Major Requirements - B.S. in Applied Computer Science (for students who completed CPSC 220 Fall 2010 or earlier and plan to graduate after 8/2012)	Done	Need
Suggested First Year Courses:		
EITHER		
MATH 118* DIFFERENTIAL CALCULUS		
AND		
MATH 119* INTEGRAL CALCULUS		
OR		
MATH 121* CALCULUS I		
MATH 122 CALCULUS II *		
CPSC 120 FUNDAMENTALS OF COMPUTER SCIENCE I (*)		
CPSC 170 FUNDAMENTALS OF COMPUTER SCIENCE II		
MATH 131 DISCRETE MATHMATICS		
Suggested Sophomore Year Courses:		
CPSC 220 FUNDAMENTALS OF COMPUTER SCIENCE III		
CPSC 290 COMPUTER ARCHITECHTURE & OPERATNG SYSTEMS ****		
STAT 202 PROBABILITY		
Suggested Junior/Senior Year Courses:		
CPSC 340 ** DATATBASE SYSTEMS		
CPSC 365 *** SOFTWARE ENGINEERING & PROJECT DESIGN		
CPSC 415 *** WEB PROGRAMMING		
ELECTIVE ****		
ELECTIVE ****		
ELECTIVE ****		
Senior Year Course:		
CPSC 446 or 445 & 447 SENIOR PROJECT		
Elective Choices Per Major:		
CPSC 301/302 SYSTEMS ADMINISTRATION 1 AND 2 (Offered every year)		
CPSC 310 TOPICS IN APPLIED COMPUTING		
CPSC 350 HUMAN COMPUTER INTERACTION		
CPSC 360 NETWORKS		

CPSC 390 ** THEORY OF COMPUTATION		
CPSC 395 *** ANALYSIS OF ALGORITHMS		
CPSC 342 NUMERICAL ANALYSIS		
CPSC 405 INDEPENDENT STUDY AND RESEARCH (1/2 unit)		
CPSC 406 INDEPENDENT STUDY AND RESEARCH (1 unit)		
CPSC 407 INDEPENDENT STUDY AND RESEARCH (1/2 unit)		
CPSC 416 INTERNSHIP		
CPSC 425 ** Principles of Programming Languages		

* CPSC 120, MATH 118 and 119, or 121, and MATH 122 are not explicitly required for the major but are prerequisites for all required courses in the major. Students should consult a computer science faculty member about the need to take these courses.

** Taught in 2011/2012 and alternate years: take either junior or senior year depending upon when offered.

*** Taught in 2012/2013 and alternate years: take either junior or senior year depending upon when offered.

**** Three elective units are required. Elective courses are taught on a rotation basis, not every year.

*****An independent study in C++ is recommended in Fall 2011 for those who did not take CPSC 270.