Get to know COMPUTING

Computing Science is one of the top degrees for careers in North America. The Queen’s School of Computing is home to diverse areas of study such as computer science, 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 ADMISSIONS

Students apply to Queen’s Computing through the OUAC (Ontario University Application Centre) website with code (QD). Prerequisites include 4U Advanced Functions, Calculus and Vectors, and English or equivalents. 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 Computer Animation, Web and Mobile Applications, and 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 topics courses on emerging subjects such as Deep Analytics Using Watson and Innovation and Entrepreneurship.

“In 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 & 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)
Specialization in Biomedical Computing, Cognitive Science, Computer Science, Computing and Mathematics, Software Design, (Software Development Option, or Game Development Option); Major
Bachelor of Arts (Honours)
Specialization in Computing and the Creative Arts (COCA)
Bachelor of Computing (General)
Bachelor of Arts (General)

That is a degree from Queen’s.
quartsci.com
Caution: *This map is meant as a guide to provide suggestions throughout your university career. The activities, resources, and careers mentioned are possibilities - you are not restricted to them and you don’t have to follow this exact timeline. Every person (including you!) will find their own unique path through their degree at Queen’s and beyond.

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

How to use this map
• Got questions about careers and classes?
• Feeling a little lost or overwhelmed by choices?
• Wondering what you are “supposed” to be doing?

Use this map to plan for success in five overlapping areas of career and academic life. Each map helps you explore possibilities, set goals and track your accomplishments. To make your own custom map, use the My Major Map tool.

Don’t stress if you haven’t done all of the suggested activities. The map is not a prescription – it’s a tool for finding your own way at Queen’s.

Getting what you need to succeed in the workplace

WHAT DO EMPLOYERS WANT?
In a recent survey from the Canadian Council of Chief Executives the top 6 skills sought by employers were:
1. People skills
2. Communication skills
3. Problem-solving skills
4. Analytical abilities
5. Leadership skills
6. Industry-specific knowledge

HOW DO I GET THE SKILLS I NEED?
It is important to develop a balanced skill set – many of which you will develop during your studies. To stand out, take advantage of experiential learning through the multitude of clubs and activities in and around Queen’s. Check out the Get Relevant Experience section of this map.

WHAT CAN I LEARN STUDYING COMPUTING AT QUEEN’S?
• Ability to design, develop and maintain software systems
• Oral and written communication - 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

WHAT MAKES ME SPECIAL?
No one will get exactly the same experience as you. Take the time to think about what skills you have developed to be able to best explain them with compelling examples in future applications to employers and further education. For help with this, check out the Career Services skills workshop.

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