

Associate in Applied Science Degree in Computer Science Programming Option

Careers in Computer Science

If you are planning a career as a computer professional, opportunities are endless! Almost every company, no matter how small or large, employs computer specialists, and most of these companies are always looking for qualified people. During the 2000's and beyond, the number of programmers, systems analysts, and computer operators needed to fill available positions will continue to grow.

In addition to computer specialists, trained personnel are needed in all fields. Whether one is seeking employment as a teacher, an accountant, a writer, a fashion designer, a lawyer, or a number of other jobs, one question is frequently asked: What do you know about computers? Interacting with a computer is part of the daily routine for millions of white- and blue- collar workers. No matter the career choice, in all likelihood, one will be a frequent user of computers.

Program Learning Outcomes

These learning outcomes are established for the Computer Science program at the associate degree level:

1. Have a thorough understanding of computer hardware and software principles and functions.
2. Have a detailed understanding of the fundamentals of computer programming
3. Be familiar with differences between mainframe, midrange and desktop computers.
4. Understand the client-server model for program design and implementation.
5. Be knowledgeable of all phases of the systems development life cycle (SDLC).
6. Be familiar with current networking models and network operating systems.

Purpose of the Curriculum

The curriculum is intended to prepare entry-level computer programmers to create or maintain programs and systems for business, industry, health care, education, and government service. The curriculum is designed to train people who seek employment for the first time and for people already employed in some aspect of information technology who want to upgrade their knowledge and skills. Graduates should be able to transfer their knowledge about computer systems and languages to different systems as technological changes occur.

Restricted Electives: Computer Science students may take selections from CS (excluding CS 106)
CS 202, 204, 216, 220, 266

BA /MIS majors may substitute up to two from BA 209, 300, 304, or 345.
*Math 101 plus Math 102 substitute for Math 121

For More Information, Contact:
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Curriculum/Suggested Sequence

FIRST SEMESTER

COLL	101	College 101	3
MATH	121	Pre-Calculus	4
ENGL	101	English Composition I OR	
ENG	110	English Composition I	3
ITEC	101	Prin of Information Systems	3
HUM	101	Intro to Humanities OR	
GED		Gen Ed Fine Arts ¹	<u>3</u>
Total Credits			16

THIRD SEMESTER

CS	114	Intro to Visual Basic OR	
CS	260	Intro to C++ Programming	3
CS	230	Data Base Mgmt Systems	3
ECON	201	Prin of Economics (macro) OR	
ECON	202	Prin of Economics (micro)	3
Elective		Restricted Elective	3
GED		Gen Ed-Science Requirement	<u>3-4</u>
Total Credits			15-16

SECOND SEMESTER

BST	106	Introduction to Business	3
CS	109	Foundations for Programming	3
CS	242	Web Site Design	3
CS	240	Data Communications OR	
ITEC	183	Network +	3-4
ENGL	102	English Composition II OR	
ENGL	112	Technical Writing	<u>3</u>
Total Credits			15-16

FOURTH SEMESTER

BA	203	Business Statistics	3
BA	215	First Year Accounting I	3
CS	280	Intro to Systems Analysis	3
MATH	205	Discrete Mathematics	3
Elective		Restricted Electives	<u>6</u>
Total Credits			18

