

**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 except CS 110 and 252 to meet graduation requirements.

**FRESHMAN FIRST SEMESTER**

	<b>credit</b>
CS 110 Intro to Computer Science	1
CS 150 Intro to Programming	4 *
CS 170 Computer Organization & Architecture I	3 *
MATH 211 Calculus I	4 *
GEN 101 NewPAGE	3

**FRESHMAN SECOND SEMESTER**

CS 250 Problem Solving & Programming	4 *
CS 252 Intro to UNIX for Programmers	1
CS 270 Computer Organization & Architecture II	3 *
MATH 212 Calculus II	4 *
GEN ED Oral Communication	3

**SOPHOMORE FIRST SEMESTER**

ENGL 110C English Comp I	3
STAT 330 Intro to Probability and Statistics	3
CS 330 Object Oriented Programming & Design	3
CS 381 Discrete Structures	3
GEN ED History/Philosophy/Social Science Perspective	3

**SOPHOMORE SECOND SEMESTER**

ENGL 111C/131C English Comp II/Technical Writing	3
MATH 316 Linear Algebra	3
GEN ED Literature Perspective	3
CS 361 Data Structures	3
CS 300 Computers in Society	3

**JUNIOR FIRST SEMESTER**

CS 350 Intro to Software Engineering	3
CS 390 Intro to Theoretical Computer Science	3
CS Elective 1	3
GEN ED Natural Science Perspective I	4
GEN ED History/Philosophy/Social Science Perspective	3

**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
GEN ED Natural Science Perspective II	4

**SENIOR FIRST SEMESTER**

CS 410 Professional Workforce Development I	3
CS 471 Operating Systems	3
CS Elective 3	3
TECHNICAL ELECTIVE 1*	3-4
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
TECHNICAL ELECTIVE 2*	3-4

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, completion 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.