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 Security+ and Comp Tia+ exams and earn your certifications.

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 syour 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

All applicants must demonstrate English language proficiency and meet the following requirements or equivalents.

- at least 65% in Math 30-1 or 70% in Math 30-2
- 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 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, 2024.

Domestic Students

Year	Number of semesters	Tuition fees	Additional fees	Total per year
1	2	$14,280	$1,608	$15,888
2	2	$14,280	$1,608	$15,888
			Total cost:	$31,776

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

International Students

Year	Number of semesters	Tuition fees	Additional fees	Total per year
1	2	$29,070	$1,608	$30,678
2	2	$29,070	$1,608	$30,678
			Total cost:	$61,356

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.

Required equipment/tools*

Students will require their own:

- electronic kit
- wireless access point
- sensor kit
- cloud computing services subscription is approximately $800 – $1,200 per year.

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

Required textbooks

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