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 to use sophisticated diagnostic software and equipment and apply your skills in real-world clinical settings across various nuclear medicine departments.

As a student, you will:

- build strong communication skills to interact effectively and compassionately with patients
- learn the principles of radiobiology and radiation protection to protect yourself, patients and the public
- develop an understanding of instruments used for measuring and imaging radioactivity
- develop the skills to perform patient imaging procedures and apply theranostic technique
- ensure the quality, safety, and proper functioning of nuclear medicine equipment and procedures
- gain expertise in diagnostic CT imaging
- study the body systems and their functions
- learn how to perform blood draws, establish IV access and administer injections
- apply knowledge of pathophysiology as it relates to clinical procedures.

As a graduate who becomes certified and licensed, you will have the opportunity to work as a nuclear medicine technologist in a variety of healthcare settings, including radiopharmacies, hospitals, and community clinics.

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.

SAIT program pathways

Graduates of SAIT's Pre-Health Sciences program may meet the admission requirements for this program.

Practicum, Co-op and Work Integrated Learning

You will complete required practicum placements during this program.

You will be assigned practicum placements with consideration given to your preference of location. However, due to limited availability in Calgary, it might be necessary for you to travel or relocate outside the city.

The healthcare field has a strong focus on health, wellness, and fitness to practice due to the demanding nature of the work and Occupational Health and Safety requirements. As such, special considerations will not be granted based on individual circumstances or preferences, except those stated as protected grounds when an accommodation has been approved.

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.

Accreditations, 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.

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.

Credentials

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

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, or 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

Costs

2026/27 tuition and fees

The following costs are effective as of July 1, 2026.

The estimated total cost of tuition and fees is based on the suggested schedule of study. Following a modified schedule will impact the fees you pay per semester and may alter final costs.

Domestic Students

Year	Number of semesters	Tuition fees	Additional fees	Total per year
1	3*	$9,108	$2,265.50	$11,373.50
2	2.5**	$7,524	$2,015**	$9,539
3	1	$2,376	$882.25***	$3,258.25
			Total cost:	**$24,170.75**

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

* You will not be eligible for the UPass in your third semester.

**.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. You are not eligible for the UPass during a part-time semester.

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

International Students

The program total is based on the estimated amount you will pay if you enter this program during the 2026/27 academic year. The program total amount listed on your letter of admission may appear higher. This amount is your maximum tuition guarantee for the program. SAIT will not exceed this maximum, regardless of changes in tuition and fees between academic years.

Year	Number of semesters	Tuition fees	Additional fees	Total per year
1	3*	$27,876	$2,265.50	$30,141.50
2	2.5**	$23,028	$2,015	$25,043
3	1	$7,272	$882.25***	$8,154.25
			Total cost:	**$63,338.75**

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

* You will not be eligible for the UPass in your third semester.

**.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. You are not eligible for the UPass during a part-time 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 Windows-based laptop 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).
- The School of Health and Public Safety strongly recommends that students meet Alberta Health Services' Standard for Immunization of Post-Secondary Health Care Students. Fees for completing immunization requirements start at $85, however, may increase, depending on your vaccination history, and any new immunizations you choose to acquire.
- 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.