



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 could earn a master's degree in as little as 15 months through ECPI University's 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.



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 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

