

BACHELOR OF SCIENCE IN APPLIED SCIENCE IN COMPUTER INFORMATION SYSTEMS

Bachelor's Degree Program

The computer information systems professional will develop his or her ability to conceptualize, design, and implement high-quality information systems based upon computer systems ranging from a single-user system to complex, interactive, and multi-user distributed systems. This degree may be earned in eight semesters if students average 15-16 hours per semester.

Bachelor's Degree Program

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Curriculum Sheet

Students wishing to receive a Bachelor of Applied Science in Computer Information Systems must complete the following:

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Students wishing to receive the Bachelor 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
Mathematics Requirement (met through MATH in major)		Included in Support Courses
Arts and Humanities (6 s.h.)		
PHIL 2625	Introduction to Professional Ethics (credits applied in major)	3
One additional Arts and Humanities course		
Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)		
Social Science (6 s.h.)		
Social and Personal Awareness (6 s.h.)		
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

CIS 4840	Business System Analysis and Design	4
Departmental Electives		
Select at least 21 additional semester hours from CSIS 1525, 2620, or Upper Division electives		21
Support Courses		
ACCT 2602	Financial Accounting	3
ACCT 2603	Managerial Accounting	3
STAT 3717	Statistical Methods	4
MATH 1570	Applied Calculus 1	4
ENGL 3743	Professional and Technical Writing	3
PHIL 2619	Introduction to Logic	3
Minor		18
Select at least 18 semester hours. Some Gen Ed courses may be included in the minor		

Total Semester Hours 120-122

Four Year Plan

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Year 1		S.H.
Fall		
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	3-4
or ENGL 1549	or Writing 1 with Support	
MATH 1570	Applied Calculus 1	4
GER Natural Science		3
Semester Hours		17-18
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
GER Social Science		3
Semester Hours		15
Year 2		
Fall		
CSIS 3722	Development of Databases	3
CSIS 3723	Networking Concepts and Administration	3
CIS/CSIS Upper Division Elective		3
Minor course		3
ACCT 2602	Financial Accounting	3
Semester Hours		15
Spring		
CSIS 3726	Visual/Object-Oriented Programming	4
CSIS 3760	Electronic Commerce Programming	3
Minor course		3
ACCT 2603	Managerial Accounting	3
ENGL 3743	Professional and Technical Writing	3
Semester Hours		16
Year 3		
Fall		
CIS/CSIS Upper Division Elective		3
PHIL 2625	Introduction to Professional Ethics (AH)	3

STAT 3717	Statistical Methods	4
Minor course		3
GER Social & Personal Awareness		3
Semester Hours		16
Spring		
CIS/CSIS Upper Division Elective		3
CIS/CSIS Upper Division Elective		3
Minor course		3
GER Natural Science + Lab		4
GER Social Science		3
Semester Hours		16
Year 4		
Fall		
CIS/CSIS Upper Division Elective		3
CIS/CSIS Upper Division Elective		3
Minor course		3
GER Arts & Humanities		3
GER NS, AH, SS, or SPA		3
Semester Hours		15
Spring		
CIS 4840	Business System Analysis and Design	4
CIS/CSIS Upper Division Elective		3
Minor course		3
GER Social & Personal Awareness		3
Semester Hours		13
Total Semester Hours		123-124

- The Bachelors program in Computer Information Systems provides preparation for students to use visual/object-oriented programming languages to develop interactive, database and internet programs.
- The Bachelors program in Computer Information Systems provides preparation for students to write programs for client/server web systems related to electronic commerce using server-side languages such as Perl and client-side languages such as JavaScript.
- The Bachelors program in Computer Information Systems provides preparation for students to demonstrate oral communication skills for the analysis, design, development and maintenance of business systems.
- The Bachelors program in Computer Information Systems provides preparation for students to demonstrate written communication skills for the analysis, design, development and maintenance of business systems.

The Bachelors Program in Computer Information Systems provides preparation for students:

- to develop problem-solving techniques to the design, coding, debugging and documentation of high-level programming languages.
- to analyze the basic structure, design, development, implementation, and modification of databases for use in information systems.
- to analyze network topologies and the design, administration, and performance monitoring of computer networks and network applications.
- to use visual/object-oriented programming languages to develop interactive, database and internet programs.
- to write programs for client/server web systems related to electronic commerce using server-side languages such as Perl and client-side languages such as JavaScript.
- to demonstrate oral communication skills for the analysis, design, development, and maintenance of business systems.
- to demonstrate written communication skills for the analysis, design, development, and maintenance of business systems.

Learning Outcomes

- The Bachelors 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.
- The Bachelors program in Computer Information Systems provides preparation for students to analyze the basic structure, design, development, implementation, and modification of databases for use in management of information systems.
- The Bachelors program in Computer Information Systems provides preparation for students to analyze network topologies and the design, administration, and performance monitoring of computer networks and network applications.