

DEGREE REQUIREMENTS FOR B.S. 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		
_____	_____	MATH 132	Calculus II	OR	_____ _____ MATH 142 Accelerated Calculus II

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

Elective courses - 3 needed (only 1 can be CPSC 110-X)

Sem	Grade	Course		Sem	Grade	Course
_____	_____	CPSC 110-01	Computers, Information, and Society	_____	_____	CPSC 371 Compiler Techniques
_____	_____	CPSC 110-02	Computers and Kinetic Content	_____	_____	CPSC 372 Database Fundamentals
_____	_____	CPSC 110-03	Computational Intelligence & Society	_____	_____	CPSC 375 High-Performance Computing
_____	_____	CPSC 110-04	Principles of Computation	_____	_____	CPSC 415 Special Topics in Computing
_____	_____	CPSC 110-05	Interactive Computer Graphics	_____	_____
_____	_____	CPSC 110-06	Open Source Software for Humanity	_____	_____
_____	_____	CPSC 110-07	Visual Computing			
_____	_____	CPSC 110-08	Computing with Mobile Phones			
_____	_____	CPSC 219	Theory of Computation	_____	_____	ENGR 221L Digital Circuits and Systems
_____	_____	CPSC 225	Topics Application Programming	_____	_____	ENGR 323L Microprocessor Systems
_____	_____	CPSC 304	Computer Graphics	_____	_____	MATH 228 Linear Algebra
_____	_____	CPSC 315	Systems Software	_____	_____	MATH 252 Introduction to Mathematical Modeling I
_____	_____	CPSC 316	Foundations of Programming Languages	_____	_____	MATH 254 Introduction to Mathematical Modeling II
_____	_____	CPSC 320	Analysis of Algorithms	_____	_____	MATH 305 Probability
_____	_____	CPSC 333	Computer Networks	_____	_____	MATH 309 Numerical Analysis
_____	_____	CPSC 340	Principles of Software Engineering	_____	_____	MATH 314 Combinatorics and Computing
_____	_____	CPSC 352	Artificial Intelligence	_____	_____

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

Senior Exercise (Seminar + Project)

Sem	Grade	Course
_____	_____	CPSC 403/498

Sem	Grade	Course
_____	_____	CPSC 404/499