Succeed in the workplace

What employers want

The Canadian Council of Chief Executives list the top 6 skills sought by employers as:
1. People skills
2. Communication skills
3. Problem-solving skills
4. Analytical abilities
5. Leadership skills
6. Industry-specific knowledge

Take the time to think about the unique skills you have developed at Queen’s, starting with the skills list here for ideas. Explaining your strengths with compelling examples will be important for applications to employers and further education. For help, check out the Career Services skills workshop.

What can I learn studying COMPUTING?

- Ability to design, develop and maintain software systems
- Oral and written communication to summarize complex ideas and present data in visual formats
- Ability to model and solve a diverse range of problems
- Critical thinking and systematic problem-solving approaches
- Proficiency in mathematics and logical computational thinking
- Resource and time management
- Project management

Why study in Kingston?

For over 175 years, the Kingston community has been a collection of bright minds. We are proud that our city was named one of the top Intelligent Communities across the globe, an accolade largely due to the thousands of students who study here every single year. In fact, the CBC has identified Kingston as one of the GREATEST UNIVERSITY TOWNS in the world, which might be why Instagram named the city ‘the happiest place on the planet’. Just a quick drive to Toronto, Montreal, Ottawa and even New York, Kingston is a safe and liveable city. Not only are we known as the freshwater sailing capital of the world, Kingston is arguably the birthplace of hockey. Wondering what to do while you’re attending school? Queen’s has more clubs per capita than any other university in Canada, and Kingston has more restaurants per capita than any other city in North America; your time here is guaranteed to be ‘fresh made daily’.

School of Computing

Get to know COMPUTING

Computer Science is one of the top degrees for careers in North America. On top of Computer Science, the Queen’s School of Computing is home to diverse areas of study such as software design, game development, biomedical computing, cognitive science, computing and mathematics, and computing and the creative arts. Offering an exciting learning experience in this ever-changing field, by fostering interaction across disciplines, Computing prepares you for countless careers and graduate degrees. The 12 to 16-month paid internship option gives students an opportunity to gain experience in industry, while earning academic credits. Our outstanding professors are both internationally recognized experts and committed educators who take pride in giving you the skills and theoretical knowledge you’ll need to excel as a computer scientist.

Queen’s ADMISSION

Students apply to Queen’s Computing (QD) through the OUAC (Ontario Universities’ Application Centre) website (ouac.on.ca). Prerequisites include English 4U, Advanced Functions 4U, and Calculus and Vectors 4U. COCA students apply to Queen’s Arts (QA) and have no math requirements. Visit queensu.ca/admission for additional information regarding requirements and admission to Queen’s.

Degree PLANS


Bachelor of Arts (Honours) Specialization in Computing and the Creative Arts Internship option available

Queen’s School of Computing

Learn, create, and discover a life enriching experience.

Course HIGHLIGHTS

Depending on your path, you will learn the fundamentals of Creative Computing, Web Development, or Game Design. As you progress in your studies, you may express yourself in Computing and the Creative Arts, develop apps in Human Computer Interaction, delve into Neural and Genetic Computing, or learn about the latest advances in Computer-Assisted Surgery. Because computing is a rapidly evolving discipline, we offer 4th-year topics courses on emerging subjects year to year such as Deep Analytics Using Watson and Innovation and Entrepreneurship.

In the FAMILY

As a member of the School of Computing, and as part of the Arts and Science family, we work in tandem to provide you with a host of options and degree plans. By working with our advisors and faculty you are able to test the waters and incorporate your passions outside of computing while still immersed in our diverse multidisciplinary offerings.

By offering more degree options in Computer Science than other institutions, our programs are able to reflect the sweeping use of Computing in all aspects of modern life.

Gain Experience. Go Global.

We’re closer than you think.

Queens University

Computing

MAJOR MAP

How to use this map

Use the 5 rows of the map to explore possibilities and plan for success in the five overlapping areas of career and academics. The map just offers suggestions – you don’t have to do it all! To make your own custom map, use the My Major Map tool.

Get started thinking about the future now – where do you want to go after your degree? Having tentative goals (like careers or grad school) while working through your degree can help with short-term decisions about courses and experiences, but also help you keep motivated for success.

Get the help you need

Queen’s provides you with a broad range of support services from your first point of contact with the university through to graduation. At Queen’s, you are never alone. We have many offices dedicated to helping you learn, think and do.

Ranging from help with academics and careers, to physical, emotional, or spiritual resources – ranging from help with academics and careers, to physical, emotional, or spiritual resources – both academically and personally, and Queen’s wants you to succeed! Check out the Student Affairs website for available resources.

School of Computing


That is a degree from Queen’s.

QUartsci.com
**Computing MAJOR MAP**

**BACHELOR OF COMPUTING (HONOURS): MAJOR, MINOR, SPECIALIZATION | BACHELOR OF ARTS (HONOURS): SPECIALIZATION**

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**GET THE COURSES YOU NEED**

Little or no programming experience? Take CISC 101 or 110, followed by CISC 121. Significant programming experience? Take CISC 121 followed by CISC 134. Take CISC 102. For additional course requirements for specialized computing programs – see the Computing Major Map Addendum for more details.

For details see the Arts and Science Academic Calendar.

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**GET RELEVANT EXPERIENCE**

Join teams or clubs on campus such as the Mostly Autonomous Sailboat Team (MAST).

Participate in Open Source Development projects. Join the Queen's ACM Programming team. See the AMS Clubs Directory or the Queen's Get Involved page for more ideas.

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**GET CONNECTED WITH THE COMMUNITY**

Volunteer on or off campus with different community organizations such as Women in the School of Computing Group. Offer your services to a non-profit organization. Organize after school programming or robotics clubs in the local elementary or secondary schools.

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**GET THINKING GLOBALLY**

Prepare for work or studies in a multi-cultural environment by taking QUC's Intercultural Competency Certificate, and research possible immigration regulations.

Speak to a QUC advisor to get involved in their programs, events, and training opportunities.

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**GET READY FOR LIFE AFTER GRADUATION**

Grappling with program decisions? Go to Majors Night or get some help wondering about career options from Career Services.

Build your transferable skills in time management, organization, writing and more with Student Academic Success Services.

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**1ST YEAR**

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**2ND YEAR**

Course requirements vary by specialization. Specializations and options include Computer Science, Biomedical Computing, Cognitive Science, Software Design, Game Development, Computing and the Creative Arts, and Computing and Math. For more information, check out the Computing Major Map Addendum.

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**3RD YEAR**

Need help mapping all of your core, option, supporting and elective courses (including those not listed above) to make sure you will have what you need to complete your degree? Use the Course Mapping Tool on the Arts and Science website.

As your courses become more complex, learn to think, read and write more critically with Student Academic Success Services.

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**4TH OR FINAL YEAR**

With the exception of those in the internship program, all students complete a final year project.

By fourth year you should be working on your remaining core, option, and elective courses. Make sure to map your minor and / or certificate(s) as well.

Apply to graduate in SOLUS.

Investigate requirements for full-time jobs or other opportunities related to careers of interest.

Assess what experience you’re lacking and fill in gaps with volunteering, clubs, or internships – check out the Career Services skills workshop for help.

Consider joining professional associations like the Canadian Information Processing Society, IEEE Computer Society, and the Association for Computing Machinery (ACM).

Join groups on LinkedIn reflecting specific careers or topics of interest in Computing.

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**Where could I go after graduation?**

**3D animator**

Biomedical computing

Biotechnician

Communications

Computer programmer

Cryptographer

Data analyst

Data mining and processing

Database administrator

Educator

Game development/design

Graphic artist

Library

Linguist

Marketing

Medical applications technician

Medicine

Pharmaceutical researcher

Project manager

Research

Robotics

Security

Social and digital media specialist/advisor

Software architect

Software developer

Software tester

Sound designer

Systems analyst

Web developer

Some careers may require additional training.

Visit careers.queensu.ca/majormaps.html for the online version with links!