

# Computer Information Systems

A.A.S. | Associate in Applied Science



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.

**For more information, contact the Admissions Office at (845) 431-8010 or visit [www.sunydutchess.edu/academics](http://www.sunydutchess.edu/academics)**

# Computer Information Systems (CIS)

## COMPUTER INFORMATION SYSTEMS

(HEGIS 5101)

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

		credits
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
		<b>Total: 16</b>

### SECOND SEMESTER

ENG 102	Composition II	3
CIS 114 <u>or</u>	Computer Programming in C <u>or</u>	
CIS 117	Data Communication Concepts	3
CIS 123	Computer Programming II	3
CIS 124	Computer Operating Systems	3
CIS Elective (a)		3
		<b>Total: 15</b>

### THIRD SEMESTER

CIS 214 <u>or</u>	C++ Object Oriented Programming	
CIS 216	Windows Server	3
CIS 213	Advanced Software Applications for Business	3
CIS 212	Systems Analysis and Design	3
CIS Elective (a)		3
CIS 200 Level Elective (a)		3
Math/Science (b, c)		3-4
		<b>Total: 18-19</b>

### FOURTH SEMESTER

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
		<b>Total: 15</b>
		<b>Total Credit Hours: 64</b>

a. Elective courses: (a) courses applicable in designated programs, see page 32; (b) all courses designated CIS. Three elective credits must be chosen from courses applicable in designated 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. Mathematic courses: MAT 110, MAT 118, MAT 125, MAT 184, MAT185, 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 York State Higher Education required liberal arts and sciences credits by choosing courses from the General Education appendices.