

COMPUTER SCIENCE: COMPUTER SCIENCE STUDIES - CSCU TRANSFER DEGREE, AA

Program code: CMSC-AA-TAP

Location: Capital, Gateway, Housatonic, Manchester, Middlesex, Naugatuck Valley, Northwestern, Norwalk, Quinebaug Valley, Three Rivers, Tunxis

Program Description

CSCU Pathway Transfer A.A. degree programs are for Connecticut Community College students who wish to transfer to one of the four Connecticut State Universities or Charter Oak College. Upon transfer, students are guaranteed full junior status and can complete a bachelor's degree in their major without losing any credits or being required to take any extra credits.

The Computer Science Pathway A.A. degree is a rigorous calculus-based program which provides students with a broad background in the underlying disciplines of computer science including: the fundamentals of computer programming; database theory and design; digital systems including digital logic, computer organization & architecture and assembly language; and client-side web development.

Students will also acquire a comprehensive educational background in mathematics, science and general education, designed to develop and enhance their critical thinking, problem analysis and resolution skills.

Students who are interested in Networking and System Administration should consider the Computer Network Technology A.S. degree or certificate.

Learning Outcomes

Upon successful completion of all requirements of this degree program, graduates will:

1. Demonstrate the ability to understand a problem and develop logically structured solutions through the use of a modern programming language such as Java.
2. Apply the use of data modeling and relational database design for the design and implementation of a database application.
3. Understand the fundamental operating principles of a computer on an architectural level.
4. Acquire an understanding of modern abstract mathematics as it relates to computer science.
5. Apply the use of HTML, CSS, JavaScript, Bootstrap and jQuery to the design and creation of a website.

In addition, the graduate will complete the comprehensive learning outcomes identified with the General Education Core.

With this degree, you will be able to transfer to the following majors:

- **Central Connecticut State University:** Computer Science, B.S. - Alternative Program, Computer Science, B.S. - Honors
- **Eastern Connecticut State University:** Computer Science, B.S.

- **Southern Connecticut State University:** Computer Science, B.S. - General Program
- **Western Connecticut State University:** Computer Science, B.S.

Degree Requirements

Code	Title	Credits
Framework Courses		
ENG 1010	Composition	3
MATH 1610	Precalculus	4
Elective ARHX - Arts & Humanities Course		3-4
Choose one of the following:		4
PHYS 2201	Calculus-Based Physics I	
CHEM 1210	General Chemistry I	
BIO 1210	General Biology I	
Elective SBSX - Social / Behavioral Science Course		3
Elective WRIX - Written Communication II Course		3
Choose one of the following:		4
PHYS 2202	Calculus-Based Physics II	
CHEM 1220	General Chemistry II	
BIO 1220	General Biology II	
Elective HISX - Historical Knowledge Course		3
Elective ORAX - Oral Communication Course		3
CCS 1001	College and Career Success	3
Pathway Courses		
MATH 2600	Calculus I ¹	4
MATH 2610	Calculus II ²	4
MATH 2611	Discrete Mathematics for Computer Science ¹	4
CSC 2274	Client-Side Web Development ¹	3
CSC 2217	Digital Design ²	4
CSC 2235	Introduction to Database Design ¹	3
CSC 1211	Java I ¹	3
CSC 2212	Java II ¹	3
Total Credits		61-62

¹ a grade of C or higher required for transfer to a CSU

² a grade of C- or higher required for transfer to a CSU

- Computer Science: Mobile Programming, AAS
- Computer Science: Relational Database Development Certificate
- Computer Science: Smartphone Application Development
- Computer Science: Software Development
- Computer Science: Software Engineering, AAS
- Computer Science: Web Developer Certificate
- Computer Science: Web Development, AAS