

A student receiving a degree in this field will be able to:

- Apply analytical and logical thinking to gathering and analyzing information, designing and testing solutions to problems, and formulating plans
- Discuss the impact of information technology on society and the workplace
- Work collaboratively in a team setting
- Select and evaluate appropriate written communication strategies and styles for a specific purpose
- Demonstrate knowledge of individual parts that make up a stand-alone PC computer system, and the relationships between components
- Create and maintain Web pages
- Demonstrate an understanding of the overall design and components of a LAN and WAN system

To complete the requirements for the Associate of Arts for this degree*, a student must:

1. Complete the requirements for an associate degree.
2. **Complete a minimum of 28 units with a "C" or better in each course** in the following major.
3. Complete elective units to meet the minimum 60 units required for the associate degree.

Required Courses:		Units	IP	Need	Grade
CIS 101 or BUSAD 230	Introduction to Computer and Information Technology or Using Computers for Business	3			
CIS 104 or CIS 113 or CIS 114	Object Oriented Programming with Visual Basic or Java Programming or C++ Programming I	3			
CIS 111	Web Page programming and Design	3			
CIS 130	Hardware and Information Technology	3			
CIS 140	Introduction to Networks (Cisco CCNA 1)	4			
Total Required Units:		16			

Select one area of emphasis from the following three options:

Emphasis in Programming:		Units	IP	Need	Grade
Complete at least twelve (12) additional units from the following courses:					
CIS 104	Object Oriented Programming with Visual Basic	3			
CIS 113	Java Programming	3			
CIS 114	C++ Programming I or	3			
CIS 116	C++ Programming II	3			
CIS 117	Scripting	3			
Total Additional Emphasis Units:		12			

Emphasis in Webmaster:		Units	IP	Need	Grade
Complete at least twelve (12) additional units from the following courses:					
CIS 117	Scripting	3			
CIS 161	Website Design & Programming Using Dreamweaver	3			
CIS 162	Introduction to Flash	3			
CIS 163	Introduction to PhotoShop	3			
CIS 211	Cascading Style Sheet (CSS) Web Design	3			
Total Additional Emphasis Units:		12			

Emphasis in Computer Assisted Graphic Design: Complete at least twelve (12) additional units from the following courses:		Units	IP	Need	Grade
ART 120 or ART 124	Foundations of Two-Dimensional Design or Drawing I	3			
CIS 162	Introduction to Flash	3			
CIS 163	Introduction to PhotoShop	3			
CIS 165	Introduction to 3D Modeling & Animation	3			
CIS 166	Advanced 3D Modeling & Animation	3			
CIS 180	Computer Graphics with Adobe Illustrator	1-3			
CIS 184	Photoshop and Digital Photography	3			
Total Additional Emphasis Units:		12			

Total Required and Additional Emphasis Units:	28				
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**Lower division requirements for students interested in transferring to a four-year institution in this field may differ from Associate degree requirements. Prospective students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at www.assist.org.*