



Have a direct impact in helping businesses solve today's complex information science problems. At IS&T, earning your master's degree in Management Information Systems will deliver an education from top-notch faculty while being challenged by your peers. Our program will teach you to understand key and emerging technologies and integrate strategic management lessons to meet an organization's IT and business goals.

## MANAGEMENT INFORMATION SYSTEMS AT IS&T

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Our MIS degree is designed to help you best learn how businesses use information and communication technologies to solve problems. Our program is an early pioneer in developing dual-degree programs that blend multiple disciplines, giving you a wide range of experiences to draw from. Our graduates work directly with Omaha businesses and communities to engage them in technology. Your graduate capstone class will provide an opportunity to manage projects for real companies in the community that have real impact.

Your degree will give you the best set of skills to develop and manage an organization's information resources, technology and infrastructure.

## WHY A GRADUATE DEGREE AT IS&T

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Master's education is the fastest-growing and largest segment of graduate education. Many students and professionals recognize that in order to be competitive in the marketplace, additional skills and education are necessary. They are right.

According to the U.S. Bureau of Labor Statistics, employment in occupations that typically require a master's degree will increase by 18 percent between 2008 and 2018, and the potential income gain from achieving a master's degree is substantial. On average, employers will pay 15 percent more to those who hold a master's degree than those with a bachelor's degree. Master's degrees are key to future employment and career advancement.

## JOB OUTLOOK

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Today's society relies on technology and people who can help build the most effective systems. According to the Bureau of Labor Statistics, MIS positions are expected to grow faster than the average of all other occupations.

### Example Job Titles

- Website Developer
- Data Management Professional
- Business System Analyst/Manager
- Consultant
- Technology Manager
- Chief Information Officer
- Security Manager
- Quality Assurance Specialist

### Benefits

- Advance your career
- Gain credentials
- Hone professional skills
- Earn a higher salary (15 percent more than someone with a bachelor's degree)
- Change careers
- Increase leadership abilities

### Programs Offered

- MS Management Information Systems
- Graduate Certificates
- Dual Degree MS MIS & MBA
- Dual Degree MS MIS & MPA
- Integrated Undergraduate/Graduate

# CURRICULUM

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The Master's in Management Information Systems requires completion of a minimum **36 credit hours** which include the following:

## Foundation Courses

(required if not taken as an undergraduate)

- Six hours of programming coursework
- ISQA 8030 - Information Systems & Ethics OR equivalent
- ISQA 8040 - An Overview of Systems Development OR (ISQA 4110 - Information Systems Analysis and ISQA 4120 Systems Design and Implementation) OR equivalent
- ISQA 8050 - Data Organization and Storage OR (ISQA 3310 Managing the Database Environment) OR equivalent
- CIST 2500 - Introduction to Applied Statistics for IS&T OR one semester of undergraduate statistics (for Analytics/Data Management concentrations)

## Core Courses (18 hrs)

- ISQA 8210 - Management of Software Development
- ISQA 8220 - Advanced Systems Analysis and Design
- ISQA 8310 - Data Communications
- ISQA 8380 - Enterprise Architecture and System Integration
- ISQA 8410 - Data Management
- ISQA 8420 - Managing the IS Function

## Elective Courses (15 hrs)

- ISQA 8060 - Research in MIS (required for Thesis)
- ISQA 8080 - Seminar in MIS
- ISQA 8016 - Business Intelligence
- ISQA 8086 - Special Topics: ISQA
- ISQA 8106 - Information Systems Architecture and Organization
- ISQA 8136 - Information Technology for Development
- ISQA 8156 - Advanced Statistical Methods for IS&T
- ISQA 8160 - Applied Distribution-Free Statistics
- ISQA 8166 - Introduction to Enterprise Resource Planning
- ISQA 8180 - Electronic Commerce
- ISQA 8196 - Process Reengineering with IT
- ISQA 8206 - Information and Data Quality Management
- ISQA 8230 - Telecommunications Management
- ISQA 8240 - Telecommunications Planning, Analysis and Design
- ISQA 8250 - Facilitation of Collaborative Problem Solving
- ISQA 8306 - Database Administration
- ISQA 8340 - Applied Regression Analysis
- ISQA 8400 - Clinical Systems Architecture and Function
- ISQA 8450 - NOSQL and Big Data Technologies
- ISQA 8460 - IoT, Big Data and the Cloud

## Elective Courses Continued...

- ISQA 8500 - Readings in Clinical Informatics
- ISQA 8510 - Managing Usability Functions in Systems Development Organization
- ISQA 8525 - Graphical User Interface Design
- ISQA 8530 - E-Commerce Security
- ISQA 8546 - Computer Security Management
- ISQA 8560 - Information Warfare and Security
- ISQA 8570 - Information Security Policy and Ethics
- ISQA 8580 - Security Risk Management and Assessment
- ISQA 8596 - IT Audit and Control
- ISQA 8700 - Data Mining: Theory and Practice
- ISQA 8736 - Decision Support Systems
- ISQA 8750 - Interactive Data Visualization
- ISQA 8810 - IT Project Fundamentals
- ISQA 8820 - Project Risk Management
- ISQA 8900 - Independent Research in MIS
- ISQA 8910 - Internship

## Exit Requirements (3 or 6 hrs)

- ISQA 8950 - Capstone Management Information Systems (3 hours)
- ISQA 8990 - Thesis (6 hours)

## Concentrations Offered (Elective Courses)

- Analytics
- Data Management
- Electronic Commerce
- Geographic Information Systems
- Health Informatics
- Information Assurance
- IT Audit and Control
- Project Management