INFORMATION SYSTEMS, M.S.

Objectives

The Master of Science in Information Systems (MSIS) is designed to provide graduates with the knowledge and skills to leverage information technology that improves business processes and effectiveness. The program enables graduates to attain a solid background in information systems management in the public or private sectors, and serves as foundation for continued professional growth in the field. It is also designed for the student who wants to develop depth and expertise in the information systems field.

The MSIS program provides students the opportunity to tailor their program of study to their specific career goals. Prior background in information systems is not required for admission.

Admission

Applicants must have a bachelor's degree from an accredited university or college. Applicants must present a grade point average and scores on the GMAT or GRE that are predictive of success in this program. Applicants must adhere to the general admissions requirements for graduate study at Baylor University and also meet the admission requirements of the Master of Science in Information Systems degree program. Additional admissions requirements can be found under the Business School Admissions.

Curriculum

As a part of the MSIS curriculum, all MSIS students are required to demonstrate competency in four core content areas; programming, systems analysis and design, database, and information security. This competency may be shown by successful completion of specific courses as a part of their matriculation in the MSIS program, or by successful completion of these courses in previous undergraduate information systems or computer science programs:

Code	Title	Hours
MIS 5301	Seminar in Object-Oriented Business Programming	3
MIS 5315	NET Systems Development	3
MIS 5317	Seminar in Java Development	3
MIS 5322	Advanced Python for Analytics	3
MIS 5335	Information Systems Analysis and Design	3
MIS 5340	Database Management Systems	3
ISEC 5305	Seminar in Information Security Foundations	3

In all cases, students are required to complete either 36 hours (non-thesis option) or 30 hours (thesis hours) of coursework during their MSIS program. MIS or ISEC electives will be chosen in consultation with the MSIS advisor.

MSIS Non-Thesis Track

Code	Title	Hours
Required Courses		
ISEC 5305	Seminar in Information Security Foundations	3
MIS 5111	MSIS Career and Professional Development	1
MIS 5301	Seminar in Object-Oriented Business Programming	3
MIS 5335	Information Systems Analysis and Design	3
MIS 5340	Database Management Systems	3
MIS 5355	Management of Information Systems	3
Additional Programming Course		
Select one course from the following:		3
MIS 5315	NET Systems Development	
MIS 5317	Seminar in Java Development	
MIS 5322	Advanced Python for Analytics	
MIS or ISEC Elective Courses		5
Choose 2 MIS/ISEC courses not previously taken		
MIS 5V95	Internship in Information Systems (if less than 2 years full-time work experience)	
Business Electives (can also be additional MIS or ISEC courses)		12
Total Hours		**36**

MSIS Thesis Track

Code	Title	Hours
Required Courses		
ISEC 5305	Seminar in Information Security Foundations	3
MIS 5301	Seminar in Object-Oriented Business Programming	3
MIS 5335	Information Systems Analysis and Design	3
MIS 5340	Database Management Systems	3
MIS 5355	Management of Information Systems	3
Additional Programming Course		
Select one course from the following:		3
MIS 5315	NET Systems Development	
MIS 5317	Seminar in Java Development	
MIS 5322	Advanced Python for Analytics	
MIS 5V99	*Thesis*	*6*
Business Electives (can be additional MIS or ISEC courses)		*6*
Choose 2 MIS/ISEC courses not previously taken		
Total Hours		**30**

All students in the MSIS program are required to have successfully completed introductory courses in finance , managerial accounting, and business statistics . If this requirement is not met prior to entrance into the MSIS program, the student must complete a series of foundational courses **in addition** to the program requirements described above. The foundational courses may be satisfied by completing the Business Frameworks course offered by the MBA program.