

# Master of Science in Information Systems Management

As technology becomes more interconnected across functions and skills, the ability to understand and interpret technological solutions to business problems are required skills for technology leaders.

Delivered by the Department of Information Systems in ASU's W. P. Carey School of Business, consistently ranked Top 15 in the nation by *U.S. News & World Report*, the Master of Science in Information Systems Management (MS-ISM) develops your leadership as you explore the future state of information technology and systems, and how they will drive change in every industry and organization.



“Enrolling for a master’s degree had been on my mind ever since I completed my bachelor’s. I wanted to equip myself with the right skills for the challenges ahead in my career.”

*Kalpana Rangachari, Class of 2017*

Prepare for some of the most in-demand careers in the global economy.



**12-month**  
on-campus program

**53,700**

**new jobs for information systems managers by 2024**

– Bureau of Labor Statistics

## Mean salaries in 2018

Chief Information Officer **\$154K**

IT Architect **\$127K**

Senior Data Analyst **\$84K**

Senior Business Systems Analyst **\$92K**

– Glassdoor.com



**U.S. News & World Report**  
**No. 1** Most innovative schools  
**No. 13** Information systems, graduate

# Master of Science in Information Systems Management curriculum

Whether you're looking to launch a new career or to advance within your current position and organization, the MS-ISM will prepare you to align business and IT strategies, and to recognize and evaluate emerging technologies. You'll examine theoretical foundations with practical applications and learn how digital innovations can disrupt existing business models and enable organizational transformations.

## Core courses

### Artificial Intelligence and Business

Explore modern artificial intelligence (AI) technology, applications, and techniques, as well as their implications for business. Learn people, process, and technology factors related to the innovation and adoption of AI in the commercial enterprise and how it will shape the competition and society in the future. Implications for information systems professionals as it pertains to managing the AI infrastructure (robots, algorithms, platforms) will also be covered.

### Business Intelligence

Examine how organizations strategically use business intelligence (BI) to gain a sustainable, competitive advantage. Builds the foundations for evidence-based managerial decision-making, covers technologies for data warehousing and data mining from a managerial perspective, and incorporates contemporary topics such as real-time BI, business analytics, and business performance management.

### Data and Information Management

Discover central issues in managing information to achieve competitive advantage and support innovation. Specific topics covered include data modeling using entity relationship (ER) diagrams, data quality, building analytic capability, and providing user-friendly access to organizational data.

### Information Security and Controls

Gain a broad overview of information security and controls, utilizing the COBIT framework to illustrate how information security and controls contribute to effective IT governance. Build your understanding of the issues associated with information security and effective IT governance, assess effectiveness of information security alternatives, and design an organizational information security program.

### Strategic Value of Information Technology

Develop a balanced and disciplined view of IT, business, and their interplay. Cases and assignments involving the symbiotic relationship of IT and business are assigned to provide real-world exposure for critical thinking and engaging discussion.

### Emerging Technologies (capstone)

Learn about decision models and frameworks applied to assess, evaluate, and implement technologies. Gain context for applying the decision models and frameworks, including enterprise integration technologies, mobile platforms and devices, semantic web, and electronic collaboration technologies.

## MS-ISM specializations

Two specializations enhance the knowledge you'll gain in the core courses, building your problem-solving and leadership skills. Choose a focus in business analytics or tech consulting, both to add greater depth to your degree and to align your degree to your career goals, whether you want to advance in your current organization or prepare yourself for new opportunities. Additional concentrations will be added as the market demands.

## STEM-designated program

The STEM designation – administered by the U.S. Immigration and Customs Enforcement agency within the Department of Homeland Security – allows eligible graduates on student visas access to an Optional Practical Training (OPT) extension, up to 36 months, as compared to 12 months for non-STEM degrees.

The longer work authorization term may help international students gain additional real-world skills and experience in the U.S.