Overview

Start your career in computer programming with hands-on, applied education in full-stack software development. Computer software engineering and development is an in-demand and growing field where you will play a vital role.

Learn from experienced instructors about leading-edge technology and processes to develop computer software, databases and applications in various computer languages. You'll gain skills and knowledge in software analysis and design, object-oriented programming, web development, database design and programming, software testing, security and deployment so you drive business value. You will also learn how to support an organization's applications, websites and data platforms.

Demand for a range of IT professionals will continue as the growth of the IT sector creates more opportunities. Position yourself for a rewarding career supporting critical business operations in the dynamic and ever-evolving tech sector.

This program is geared towards hands-on learners with critical thinking and problem-solving skills. Though prior experience is not required, a passion for the IT sector is critical to academic and professional success.

Traits, skills and aptitudes

Those who experience success in this program and profession:

- have higher secondary and/or post-secondary grades
- possess effective interpersonal and communication skills, including technical writing
- are committed to the significant self-study required alongside classroom learning
- are detail-oriented and employ critical thinking in practice
- possess basic computer literacies, including the ability to use word processing and communication software (working knowledge of Microsoft Office Suite is an asset)
- are team players with a service mindset and able to remain calm in the face of pressure
- are self-motivated, embrace lifelong learning, and genuinely passionate about the IT sector.

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 by transferring to another institution once you graduate.

Learn more about program and institution transfer options.

Credentials

Upon successful completion of this program, graduates will be awarded a SAIT Software Development diploma.

Practicum, Co-op and Work Integrated Learning

This program includes an optional work term between year one and year two.

The work placement includes full-time paid employment.

Admission requirements

Applicants educated in Canada

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

- at least 50% in Math 30-1 or 60% in Math 30-2
- at least 55% in English Language Arts 30-1 or 60% 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

2023/24 tuition and fees

The following costs are effective as of July 1, 2023. They are an estimate of tuition and fees based on the recommended course load per year.

Domestic Students

Year	Number of semesters	Tuition fees	Additional fees	Total per year
1	2	$9,450	$1,570	$11,020
2	2	$9,450	$1,570	$11,020
			Total cost:	$22,040

International Students

Year	Number of semesters	Tuition fees	Additional fees	Total per year
1	2	$23,571.60	$1,570	$25,141.60
2	2	$23,571.60	$1,570	$25,141.60
			Total cost:	$50,283.20

Books and Supplies

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

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

The recommended hardware and software requirements are:

- Processor: i7
- RAM: 32GB RAM or greater
- Storage: 512 GB SSD or greater
- Video card: onboard integrated
- Screen size: 15" or greater
- Screen resolution: 1920 x 1080 or greater
- OS: Windows 10 Pro 64-bit with antivirus/malware protection

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.

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