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 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
- Entrepreneurship and innovation

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. Our 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 (QC) through the OUAC (Ontario Universities Application Centre) website (ouac.on.ca). Prerequisites include English 4U, Advanced Functions 4U, Calculus and Vectors 4U, and Calculus and Vectors 4U. COCA students apply to Queen’s Arts (QA) and have no math requirements.

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.

School of Computing

“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.”

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.

Queen’s School of Computing

Learn, create, and discover a life enriching experience.

Degree OPTIONS

Bachelor of Computing (Honours)
- Major in Computing
- Specialization in Biomedical Computing
- Cognitive Science
- Computer Science
- Computing and Mathematics
- Software Design
- Software Development Option
- Game Development Option

Bachelor of Arts (Honours)
- Specialization in Computing and the Creative Arts (COCA)

Bachelor of Computing (General)
Bachelor of Arts (General)
Internship option available


quartsSci.com
GET THE COURSES YOU NEED

1ST YEAR
Little or no programming experience? Take CISC 101 or 110, followed by CISC 121. Significant programming experience? Take CISC 121 followed by CISC 124. Take CISC 102. For additional course requirements for specialized computing programs — see Computing Major Map Addendum for more details.

For details see the Arts and Science Academic Calendar.

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.

Want to enhance your degree? Consider a certificate in Media Studies or explore other certificates available.

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.

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.

GET RELEVANT EXPERIENCE

Join teams or clubs on campus such as Queen’s Game Developers Club, and 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.

GET CONNECTED WITH THE COMMUNITY

Volunteer on or off campus with different community organizations such as Women in the School of Computing Group and Code the Change: Queen’s Chapter.

Offer your services to a non-profit organization. Organize after school programming or robotics clubs in the local elementary or secondary schools.

GET THINKING глобально

The Queen’s University International Centre is your first stop to learn how to internationalize your degree or to leverage your existing cross-cultural experience.

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

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 transferrable skills in time management, organization, writing and more with Student Academic Success Services.

Explore careers of interest by reading books in the Career Servies Information Area, such as Careers in High Tech. For more information check out Career Cruising or by finding and connecting with alumni on LinkedIn.

Start focusing on areas of interest. Research education requirements for careers of interest. If needed, prepare to take any required tests (like the MCAT or GMAT) and get help thinking about grad school from Career Services.

Consider joining professional associations like 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.

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.

Prepare for work or studies in a multi-cultural environment by taking QUIC’s Intercultural Competency Certificates, and research possible immigration regulations.

International students interested in staying in Canada can speak with an International Student Advisor.

Where could I go after graduation?

3D animator
Biomedical computing
Biotecnichian
Communications
Computer programmer
Crytographer
Data analyst
Data mining and processing
Database administrator
Educator
Game development/design
Graphic artist
Human-Computer interface designer
Information architect
Lawyer
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!