

# Associate of Applied Science - Computer Systems and Applications

## Program Description

The Computer Systems and Applications degree program prepares students for employment in entry level positions in the computing field. Students interested in a transfer program in computer science or business information systems should see an academic advisor for an educational plan.

**Note:** Prior to enrolling in any Computer Systems and Applications (CSA) course, the student must complete CSA111 - Keyboarding or demonstrate mastery of keyboarding skills.

## Program Contacts

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## Program Outcomes

Upon successful completion of the Computer Systems and Applications Degree program, the learner will be able to:

1. Define a problem with possible solutions and follow through to a possible solution. (CNT 110, CSA 110, CSA 126, CSA 161, CSA 164, CSA 167, CSA 170, CSA 179, CSA 201, CSA 266, CSA 281, CSA 282, CSA 294, WEB/ART 130)
2. Identify and evaluate technology needs, and apply and adapt acquired skills to address the identified needs. (CNT 100, CNT 110, CSA 161, CSA 164, CSA 167, CSA 170, CSA 179, CSA 201, CSA 266, CSA 281, CSA 294)
3. Communicate ideas clearly and effectively. (CNT 100, CNT 110, CSA 110, CSA 126, CSA 170, CSA 179, CSA 201, CSA 281, CSA 282, CSA 294, WEB/ART 130)
4. Use technology to solve problems and increase productivity. (CNT 100, CNT 110, CSA 110, CSA 126, CSA 161, CSA 164, CSA 167, CSA 170, CSA 179, CSA 201, CSA 266, CSA 281, CSA 282, CSA 294, WEB/ART 130)
5. Identify ethical issues in the business environment. (CSA 110, CSA 294)

## Program Requirements

A minimum of 64 credit hours is required to complete the Computer Systems and Applications Degree.

Course	Course Title	Credit Hours
<b>I. General Education</b>		
<b>A. Foundation Studies (12 credits)</b>		
<b>1. College Composition (6 credits)</b>		
	ENG101 College Composition I	3
<b>OR</b>	ENG103 College Composition I Honors	3
	ENG102 College Composition II	3
<b>OR</b>	ENG104 College Composition II Honors	3
<b>2. Numeracy (3 credits)</b>		
	MAT152 College Algebra	3
<b>OR</b>	MAT167 Elementary Statistics	3
<b>OR</b>	MAT172 Finite Mathematics	3
<b>OR</b>	MAT187 Precalculus	5
<b>OR</b>	MAT212 Survey of Calculus	3
<b>OR</b>	MAT220 Calculus & Analytic Geometry I	5
<b>OR</b>	MAT230 Calculus & Analytic Geometry II	5
<b>OR</b>	MAT241 Calculus III	4
<b>OR</b>	MAT262 Elementary Differential Equations	3
<b>3. Critical Thinking (3 credits)</b>		
<b>B. Area Studies (7 credits)</b>		
<b>1. Physical and Biological Science (4 credits)</b>		
<b>2. Behavioral OR Social Science (3 credits)</b>		

Course	Course Title	Credit Hours	
Choose one course from either list			
<b>II. Computing Systems &amp; Applications Requirements</b>			
CSA110	Intro Computer Info System	3	
CSA126	Microsoft Office	3	
CSA161	Intro to Computer Science	3	
CSA164	C# Programming Fundamentals	3	
CSA167	PHP and MySQL Programming	3	
CSA170	PC Architecture	3	
CSA179	Survey Operating Systems	3	
CSA201	Software Maintenance	3	
CSA266	Adv Web Enhancement ASP.NET 4	3	
CSA281	Systems Analysis and Design	3	
CSA282	Microcomputer Database	3	
CSA294	CSA Project	1	
<b>AND</b>	CSA294	CSA Project	1
<b>III. Related Requirements</b>			
BSA102	Career Search and Success	1	
CNT100	Intro to Computer Networking	3	
CNT110	A+ Comp Tech Certification	4	
<b>OR</b>	ART130	Web Site Design I	3
	WEB130	Web Site Design I	3