

ASSOCIATE OF APPLIED SCIENCE IN COMPUTER INFORMATION SYSTEMS

The computer information systems program offers students the flexibility of earning either a two-year AAS degree or continuing for an additional two years to obtain a four-year BSAS degree through the two-plus-two program.

This discipline covers both the technical and end-user aspects of computing, using PCs through mainframe computers with hands-on experience.

Student skills are developed in computation that includes:

- application programming
- networking and telecommunications
- database design
- cyber security
- analysis of complex business and technical environments

CIS graduates of the AAS degree program will continue their studies towards a bachelor's degree in a computer or information technology area or obtain employment as programmers, computer specialists, and in other closely related fields.

CIS graduates of the BSAS degree program will obtain full-time employment as programmers, network administrators, systems analysts, computer specialists, and in other closely related fields.

Associate Degree Program

The computer information systems associate degree program emphasizes the use of computers to solve business or science problems. The graduate may be employed in positions involving direct use of microcomputers and mainframe computers for business or science administration and decision support applications. This degree may be earned in four semesters if students average 16 hours per semester.

Students wishing to receive the Associate of Applied Science in computer information systems must complete the following:

COURSE	TITLE	S.H.
FIRST YEAR REQUIREMENT -STUDENT SUCCESS		
YSU 1500	Success Seminar	1-2
or SS 1500	Strong Start Success Seminar	
or HONR 1500	Intro to Honors	
General Education Requirements		
ENGL 1550	Writing 1	3-4
or ENGL 1549	Writing 1 with Support	
ENGL 1551	Writing 2	3
CMST 1545	Communication Foundations	3
MATH 1570	Applied Calculus 1	4
2 Gen Ed courses from two of the three areas: NS (one must have a lab), AH, or SS		6
Major Requirements		
CSIS 1590	Survey of Computer Science and Information Systems	3
CSIS 1595	Fundamentals of Programming and Problem- Solving 1	3
CSIS 2605	Fundamentals of Programming and Problem- Solving 2	3
CSIS 3722	Development of Databases	3
CSIS 3723	Networking Concepts and Administration	3

CSIS 3726	Visual/Object-Oriented Programming	4
CSIS 3760	Electronic Commerce Programming	3
ACCT 2602	Financial Accounting	3
Support Courses		
ACCT 2603	Managerial Accounting	3
ENGL 3743	Professional and Technical Writing	3
PHIL 2619	Introduction to Logic	3
Electives		
Select at least 5-6 additional semester hours of upper division CIS electives.		6-7
Total Semester Hours		60-63

Year 1

Fall		S.H.
YSU 1500	Success Seminar	1
CSIS 1590	Survey of Computer Science and Information Systems	3
CSIS 1595	Fundamentals of Programming and Problem-Solving 1	3
ENGL 1550	Writing 1	3
MATH 1570	Applied Calculus 1	4
Natural Science GER		3
Semester Hours		17

Spring

CSIS 2605	Fundamentals of Programming and Problem-Solving 2	3
ENGL 1551	Writing 2	3
CMST 1545	Communication Foundations	3
PHIL 2619	Introduction to Logic	3
PHIL 2625	Introduction to Professional Ethics	3
Semester Hours		15

Year 2

Fall		
CSIS 3722	Development of Databases	3
CSIS 3723	Networking Concepts and Administration	3
CIS or CSIS Elective		3
CIS or CSIS Elective		3
ACCT 2602	Financial Accounting	3
Semester Hours		15

Spring

CSIS 3726	Visual/Object-Oriented Programming	4
CSIS 3760	Electronic Commerce Programming	3
CIS or CSIS Elective		3
ACCT 2603	Managerial Accounting	3
ENGL 3743	Professional and Technical Writing	3
Semester Hours		16
Total Semester Hours		63

Learning Outcomes

1. The Associates program in Computer Information Systems provides preparation for students to develop problem-solving techniques to aid in the design, coding, debugging and documentation of high-level programming languages.
2. The Associates program in Computer Information Systems provides preparation for students to understand the basic structure, design, development, implementation, and modification of databases for use in management of information systems.

2 Associate of Applied Science in Computer Information Systems

3. The Associates program in Computer Information Systems provides preparation for students to understand network topologies and the design, administration, and performance monitoring of computer networks and network applications.
4. The Associates program in Computer Information Systems provides preparation for students to use visual/object-oriented programming languages to develop interactive, database and internet programs.
5. The Associates program in Computer Information Systems provides preparation for students to write programs for client/server systems related to electronic commerce using server-side languages such as Perl and client-side languages such as JavaScript.