

Northern Virginia Community College 2009-2010 Catalog

COMPUTER SCIENCE

Associate of Science Degree

AL, AN, LO, MA, WO

Purpose: The curriculum is designed primarily for students who wish to transfer to a four-year college or university to complete the baccalaureate degree in Computer Science. The curriculum emphasizes the study of the science of computing and the use of computing in a scientific setting.

Transfer Information: Students are advised to work closely with the faculty and counseling staff for program and course scheduling. Electives should be chosen carefully to meet requirements of transfer institution. The responsibility for proper course selection rests with the student.

Recommended Preparation: Satisfactory completion of the following high school units or equivalent: 4 units of English and 4 units of college preparatory mathematics.

Two Years		Credits
1st Semester		
*CSC	185 Programming Tools	1
CSC	201 Computer Science I	4
ENG	111 College Composition I	3
MTH	173 Calculus with Analytic Geom. I	5
¹ _____	Social Science Elective	3
SDV	Elective	<u>1</u>
Total		17
2nd Semester		
CSC	202 Computer Science II	4
² ENG	112 College Composition II	3
MTH	174 Calculus with Analytic Geom. II	5
³ PED	116 Lifetime Fitness & Wellness	1
¹ _____	Social Science Elective	<u>3</u>
Total		16
3rd Semester		
CSC	206 Assembly Language	3
⁴ _____	Natural Science/Lab Elective	4
¹ _____	Social Science Elective	3
CST	110 Intro to Communication	<u>3</u>
Total		13
4th Semester		
CSC	205 Computer Organization	3
⁵ _____	Humanities/Fine Arts Elective	3
⁵ _____	Humanities/Fine Arts Elective	3
⁴ _____	Natural Science/Lab Elective	4
³ PED/RPK	Elective	<u>1</u>
Total		14

Total credits for the A.S. Degree in Computer Science = 60

*Students who completed CSC 100 prior to fall 2009 *do not* need to take CSC 185.

¹ The social science elective may be selected from the social/behavioral sciences courses listed under General Education Electives. All electives should be selected in conjunction with an advisor and after examining the requirements at the transfer institution.

² ENG 125 may be substituted with the advice of a counselor or faculty advisor according to requirements of transfer institutions.

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³ The PED requirement may be met by one of the following options: PED 116, 2 cr.; PED 116, 1 cr. plus a PED activities course, 1 cr.; or PED 116, 1 cr. plus RPK activities course. PED 116 is offered as both a 1-credit and a 2-credit course.

⁴ The science elective may be selected from biology, chemistry (excluding CHM 101-102), physics, geology, or natural science courses with a lab component, listed under General Education Electives. Some four-year colleges require a two-semester sequence.

⁵ Humanities/fine arts elective may be selected from the humanities/fine arts courses listed under General Education Electives. Elective should be selected with advice of a counselor or faculty advisor to meet requirements of transfer institution.