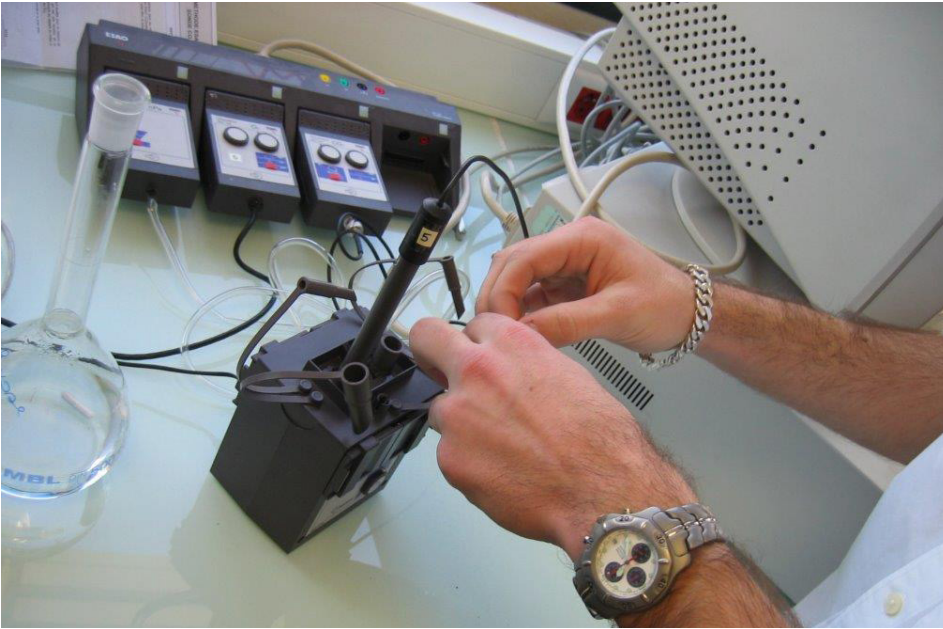# COMPUTER SCIENCE
Associate of Science degree

Program and Career Description:

The Computer Science emphasis is a two-year program for students planning to complete a bachelor's degree in Computer Science. Students will develop strong problem-solving, communication and team skills and be able to design, implement and document computer software systems. Employment of computer technology occupations is projected to grow 12 percent from 2014 to 2024, faster than the average for all occupations. Below are a few examples of career and salary estimates.

Career	Salary Median
Database Administrators	$81,710
Computer Programmers	$79,530
Information Security Analysts	$90,120

Career and salary information taken from *www.bls.gov*. Check out this web site for additional information about education requirements and preferred work styles and abilities for these careers. Salaries are not guaranteed.

Transfer Options

This program is a Tennessee Transfer Pathway (TTP) major. A student who completes the associates degree in this major is guaranteed that all required community college courses will be accepted in this major at the transfer institution. To see which four-year institutions offer this TTP major and guarantees a seamless transfer, visit the Tennessee Transfer Pathway website at *www.tntransferpathway.org*.

Articulation agreements exist between other private and non-TN public institutions. These agreements are available at *www.columbiastate.edu/admissions/transfer-information*.

COLUMBIA STATE COMMUNITY COLLEGE

COMPUTER SCIENCE

Major in Tennessee Transfer Pathway with Emphasis in Computer Science (A.S.)

Program Requirements

Students may be required to take additional Learning Support courses.

Communications Requirement
ENGL 1010, 1020
SPCH 1010 or SPCH 1030

History Requirement (Take 2 courses)
HIST 1110, 1120, 2010, 2020, 2030

Humanities/Fine Arts (Take 3 courses -- one must be a literature course)
ART 1030
ARTH 2010, 2020
ENGL 2015, 2440
HUM 1130, 1131
MUS 1030
PHIL 1030, 2030, 2033
THEA 1030
Literature Options: ENGL 2130, 2230, 2310, 2320, 2920

Natural Sciences Requirement
Select one eight-hour sequence from the following:
BIOL 1110, 1120
CHEM 1110, 1120
PHYS 2010, 2020
*PHYS 2110, 2120

Mathematics Requirement
MATH 1910

Social/Behavioral Sciences
ANTH 1200, 1300
COMM 1010
ECON 2010, 2020
GEOG 2010
PHED 2120
POL 201
POLS 1030, 1501, 2010
PSYC 1030, 2130
SOCI 1010, 1020, 2010

Major Required Courses
CISP 1010, 1020, 2410
COLS 101
MATH 1920, 2010

*Students planning to transfer to the University of Tennessee, Knoxville must complete PHYS 2110, 2120.

If you have completed TN eCampus courses, run a degree audit from the student tab in myChargerNet to determine how these courses apply to this program.

Requirements for Graduation include:
• earning 25% of total program credits in residence at Columbia State.
• cumulative GPA must be 2.0.
• taking the Exit Exam.

2017-2018 Catalog

Sample Academic Plan

First Year – Fall Semester

____	ENGL 1010	Composition I	3
____		Humanities/Fine Arts Requirement	3
____	MATH 1910	Calculus and Analytic Geometry I	4
____	CISP 1010	Computer Science I	4
____	COLS 101	Columbia State College Success	1
			15

First Year – Spring Semester

____	ENGL 1020	Composition II	3
____	SPCH 1010	Fundamentals of Speech Communication **or**	
	SPCH 1030	Argumentation and Debate	3
____	MATH 1920	Calculus and Analytic Geometry II	4
____	CISP 1020	Computer Science II	4
____		Humanities/Fine Arts Requirement	3
			17

Second Year – Fall Semester

____	CISP 2410	Assembly & Computer Organization	4
____	MATH 2010	Linear Algebra	3
____		Natural Science Requirement	4
____		Social/Behavioral Science Requirement	3
____		History Requirement	3
			17

Second Year – Spring Semester

____		Literature Requirement	3
____		Social/Behavioral Science Requirement	3
____		Natural Science Requirement	4
____		History Requirement	3
			13

TOTAL CREDIT HOURS 62

At some universities, foreign language may be required in certain programs that lead to the Bachelor of Science Degree. Complete information regarding foreign language requirements at each university may be found on the transfer and articulation web sites of the Tennessee Board of Regents and the University of Tennessee System. Community college students are encouraged to be familiar with foreign language requirements at the universities and, if applicable, complete the requirements before transferring.

For more information contact:
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