



SUNY NIAGARA Computer Science, A.S.

Overview

Computer Science is the broad study of problem solving and computing. At SUNY Niagara, we use a hands-on approach to teach programming, but computer scientists are much more than just programmers. Students will work independently and in teams to develop creative and systematic approaches to problem solving.

Designed for transfer into a 4-year institution.

Careers

Careers related to your program of study:

- Applications Programmer
- Computer Engineer
- Database Administrator
- Operations Research Analyst
- System/Security Administrator
- Systems Architect
- Systems Software Developer

Some careers may require more specialized education.

Contact

Program Coordinator

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Division

Business & STEM

716-614-6410

Visit full catalog for specific course offerings for each semester:

<https://sunyniagara.edu/courses/computer-science-a-s/>

<https://tinyurl.com/bdfjskec>

Program Requirements

First Semester

Credits

CIS 119 - Introduction to Computer Systems	3
CPS 120 - Computer Science I	4
ENG 101 - Writing I	3
MAT 120 - Calculus and Analytic Geometry I	4
____ - General Education Elective (SOCS, USCV, GLBL, or WLNG)	3

Total Credit Hours:**17 Cr.**

Second Semester

CPS 130 - Computer Science II	4
ENG 102 - Writing II OR	
ENG 103 - Writing for STEM	3
MAT 121 - Calculus and Analytic Geometry II	4
____ ____ - General Education Elective (ARTS AND HUMN)	3
____ ____ - Health or Physical Education Elective	2
Total Credit Hours:	16 Cr.

Third Semester

CPS 247 - Computer Organization & Architecture	5
MAT 230 - Discrete Mathematics	4
____ ____ - Natural Science & Scientific Reasoning (NSCI) Lab-based General Education elective	4
SPE 101 – Foundations of Communication OR SPE 102 - Public Speaking OR	
SPE 103 - Interpersonal Communication	3
Total Credit Hours:	16 Cr.

Fourth Semester

CPS 250 - Data Structures	4
____ ____ - Natural Science & Scientific Reasoning (NSCI) Lab-based General Education elective	4
____ ____ - CIS/CPS 200-level Elective OR	
MAT 255 - Linear Algebra	3
____ ____ - Diversity: Equity, Inclusion & Social Justice (DVRS) General Education Elective	3
Total Credit Hours:	14 Cr.

The information provided is subject to change throughout the academic year. 3/9/2026