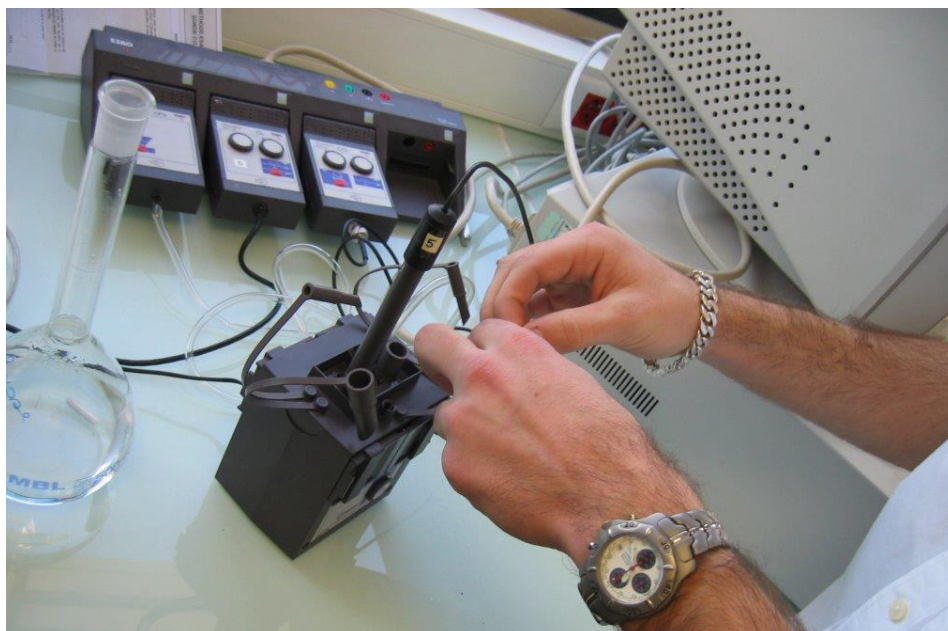# COMPUTER SCIENCE
Associate of Science degree

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.

How is the Job Market?

Check out *www.jobs4tn.gov* website for information about job descriptions, education requirements and abilities, and supply and demand for these careers. For additional information from a national perspective, go to Bureau of Labor Statistics, U. S. Department of Labor website at *www.bls.gov*. Visit the Occupational Outlook Handbook on this website. 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*.

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

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

For more information contact:
Deepa Janakiraman at
djanakiraman@columbiastate.edu or 615.790.5984
or
Science, Technology & Math Division office at
931.540.2710 or stm@columbiastate.edu

COLUMBIA STATE COMMUNITY COLLEGE

Student ID:_____
Student Name:_____
Adviser Name:_____

Catalog: 2020-2021 Catalog and Student Handbook
Program: Computer Science, A.S.
Minimum Credits Required:_____

Computer Science, A.S.

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

Sample Academic Plan - Total Credit Hours: 60-62

Program Requirements - Students may be required to take additional Learning Support courses. Courses cannot be used more than once to satisfy program requirements.

First Year - Fall Semester - Credit Hours: 13-14

Course Name	Credits:	Term Taken	Grade	Gen Ed
ENGL 1010 - English Composition I	Credits: 3			
[1] General Education - History Requirement	Credits: 3			
[2] General Education - Humanities/Fine Arts Requirement	Credits: 3			
MATH 1710 - Precalculus Algebra *** **OR** MATH 1720 Precalculus Trigonometry*** **OR** MATH 1730 Precalculus*** 4 credits **OR** MATH 1910 Calculus I*** 4 credits **OR** MATH 1920 Calculus II*** 4 credits	Credits: 3			
COLS 101 - Columbia State College Success	Credits: 1			

First Year - Spring Semester - Credit Hours: 16

Course Name	Credits:	Term Taken	Grade	Gen Ed
ENGL 1020 - English Composition II	Credits: 3			
COMM 2025 - Fundamentals of Communication **OR** COMM 2055 Argumentation and Debate	Credits: 3			
MATH 1720 - Precalculus Trigonometry **OR** MATH 1910 Calculus I **4 credits OR** MATH 1920 Calculus II *** **4 credits** (next course in sequence)	Credits: 3			
[1] General Education - History Requirement	Credits: 3			
[2] General Education - Humanities/Fine Arts Requirement	Credits: 3			

Second Year - Fall Semester - Credit Hours: 17

Course Name	Credits:	Term Taken	Grade	Gen Ed
CISP 1010 - Computer Science I	Credits: 4			
BIOL 1110 - General Biology I **OR** CHEM 1110 General Chemistry I **OR** PHYS 2010 Non-Calculus Physics I **OR** PHYS 2110 Calculus-Based Physics I	Credits: 4			
MATH 1910 - Calculus I **OR** MATH 1920 Calculus II **OR** MATH 2010 Introduction to Linear Algebra **OR** MATH 2050 Calculus Based Probability and Statistics****	Credits: 4			
[2] General Education - Literature Requirement	Credits: 3			
[5] General Education - Social/Behavioral Science Requirement *	Credits: 3			

Second Year - Spring Semester - Credit Hours: 15

Course Name	Credits:	Term Taken	Grade	Gen Ed
CISP 1020 - Computer Science II	Credits: 4			
CISP 2410 - Assembly & Computer Organization	Credits: 4			
BIOL 1120 - General Biology II **OR** CHEM 1120 General Chemistry II **OR** PHYS 2020 Non-Calculus Physics II **OR** PHYS 2120 Calculus-Based Physics II	Credits: 4			
[5] General Education - Social/Behavioral Science Requirement *	Credits: 3			

General Education Requirements (Only When Option Noted Above)

[1]History Requirement - Select from HIST 2010, HIST 2020, HIST 2030, HIST 2310, HIST 2320.

[2]Humanities/Fine Arts Requirement - Select from ART 1035, ART 2000, ART 2020, ENGL 2160, ENGL 2860, HUM 1010, HUM 1020, MUS 1030, PHIL 1030, PHIL 1040, PHIL 2200, THEA 1030. **Literature Options**: ENGL 2055, ENGL 2130, ENGL 2235, ENGL 2310, ENGL 2320.

[3]Mathematics Requirement - Select from MATH 1010, MATH 1130, MATH 1530, MATH 1630, MATH 1710, MATH 1720, MATH 1730, MATH 1830, MATH 1910.

[4]Natural Sciences Requirement - Select from ASTR 1030, BIOL 1010, BIOL 1020 , BIOL 1080 *(must pair with non-biology course except for BIOL 2010 or BIOL 2020)*, BIOL 1110, BIOL 1120, BIOL 2010, BIOL 2020, CHEM 1110, CHEM 1120, ESCI 1010, ESCI 1020, PHYS 2010, PHYS 2020, PHYS 2110, PHYS 2120, PSCI 1030.

[5]Social/Behavioral Science Requirement - Select from ANTH 1230, ANTH 1430, COMM 1010, ECON 2100, ECON 2200, GEOG 2010, PHED 2120, POLS 1010, POLS 1030, POLS 2025, POLS 2035, PSYC 1030, PSYC 2130, SOCI 1010, SOCI 1040, SOCI 2010.

Note(s):

*Students transferring to UT Chattanooga should enroll in ECON 2100 and ECON 2200 for the Social/Behavioral Science general education requirement.

**Students transferring to UT Knoxville must take PHYS 2110 and PHYS 2120; students transferring to UT Chattanooga in Computer Engineering concentration must complete PHYS 2110 and PHYS 2120.

***The Computer Science major requires completion of MATH 1910, MATH 1920, and MATH 2010 either the community college or at the university.

****Students transferring to MTSU should not take MATH 2010 but instead take MATH 2050 Calculus Based Probability and Statistics (TN eCampus Course). Students who transfer to TTU must complete MATH 2010, MATH 2050 (TN eCampus Course), MATH 2110, or MATH 2120 as their third math course in the pathway.

Check *www.tntransferpathway.org* to see which four-year institutions offer this TTP major. Students should meet with their assigned advisor to determine courses required for the university chosen.

Students and advisors should run a degree audit from myChargerNet each semester to confirm classes are applicable to the program of study.

For more information contact:
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Science, Technology & Math Division office at 931.540.2710 or stm@columbiastate.edu