

MANAGEMENT OF INFORMATION SYSTEMS (MIS) CERTIFICATE

27 Semester Credit Hours; Curriculum: 0145

This certificate prepares students to use computer technology for solving real-world business issues in information systems such as billing, payroll, financial transaction, scheduling, and customer service.

Code	Title	Hours
Courses for a Certificate		
CIS 201	Information Systems for Business	3
CIS 203	Managing Information Systems	3
CIS 204	Introduction to System Analysis and Design	3
CIS 205	Documentation and Technical Writing	3
or MGT 118	Effective Management Communications	
CIS/MGT 236	Project Management	3
CIS 241	Database Management	3
CNS elective		3
Select one of the tracks below		6-8
Total Hours		27

Code	Title	Hours
Database Applications Track		
Select two courses from the following:		6
CIS 143	Introduction to SQL	
CIS 145	Database Fundamentals I	
CIS 241	Database Management	
CIS 245	Database Fundamentals II	
CIS 209	Database Programming for PCs	

Code	Title	Hours
Programming Applications Track		
Select two courses from the following:		8
CIS 180	Introduction to Visual Basic .NET Programming	
Any 200-level programming language course (CIS 210 or CIS 209 recommended)		

Code	Title	Hours
Web Applications Track		
Select two courses from the following:		7
CIS 171	Advanced Web Page Development	
CIS 214	Web Site Maintenance and Management	
CIS 248	Web Database Management	
Or other CIS courses (contact an academic advisor for a list of acceptable courses)		

Prior to pursuing this certificate, it is strongly recommended that the student has successfully completed a computer literacy course (CIS 101 or CIS 103); CIS 116; CAB 135; CAB 140; a computer programming course (CSC 155; or CSC 156; or CSC 157); CIS 131; or possesses comparable knowledge. Credits earned in these courses are not applicable to the certificate.

Management of Information Systems (MIS) Certificate Pathway

The following Pathway is recommended for students pursuing the Management of Information Systems (MIS) Certificate.

First Year		
Semester One		Hours
CIS 201	Information Systems for Business	3
CIS 204	Introduction to System Analysis and Design	3
CIS 236	Project Management	3
CIS 205	Documentation and Technical Writing	3
or MGT 118	or Effective Management Communications	
Any CNS course (example: CNS 105)		3
Hours		15
Semester Two		
CIS 203	Managing Information Systems	3
CIS 241	Database Management	3
Select two courses from one of the following tracks:		6-8
Database Applications Track (6-7 credit hours)		
CIS 143	Introduction to SQL	
CIS 145	Database Fundamentals I	
CIS 245	Database Fundamentals II	
CIS 209	Database Programming for PCs	
Programming Applications Track (8 credit hours)		
CIS 180	Introduction to Visual Basic .NET Programming	
Any 200-level Programming Language course:		
CIS 209	Database Programming for PCs (recommended)	
CIS 210	Visual Basic .NET Programming for Files and Databases (recommended)	
Web Applications Track (7-8 credit hours)		
CIS 171	Advanced Web Page Development	
CIS 214	Web Site Maintenance and Management	
CIS 248	Web Database Management	
or other CIS course (contact an academic advisor for a list of acceptable courses)		
Hours		12-14
Total Hours		27-29

Note: Pathway is a recommended sequence and selection of courses. Part-time students should contact the program coordinator to discuss a part-time pathway as well as course prerequisites and recommendations.

Program Learning Outcomes

1. Apply the computer concepts and skills learned to solve business problems.
2. Understand the significant role the database plays in the business environment and have the ability to design, develop, and maintain data.
3. Know the steps in the systems life cycle and be able to use the tools to analyze, design, and implement information systems.
4. Understand the role of project management, the feasibility and planning a project, and the tools used in managing a project.
5. Understand the ethical and societal concerns regarding computer technology.
6. Demonstrate an ability to work effectively in teams and communicate orally and in writing.
7. Understand the role computer programming plays in an information system and be able to write simple programs using a database application, a programming language, or HTML.