SOFTWARE DESIGN
Specialization, Bachelor of Computing (Honours)  degree PLAN

Sample Year by Year

1ST YEAR
- CISC 121/3.0
- CISC 124/3.0
- 6.0 units from (CISC 102/3.0 and MATH 112/3.0) or (CISC 102/3.0 and MATH 111/6.0) or MATH 110/6.0
- 6.0 units from MATH 120/6.0, MATH 121/6.0, or (MATH 123/3.0 and MATH 124/3.0)
- 12.0 units of electives

2ND YEAR
- STAT 263/3.0 or 3.0 units from STAT_Options
- CISC 203/3.0
- CISC 204/3.0
- CISC 220/3.0
- CISC 221/3.0
- CISC 223/3.0
- CISC 225/0.0
- CISC 360/3.0
- 6.0 units of SODE Options (Game Development or Software Development)

3RD YEAR
- CISC 324/3.0
- CISC 325/3.0
- CISC 327/3.0
- CISC 365/3.0
- 18.0 units of SODE Options

4TH YEAR
- CISC 423/3.0
- CISC 422/3.0
- CISC 497/3.0
- 21.0 units of SODE Options

Note that degree requirements are revised regularly. The most current requirements, including course lists and options, are found in the Academic Calendar at: Quarts.com/academic-calendar

The School of Computing's Software Design program is for those destined to push the capabilities of computer systems beyond their current limits. Mentored in the art and science of computer software architecture, analysis, and evolution by experts in Ultra-Large Scale Software Systems and Gaming research, our graduates become the software architects, graphics and game developers, designers and entrepreneurs who drive the software revolution.

The 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.

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.

ALUMNI JOBS
- 9% of alumni work in Pharmaceuticals
- 15% of alumni work in Insurance
- 18% of alumni work in Banking & Investment
- 21% of alumni work in Education

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2018-19 thresholds
- 2.6 CGPA Automatic Acceptance
- 2.3 CGPA Pending List

*Thresholds are made on a competitive basis and are updated annually. For the latest information please visit: Quarts.com

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SCHOOL OF COMPUTING
Faculty of Arts and Science
Goodwin Hall
21 Union Street
613-533-6050
cs.queensu.ca
GET THE COURSES YOU NEED
In first year you will have the chance to explore the foundations of Computing along with some electives. See the back page for specific courses to consider. Attend Majors Night in the Winter term to learn more about plan options.

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 QUCIC’s Intercultural Competency Certificate and research possible immigration regulations. Speak to a QUCIC 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 Support Services.

2ND YEAR
Start going deeper into the discipline of Software Design, while considering a minor and/or certificate such as Media Studies. Attend Degree 2 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, or to keep it more general and explore many areas of Software Design. Meet with an Academic Advisor to make sure you are on track and have planned out your courses for next year — for some ideas, see the back page.

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 your future career path. Make sure to finish up all your courses for your degree and your optional certificate(s).

What will I learn?
A degree in Computing can equip you with valuable and versatile skills such as:
- 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 animator
- Biomedical computing
- Biotechnician
- Computer programmer
- Cryptographer
- Database administrator
- Game development/design
- Graphic artist
- Information architect
- Robotics
- Software architect
- Software developer
- Software tester
- Sound designer
- Systems analyst
- Web developer

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