



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.

Academic path

The opportunity to advance your education by transferring into this program or gain credit for previous postsecondary courses may be available.

There may also be opportunities to further your education once you graduate.

Learn more about [program and institution transfer options](#).

Professional designations and certifications

Our Nuclear Medicine Technology program is accredited by Accreditation Canada. SAIT works closely with our Diagnostic Imaging Advisory Committee to ensure our curriculum continues to meet or exceed provincial and national accreditation standards.

Graduates can challenge the [Canadian Association of Medical Radiation Technologists \(CAMRT\)](#) certification exam, 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 three 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.

Special considerations will not be accommodated. You will be responsible for covering the associated fees of the practicum, including entrance requirements, relocation, and travel costs.

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 this program are reserved for applicants currently residing in Saskatchewan and Manitoba via our [interprovincial health training agreements](#). Some intakes are exclusively for these applicants. Limited space is available.

Admission requirements

Applicants educated in Canada

Applicants must demonstrate [English language proficiency](#) and meet the following requirements or equivalents.

Completion of the following courses or equivalents AND a combined average of 75%:

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

Successful applicants must meet or exceed a score of 50% 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 out what educational documents are accepted 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](#).

Find your booklist on the [SAIT Bookstore's](#) website. The booklist will be available closer to the program start date. Can't find your program or course? The bookstore didn't receive a textbook list. Contact your program directly to determine if they're still refining course details or if you're in luck; no textbook purchase is required this term.

Students are responsible for any additional expenses related to their practicum, including pre-practicum requirements outlined by the program and relocation costs to practicum sites outside of Calgary.

Tech requirements

You will be evaluated on your competency performance level during practicum, logged using a tracking system called [CompTracker](#). You require a laptop or Apple iPad to run this software. The device requires wifi capability, and the size is at your discretion. Keyboards are advisable but not mandatory.

There is a required user license fee billed on a per-semester basis. Each program will have a different student fee depending on how the system is used within the program. More information will be shared at orientation.

Required uniforms

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:

- Your uniform is appropriate for a healthcare worker (scrubs)
- White lab coat (full-length sleeves and at least mid-thigh length)
- Shoes must be closed-toe and closed-heel style, runners or duty shoes

in-nmt-uniforms.jpg

Additional fees

- 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 student registration fee to the Alberta College of Medical Diagnostic and Therapeutic Technologists is approximately \$100.
- 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).
- Students must have their immunizations reviewed by the SAIT Health Clinic. There is a \$75 charge to review vaccine history. Any vaccines to be administered will result in additional charges.
- A fee of approximately \$50 – \$100 is associated with an Electronic Student Permit Checking submission required for clinical practicum placements, payable to Synergy Gateway through the Verified software platform.

2023/24 tuition and fees

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

Domestic Students

Year	Number of semesters	Tuition fees	Additional fees	Total per year
1	3	\$8,580	\$2,030	\$10,610
2	3	\$6,930	\$2,030	\$8,960
Total cost:				\$19,570

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