



<p><b>1.0 Degree Title</b> Please specify the two degrees for concurrent degree programs</p> <input type="text" value="B.A. &amp; Sc."/>	<p><b>2.0 Administering Faculty/Unit</b></p> <input type="text" value="Science"/>
<p><b>1.1 Major (Legacy= Subject)(30-char. max.)</b></p> <input type="text"/>	<p><b>Offering Faculty/Department</b></p> <input type="text" value="Science/School of Computer Science"/>
<p><b>1.2 Concentration (Legacy = Concentration/Option)</b> If applicable to Majors only (30 char. max.)</p> <input type="text" value="Computer Science"/>	<p><b>3.0 Effective Term of Implementation</b> (Ex. Sept. 2004 = 200409) Term</p> <input type="text" value="200709"/>
<p><b>1.3 Minor (with Concentration, if Applicable) (30 char. max.)</b></p> <input type="text"/>	

**4.0 Rationale for new proposal**

The School of Computer Science is currently revising all its programs. Currently, the only program the School offers for the BA&Sc is the Major Concentration in Foundations in Computer Science. However, this concentration only covers the more theoretical courses that the School offers. The new Major Concentration in Computer Science will provide a broader introduction to computer science, and thus will provide a more well-rounded education.

**5.0 Program Information**  
Please check appropriate box(es)

<p><b>5.1 Program Type</b></p> <input checked="" type="checkbox"/> Bachelor's Program <input type="checkbox"/> Master's <input type="checkbox"/> M.Sc. (Applied) Program <input type="checkbox"/> Dual Degree/Concurrent Program <input type="checkbox"/> Certificate <input type="checkbox"/> Diploma <input type="checkbox"/> Graduate Certificate <input type="checkbox"/> Graduate Diploma <input type="checkbox"/> Ph.D. Program <input type="checkbox"/> Doctorate Program (Other than Ph.D.) <input type="checkbox"/> Private Program <input type="checkbox"/> Off-Campus Program <input type="checkbox"/> Distance Education Program (By Correspondence) <input type="checkbox"/> Other (Please specify) <input type="text"/>	<p><b>5.2 Category</b></p> <input type="checkbox"/> Faculty Program (FP) <input type="checkbox"/> Major <input type="checkbox"/> Joint Major <input checked="" type="checkbox"/> Major Concentration (CON) <input type="checkbox"/> Minor <input type="checkbox"/> Minor Concentration (CON) <input type="checkbox"/> Honours (HON) <input type="checkbox"/> Joint Honours Component (HC) <input type="checkbox"/> Internship/Co-op <input type="checkbox"/> Thesis (T) <input type="checkbox"/> Non-Thesis (N) <input type="checkbox"/> Other Please specify <input type="text"/>	<p><b>5.3 Level</b></p> <input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Dentistry/Law/Medicine <input type="checkbox"/> Continuing Ed (Non-Credit) <input type="checkbox"/> Collegial <input type="checkbox"/> Masters & Grad Dips & Certs <input type="checkbox"/> Doctorate <input type="checkbox"/> Post-Graduate Medicine/Dentistry <input type="checkbox"/> Graduate Qualifying <input type="checkbox"/> Postdoctoral Fellows
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**6.0 Total Credits**

**7.0 Consultation with Related Units**      Yes  No

**Financial Consult**      Yes  No

Attach list of consultations.



Entry for

Computer Science

The School of Computer Science, the discipline, and specific courses are described in The Faculty of Science section of the Calendar.

The School offers both a minor and a major concentration in computer science in the B.A. & Sc. They are considered Science programs.

Students are strongly encouraged to talk to an adviser of the School before taking complementary courses within the respective programs. Approval must be given by the School for the particular sequence of courses the student wishes to use for the major or minor concentration.

#### MAJOR CONCENTRATION IN COMPUTER SCIENCE (36 credits)

##### **Required Courses (24 credits)**

COMP 202\* (3) Introduction to Computing 1  
COMP 203 (3) Introduction to Computing 2  
or COMP 250 (3) Introduction to Computer Science  
COMP 206 (3) Introduction to Software Systems  
COMP 251 (3) Data Structures and Algorithms  
COMP 273 (3) Introduction to Computer Systems  
MATH 222 (3) Calculus 3  
MATH 240 (3) Discrete Structures 1

\*Students who have sufficient knowledge in a programming language do not need to take COMP 202 but can replace it with an additional computer science complementary course.

##### **Complementary Courses (12 credits)**

3 - 6 credits from:

MATH 223 (3) Linear Algebra  
MATH 318 (3) Mathematical Logic  
MATH 323 (3) Probability  
MATH 324 (3) Statistics  
MATH 340 (3) Discrete Structures 2

At least 3 credits from:

COMP 330 (3) Theoretical Aspects: Computer Science  
COMP 350 (3) Numerical Computing  
COMP 360 (3) Algorithm Design Techniques

At least 3 credits from:

COMP 302 (3) Programming Languages and Paradigms  
COMP 303 (3) Software Development

The remaining credits selected from

COMP 230 (3) Logic and Computability  
COMP 273 (3) Introduction to Computer Systems

and computer science courses at the 300-level or above (except COMP 364, COMP 396, COMP 400, COMP 431) and ECSE 508.

10.0 Approvals

Routing Sequence	Name	Signature	Date
Department	Sue Whitesides		
Curric/Acad Committee			
Faculty 1			
Faculty 2			
Faculty 3			
SCTP			
GS			
APPC			
Senate			

Submitted by

Name

Phone

Email

Submission Date

To be completed by ARR:

CIP Code