nuclear medicine, focusing on diagnosing and treating diseases.

You will learn using sophisticated diagnostic software and equipment and apply your skills in real-world clinical settings across various nuclear medicine departments.

In this program, you will:

- prepare and utilize radioactive drugs for imaging procedures
- develop skills to effectively communicate with patients
- learn ethical and professional standards in clinical settings
- learn the principles of radiation and radiology and how to protect yourself, patients and staff
- gain expertise in diagnostic CT imaging
- study the body systems and their functions
- gain an understanding of instrument measuring and imaging radioactivity
- learn how to perform patient imaging procedures and theragnostics
- ensure the quality and safety of nuclear medicine equipment and processes
- learn how to perform blood draws, establish IV access and administer injections
- apply knowledge of pathophysiology as it relates to clinical procedures.

Our course curriculum meets the Canadian Association of Medical Radiation Technologists (CAMRT) national competency profile requirements. Graduates are eligible to write the CAMRT national certification exam.

Once certified and licensed, you will be prepared to work as a nuclear medicine technologist in diverse healthcare environments, including hospitals, community clinics, private laboratories, or research and teaching institutions.

If you want to contribute to providing positive patient outcomes and optimal patient care, this program is for you.

Traits, skills and aptitudes

Those in nuclear medicine technology tend to be objective, methodical and innovative.

You need:

- fine motor skills
- a high degree of responsibility and integrity
- patience and flexibility
- sensitivity to the needs of ill and injured people
- good communication skills and the ability to put people at ease
- an interest in science and technology
- an eye for detail and accuracy
- good organizational skills
- good problem-solving and critical-thinking skills
- the ability to work well in a team setting
- the ability to manage stress well, maintain professional behaviour and regulate your emotions
- a desire for lifelong learning
- a tolerance for the sight of human blood and tissue
- to be physically able to assist in transporting, lifting, and positioning patients and equipment
- comfortable with performing patient care procedures which may be sensitive or performed in close proximity

Nuclear medicine technologists wear personal protective equipment (PPE) for long periods. This includes exposure to latex and

disinfection materials.

They may also work extended hours and shift work, including nights and weekends.

You are strongly encouraged to refer to the [ALIS website for career, learning, and employment information for nuclear medicine technologists](#) to ensure you can successfully meet the occupational requirements for the program and profession.

Professional designations and certifications

This program is accredited through Accreditation Canada, and meets the [Canadian Association of Medical Radiation Technologists](#) (CAMRT) national competency profile requirements. This program also works closely with our Diagnostic Imaging Provincial Advisory Committee.

Graduates are eligible to challenge the CAMRT certification exam, which is a requirement for registration and employment for registered nuclear medicine technologists in Canada. Graduates can also challenge the American Nuclear Medicine Technology Certification Board exam.

Credentials

Upon successful completion of this program, you'll be awarded a SAIT Nuclear Medicine Technology diploma.

Practicum, Co-op and Work Integrated Learning

You will complete required practicum placements during this program.

You will be assigned practicum placements. While we will strive to assign your practicum location based on your preference, it is not guaranteed. It may be necessary for you to travel or relocate outside the city. Special considerations will not be accommodated.

In compliance with the practica agreements with our clinical partners, you will be required to provide specific documentation before you can participate in your practicum. [Find out what requirements you need for this program.](#)

Specialized Intakes

Some seats in each intake of this program are reserved for applicants currently residing in Saskatchewan and Manitoba via our [interprovincial health training agreements](#).

Admission requirements

Applicants educated in Canada

Applicants must demonstrate [English language proficiency](#) and meet the following requirements or equivalents, with a combined average of 75%:

- at least 70% in Math 30-1 or at least 75% in Math 30-2, and
- at least 70% in English Language Arts 30-1, and
- at least 70% in Chemistry 30, and
- at least 70% in Biology 30, Physics 30, or Math 31

You must also achieve a mark of 50% or higher in the [School of Health and Public Safety's entrance testing process](#).

SAIT accepts [high school course equivalents](#) for admission for applicants educated outside Alberta.

Applicants educated outside of Canada

All applicants who were educated outside of Canada must demonstrate [English language proficiency](#) and provide proof they meet the program admission requirements with an international document assessment. [Find accepted educational documents and assessment options.](#)

SAIT may also accept courses completed at certain [international post-secondary institutions](#).

Costs

2024/25 tuition and fees

The following costs are effective as of July 1, 2023.

The suggested schedule of study for this program has been modified for students beginning the program in the 2024/25 academic year. If you are a continuing student, your tuition and fees may be different for years 2 and 3. Please contact the School of Health and Public Safety for more information.

Domestic Students

Year	Number of semesters	Tuition fees	Additional fees	Total per year
1	3	\$7,590	\$2,072*	\$9,662
2	2.5**	\$6,270	\$1,913*	\$8,183
3	1	\$1,980	\$804***	\$2,784
Total cost:				\$20,629

The estimated total cost of tuition and fees for domestic students is based on the recommended course load per year.

*You will be ineligible for the UPass during the final semester of your first and second year.

**5 indicates a combination of full-time semester(s) and part-time semester(s) in the same academic year. In many cases, students are completing a practicum during their part-time semester. Part-time students are those taking less than nine (9) course credits in a semester.

***Based on six months of health and dental benefits only.

Books and Supplies

Books and supplies are approximately \$2,600 in the first year and \$1,200 in the second year.

This is a bring-your-own-device program with a standard computer hardware and software requirement. See the specific requirements on our [computers and laptops page](#).

A laptop (non-Android) or Apple tablet is required. A mobile phone is not a suitable alternative.

Find your booklist on the [SAIT Bookstore's](#) website. Booklists are created by semester and available approximately two weeks before classes begin.

Required uniforms and personal protective equipment (PPE)

The industry-approved PPE you'll need will be discussed during your first few days of classes.

You will also require a uniform for some classes, which includes:

- scrubs
- a white lab coat with full-length sleeves and at least mid-thigh length
- closed-toe and heel shoes, runners or duty shoes.

Additional fees

- A fee is associated with obtaining a police information check, including a vulnerable sector check, payable to the police or the Royal Canadian Mounted Police (RCMP).
- You must have your immunizations reviewed by the SAIT Health Clinic. There is a \$75 charge to review vaccine history. Any vaccines you need to be administered will result in additional charges.
- A fee of approximately \$50 to \$100 is associated with an electronic student permit checking submission required for clinical practicum placements, payable to Synergy Gateway through the Verified software platform.
- A fee is associated with the CompTracker application used in this program.
- You are responsible for additional expenses related to your practicum, including pre-practicum requirements and relocation costs to practicum sites outside of Calgary.
- Nuclear Medicine Technology Certification Board (NMTCB) exam fees are approximately \$175.
- [Canadian Association of Medical Radiation Technologists](#) (CAMRT) certification exam fees are approximately \$840, with an additional exam administration fee.
- The Alberta College of Medical Diagnostic and Therapeutic Technologists registration fee is approximately \$100.