

# COMPUTER INFORMATION SYSTEMS, Associate in Applied Science Degree - 1796

Engineering, Trades & Computer Technologies Department

CIP Code: 11.1006

The Computer Information Systems AAS degree provides students with the essential knowledge and skills in computer software, hardware, and network communication needed for entry into the computer information technology job market. Students are able to focus their studies by choosing one of two concentrations: **Support Specialist**, which concentrates on technical support with software, hardware, and security and **Database Analyst**, which emphasizes database management and administration. Graduates of both concentrations apply their cumulative knowledge and skills through a capstone experience, which results in the completion of an individual electronic portfolio. This program can be completed entirely through asynchronous instruction.

## Career Opportunities

Graduates may obtain entry-level positions within many different businesses, government agencies, computer consulting firms, health care, and educational institutions. Depending on the degree concentration the student has chosen, below are the specific occupations associated with each of the two concentrations:

- **Support Specialist:** computer operator, help-desk analyst and technical support specialist
- **Database Analyst:** database analyst, database administrator and data modeler

## Competency Profile

These degree concentrations are designed to prepare students to:

### The Support Specialist:

- Manage and troubleshoot computer software, hardware and networks
- Operate a help-desk support system

### The Database Analyst:

- Develop and manage a database system through an entire life-cycle
- Program complex data queries and analyze data using business intelligence tools

## PROGRAM REQUIREMENTS (TOTAL CREDITS = 61)

General Education		Major Requirements		Other Required Courses
ENGL 101 English Composition I	3	CIS 105 Introduction to Software for Business	3	
COMM 101 Effective Speaking (or)	3	CIS 110 Introduction to Computer Information Systems	3	
COMM 203 Interpersonal Communication	(3)	CIS 135 Intermediate Spreadsheet Application	3	
Humanities & Arts Core Elective	3	CIS 140 Intermediate Database Management	3	
Social & Behavioral Science Core Elective	3	CNT 120 Network Communication Technology I	3	
First-Year-Seminar Elective	1			15
Wellness Elective	1			
	14			
<b>Support Specialist Concentration</b>		<b>Database Analyst Concentration</b>		
CIS 126 Computer Hardware	4	CIS 224 Systems Analysis and Design	4	
CIS 131 Operating Systems	3	CIS 239 Database Report Development	3	
CIS 222 Introduction to Windows Servers	3	CIS 241 Database Administration I	3	
CIS 227 Technical Support	3	CIS 243 Database Administration II	3	
CIS 266 CIS Capstone	3	CIS 245 Database Programming	3	
CISE 100 Information Security Fundamentals (or)	3	CIS 257 Data Warehouse	3	
CISE 211 Ethical Hacking & Incident Response	(3)	CIS 266 CIS Capstone	3	
Mathematics or Science Core Elective	3	Computer-Related Elective**	3	
WEB 102 Web Exploration and Design	3	Database-Related Elective***	3	
Computer Programming Elective*	3	Mathematics or Science Core Elective - MATH 202	4	
Computer-Related Elective**	6		32	
	34			

\*Students select one of the following **computer-programming electives**: CPS 113, 121; DAT 105; WEB 143.

\*\*Students select 6-credits of **computer-related electives** from the following areas: CIS, CISE, CNT, GIS and WEB.

\*\*\*Select any **database-related elective** from the following: CIS 222, 247, 264; or WEB 126, 143.

**Note:** Grades of C, or higher, are required for all computer-related courses (CIS, CISE, CNT, CPS, GIS, and WEB). Students must complete CIS 105 with a grade of C, or higher, prior to enrolling into certain courses within the major. They may test out of CIS 105 through a Credit by Examination.

### RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

Part-time students can complete this program by taking one or more courses each semester.

#### Support Specialist Concentration

Fall Semester I		Spring Semester I		Summer	Fall Semester II		Spring Semester II	
CIS 105	3	CIS 126	4	CIS 222 3	CISE 100 or 211	3	CIS 227	3
CIS 110	3	CIS 135	3		CIS 131	3	CIS 266	3
CNT 120	3	CIS 140	3		Computer Programming Elective*	3	Computer-Related Elective**	3
COMM 101 or 203	3	Computer-Related Elective**	3		Social/Behavioral Science Core Elective	3	Humanities/Arts Core Elective	3
ENGL 101	3	WEB 102	3		Wellness Elective	1	Math/Science Core Elective	3
FYS Elective	1							

#### Database Analyst Concentration

Fall Semester I		Spring Semester I		Summer	Fall Semester II		Spring Semester II	
CIS 105	3	CIS 135	3	CIS 241 3	CIS 239	3	CIS 224	4
CIS 110	3	CIS 140	3		CIS 243	3	CIS 245	3
CNT 120	3	Humanities/Arts Core Elective	3		CIS 257	3	CIS 266	3
COMM 101 or 203	3	MATH 202	4		Computer-Related Elective**	3	Social/Behavioral Science Core Elective	3
ENGL 101	3				Database Elective***	3	Wellness Elective	1
FYS Elective	1							