

# CERTIFICATE IN COMPUTER INFORMATION SYSTEMS

McCoy Hall 404 or visit the Department website at [www.cis.txstate.edu](http://www.cis.txstate.edu) (<http://www.cis.txstate.edu>).

The Department of Computer Information Systems and Quantitative Methods offers an intensive program leading to a Certificate in Computer Information Systems (CIS). The program is directed at students who wish to gain information technology (IT) exposure without having to pursue a full degree program in Computer Information Systems. Students who wish to pursue the Computer Information Systems Certificate are required to be a Texas State University Undergraduate degree seeking or post-baccalaureate student. The primary objective of the program is to offer an option to non-IT professionals and non-CIS majors to gain an initial expertise in the use of information technology to develop computer-based business information systems. Students must apply for admission in the Department of Computer Information Systems and Quantitative Methods prior to taking any courses and successfully complete 18 semester hours of course work in information technology (IT). These include 12 semester credit hours of required core CIS courses and 6 semester credit hours of CIS advanced elective courses.

The certificate requires 18 semester credit hours.

Code	Title	Hours
<b>Required Courses</b>		
CIS 2324	Visual Programming I	3
CIS 3325	Visual Programming II	3
CIS 3374	System Analysis & Design	3
CIS 3382	Computer Data Base Systems	3
<b>Electives</b>		
Choose 6 hours from the following:		6
CIS 3350	Information Security Assurance: Principles and Practices	
CIS 3360	Web Applications Design and Development	
CIS 3375	Enterprise Computing Skills using COBOL	
CIS 3389	Programming for Data Processing	
CIS 3390	Agile Project Management	
CIS 4318	Enterprise System Development and Application Security	
CIS 4319	Mobile Application Development for Windows	
CIS 4320	Mobile Application Development for Apple-iOS	
CIS 4321	Mobile Application Development for Android	
CIS 4322	Computer System Development and Design	
CIS 4332	Enterprise Resource Planning Systems	
CIS 4348	Fundamentals of Data Communications	
CIS 4349	Advanced Database Management Systems	
CIS 4350	Information Systems Security	
CIS 4358	Network Administration	
CIS 4360	Developing Business Solutions for the Enterprise	
CIS 4395	Independent Study in Computer Information Systems	
CIS 4399	Computer Information Systems Internship	
<b>Total Hours</b>		<b>18</b>

Students interested in pursuing the certificate program should contact the Chair of Computer Information Systems and Quantitative Methods,