The School of Computing offers several degree options in our Computing Major to provide flexibility to choose from more specialized areas within computing or to minor in another discipline. Our Specializations (SSP) offer highly focused programs in one or more areas. Choose the path that’s right for you!

Karen Knight is our Undergraduate Program Assistant and she’s here to help you.

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(613) 533-6782

What can I do when I graduate?
▪ Gaming and entertainment industry
▪ Art galleries and museums
▪ Social Media
▪ Surface (wearable technology)
▪ New Media Art
▪ Multimedia design
▪ Art software development

What can I do when I graduate?
▪ Medicine
▪ Dentistry
▪ Biotechnician
▪ Medical application programmer
▪ Medical or pharmaceutical researcher
▪ Neuroscience
▪ Pharmacology

The Biomedical Computation option of the Computing Major combines the problem-solving capabilities of computer science with the most advanced techniques of the life sciences, resulting in endless possibilities for improving health care. This option is suitable for many careers, including medicine and medical research. Interested students may also want to consider our Biomedical Computing Specialization.

The Data Analytics option of the Computing Major offers new way of understanding complex systems by building computational models that are consistent with the observed data about those system and is a critical component of the operation of businesses and governments, as well as important research tools. This is a good option for students looking to build applications such as surveillance, fraud detection, effective investment decisions, recommending shows on platforms like Netflix, detecting cyber-intrusions or financial fraud, and much more.

What can I do when I graduate?
▪ Data Scientist
▪ Banking
▪ Commerce and retail
▪ Pharmaceuticals
▪ Education
▪ Consumer market research

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The Fundamental Computation option of the Computing Major explores the science and principles that underlie all of computing and is our most flexible offering. Students receive broad training in the core subject areas with the opportunity to choose courses from many different areas within computing. This is a great option for students who wish to explore the diversity of computing.

What can I do when I graduate?
- Computer programmer
- Data mining and processing
- Database administrator
- Information architect
- Project manager
- Software architect
- Systems analyst
- Graphics and game development

The Software Design Specialization is for those determined to push the boundaries of computer systems beyond their current limits. Mentored in the art and science of computer software architecture, analysis, and evaluation by experts, our graduates become the software architects, graphics and game developers, designers and entrepreneurs who drive the software revolution.

What can I do when I graduate?
- Software developer
- Software tester
- Software architect
- Mobile app developer
- Web developer
- Systems analyst
- Graphics and game development

The Game Development option of the Computing Major introduces students to the fundamentals of game design and development. The development of video games involves some of the most challenging and interesting areas of computer science, including topics as diverse as artificial intelligence, graphics, and human-computer interaction. This is a great option for students who wish to become part of this universal cultural phenomenon, contributing to everything from entertainment to social interaction, education, and artistic expression.

What can I do when I graduate?
- Game designer
- Game developer
- Game engine developer
- Video game tester

COMPSA is the Computing student government, run by a group of highly motivated students who bring students together with various events and opportunities. As a student, you’re encouraged to get involved with their social events, workshops, tutorials, and information sessions.

Queens Women In Computing (QWIC) is an ACM-W Chapter group that provides support, social and networking opportunities for our female students, faculty and staff.

Research
The School of Computing has one of the largest research programs in all of Queen’s with an eminent research record. Undergraduate students are encouraged to apply for an Undergraduate Research Fellowship (UGRF) of up to $1500 per year, which allows them to get a taste of research and even get their research published, all while earning some money over the summer months.

Internships
Queen’s internship option, unlike other co-op programs, provides more opportunities to students with several work terms instead, it offers 12- to 16-month industrial placements after second or third year through the Queen’s Undergraduate Internship Program (QUIP). These longer work terms result in employers who are willing to invest in training and supporting their interns, which regularly participate in significant projects with many of Canada’s leading computer companies, making a notable contribution, and often returning for more internships after graduation.

Internships
Queen’s Computing proud to have one of the highest percentages of women in undergraduate computing in Canada. Our inclusive, cooperative culture provides an excellent environment to learn and succeed. Queen’s Computing is a member of the ACM-W and Women in Computing (WIC) and the ACM-W Chapter group. For more information on Queen’s Computing opportunities for our female students, faculty and staff.