MANAGEMENT INFORMATION SYSTEMS

Are you interested in working with people as well as computers? Are you interested in how computers can be used to solve organizational problems? Are you interested in how computers are incorporated in an organization’s strategy for success? If so, the study of Management Information Systems (MIS) will be of interest to you.

THE MANAGEMENT INFORMATION SYSTEMS PROFESSION

What do MIS Professionals do?

• Talk to people
• Solve problems
• Search for clues
• Take different perspectives
• Apply technology
• Help people use technology
• Affect people’s lives
• Change the world around them
• Define the future

How do they do it?

• By talking to users, managers, programmers, CEOs…All kinds of people are involved in defining needs for applications.
• By solving business problems and applying technology to many varied situations
• By using detective skills to analyze a situation, search for clues to problems, and get ideas for solutions
• By “walking in others' shoes” to understand differing perspectives on how applications should work
• By creating the systems that people interact with every day
• By always looking for ways to do things more effectively or in a more user-friendly way
• By designing useful and appealing systems for people to interact with
• By defining a high-tech future that includes systems and applications and puts people at the center, as with e-commerce
• By taking what computer scientists create and using the underlying technology to develop useful application

Example Job Titles

• Systems Analyst
• Information Specialist
• Project Manager
• Webmaster
• Knowledge Manager
• Chief Information Officer
• Database Administrator
• Software Architect
• Applications Developer
• Network Administrator
• Consultant
• Systems Integrator
• Internet/Web Developer
• IT Security Manager
• Quality Assurance Specialist

Resources

• Association of Information Technology Professionals (AITP) | aitp.org
• Information Technology Association of America (ITAA) | itaa.org
• Society for Information Management (SIM) | simnet.org
• Project Management Institute (PMI) | pmi.org
• Association for Information Systems (AIS) | aisnet.org
• Telecommunications Specialist
• Data Warehouse Director
• E-Commerce Analyst/Programmer

The College of IS&T offers both a Bachelor of Science and a minor in MIS. Please visit Management Information Systems at www.ist.unomaha.edu/bs-mis for more information

LAST UPDATED 4/2018
### BACHELOR OF SCIENCE IN MANAGEMENT INFORMATION SYSTEMS

**What courses do I need?**

The College of Information Science & Technology requires completion of a minimum of 120 credit hours which include the following courses:

#### General Education Requirements

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>9</td>
</tr>
<tr>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>College Algebra or test out</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
<td>7</td>
</tr>
<tr>
<td>Humanities</td>
<td>9</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>9</td>
</tr>
<tr>
<td>US and Global Diversity(^1)</td>
<td>6</td>
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</tbody>
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#### Math Requirements - 6 hours

- **MATH 1930** Calculus for Managerial, Life and Social Sciences
- **CSCI 2030** Math Foundations of Computer Science

#### IS&T Requirements - 21 hours

- **CYBR 1100** Intro to Information Security\(^*\)
- **CIST 1300** Intro to Web Development
- **CIST 1400** Intro to Computer Science I
- **CSCI 1620** Intro to Computer Science II
- **CIST 2100** Organizations, Applications & Technology\(^**\)
- **CIST 2500** Intro to Applied Statistics for IS&T
- **CIST 3110** IT Ethics\(^***\)

#### MIS Core - 21 hours

- **ISQA 3900** Web Application Development
- **ISQA 3310** Managing the Database Environment
- **ISQA 3400** IT Infrastructure
- **ISQA 3420** Managing in a Digital World\(^*\)
- **ISQA 3910** Intro to Project Management
- **ISQA 4110** Information Systems Analysis
- **ISQA 4120** Systems Design & Implementation

#### Business Co-Req Requirements - 15 hours

- **ACCT 2010** Principles of Accounting I
- **ACCT 2020** Principles of Accounting II
- **ECON 2200** Principles of Economics - Micro\(^**\)
- **ECON 2220** Principles of Economics - Macro\(^**\)
- One of the following courses:
  - **ACCT 3080**, **ECON 3200**, **ECON 3220**, **FNBK 3250**
  - **MRKT 3310**, **MGMT 3510**, **MGMT 3710**, **MGMT 4090**

#### MIS Specialization Electives - 12 hours

See courses listed in the online catalog for specific upper-division ISQA and upper-division IASC courses that can fulfill this requirement.

\(^*\) Either CYBR 1100 or ISQA 3420 can also apply as a global diversity class.

\(^**\) ECON 2200, ECON 2220, and CIST 2100 also apply toward Social Science requirements.

\(^***\) CIST 3110 also applies toward a Humanities requirement.

\(^1\) US and global diversity courses can also satisfy Humanities and Social Science requirements.