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.

Degree PLANS
Bachelor of Computing (Honours)
Major / Minor in Computing / Specialization in Biomedical Computing, Cognitive Science, Computer Science, Computing and Mathematics, Software Design (Software Development Option or Game Development Option)
Bachelor of Arts (Honours)
Specialization in Computing and the Creative Arts Internship option available

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.

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.
### 1st Year

**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.

**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.

**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.

**GET THINKING GLOBALLY**

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

- Speak to a QICSI advisor to 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 transferable skills in time management, organization, writing and more with Student Academic Success Services.

### 2nd Year

**GET THE COURSES YOU NEED**

- 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.

**GET RELEVANT EXPERIENCE**

- Talk to the School and their faculty about research opportunities through Undergraduate Summer Research Assistantships (NSERC/OGRA).

- Look into summer jobs by talking to the dept. or Career Services about work through SEFP or Work-Study. Join the COMPSA Site Services team to develop websites. Be a COMPSA tutor.

**GET CONNECTED WITH THE COMMUNITY**

- Get involved with the Computing Students Association (COMPSA). Consider volunteering with initiatives such as high school programming competitions, Hour of Code, or local FIRST Robotic teams. Consider entrepreneurial opportunities via programs like the Queen's Innovation Connector Summer Initiative (QICS).

**GET THINKING GLOBALLY**

- Is an exchange in your future? Start thinking about where you would like to study abroad. Apply in January for a 3rd year exchange through the International Programs Office.

**GET READY FOR LIFE AFTER GRADUATION**

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

### 3rd Year

**GET THE COURSES YOU NEED**

- 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.

**GET RELEVANT EXPERIENCE**

- Stay during the summer as an assistant to a faculty member. Consider applying to the 12-16 month Queen's Undergraduate Internship Program through Career Services. Consult the School's FAQ and consider applying.

**GET CONNECTED WITH THE COMMUNITY**

- Connect with professors at events or workshops hosted by the School, COMPSA and WISC. Connect with alumni by joining the LinkedIn group Queen's Connects. Attend conferences like the Canadian Celebration of Women in Computing (CAN-CWC).

**GET THINKING GLOBALLY**

- Build your intercultural competence by getting involved with other cultures or by practicing or improving your language skills.

**GET READY FOR LIFE AFTER GRADUATION**

- 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.

### 4th or Final Year

**GET THE COURSES YOU NEED**

- 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 READY FOR LIFE AFTER GRADUATION**

- 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 Canadian Information Processing Society, IEEE Computer Society, and the Association for Computing Machinery (ACM).

**GET RELEVANT EXPERIENCE**

- 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.

- 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.

**GET THINKING GLOBALLY**

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

**GET READY FOR LIFE AFTER GRADUATION**

- Apply to jobs or future education, or make plans for other adventures. Get help from Career Services with job searching, resumes, interviews, grad school applications, or other decisions.

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*This map is intended to provide suggestions for potential activities and career paths, but everyone's abilities, experience, and constraints are different. Build your own map using our online My Major Map tool.*

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

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.

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 BBC 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’.

Succeed in the workplace

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 – our welcoming living and learning environment offers the programs and services you need to be successful, both academically and personally, and Queen’s wants you to succeed! Check out the Student Affairs website for available resources.

We’re closer than you think