

# COMPUTER SCIENCE ASSOCIATE OF SCIENCE DEGREE

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This degree is designed to provide students with the fundamentals of software engineering, information processing concepts, and programming to prepare them for entry-level positions as programmers for scientific and business applications.

Code	Title	Units
<b>Required Courses</b>		
CIT 100	Introduction to Personal Computers	3
CS 077	Introduction to C-Sharp	4
CS 100	Advanced C-Sharp Programming	4
CS 102	Introduction to Python Programming	3
CS 110	Fundamentals of Computer Science	3
CS 120	Introduction to Visual Basic.NET	4
CS 220	Advanced Visual Basic.Net Programming	4
CS 190	Programming in C++	4
or CS 215	Programming with Java	
<b>Total Units</b>		<b>29</b>

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

## Program Learning Outcomes

At the completion of this program, students will be able to:

- Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements
- Communicate effectively in a variety of professional contexts
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical coding principles
- Function effectively as a member or leader of a team engaged in activities
- Apply computer science theory and software development fundamentals to produce computing-based solutions
- Collaborate with other team members to analyze and develop program logic specific to any assigned project
- Develop computer literacy skills to conduct basic research, assess new ideas and information and be prepared for lifelong learning