

Approximate Fees

Total Tuition & Fees per year (including International Student Health Insurance plan) **\$15,580 (CDN)** for the 2-year pathway

This program is not eligible for SIFX graduate scholarships. Fees subject to change.

Available Courses

The Department of Computer Science offers the following graduate courses.

1. Real-Time System 3 Credits
2. High Performance Computing 3 Credits
3. Embedded Systems 3 Credits
4. Theory of Computing 3 Credits
5. Representations and Reasoning 3 Credits
6. Specification and Verification 3 Credits
7. Computational Logic 3 Credits
8. Artificial Intelligence 3 Credits
9. Matrix Computation 3 Credits
10. Data Mining and Machine Learning 3 Credits
11. Computer and Network Security 3 Credits
12. Computer Graphics 3 Credits
13. Advanced Database Systems 3 Credits
14. Constraint Processing and Heuristic Search 3 Credits
15. Big Data 3 credits
16. Advanced Data Analytics 3 Credits
17. Mobile Application Design and Development 3 Credits
18. Biomedical Computation 3 Credits
19. Evolutionary Computation 3 Credits
20. Software Engineering 3 Credits
21. Project 6 Credits
22. Computer Science Graduate Seminar 6 Credits

Students also have the option of completing one 3-credit undergraduate course in computer science or a 3-credit graduate course outside of Computer Science and count it towards their MASc with approval of the department.



ST. FRANCIS XAVIER
UNIVERSITY



ST. FRANCIS XAVIER
UNIVERSITY



MASTER OF APPLIED SCIENCE IN COMPUTER SCIENCE

A two-year, course-based program that lets you choose from courses in
**BIG DATA | MOBILE COMPUTING | COMPUTER & NETWORK SECURITY
ARTIFICIAL INTELLIGENCE | AND MANY MORE.**

Apply now to begin in September 2020.

UNIVERSITY AS IT IS MEANT TO BE

FAST FACTS

Program Type:

Master of Applied Science, Course-Based Program, 36 Credits.

Duration:

16-months to 2 years, full-time

Approximately 30 students per class.

Location:

StFX University, Antigonish, Nova Scotia, Canada.

Admissions Requirements:

4-year undergraduate degree in Computer Science or related. Minimum average of 70 (or equivalent).

Language:

IELTS 6.5 with no band below 6 or TOEFL 90.

WANT TO LEARN MORE?

If you have questions or would like to express your interest in the program, send an email to gradstudies@stfx.ca. Applications open October 15, 2019 and remain open until the September 2020 intake is full.

Get more information about coming to StFX:

The Mathematics, Statistics, and Computer Science Department: www2.mystfx.ca/mscs/

Living on Campus: www.stfx.ca/studentlife/living-residence/residence-options

Support for International Students: www.stfx.ca/international/

Why Computer Science at StFX?

StFX's Computer Science program is recognized as the top ranked program in Atlantic Canada (Maclean's Magazine October 2019). It has earned its ranking in part due to the department's field-weighted citation impact index rank, a measure of research output, for which the group is ranked first in the country.

In the Master of Applied Science in Computer Science, students take advanced courses that will equip them well for working in industry. As well as the course-based program, the department offers a thesis-based Master of Science in Computer Science and undergraduate programs, which contribute to a lively community of computer scientists working and studying together.

About StFX

One of Canada's oldest and most prestigious universities, St. Francis Xavier is consistently ranked among the best universities in Canada. St. Francis Xavier University is located in beautiful Antigonish, Nova Scotia, Canada, a 15-minute drive from the ocean and two-hour drive to major urban centres. With approximately 4,500 full-time students, you will find a vibrant and tight-knit community. StFX is a liberal arts university with a strong science faculty and the renowned Schwartz School of Business. The university counts many Canada Research Chairs and many more leaders in their respective fields. What's more, StFX students get the individualized attention they often need to succeed. Small class sizes and dedicated professors mean that students have the support they need to be successful. In addition, our thriving residence environment is at the heart of the StFX experience. Students have the opportunity to live and learn together in a lively academic environment.

Our 45,000 worldwide alumni are a strong and engaged community, and provide a valuable network for graduating students. StFX is the perfect fit for students who want to study Computer Science.

The education provided here combines the analytical and quantitative rigour needed to solve complex problems with the communication skills needed to succeed in the field of Computer Science.

Experiential Learning

One of the cornerstones of this program is the opportunity provided to students to engage in experiential learning, which will help build confidence and gain experience in the field prior to entering the workforce. The program is structured so that real-world problems are embedded throughout the program (in the Computer Science Graduate Seminar course and throughout the elective courses). Additionally, students have the opportunity to complete CSCI 591-Project, providing real-life software development experience by applying classroom learning in a real work context. In CSCI 591, students work with an industry or academic partner and develop a computing a solution to a real-world problem. Students are responsible to manage the project from development to execution to presentation to the client and final review.

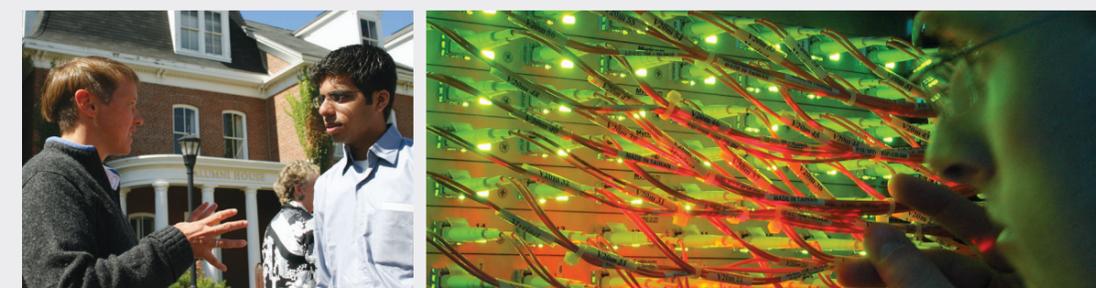
All students in the MASc begin their studies in September.

Note: Students in both the 2-year and 16-month pathway graduate in May following their last semester of courses.

Co-op Option

Students in the MASc in Computer Science can apply to complete Co-operative Education (Co-op). Co-op offers paid work experience for students interested in developing a career in various areas within computer science fields and also integrate work experience in their field of interest within their academic studies while earning 6 credits towards their MASc. Students complete professional development seminars and workshops offered through the Co-op department prior to work term placement. This will prepare students to be professional, committed for the challenges of work term placements, and ensure that good relations with employers are fostered, right from the start. Students can apply to Co-op during their first semester of the MASc. Space is limited.

8-Month placement, May to December after first year. Co-op fees apply.



The Program

The MASc in Computer Science is completed over a period of 16 months or 2 years of full-time study. The program is for students wanting to further the knowledge they gained in undergraduate study.

To complete the program, students must complete 10 or 11 courses, depending on course selection. Each course is worth the equivalent of 3 credits, with the exception of the Computer Science Graduate Seminar (a mandatory 6 credit course taken over the first two semesters of the program) taken during the first two semesters, and Project (an optional experiential project-based course), which is also worth 6 credits.

The full-time pathways are as follows:

2-YEAR PATHWAY

	YEAR 1			YEAR 2		
Semester	Fall	Winter	Spring/Summer	Fall	Winter	Spring/Summer
Dates	Sept-Dec	Jan-Apr	May-Aug	Sept-Dec	Jan-Apr	May-Aug
Credits (36)	9	9	-	9	9	-

CONDENSED 16-MONTH PATHWAY

	YEAR 1			YEAR 2		
Semester	Fall	Winter	Spring/Summer	Fall	Winter	Spring/Summer
Dates	Sept-Dec	Jan-Apr	May-Aug	Sept-Dec	Jan-Apr	May-Aug
Credits (36)	9	9	9	9	-	-