

A.S. Computer Science

2023-24

WEBSITE

[https://www.swau.edu/
computer-science](https://www.swau.edu/computer-science)

DEPARTMENT PERSONNEL

Chair

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The primary mission of the Department of Computer Science is to prepare students for professional work in the field of computer science, within a Christian context. We believe that each of our students has a calling in life and that each is uniquely equipped with native talents to fulfill that calling. Our goal is to help our students to develop their talents to the full in order that they might be successful in meeting the challenges ahead of them.

The Associate of Science in Computer Science is intended for students who wish to pursue careers in computer science, or as a stepping-stone to a Bachelor of Science in Computer Science.

Job Market

Graduates with this degree would likely find employment as support specialists in the area of computer networking and/or computer security.

Job Outlook

According to the U.S. Bureau of Labor Statistics, the employment of computer support specialists is projected to grow 10.6 percent from 2016-2026, faster than the average for all occupations. More support services will be needed as organizations upgrade their computer equipment and software.

Earnings

According to the U.S. Bureau of Labor Statistics, the median annual wage for computer support specialists was \$53,470 per year in 2018.



Required Courses

Item #	Title	Credits
CSIS 110	Principles of Computer Programming I	3
CSIS 111	Principles of Computer Programming II	3
CSIS 125	Discrete Structures I	3
CSIS 201	Information Literacy for CS Majors	1
CSIS 211	Data Structures and Algorithms	3
CSIS 215	Object-Oriented Programming in C++	3
CSIS 225	Discrete Structures II	3
CSIS 245	Introduction to Local Area Network Technology	4
CSIS 255	Issues and Practices in Information Security	3
	Sub-Total Credits	26

Sample 4 Year Curriculum

General Education Requirements

To view general education requirements for this major please visit: <https://catalog.swau.edu/core-curriculum-for-a-bachelors-degree>

First Year First Semester

Item #	Title	Credits
CSIS 110	Principles of Computer Programming I	3
CSIS 125	Discrete Structures I	3
ENGL 121	Freshman Composition	3
HIST 111	United States History to 1865	3
UNIV 111	Wellness for Life	2
	Sub-Total Credits	14

First Year Second Semester

Item #	Title	Credits
COMM 115	Discussion Techniques	3
CSIS 111	Principles of Computer Programming II	3
CSIS 225	Discrete Structures II	3
MATH 141	Introduction to Probability and Statistics	3
RELB 211	Life and Teachings of Jesus	3
	Sub-Total Credits	15

Second Year First Semester

Item #	Title	Credits
BIOL 103	Human Biology	4
CSIS 201	Information Literacy for CS Majors	1
CSIS 211	Data Structures and Algorithms	3
CSIS 245	Introduction to Local Area Network Technology	4
ENGL 220	Research Writing	3
KINA 116	Fitness Walking	1
	Sub-Total Credits	16

Second Year Second Semester

Item #	Title	Credits
CSIS 215	Object-Oriented Programming in C++	3
CSIS 255	Issues and Practices in Information Security	3
	Electives for 60 AS	3
ENGL 231	American Literature I	3
RELT 101	Christian Beliefs	3
	Sub-Total Credits	15

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