Computer science is one of the top degrees in North America in terms of career opportunities. That’s a good reason to study it – but it’s not the only reason. It is also one of the most exciting and diverse subjects of study today, particularly at the Queen’s School of Computing. Whether you’re interested in software design, artificial intelligence, game development, or biomedical computation, we can offer you a vast range of courses to fit your interests – and that’s only scratching the surface. Combine a Computing Major with a Minor in another discipline or take one of our more focused Specializations. The combinations are endless and will prepare you for today’s fast-paced digital world, no matter what career you choose.

Susan Bartlett is a Queen’s University alumna with a BSc in Software Design and a BA in English Literature. Through skills honed at Queen’s, Susan leads teams of designers, researchers, and business strategists to deliver innovative solutions at Bridgeable. She is passionate about understanding the complex interactions people have with the world around them.

Our alumni go on to work for...

- ADOBE
- AMAZON
- APPLE
- CBC/RADIO-CANADA
- CISCO SYSTEMS
- ELECTRONIC ARTS
- FACEBOOK
- GOOGLE
- IBM
- MICROSOFT
- NASA
- ORACLE
- SICKKIDS HOSPITAL
- STATISTICS CANADA
- SYMANTEC
- TORONTO-DOMINION BANK

Thresholds are made on a competitive basis and are updated annually. To see the thresholds for all programs as well as the latest information, please visit quartsci.com/planselection

add a CERTIFICATE to your degree
- Data Analytics
- Disability and Physical Activity
- Employment Relations
- Entrepreneurship, Innovation and Creativity
- French for Professionals
- Geographic Information Science
- Global Action and Engagement
- Indigenous Languages and Cultures
- International Studies
- Media Studies
- Sexual and Gender Diversity
- Urban Planning Studies
- quartsci.com/certs

That is a degree from Queen’s.


cs.queensu.ca
BACHELOR OF COMPUTING (HONOURS): MAJOR, MINOR, SPECIALIZATION

Computing 2021-2022

GRADUATION FOR LIFE AFTER
GET READY
GET THINKING
COMMUNITY
WITH THE
GET CONNECTED

YOU NEED
Visit careers.queensu.ca/majormaps for the online version with links! * This map is intended to provide suggestions for activities and careers, but everyone's abilities, experiences, and constraints are different. Build your own Major Map using our online My Major Map tool.

1ST YEAR
First year is a good time to consider which area of computer science you would like to study, while learning the foundations of computer science and taking electives. We offer 8 main pathways to a Computing degree (or BA in the case of Computing and the Creative Arts).

Attend Majors Night in the Winter term to learn more about which path is right for you.

GET RELEVANT EXPERIENCE
Join teams or clubs on campus such as the Queen's Autonomous Sailboat Team (QOST). 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 Queen's Women in Computing (QWiC). Offer your services to a non-profit organization. Organize after school programming or robotics clubs in the local elementary or secondary school.

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

Speak to a QUIC 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
Start going deeper into the discipline of computer science, while considering a minor and/or certificate such as Entrepreneurship, Innovation and Creativity. Attend Degree + in the Fall term to learn more about Certificates and Internship options.

Want to make sure your academics are where you want them to be? Visit SASS (Student Academic Support Services) and the Writing Centre for some help.

GET RELEVANT EXPERIENCE
Talk to the School and their faculty about research opportunities through Undergraduate Summer Research Assistantships (NSERC USRA). Look into summer jobs by talking to the dept. or Career Services about work through SWEP 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 third year exchange through the International Programs Office.

GET READY FOR LIFE AFTER GRADUATION
Explore careers of interest 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
A chance to start grouping courses in areas of interest. This is where you will begin to dive deeper into your chosen area of computer science. Meet with an Academic Advisor to make sure you are on track to complete your degree plan and have planned out your courses for next year.

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 QWiC. 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
In fourth year you will have the chance to participate in research-based courses that can lead to Graduate School or to your future career path. Make sure to finish up all your courses for your major and your optional minor and/or certificate(s).

GET RELEVANT EXPERIENCE
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.

GET CONNECTED WITH THE COMMUNITY
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.

What will I learn?
A degree in Computing can equip you with:
- 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

Where can I go?
A degree in Computing can take your career in many directions. Many students choose to continue their academic inquiry with a Master’s. Our students are equipped with a strong foundation for careers in:
- 3D animation
- Artificial intelligence
- Biotech
- Computer programming
- Computing and the creative arts
- Cognitive science
- Cryptography and cybersecurity
- Data analytics
- Database administration
- Game development/design
- Software architecture
- Software development
- Software testing
- Systems administration
- Web development
- and much more!

Taking time to explore career options, build experience and network can help you have a smooth transition to the world of work after graduation.

The coronavirus pandemic may impact how some activities are delivered in 2021-2022. Please check directly with the host of any activity on the map for the latest information.

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Computing

MAJOR MAP

Why study in Kingston?
For 175 years, our community has been more than a collection of bright minds – Queen’s has attracted students with an ambitious spirit. Queen’s has the highest retention rates, the highest graduation rates, and one of the highest employment rates among recent graduates. We are a research intensive university focused on the undergraduate experience. The BBC has identified us as one of the GREATEST UNIVERSITY TOWNS in the world – and is often awarded the safest city in Canada. We are a university city at the core; just a quick drive to Toronto, Montreal, Ottawa and even New York. A university with more clubs per capita than any other university in Canada, and a city with more restaurants per capita than any other city in North America – you will have the experience of a lifetime at Queen’s – and graduate with a degree that is globally recognized among the best.

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 – 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.

Why study in quip?
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