

# COMPUTER SCIENCE

## School of Mathematics, Science, and Engineering

**Dean:** Silvia Nadalet, Ed.D.

**Department Chair:** Kimberly Eclar, M.Ed., M.S.

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**School/Department Location:** [www.swccd.edu/cvlocation](http://www.swccd.edu/cvlocation)

**Map:** <https://goo.gl/maps/C4E3PnKsdU92> (<https://goo.gl/maps/C4E3PnKsdU92/>)

## General Description

Computer Science is the youngest of the sciences and focuses on the study of computer software, architecture, theory, and applications. This discipline explores computing theory and symbolic computation, the nature of computer architecture and operating systems, data communications, graphics, software engineering, mathematical applications, robotics, artificial intelligence, and system software.

There are many curriculum choices open to students interested in the science of computers. Students interested in the hardware aspect of computers should look at the vocational and transfer courses offered in engineering and electronics programs. Students interested in the operations aspect of computers should review the programs offered in computer information systems and computer literacy courses.

The Computer Science program at Southwestern College focuses on the programming or software aspect of computer science and offers Associate Degrees to prepare students for transfer.

## Career Options

Many career options are available for the Computer Science major. Some of these require an associate in arts degree, most require a bachelor's degree, and some require a graduate degree. Possible career options include: computer scientist, systems analyst, computer service coordinator, software engineer, computer graphic specialist, high school or college teacher, data base administrator, researcher, program analyst, teleprocessing coordinator, knowledge engineer, technical control specialist, systems manager, data processing application programmer, information specialist and positions available in allied professions of business, industry, and scientific technology.

Degree/Certificate Options	Major Code
<b>Associate Degree for Transfer (ADT)</b>	
Computer Science (SB1440) ( <a href="http://catalog.swccd.edu/associate-degree-certificate-programs/computer-science/ast/">http:// catalog.swccd.edu/associate-degree-certificate-programs/computer-science/ast/</a> )	01185
<b>Associate in Arts Degree: Transfer Preparation</b>	
Computer Science ( <a href="http://catalog.swccd.edu/associate-degree-certificate-programs/computer-science/aa/">http:// catalog.swccd.edu/associate-degree-certificate-programs/computer-science/aa/</a> )	01180

Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.

## Faculty

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