

Bachelor of Science in Computer Science

Students earning the AS, AA, or AA&S (or university parallel) degree from a Virginia Community College automatically satisfy the lower division general education requirements. **Courses marked with * require a grade of C or better to transfer, even with the AS degree. The remaining lower division courses are automatically satisfied by the AS (including foreign language), regardless of the grade earned.** Additionally, courses in which a grade of C- or below was earned will not transfer. Therefore Community College degree holders may require additional credits to meet the 120 credit hour graduation minimum. (AS=Associate degree)

Writing Sample Placement Test: _____

Computer Science majors must earn a grade of C or better in all CS courses to meet graduation requirements.

	credit	VCCS
FRESHMAN FIRST SEMESTER		
CS 110 Intro to Computer Science	1	
CS 150 Intro to Programming I	4	CSC 201,EGR 126*
ENGL 110C English Composition	3	See Transfer Guide
MATH 211 Calculus I	4	MTH 173, 273*
GEN ED Natural Science	4	See Transfer Guide (and restriction noted below)*
FRESHMAN SECOND SEMESTER		
CS 250 Problem Solving & Programming II	4	CSC 202 OR CSC 210*
CS 252 Intro to UNIX for Programmers	1	ITN 171, 271*
CS 170 Computer Organization & Architecture I	3	CSC 205*
MATH 212 Calculus II	4	MTH 174, 274*
GEN ED Natural Science	4	See Transfer Guide (and restriction noted below)*
SOPHOMORE FIRST SEMESTER		
CS 270 Intro to Computer Architecture II	3	CSC 206, 215*
STAT 330 Intro to Probability and Statistics	3	
CS 330 Object Oriented Programming & Design	3	
CS 381 Discrete Structures	3	
GEN ED Oral Communication	3	See Transfer guide
SOPHOMORE SECOND SEMESTER		
ENGL 111C/131C English Comp II/Technical Writing	3	See Transfer Guide
CS 390 Intro to Theoretical CS	3	
GEN ED Literature Perspective	3	See Transfer guide
CS 361 Data Structures	3	
CS 300 Computers in Society	3	
JUNIOR FIRST SEMESTER		
CS 350 Intro to Software Engineering	3	
MATH 316 Linear Algebra	3	
CS Elective 1	3	
Elective Technical Elective 1**	4	
GEN ED History	3	See Transfer guide
JUNIOR SECOND SEMESTER		
CS 417 Computational Methods and Software	3	
CS Elective 2	3	
UPPER GEN ED Cluster 1/Minor	3	
GEN ED Fine Arts Perspective	3	See Transfer guide
Elective Technical Elective 2**	4	
SENIOR FIRST SEMESTER		
CS 410 Professional Workforce Development I	3	
CS 471 Operating Systems	3	
CS Elective 3	3	
GEN ED Social Science	3	See Transfer guide
UPPER GEN ED Cluster 2/Minor	3	
SENIOR SECOND SEMESTER		
CS 411W Professional Workforce Development II	3	
CS Elective 4	3	
UPPER GEN ED Cluster 3/Minor	3	
GEN ED Philosophy	3	See Transfer guide

Computer Science majors must earn a grade of C or better in all CS courses to meet graduation requirements. Requirements for graduation also include a minimum cumulative grade point average of 2.00 overall, 120 credit hours, passage of the Exit Examination of Writing Proficiency, passing of the Computer Science Exit Exam and the Senior Assessment. Additional hours may be required to meet the foreign language requirement.

** The technical elective requirement is designed to broaden the student's technical background in quantitative methods. Courses must be chosen from technology (T) courses, the natural science (N) courses excluding BIOL 108N-109N and PHYS 103N-104N, or cluster courses in biology, chemistry, geology, oceanography, and physics. With the approval of a computer science advisor, other technically oriented courses may be used to meet this requirement.