

COMPUTER INFORMATION SCIENCE ASSOCIATE IN SCIENCES (AS)

The major in Computer Information Science prepares students for careers in the Information Technology field. The program provides the analytical, methodological, and language skills required within the computer industry, and prepares students for transfer to four-year colleges for further study in Computer Information Systems, as well as related areas such as Computer Science. Please consult with a counselor for more information regarding transferring.

Career Opportunities

Computer Information Science continues to be an excellent career, with openings in all industries. Technical positions include: computer operator, computer programmer, systems analyst, database administrator, computer support or help desk specialist, Web developer, and application developer.

SUGGESTED COURSE SEQUENCE

First Semester (10 units)

CIS 5	Introduction to Computer Science	5
MATH 3A	Calculus I	5

Second Semester (10 units)

CIS 61	Structure and Interpretation of Computer Programs	5
MATH 3B	Calculus II	5

Third Semester (7 units)

CIS 25	Object Oriented Programming Using C++ or	4
CIS 36A	Java Programming Language I	4
MATH 3E	Linear Algebra	3

Fourth Semester (7-8 units)

CIS 25B	C++ Programming Language or	4
CIS 36B	Java Programming Language II	4
MATH 3F	Differential Equations or	3
MATH 11	Discrete Mathematics	4

TOTAL MAJOR UNITS: 34-35

For Associate Degree General Education requirements, refer to page 115.

PROGRAM LEARNING OUTCOMES

Upon completion of this program a student will be able to:

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- Solve problems and conduct experiments in basic computer science.
 - Solve mathematical problems using calculus, linear algebra, discrete math and differential equations.
 - Create and program algorithmic solutions to solve problems.