

DEGREE REQUIREMENTS FOR B.A. IN COMPUTER SCIENCE (as of FALL 2015)

Updated Sept. 2015

Name _____

Class of _____

CPSC GPA _____ (from Transcript)

Required Math courses

Sem	Grade	Course
_____	_____	MATH 131 Calculus I

Required Foundation courses

Sem	Grade	Course	Sem	Grade	Course
_____	_____	CPSC 115L Intro to Computing	_____	_____	CPSC 203 Math Found. of Computing
_____	_____	CPSC 215L Data Structures and Algorithms	_____	_____	CPSC 275L Introduction to Computer Systems

Required Theory courses - 1 needed

Sem	Grade	Course
_____	_____	CPSC 219 Theory of Computation
_____	_____	CPSC 320 Analysis of Algorithms

Required Systems courses - 1 needed

Sem	Grade	Course
_____	_____	CPSC 315 Systems Software
_____	_____	CPSC 333 Computer Networks
_____	_____	CPSC 375 High-Performance Computing

Required Software courses - 1 needed

Sem	Grade	Course
_____	_____	CPSC 304 Computer Graphics
_____	_____	CPSC 316 Found. of Programming Languages
_____	_____	CPSC 340 Principles of Software Engineering
_____	_____	CPSC 352 Artificial Intelligence
_____	_____	CPSC 371 Compiler Techniques
_____	_____	CPSC 372 Database Fundamentals

Cognate Requirements

One non-computer science course which is designated writing intensive.

Sem	Grade	Course
_____	_____

One additional numeric or symbolic reasoning course from the following list: (if MATH, must be 107 or higher)

Sem	Grade	Course
_____	_____	POLS 241 Empirical Pol. Methods & Data Analysis
_____	_____	PSYC 221L Research Design and Analysis
_____	_____	SOCL 201L Research Methods in the Soc. Sciences
_____	_____	PHIL 390 Advanced Logic
_____	_____	MATH

Elective courses - 2 needed (only 1 can be CPSC 110-X)

Sem	Grade	Course
_____	_____	CPSC 110-01 Computers, Info., and Society
_____	_____	CPSC 110-02 Computers and Kinetic Content
_____	_____	CPSC 110-03 Comput. Intelligence & Society
_____	_____	CPSC 110-04 Principles of Computation
_____	_____	CPSC 110-05 Interactive Computer Graphics
_____	_____	CPSC 110-06 Open Source Softw. for Humanity
_____	_____	CPSC 110-07 Visual Computing
_____	_____	CPSC 110-08 Computing with Mobile Phones
_____	_____	CPSC 219 Theory of Computation
_____	_____	CPSC 225 Topics Application Programming
_____	_____	CPSC 304 Computer Graphics
_____	_____	CPSC 315 Systems Software
_____	_____	CPSC 316 Found. of Programming Languages
_____	_____	CPSC 320 Analysis of Algorithms
_____	_____	CPSC 333 Computer Networks
_____	_____	CPSC 340 Principles of Software Engineering
_____	_____	CPSC 352 Artificial Intelligence

Sem	Grade	Course
_____	_____	CPSC 371 Compiler Theory
_____	_____	CPSC 372 Database Fundamentals
_____	_____	CPSC 375 High-Performance Computing
_____	_____	CPSC 415 Special Topics in Computing

can only do 1 (at most) of the following electives

_____	_____	ENGR 221L Digital Circuits and Systems
_____	_____	ENGR 323L Microprocessor Systems
_____	_____	MATH 228 Linear Algebra
_____	_____	MATH 252 Intro. to Mathematical Modeling I
_____	_____	MATH 254 Intro. to Mathematical Modeling II
_____	_____	MATH 305 Probability
_____	_____	MATH 309 Numerical Analysis
_____	_____	MATH 314 Combinatorics and Computing

Senior Exercise (Seminar + Project)

Sem	Grade	Course
_____	_____	CPSC 403/498

Sem	Grade	Course
_____	_____	CPSC 404/499