The Bachelor of Computer Science at Dalhousie University is an intensive program of study created to graduate exceptional designers and builders of new software technologies. Students, many of whom have never coded before, not only develop great programming skills, but also master core software design concepts that allow them to flourish in an ever-changing technological landscape.

Our Computer Science program allows you to customize your studies to fit your interests and personality type: from independent programmers to social butterflies to someone whose only goal is to get out into the workplace, this can be a place for you. Here at Dal, you will be an engineer of software systems: designing, building, and evaluating the performance.

**ADMISSIONS**

Here’s what we’re looking for:
- Grade 12 English
- Pre-calculus mathematics
- Three additional acceptable university-prep courses

**MINIMUM FINAL GRADES**
- English: 65%
- Mathematics: 70%
- Other subjects: 60%
- Overall average: 70%

**Ways to Tailor Your Degree**
- 5 Specializations
- Double Majors (with any of 30 subjects)
- Minors (60+ subject options)
- Honours Program
- Co-op Option
WHY STUDY COMPUTER SCIENCE AT DAL?

Dalhousie’s Faculty of Computer Science offers two undergraduate degree programs – Applied Computer Science and Computer Science – that will give you the technical know-how to navigate and succeed in our ever-changing world.

We have more computer science professors and researchers than any other university in Atlantic Canada, but don’t let our size fool you - we also have some of the smallest class sizes. Our professors are attentive and your success is important to us. Here, you won’t just read about the latest innovations – you’ll be part of making them happen.

There are many ways to take a Computer Science degree and make it your own and we have our own team of advisors dedicated to working with you to get there.

SENSE OF COMMUNITY

Our sense of community begins with the Goldberg Computer Science Building, which is a dynamic space that fosters learning and collaboration with professors and fellow students. Our atrium, coffee shop and open-concept workspaces provide natural gathering areas. Support for learning begins with our learning centre where tutors are available throughout the week and is complemented by both private and collaborative study spaces.

You can get involved in one of our two undergraduate student societies. The CS Society represents all undergraduate students within the Faculty of Computer Science and plans academic and social events. The Women in Technology Society (WiTS) started as a supportive community among the female students, but has more recently worked towards creating environments that embrace all diversity among the students. Attend any of their events or join their organizing teams.

COURSES

Courses in software development, algorithms, networking, cloud and web computing, databases, graphics, machine learning and user interface design allow students to develop areas of specialized expertise.

The focus in the Bachelor of Computer Science program is to give students the foundation to create new and innovative technologies that will shape how we use computers and interact with each other in the future.

CUSTOMIZATION

HONOURS
The Honours program provides a more challenging degree with greater rigour and more analytic content that will prepares you for graduate school. It can be combined with co-op education.

SPECIALIZATIONS
Enhance your degree by acquiring a focused expertise in one of our four specializations:

Data Science: Extract meaning from the vast amount of Big Data that exists by learning about Cloud Computing, High Performance Computing, and Data Mining.

Graphics, Gaming, and Media: Learn how to tackle problems in rendering graphics in two and three dimensions in real time.

Artificial Intelligence and Intelligent Systems: Study Web Intelligence and Artificial Intelligence with gaming applications.

Communications Technologies and Cyber Security: Study operating systems, network computing, cryptology, and network security to learn how to protect information.

Bioinformatics: Be uniquely able to design and implement solutions to challenging problems involving large-scale biological data.

CO-OP
The co-op education program is an optional component that integrates academic study with three four-month, relevant, paid work terms. Students apply what they have learned in class to real-world work environments, then apply what they have learned at work back in the classroom while earning approximately $10,000 per work term.

SHIFTKEY LABS
ShiftKey Labs offers resources, support, and opportunities to students wanting to explore what it takes to launch a technology-related start-up in a casual, risk-free environment. Our building has a free, physical space to collaborate on ideas and to learn from other lab-resident teams.
YOUR FUTURE

MORE JOBS THAN POTENTIAL EMPLOYEES

IT CAREERS HAVE BEEN IDENTIFIED AS AMONG THE TOP FIVE HOTTEST JOBS IN CANADA. Throughout North America, there’s a shortage of workers in the information technology sector. That makes this a great time to study computer science. There are far more jobs than there are potential employees, and careers in computer science have one of the highest paying starting salaries for undergrads.

HIGHEST STARTING SALARIES FOR UNDERGRADS

WHAT KINDS OF JOBS DO OUR ALUMNI HAVE?

• Software Engineers / Developers
• Web Developers
• Technical Consultants
• Entrepreneurs

COMPUTER SCIENCE AT DAL – A WORLD OF OPPORTUNITY

BECAUSE COMPUTER SCIENCE PERMEATES NEARLY ALL HUMAN ENDEAVORS FROM BUSINESS AND SCIENCE TO ENTERTAINMENT AND MEDICINE, our graduates have found work across all industry sectors from information communications technology to oceans, healthcare to gaming. Choosing Computer Science at Dal opens you up to a world of opportunity through a wide variety of career options.

dal.ca/studycomputerscience

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