

# COMPUTER SCIENCE BS 2020-2021

First Year	CSCI 141 Computer Science I	MATH 181 Project Based Calculus I	Gen Ed 1 <sup>st</sup> Year Writing Course	Gen Ed Artistic Perspective	Gen Ed Global Perspective	YOPS 10 RIT 365	
	CSCI 142 Computer Science II (CSCI 141 with C- or higher)	MATH 182 Project Based Calculus II	MATH 190 Discrete Mathematics for Computing (MATH 182 co-req.)	Gen Ed Ethical Perspective	Gen Ed Social Perspective	Wellness Activity	
Second Year	CSCI 243 The Mechanics of Programming (CSCI 142 with C- or higher)	CSCI 262 Introduction to Computer Science Theory (CSCI 141, MATH 190)	MATH 251 Probability and Statistics I (MATH 182)	Lab Science 1	Gen Ed Elective	CSCI 99 Co-op Seminar	
	CSCI 261 Analysis of Algorithms (CSCI 243, MATH 190)	SWEN 261 Introduction to Software Engineering (CSCI 142)	MATH 241 Linear Algebra (MATH 190)	Lab Science 2	Gen Ed Sci. Princ. Perspective	Wellness Activity	
Summer Co-op (CSCI 488)							
Third Year	CSCI 331 Introduction to Artificial Intelligence (CSCI 261, MATH 251)	CSCI 320 Principles of Data Management (CSCI 142, MATH 190)	CSCI 250 Concepts of Computer Systems (CSCI 243, MATH 190)	Science Elective	Gen Ed Immersion		
	Semester Co-op (CSCI 499)						
Fourth Year	CSCI 251 Concepts of Parallel and Distributed Systems (CSCI 243)	CS Elective	CSCI 344 Programming Language Concepts (CSCI 243, MATH 190)	Free Elective	Gen Ed Immersion		
	CS Elective	CS Cluster Elective	Science Elective	Free Elective	CSCI 471 Professional Communications 4 <sup>th</sup> or 5 <sup>th</sup> year standing		
Fifth Year	Semester Co-op (CSCI 499)						
	CS Cluster Elective	Gen Ed Immersion	Gen Ed Elective	Free Elective	Free Elective		

Computer Science/Software Engineering

Math

General Education

Science

Free Elective

First Year Requirement

Wellness

Co-op

**Prerequisites:** shown in parenthesis under course name

**Writing Intensive Courses: 3 are required:** 1<sup>st</sup> year = URWT 150/ENGL 150/ISTE 110 + 1 Gen Ed course + program specific (CSCI 471)

**Lab Sciences:** only specific sequences are allowed in Biology, Chemistry or Physics please see the CS handbook