

## Computing

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### 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 and Mathematics* COMA  
*Subject Code for Computing and the Creative Arts* COCA  
*Subject Code for Software Design* SODE  
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*School Telephone* 613-533-6050  
*School E-Mail Address* [inquiries@cs.queensu.ca](mailto:inquiries@cs.queensu.ca)  
*Chair of Undergraduate Studies* J.Dingel  
*Coordinator of Graduate Studies* J.Stewart

### 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, Software Design), a multi-disciplinary Plan (Biomedical Computing, Cognitive Science, Computing and the Creative Arts, Computing and Mathematics), 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.

### Advice to Students

Students should seek **academic counseling** from one of the counselors listed below

SUBJECT CODE	COUNSELOR	CONTACT INFORMATION
BMCO	<b><u>Department of Biomedical and Molecular Sciences</u></b> P.Davies G.Jones	<a href="mailto:daviesp@queensu.ca">daviesp@queensu.ca</a> <a href="mailto:gj1@queensu.ca">gj1@queensu.ca</a>
	<b><u>School of Computing</u></b> R. Ellis (Goodwin Hall 737)	<a href="mailto:ellis@cs.queensu.ca">ellis@cs.queensu.ca</a>
	<b><u>Life Sciences</u></b> G. Blohm	<a href="mailto:Gunnar.Blohm@queensu.ca">Gunnar.Blohm@queensu.ca</a>
COGS	<b><u>School of Computing</u></b> F. Zulkernine (Goodwin Hall 754)	<a href="mailto:farhana@cs.queensu.ca">farhana@cs.queensu.ca</a>
	<b><u>Linguistics Program</u></b> C. Reinholtz	<a href="mailto:cr19@queensu.ca">cr19@queensu.ca</a>
	<b><u>Department of Philosophy</u></b> N. Salay	<a href="mailto:salay@queensu.ca">salay@queensu.ca</a>
	D. Wilson (Humphrey Hall 347)	<a href="mailto:daryl.wilson@queensu.ca">daryl.wilson@queensu.ca</a>
COCA	<b><u>Department of Art History and Art Conservation</u></b> C. Hoeniger (Ontario Hall 211)	<a href="mailto:hoeniger@queensu.ca">hoeniger@queensu.ca</a>
	<b><u>School of Computing</u></b> R. Vertegaal (Jackson Hall, 3 <sup>rd</sup> Floor HML Lab)	<a href="mailto:roel@cs.queensu.ca">roel@cs.queensu.ca</a>
	<b><u>Dan School of Drama and Music</u></b> J. Stephenson (Theological Hall 108B)	<a href="mailto:Jenn.Stephenson@queensu.ca">Jenn.Stephenson@queensu.ca</a>
	C. Marvin (Harrison-LeCaine Hall 307)	<a href="mailto:ckm1@queensu.ca">ckm1@queensu.ca</a>
	<b><u>Department of Film and Media</u></b> G. Kibbins (160 Stuart St)	<a href="mailto:gk6@queensu.ca">gk6@queensu.ca</a>

<b>COMA</b>	<b><u>Department of Mathematics and Statistics</u></b> A. Ableson (Jeffery Hall 205) <b><u>School of Computing</u></b> D. Rappaport (Goodwin Hall 532)	<a href="mailto:ableson@queensu.ca">ableson@queensu.ca</a> <a href="mailto:daver@cs.queensu.ca">daver@cs.queensu.ca</a>
<b>COMP</b>	<b><u>School of Computing</u></b> J. Dingel	<a href="mailto:dingel@cs.queensu.ca">dingel@cs.queensu.ca</a>
<b>CSCI</b>	<b><u>School of Computing</u></b> J. Dingel	<a href="mailto:dingel@cs.queensu.ca">dingel@cs.queensu.ca</a>
<b>SODE</b>	<b><u>School of Computing</u></b> M. Zulkerine (Goodwin Hall 535)	<a href="mailto:mzulker@cs.queensu.ca">mzulker@cs.queensu.ca</a>

### Introductory Courses

Students considering pursuing any Plan offered through the School of Computing must take CISC 102/3.0 or MATH 110/3.0. Students without programming experience should take either CISC 101/3.0 or CISC 110/3.0 before CISC 121/3.0. (Students entering CISC 121/3.0 should normally be familiar with variables, iteration, conditionals, functions, procedures, parameters, scope, and arrays.) Students with considerable programming experience may be allowed to take CISC 121/3.0 and CISC 124/3.0 concurrently, or to substitute a more advanced course for CISC 121/3.0; consult the instructor of CISC 124/3.0.

### **Special Study Opportunities**

#### Computing Facilities

There are Windows and Unix (Sun Solaris and Ubuntu Linux) laboratories available for undergraduate teaching. First-year students have access to 100 PCs in Jeffrey Hall, Rooms 155 and 157, and 26 PCs with additional work areas in Walter Light Hall, Room 310. Upper-year courses are also supported by a Linux virtual laboratory and 25 PCs with work spaces in Goodwin Hall, Room 248. When required, students have access to School laptops and their own Linux virtual machines for development work.

#### 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 54.0 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 496/3.0 or CISC 498/6.0 or CISC 499/3.0 or COGS 499/3.0) is replaced by (for a 12-month internship) the courses COMP 390/6.0 and COMP 391/3.0, or COMP 390/6.0 and COMP 392/3.0, or COMP 393/3.0, COMP 391/3.0 and COMP 392/3.0. In the case of a 16-month internship, they are replaced by COMP 390/6.0, COMP 391/3.0 and COMP 392/3.0. 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 496/3.0 or CISC 498/6.0 or CISC 499/3.0 or COGS 499/3.0 project.