

ASSOCIATE OF SCIENCE IN COMPUTER PROGRAMMING & INFORMATION SYSTEMS (AS)

This degree prepares students for entry-level employment in the field of Computer Programming & Information Systems through the study of skills in computer programming, web development, databases, maintaining computer programs and databases, as well as general computer and office skills. Students will acquire skills in computer programming, web development, scripting, computer technical support, database development/maintenance.

Program Outcomes

- Be able to design and code basic software for business use.
- Be able to code programs in high-level programming languages such as Visual Basic and Java.
- Be able to create and modify databases.
- Be able to code interactive webpage.

Career Opportunities

Upon successful completion of this degree, students will be prepared for careers or employment in the following fields: computer programming, web design, computer technical support, database development/maintenance, and various office positions involving computers.

Note

This degree is not designed for transfer; however, the courses included in this degree may be transferable and apply to other degrees designed for transfer.

Program Requirements

Code	Title	Units
GENERAL EDUCATION AND SUBJECT REQUIREMENTS		25
College of the Sequoias' Associate Degree General Education (COS-GE) *		
+		
REQUIRED MAJOR COURSES		26
COMP 005	Computer Concepts	4
or COMP 130	Introduction to Personal Computers	
COMP 006	Programming Fundamentals *	3
COMP 008	Programming Concepts (JAVA)	4
COMP 009	Advanced Application Software	3
COMP 200	Ethics in Computer Programming	3
COMP 230	Java Script/XML	3
COMP 232	Server-Side Scripting and SQL	3
COMP 250	Software Fabrication	3
+		
RESTRICTED ELECTIVES		3-4
Select three units from the following courses:		
BUS 271	College Keyboarding Level 2	3
COMP 229	Web Page Design and Development	3
COMP 233	Database Processing	3

ICT 201	PC Repair and Maintenance	4
ICT 210	Introduction to Microsoft Windows Server	4
+		
ELECTIVES		8-9
Select additional degree applicable courses numbered 1-299 to achieve 60 units.		
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TOTAL		60

- * Courses meet General Education requirements and 3 units may double count above in COS-GE.

The Associate Degree requirements include completion of the:

1. Required major courses and restricted elective courses with a "C" or better grade in each course (required and restricted elective courses may be substituted with the approval of the Division Chair),
2. General Education requirements,
3. Subject requirements including PE, Health & Wellness, and American Institutions, and
4. A minimum of 60 units of degree applicable courses numbered 1-299, at least 12 of which must be taken in residence at College of the Sequoias, with a "C" (2.0) average (see Associate Degree Requirements (<https://catalog.cos.edu/associate-degree-requirements/>) for additional details).