

ONLINE PROGRAMS

COMPUTER INFORMATION SCIENCE (BS) - ONLINE

Credential	Credit Units	Length	Campuses	Version
Bachelor of Science Degree	192	48 months	Online	1-5

The Bachelor of Science degree offers graduates special training in the analysis, design, implementation, maintenance, and use of computer information systems and database systems. The program focuses on the concepts, principles, goals, functions, and management of information-driven organizations, stressing the development of computer-based applications through the use of programming languages. To ensure graduation with the minimum number of courses, students should choose the CIS Programming concentration for their lower division studies.

Course Code	Course	Bachelor's Degree Quarter Credit Hrs.
COLLEGE CORE REQUIREMENTS		
SLS	1105 Strategies for Success	4.0
SLS	1321 Career Skills	2.0
CGS	2167C Computer Applications	4.0
Choose one of the following courses:		
CEN	1056C Project Development	2.0
MAN	2031 Let's Talk Business	2.0
TOTAL QUARTER CREDIT HOURS		12.0
MAJOR CORE REQUIREMENTS – PROGRAMMING CONCENTRATION		
APA	2111 Principles of Accounting I	4.0
APA	2121 Principles of Accounting II	4.0
BUL	2131 Applied Business Law	4.0
CEN	1509C Computer Networking Fundamentals	4.0
CGS	1763C Computer Operating Systems	4.0
CGS	1280C Computer Hardware Concepts	4.0
COP	2010C Programming Concepts	4.0
CGS	2461C Fundamental Programming Techniques	4.0
CIS	2325 Introduction to the Systems Development Life Cycle	4.0
	Approved IT Electives*	8.0
Choose two of the two-course language sequences from the choices listed (4 credits each).		16.0
COP	2170C Computer Programming – Visual Basic I	
COP	2171C Computer Programming – Visual Basic II	
COP	2224C Computer Programming – C++ I	
COP	2228C Computer Programming – C++ II	
COP	2250C Programming Languages – Java I	
COP	2805C Programming Languages – Java II	
REQUIRED UPPER DIVISION COURSES		
CIS	3345 Database Concepts I	4.0
COP	3764C Structured Query Language	4.0
COP	4724C Database Application Development	4.0
CIS	3615 Designing Secure Software	4.0
CIS	3303C Object-Oriented Analysis and Design	4.0
CGS	4763 Survey of Operating Systems	4.0
CIS	4329C Senior Project: Systems Analysis and Design	4.0
CIS	4328C Senior Project: Systems Implementation and Integration	4.0
PROGRAMMING MAJOR CORE		92.0
*Approved IT Electives to be selected in consultation with the Academic Advisor, Registrar, or Academic Dean from available coursework in the major (typically those courses with CEN, CIS, CGS, COP, CTS and CET prefixes).		
Approved Electives		32.0
To be selected in consultation with the Academic Advisor, Registrar or Academic Dean to achieve a Balanced educational program in keeping with the personal objectives and career ambitions of the student. 8 credits of the Approved Electives must be upper-division courses.		
GENERAL EDUCATION REQUIREMENTS		
ENC	1101 Composition I	4.0
ENC	1102 Composition II	4.0
POS	2041 American National Government	4.0
MAT	1033 College Algebra	4.0
PSY	2012 General Psychology	4.0
AML	2000 Introduction to American Literature	4.0
SYG	2000 Principles of Sociology	4.0

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AMH	2030	20th Century American History	4.0	
ECO	3015	Macroeconomics	4.0	
ECO	3028	Microeconomics	4.0	
STAP	3014	Statistics	4.0	
SOP	4005	Social Psychology	4.0	
CPO	4004	Global Politics	4.0	
ENC	3211	Report Writing	4.0	
		TOTAL QUARTER CREDIT HOURS		56.0
TOTAL QUARTER CREDIT HOURS REQUIRED FOR GRADUATION				192.0