

Computer Information Systems (CIS)

This curriculum is designed to prepare graduates for employment opportunities in computer systems and data processing. Positions as programmers and technicians are available in various sectors of business, particularly insurance, banking, public utilities, retailing and manufacturing firms. Schools, colleges and government agencies also employ such individuals. Students entering this curriculum should have successfully completed elementary algebra or Sequential Math Course I.

The Associate in Applied Science (A.A.S.) degree is awarded upon completion of the requirements for this program.

Upon successful completion of the CIS program, graduates should be able to:

- Design an effective LAN and WAN
- Manage, maintain and optimize a LAN
- Develop an understanding of the technical and business aspects of the internet
- Implement routing principles

Courses should be selected in consultation with an advisor.

First Semester

Course No.	Descriptive Title	Credit Hours
ENG 101	Composition I	3
BHS 103	Social Problems in Today's World	3
CIS 111	Computer Systems and Applications	3
CIS 112	Computer Programming I	4
Math (b)		3
TOTAL		16

Second Semester

Course No.	Descriptive Title	Credit Hours
ENG 102	Composition II	3
CIS 114 OR	Computer Programming in C	
CIS 117	Data Communications Concepts	3
CIS 123	Computer Programming II	3
CIS 124	Computer Operating Systems	3
CIS Elective (a)		3
TOTAL		15

Third Semester

Course No.	Descriptive Title	Credit Hours
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CIS 214 OR	C++ Object Oriented Programming	
CIS 216	Windows Server	3
CIS 213	Data Management Concepts	3
CIS 212	Systems Analysis and Design	3
CIS Elective (a)		3
CIS 200 Level Elective (a)		3
Math/Science (b,c)		3-4
TOTAL		18-19

Fourth Semester

Course No.	Descriptive Title	Credit Hours
ECO 105, GOV 121, HIS 104, HIS 108		3
CIS 223	Computer Projects and Applications	3
CIS 200 Level Elective (a)		3
WFE 101	Lifetime Wellness and Fitness	3
Free Elective (d)		3-4
TOTAL		15-16
	TOTAL CREDIT HOURS	64

a. Elective courses: (a) courses applicable in all programs; (b) all courses designated CIS. Three elective credits must be chosen from courses applicable in all programs. Students should note that the program requires 6 credits of 200 level CIS courses. Elective courses may need to be chosen to fulfill the prerequisites of the upper level courses.

b. Mathematics courses: MAT 110, MAT 118, MAT 125, MAT 184, MAT 185, MAT 221. Students must meet course prerequisites.

c. Science courses: Applicable four-credit courses in astronomy, biology, chemistry, geology, physical sciences, physics.

d. Students must fulfill New York State Higher Education required liberal arts and sciences credits by choosing courses from the General Education appendices. Read a full discussion of the free elective requirement.