Information Systems Security

Overview

Equip yourself with the skills and knowledge needed to become a proficient computer systems security professional.

In today's digitally connected world, computer and system security is paramount. Cyber threats lurk around every corner, posing risks to individuals, businesses and nations. It's crucial to have experts who can safeguard data and systems from potential cyberattacks.

Our Information Systems Security program is designed to empower you with the practical skills and understanding you need to thrive in this evolving computer and information technology field. Over two years, you will dive into a comprehensive curriculum that covers programming, operating systems, networking and strategic thinking.

In this program, you will gain:

- hands-on learning experience through real-world applications of defensive and offensive security technologies
- a strong foundation in networking, tool construction, and operating systems, setting the stage for your success in the field
- industry-relevant skills and expertise needed to protect data and systems in an increasingly interconnected world
- an understanding of the pivotal role computer security plays in safeguarding data and organizations.

Prepare for a rewarding career in computer systems security, where your expertise will be in high demand.

Whether you are interested in a role as a cybersecurity consultant, network security, systems analyst or information security manager, our Information Systems Security program will provide you with the fundamental tools and knowledge to excel. Your future in this critical field starts here.

Traits, skills and aptitudes

People working in the cyber security analysis field tend to be innovative, objective and directive.

You need:

- analytical skills
- speaking and writing skills
- an inquiring and inventive mind
- an eye for details
- patience and an organized approach to troubleshooting
- decision-making and problem-solving skills
- math and science skills
- teaching skills
- time-management skills.

You should enjoy being innovative, working with others or independently and doing your work with precision.

Professional designations and certifications

Once you graduate, you'll be prepared with the knowledge to challenge the CompTIA Security+ exam and earn your certification.

Credentials

Upon successful completion of this program, you'll be awarded a SAIT Information Systems Security diploma.

Practicum, Co-op and Work Integrated Learning

You can participate in an optional co-op work term between your first and second year, where you can apply what you've learned in a work environment and build relationships with a potential employer.

In your second year, you'll also participate in a capstone project where you'll investigate issues across several different areas and propose a solution.

Admission requirements

Applicants educated in Canada

Applicants must demonstrate English language proficiency and completion of the following courses or equivalents:

- at least 65% in Math 30-1 or 70% in Math 30-2, and
- at least 60% in English Language Arts 30-1 or 65% in English Language Arts 30-2.

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 outlined above 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

2025/26 tuition and fees

The following costs are effective as of July 1, 2025.

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	2	$14,580	$1,668.60	$16,248.60
2	2	$14,580	$1,668.60	$16,248.60
			Total cost:	$32,497.20

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

International Students

The program total is based on the estimated amount you will pay if you enter this program during the 2025/26 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	2	$29,490	$1,668.60	$31,158.60
2	2	$29,490	$1,668.60	$31,158.60
			Total cost:	$62,317.20

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

Books and Supplies

Books and supplies are approximately $1,000 - $1,500 per full-time year.

This is a bring-your-own-device program with a power-user hardware and software requirement. See the specific requirements on our computers and laptops page.

Your textbooks will be discussed in class. You will not need to purchase them ahead of time.

Required equipment/tools

You'll require an:

- Electronic kit
- Wireless access point
- Sensor kit
- Computer network port or network dongle
- Cloud computing services subscription (approximately $800 - $1,200 per year.)

Please wait for your instructors to provide further direction before purchasing equipment.