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.

**TOP 5 REASONS to study COMPUTING**

1. **Computing is one of the top degrees for career opportunities in North America.**
2. **Learn from outstanding professors who are internationally recognized experts and committed educators.**
3. **Gain the skills and theoretical knowledge you’ll need to excel as a computer scientist.**
4. **Take courses which reflect the sweeping uses of computing in all aspects of modern life.**
5. **Test the waters and explore your passions outside of computing while still immersed in our diverse multidisciplinary offerings.**

**ALUMNI JOBS**

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

**2020-21 major thresholds**

**2.6 cGPA**

AUTOMATIC ACCEPTANCE

min B in CISC 12#

**2.3 cGPA**

PENDING LIST

min B- in CISC 12#

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

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.

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BACHELOR OF COMPUTING (HONOURS): MAJOR, MINOR, SPECIALIZATION

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.

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.

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 THE COURSES YOU NEED

Join teams or clubs on campus such as the Queen’s Autonomous Sailboat Team (QAST).

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 RELEVANT EXPERIENCE

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 schools.

GET CONNECTED WITH THE COMMUNITY

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 THINKING GLOBALLY

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.

GET READY FOR LIFE AFTER GRADUATION

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.

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.

Visit careers.queensu.ca/majormaps for the online version with links!
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2nd YEAR

Consider applying to the 12-16 month Queen's Undergraduate Internship Program through Career Services. Consult the School's FAQs and consider applying.

3rd YEAR

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.

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).

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

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.

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

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.

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
- Cryptography
- Data analytics
- Database administration
- Game development/design
- Graphic arts
- Information/software architecture
- Robotics
- Software development
- Software testing
- Sound design
- 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.

* 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.
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.

SCHOOL OF COMPUTING
Faculty of Arts and Science
Goodwin Hall
25 Union Street
613-533-6050
cs.queensu.ca

QUEEN’S UNDERGRADUATE INTERNSHIP PROGRAM

START DATES
in May, September, or January

POSITIONS
are paid and full-time

WORK TERMS
are 12-16 months long

PROGRAM OVERVIEW
• Graduate with “Professional Internship” on your degree.
• Learn about current advances, practices and technologies in business and industry.
• Test drive a career, earn a competitive salary, and get real world experience.

ELIGIBILITY
• 2nd or 3rd Year Students
• Minimum GPA of 1.9

WHY QUIP?
• Gain a year of career-related work experience.
• Build network connections.
• Receive support from Queen’s staff in job search and during internship.

SAMPLE PAST INTERNSHIPS

For more information, contact quip@queensu.ca or visit the Program Website.

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