

# Associate in Applied Science, Computer Information Systems - Data Center Option

## Degree Type

A.A.S.

## Student Learning Outcomes

Graduates of the Computer Information Systems Program will be able to:

- Demonstrate knowledge of computer networking terminology and components. (CIS 199)
- Install, configure, and upgrade a computer operating system. (CIS 263)
- Install and troubleshoot computer hardware. (CIS 263)

## Area I - Written Composition (3 Credits)

Item #	Title	Credits
ENG 101	ENGLISH COMPOSITION	3

## Area II - Humanities & Fine Arts (6 Credits)

### Fundamentals of Oral Communication or Public Speaking

Choose from:

Item #	Title	Credits
SPH 106	FUNDAMENTALS OF ORAL COMMUNICATION	3
SPH 107	FUNDAMENTALS OF PUBLIC SPEAKING	3

### Humanities & Fine Arts

Choose from:

Item #	Title	Credits
ART 100	ART APPRECIATION	3
ART 203	ART HISTORY I	3
ART 204	ART HISTORY II	3
MUS 101	MUSIC APPRECIATION	3
PHL 206	ETHICS AND SOCIETY	3
REL 100	HISTORY OF WORLD RELIGIONS	3
REL 151	SURVEY OF THE OLD TESTAMENT	3
REL 152	SURVEY OF THE NEW TESTAMENT	3
SPA 201	INTERMEDIATE SPANISH I	3
SPA 202	INTERMEDIATE SPANISH II	3
THR 120	THEATER APPRECIATION	3
THR 126	INTRODUCTION TO THEATER	3

## Area III - Natural Sciences & Mathematics (9 Credits)

### Microcomputer Applications

Item #	Title	Credits
CIS 146	COMPUTER APPLICATIONS	3

### Mathematics

Choose from:

Item #	Title	Credits
MTH 100	INTERMEDIATE COLLEGE ALGEBRA	3
MTH 110	FINITE MATHEMATICS	3
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 231	MATH FOR THE ELEMENTARY TEACHER I	3
MTH 232	MATH FOR THE ELEMENTARY TEACHER II	3
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3
MTH 265	ELEMENTARY STATISTICS	3

### Math, Science, or CIS

Item #	Title	Credits
	Math, Science, or CIS	3

## Area IV - History, Social, & Behavioral Sciences (3 Credits)

Item #	Title	Credits
ECO 231	PRINCIPLES OF MACROECONOMICS	3
ECO 232	PRINCIPLES OF MICROECONOMICS	3
GEO 100	WORLD REGIONAL GEOGRAPHY	3
HIS 101	WESTERN CIVILIZATION I	3
HIS 102	WESTERN CIVILIZATION II	3
HIS 201	UNITED STATES HISTORY I	3
HIS 202	UNITED STATES HISTORY II	3
POL 211	AMERICAN NATIONAL GOVERNMENT	3
PSY 200	GENERAL PSYCHOLOGY	3
PSY 210	HUMAN GROWTH AND DEVELOPMENT	3
SOC 200	INTRODUCTION TO SOCIOLOGY	3
SOC 210	SOCIAL PROBLEMS	3

## Area V - Pre-Professional, Major, & Elective Courses (41 Credits)

Item #	Title	Credits
CIS 149	DIGITAL LITERACY	3
CIS 150	INTRODUCTION TO COMPUTER LOGIC AND PROGRAMMING	3
CIS 199	NETWORK COMMUNICATIONS	3
CIS 263	COMPUTER MAINTENANCE	3
CIS 171	LINUX I	3
CIS 172	LINUX II	3
CIS 276	SERVER ADMINISTRATION	3
	PRINCIPLES OF INFORMATION ASSURANCE OR NETWORK SECURITY	3

### Python, Visual Basic, or C++ Programming

Choose from:

Item #	Title	Credits
CIS 202	PYTHON PROGRAMMING	3
CIS 212	VISUAL BASIC PROGRAMMING	3
CIS 251	C++ PROGRAMMING	3

### Mathematics

Choose from:

Item #	Title	Credits
MTH 112	PRECALCULUS ALGEBRA	3
MTH 113	PRECALCULUS TRIGONOMETRY	3
MTH 120	CALCULUS AND ITS APPLICATIONS	3
MTH 125	CALCULUS I	4
MTH 126	CALCULUS II	4
MTH 227	CALCULUS III	4
MTH 237	LINEAR ALGEBRA	3
MTH 238	APPLIED DIFFERENTIAL EQUATIONS I	3

### Google IT I - V, Network Cable – Fiber Optic, or Workplace Skills

Choose from:

Item #	Title	Credits
CIS 120	GOOGLE IT PROFESSIONAL SUPPORT I— TECHNICAL SUPPORT FUNDAMENTALS	3
CIS 121	GOOGLE IT PROFESSIONAL SUPPORT II— COMPUTER NETWORKING	3
CIS 122	GOOGLE IT PROFESSIONAL SUPPORT III— OPERATING SYSTEMS	3
CIS 123	GOOGLE IT PROFESSIONAL SUPPORT IV—SYSTEM ADMINISTRATION AND IT INFRASTRUCTURE	3
CIS 124	GOOGLE IT PROFESSIONAL SUPPORT V—IT SECURITY	3
ILT 238	NETWORK CABLE - FIBER OPTIC	2
WKO 106	WORKPLACE SKILLS	3
	Total Credits	62