

COMPUTING

Departmental Notes

Subject Code for Biomedical Computing: **BMCO**
Subject Code for Cognitive Science: **COGS**
Subject Code for Computer Science: **CSCI**
Subject Code for Computing: **COMP**
Subject Code for Computing and Information Science: **CISC**
Subject Code for Computing, Mathematics and Analytics: **COMA**
Subject Code for Computing and the Creative Arts: **COCA**
Subject Code for Software Design: **SODe**
World Wide Web Address: www.cs.queensu.ca (<http://www.cs.queensu.ca/>)

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Overview

The School of Computing offers many broad, flexible Plans, each providing you with a solid foundation in the science and principles of computing. Theory and application are balanced as you put your knowledge to work under the guidance of award-winning researchers. Choose from a Computing-specialist Plan (Computer Science (<https://queensu-ca-public.courseleaf.com/arts-science/schools-departments-programs/computing/computer-science-specialization-computing-bc-honours/>), Software Design (<https://queensu-ca-public.courseleaf.com/arts-science/schools-departments-programs/computing/software-design-specialization-computing-bc-honours/>)), a multi-disciplinary Plan (Biomedical Computing (<https://queensu-ca-public.courseleaf.com/arts-science/schools-departments-programs/computing/biomedical-computing-specialization-computing-bc-honours/>), Cognitive Science (<https://queensu-ca-public.courseleaf.com/arts-science/schools-departments-programs/computing/cognitive-science-specialization-computing-bc-honours/>), Computing and the Creative Arts ([\[schools-departments-programs/computing/creative-arts-specialization-arts-ba-honours/\]\(https://queensu-ca-public.courseleaf.com/arts-science/schools-departments-programs/computing/creative-arts-specialization-arts-ba-honours/\)\), Computing and Mathematics \(<https://queensu-ca-public.courseleaf.com/arts-science/schools-departments-programs/computing/computing-mathematics-analytics-specialization-computing-bc-honours/>\)\), or design your own program by incorporating a Major or Minor Plan in Computing with another Plan in the Creative Arts, Humanities, Languages, Social Sciences, or Natural and Physical Sciences.](https://queensu-ca-public.courseleaf.com/arts-science/</p></div><div data-bbox=)

Advice to Students

Students should seek academic advising by emailing advising@cs.queensu.ca. Please remember to send your questions from your Queen's email account with your student number included.

Introductory Courses

Introductory Courses. Students considering pursuing any Plan offered through the School of Computing must take CISC 102 Discrete Mathematics for Computing I or MATH 110 Linear Algebra. Students without programming experience should take either CISC 101 Elements of Computing Science or CISC 110 Creative Computing or CISC 151 before CISC 121 Introduction to Computing Science I.

Special Study Opportunities Computing Facilities

Undergraduates in the School of Computing can take advantage of over 20 research labs such as labs for Big-data Analytics and Management, Computational Genomics, Collaborative Gaming Technology, Percutaneous Surgery, Medical Informatics, Robotics, Modeling and Analysis in Software Engineering, Reliable Software Technology, Smart Information Management, Software Analysis and Intelligence, and Telecommunications. Through the School's network of labs, students access leading software such as Unity and Matlab. Our hosted cloud services give students a platform to learn industry-leading technologies like managing virtual hosts and collaborative development using Gitlab.

Professional Internship Program

Qualified students in any of the Plans leading to a Bachelor of Computing (Honours) degree may register in a 12- or 16-month Professional Internship program for their degree. Students who meet the minimum GPA requirement of 1.90 in at least 54.00 units and no more than 90.00 units must seek approval of the Chair of Undergraduate Studies in the School of Computing. These students have the opportunity to pursue a 12- or 16-month paid work term in a career-



related position after completing their second or third year of study. Upon successful completion of the internship program, students' transcripts will be annotated with a statement certifying that they have completed their degree with a Professional Internship.

The requirements for the Professional Internship versions of the B.Cmp.(Hons.) degrees are the same as the standard versions of these degree programs except for the following change.

The project course normally required in the Plan (i.e. CISC 496 or CISC 498 or CISC 499 or COGS 499) is replaced by (for a 12-month internship) the courses COMP 390 and COMP 391, or COMP 390 and COMP 392, or COMP 393, COMP 391 and COMP 392. In the case of a 16-month internship, they are replaced by COMP 390, COMP 391 and COMP 392. The unit requirements for the Professional Internship versions of B.Cmp.(Hons.) degrees are increased accordingly.

In all cases the internship report documents how the internship work has satisfied the requirements for a conventional CISC 496 or CISC 498 or CISC 499 or COGS 499 project.