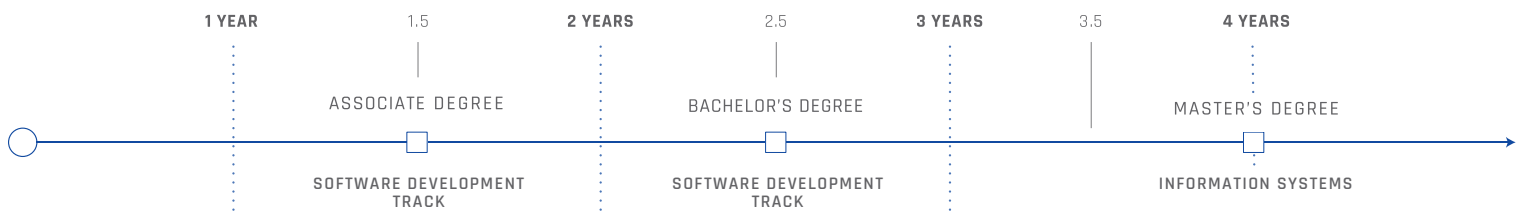# INFORMATION SYSTEMS

The Master of Science in Information Systems program is designed to prepare students for leadership in information technology (IT). The program is focused on providing knowledge and skills to apply the principles and concepts related to the development and management of information systems and technology locally and globally. Students can earn a master's degree in 15 months through a year-round schedule.

The program is designed for IT professionals, executives, and baccalaureate degree graduates who realize the necessity of delivery value to customers. The degree provides students with theoretical, practical, and applied skills in computer-based information systems and the technologies that support them. Additionally, it offers a broad perspective of the business and management environments in which information system technologies play a strategic role.

1 YEAR	1.5	2 YEARS	2.5	3 YEARS	3.5	4 YEARS
	ASSOCIATE DEGREE		BACHELOR'S DEGREE			MASTER'S DEGREE
	SOFTWARE DEVELOPMENT TRACK		SOFTWARE DEVELOPMENT TRACK			INFORMATION SYSTEMS

Outcomes

The curriculum builds on a foundation of communication and problem solving, theoretical and applied understanding of basic technical concepts, protocols, and software/hardware components of information systems technologies. Students enhance their understanding and practical knowledge of desktop, mobile, and web technologies; software and mobile app development; database management; information assurance and information system security management; cloud computing and virtualization, and systems analysis. A capstone project is required.

Upon successful completion of this degree program, the graduate should be able to:

‣ Understand how basic software development and networking concepts apply to cloud computing and virtualization.
‣ Design, implement, and manage a complex relational database.
‣ Be able to manage an information system project from conception through closure.
‣ Be aware of information assurance issues and the essential skills required to implement and maintain security in information systems.
‣ Evaluate the impact of information systems on business operations and prescribe remedies.
‣ Design and implement an information system using the appropriate programming paradigm and programming language.
‣ Design and implement desktop, mobile, and web applications.

Possible Career Track

Graduates of a graduate-level CIS degree program have many career options. They often have career paths that eventually lead them into IT management positions. They may manage complex IT projects, design computer systems using the most current information technologies, and develop innovative hardware and software system architectures. They may develop test plans and ensure their correct implementation. Graduates also may work as network architects or administrators who design computer networks, including wireless networks. Graduates of the M.S. in Information Systems degree program will be able to work in a wide variety of positions in business, industry, and government venues.

Possible job titles for an M.S. CIS graduate include:

‣ Desktop, Web, or Mobile Application Developer
‣ Architect
‣ Cloud Administrator
‣ Security Administrator

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