

# Department of Management Information Systems

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## **Undergraduate Advisor:**

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**Degrees offered:** Bachelor of Science (BS), Bachelor of Arts (BA), and Master of Science (MS) in Management Information Systems; participates in the Interdepartmental Doctor of Philosophy (PhD) in Education and Doctor of Education (EdD) with a specialization in Management Information Systems

**Undergraduate emphases:** *Management Information Systems BS, BA*—Technical, Managerial, and Training and Development

**Graduate specializations:** *Management Information Systems MS*—Management Information Systems, Training and Development

## **Undergraduate Programs**

### **Objectives**

The Management Information Systems major is designed to prepare individuals for positions as managers in business information systems, including information managers, information supervisors, network managers, worldwide web designers, electronic commerce developers, systems analysts, applications programmers, and systems trainers. The training and development emphasis prepares students to become trainers within business and private industry.

### **Departmental Honors**

See *Honors in Business* description in the College of Business section of this catalog (page 114).

### **Learning Objectives and Assessment**

Assessment information for the Management Information Systems Department can be found online at:

<http://www.usu.edu/cob/mis/assessment/index.cfm>

### **Requirements**

#### **College of Business Requirements**

All bachelor's degree students majoring in Management Information Systems must satisfy the College of Business entrance requirements provided on pages 114-115. Academic advising about these requirements is provided by the College of Business Career and Education Opportunities Center, Business 309. Management Information Systems majors must also follow College of Business prebusiness course requirements for admission to a major, detailed on page 115.

#### **Matriculation Requirement and Transfer Limitation**

No more than 15 USU College of Business credits (ACCT, BA, BIS, BUS, MHR), numbered 2000 and above, earned as a nonbusiness major (before acceptance into the College of Business) can be applied to a College of Business degree. More than 15 business credits can be transferred from other accredited institutions. However, additional USU College of Business credits added to previously earned transfer business credits may not exceed a combined total of 15. Furthermore, to earn a bachelor's degree in a College of Business major, at least 50 percent of the required College of Business credits must be earned from coursework taken from the Utah State University College of Business.

#### **USU Credits and Business Credits**

At least 30 of the last 60 semester credits must be taken from Utah State University, at least 20 of which must be completed in upper-division courses, of which at least 10 credits must be completed in courses required by the student's major. At least 50 percent of the College of Business credits required for a College of Business degree must be taken from the Utah State University College of Business or its departments, which include: School of Accountancy, Business Administration, Economics, Management and Human Resources, and Management Information Systems.

#### **Information Systems Programs**

Programs in information systems are offered in both the departments of Management Information Systems and Computer Science. The curricula and objectives of the programs differ substantially. Each department's program is described below.

The **Management Information Systems major with a technical, managerial, or training and development emphasis** is offered in the Management Information Systems Department, College of Business. The Bachelor of Science or Bachelor of Arts program is designed for students interested in business careers as information specialists, systems analysts, network managers, applications programmers, and information systems managers in business and industry. MIS majors take required courses in analysis and design, Internet management, telecommunications, decision support systems, spreadsheet and database applications, and information systems projects. All graduates are required to complete a common core of business subjects. The College of Business is accredited by AACSB International—The Association to Advance Collegiate Schools of Business. The department also offers a Master of Science in Management Information Systems with an area of emphasis in Management Information Systems.

The **Computer Science major with an information systems emphasis** is located in the College of Science and is designed for students interested in a career as a computer scientist with a background in information sciences and systems. Majors in this emphasis are trained in all phases of the analysis, design, and implementation of information systems. As part of this emphasis, students also receive training in the theory and application of information. Students select an application area such as Business, Accounting, or Economics. Other application areas can be developed by working closely with an advisor. This program of study leads to a Bachelor of Science, Bachelor of Arts, or Master of Science degree in Computer Science. See pages 229-231 and 233 for additional details.

# Department of Management Information Systems

## Requirements for Bachelor's Degree in Management Information Systems

To earn a bachelor's degree in Management Information Systems, a student must complete the USU requirements for a bachelor's degree and the following categories of coursework in the College of Business: Pre-Business, College of Business Core, MIS Department Core, and one of three areas of emphasis: technical, managerial, or training and development.

### Pre-Business Course Requirements (13 credits)

<b>ECON 1500 (BAI)</b> Introduction to Economic Institutions, History, and Principles (F,Sp) .....	3
<b>MATH 1100 (QL)</b> Calculus Techniques (F,Sp,Su) .....	3
<b>STAT 2300 (QL)</b> Business Statistics (F,Sp,Su) .....	4
<b>PSY 1010 (BSS)</b> General Psychology (F,Sp,Su) (3 cr) <b>or</b>	
<b>SOC 1010 (BSS)</b> Introductory Sociology (F,Sp) (3 cr) .....	3

### College of Business Core (37 credits)

<b>ACCT 2010</b> Survey of Accounting I (F,Sp,Su) .....	3
<b>ACCT 2020</b> Survey of Accounting II (F,Sp,Su) .....	3
<b>BA 3400 (QI)</b> Corporate Finance (F,Sp,Su) .....	3
<b>BA 3500</b> Fundamentals of Marketing (F,Sp,Su) .....	3
<b>BA 3700</b> Operations Management (F,Sp,Su) .....	3
<b>BIS 2100</b> Principles of Management Information Systems (F,Sp,Su) ...	3
<b>BIS 2200 (CI)</b> Business Communication (F,Sp,Su) .....	3
<b>BUS 3250</b> Discussions With Business Leaders (F,Sp) .....	1
<b>ECON 2010 (BSS)</b> Introduction to Microeconomics (F,Sp) .....	3
<b>ECON 3400</b> International Economics for Business (F,Sp,Su) .....	3
<b>MHR 2050</b> Legal and Ethical Environment of Business (F,Sp,Su) .....	3
<b>MHR 3110</b> Managing Organizations and People (F,Sp,Su) .....	3
<b>MHR 4880 (CI)</b> Business Strategy in an Entrepreneurial Context (F,Sp) (3 cr) <b>or</b>	
<b>MHR 4890 (CI)</b> Business Strategy in a Global Context (F,Sp,Su) (3 cr) .....	3

### MIS Department Core Requirements (10 credits)

<b>BIS 3330</b> Database Management (F,Sp) .....	3
<b>BIS 5100</b> Systems Design and Implementation (F,Sp) .....	3
<b>BIS 5110</b> Systems Design Laboratory (must be taken concurrently with BIS 5100) (F,Sp) .....	1
<b>BUS 4250</b> Advanced Internship (F,Sp,Su) .....	3

Students must select one of the following emphases.

### Technical Emphasis (19 credits)

#### Required Courses (16 credits)

<b>CS 1400</b> Introduction to Computer Science—CS1 (F,Sp,Su) .....	3
<b>CS 1405</b> Introduction to Computer Science—CS1 Lab (take with CS 1400) (F,Sp,Su) .....	1
<b>CS 1410 (QI)</b> Introduction to Computer Science—CS2 (F,Sp,Su) .....	3
<b>BIS 4100</b> Information Technology and System Software (F,Sp) .....	3
<b>BIS 4330</b> Database Implementation (F,Sp) .....	3
<b>BIS 5650</b> Advanced Website Development (F,Sp) .....	3

#### Elective Course (3 credits)

Choose one course from the following:

<b>BIS 5300</b> Advanced Data Communications (F,Sp) .....	3
<b>BIS 5450</b> Designing Graphical User Interfaces for Electronic Commerce (F,Sp) .....	3
<b>BIS 5700</b> Internet Management and Electronic Commerce (F,Sp) .....	3
<b>BIS 5800</b> Security of Business Information Systems (F) .....	3
<b>CS 2420 (QI)</b> Algorithms and Data Structures—CS 3 (F,Sp,Su) .....	3

### Managerial Emphasis (18 credits)

#### Required Courses (12 credits)

<b>BIS 3500</b> Introduction to Business Applications Programming (F,Sp) ...	3
<b>BIS 5700</b> Internet Management and Electronic Commerce (F,Sp) .....	3
<b>BIS 5300</b> Advanced Data Communications (F,Sp) .....	3
<b>BIS 5800</b> Security of Business Information Systems (F) .....	3

#### Elective Courses (6 credits)

Choose two courses from the following:

<b>BIS 4100</b> Information Technology and System Software (F,Sp) .....	3
<b>BIS 4330</b> Database Implementation (F,Sp) .....	3
<b>BIS 5450</b> Designing Graphical User Interfaces for Electronic Commerce (F,Sp) .....	3
<b>BIS 5650</b> Advanced Website Development (F,Sp) .....	3

### Training and Development Emphasis (18 credits)

#### Required Courses (9 credits)

<b>BIS 4350</b> Introduction to Training and Development (Sp) .....	3
<b>BIS 5450</b> Designing Graphical User Interfaces for Electronic Commerce (F,Sp) .....	3
Any 5000-level <b>INST</b> course .....	3

#### Elective Courses (9 credits)

Choose three courses from the following:

<b>BIS 3500</b> Introduction to Business Applications Programming (F,Sp) ...	3
<b>BIS 5700</b> Internet Management and Electronic Commerce (F,Sp) .....	3
<b>BIS 5800</b> Security of Business Information Systems (F) .....	3
<b>MHR 3710</b> Developing Team and Interpersonal Skills (F,Sp) .....	3
Any 5000-level <b>INST</b> course .....	3

### Four-Year Degree Plans (8 Semesters)

Four-year degree plans for each of the Management Information Systems major emphases can be found on pages 390-392 and at: <http://www.usu.edu/cobssc/web/fouryeardegreeplans.htm>

### Management Information Systems Minor (21-22 credits)

A minimum 2.50 GPA is required in all courses counted toward the minor.

#### Required Courses (15 credits)

<b>ACCT 2010</b> Survey of Accounting I (F,Sp,Su) .....	3
<b>BIS 2100</b> Principles of Management Information Systems (F,Sp,Su) ...	3
<b>BIS 3330</b> Database Management (F,Sp) .....	3
<b>BIS 3500</b> Introduction to Business Applications Programming (F,Sp) ...	3
<b>CS 1400</b> Introduction to Computer Science—CS 1 (F,Sp,Su) (3 cr) <b>or</b>	
<b>CS 3410 (CI/DSC)</b> Algorithm Development: JAVA/Internet (F,Su) (3 cr) .....	3

#### Elective Courses (6-7 credits)

Choose two of the following courses:

<b>ACCT 4500</b> Accounting Information Systems (F,Sp) .....	3
<b>BIS 4330</b> Database Implementation (F,Sp) .....	3
<b>BIS 5100</b> Systems Design and Implementation (F,Sp) (3 cr) <b>and</b>	
<b>BIS 5110</b> Systems Design Laboratory (F,Sp) (1 cr) .....	4
<b>BIS 5300</b> Advanced Data Communications (F,Sp) .....	3
<b>BIS 5450</b> Designing Graphical User Interfaces for Electronic Commerce (F,Sp) .....	3
<b>BIS 5700</b> Internet Management and Electronic Commerce (F,Sp) .....	3
<b>CS 1400<sup>1</sup></b> Introduction to Computer Science—CS 1 (F,Sp,Su) (3 cr) <b>or</b>	

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<b>CS 3410 (CI/DSC)<sup>1</sup> Algorithm Development:</b> JAVA/Internet (F,Su) (3 cr) <b>or</b>	
<b>CS 3510 (QI/DSC) Algorithm Development:</b> COBOL/Business (F) (3 cr) .....	3

<sup>1</sup>CS 1400 or 3410 may be chosen as an elective if not taken as a required course for the section above.

## Student Organizations

The Department of Management Information Systems sponsors or co-sponsors two student organizations. Each group provides unique experiences that can complement and enrich formal coursework. Leadership development and human relations skills are among the personal attributes enhanced by involvement in the various organization activities.

### Association for Computing Machinery (ACM)

ACM, a professional society for the information systems industry, sponsors a student chapter at USU. The goals of ACM are to: (1) provide leadership experiences for undergraduate and graduate management information systems majors; (2) help student members plan their careers and find employment by introducing them to practicing systems professionals; and (3) foster a professional attitude among management information systems majors so that they will contribute to their field.

### Society for Information Management (SIM)

SIM is an organization of senior-level IT managers in the industry. Since 1968 SIM has inspired the minds of the most prestigious IT leaders in the industry. Highly regarded as the premier network for IT leadership, SIM is a community of thought leaders who share experiences and rich intellectual capital and who explore future IT direction.

The USU student chapter of SIM is associated with the Utah chapter located in Salt Lake City. The goal of the chapter is to allow students in MIS to interface and network with leaders in the field. Student members become knowledgeable about the opportunities and career paths in the field of technology management.

## Additional Information

For more information about requirements for the majors and minors within the Management Information Systems Department, see the major requirement sheets, available from the department, or online at: <http://www.usu.edu/majorsheets/>

## Four-year Degree Plans (8 semesters)

The following are suggested four-year plans for each emphasis of the Management Information Systems major.

### Suggested Four-year Course of Study for Management Information Systems Major, Technical Emphasis

Students enrolled in the management information systems major should consult with their advisor to determine which breadth, depth, and elective courses they should complete. Each student should also consult with his or her advisor to develop an individualized plan of study that is applicable to his or her own interests.

## Freshman Year (28 credits)

### Fall Semester (13 credits)

<b>OSS 1400</b> Microcomputer Applications .....	3
<b>MATH 1050 (QL)</b> College Algebra.....	4
<b>ECON 1500 (BAI)</b> Introduction to Economic Institutions, History, and Principles .....	3
<b>PSY 1010 (BSS)</b> General Psychology (3 cr) <b>or</b>	
<b>SOC 1010 (BSS)</b> Introductory Sociology (3 cr).....	3

### Spring Semester (15 credits)

<b>ENGL 1010 (CL1)</b> Introduction to Writing: Academic Prose .....	3
<b>ECON 2010 (BSS)</b> Introduction to Microeconomics .....	3
<b>MATH 1100 (QL)</b> Calculus Techniques .....	3
University Studies Breadth courses .....	6

## Sophomore Year (32 credits)

### Fall Semester (16 credits)

<b>ACCT 2010</b> Survey of Accounting I.....	3
<b>BIS 2100</b> Principles of Management Information Systems .....	3
<b>STAT 2300 (QL)</b> Business Statistics .....	4
<b>MHR 2050</b> Legal and Ethical Environment of Business.....	3
University Studies Breadth course .....	3

### Spring Semester (16 credits)

<b>ACCT 2020</b> Survey of Accounting II.....	3
<b>BIS 2200 (CI)</b> Business Communication .....	3
<b>ENGL 2010 (CL2)</b> Intermediate Writing: Research Writing in a Persuasive Mode.....	3
<b>ECON 3400</b> International Economics for Business .....	3
<b>CS 1400</b> Introduction to Computer Science—CS 1 .....	3
<b>CS 1405</b> Introduction to Computer Science—CS 1 Lab .....	1

## Junior Year (31 credits)

### Fall Semester (15 credits)

<b>BA 3400 (QI)</b> Corporate Finance .....	3
<b>BA 3500</b> Fundamentals of Marketing.....	3
<b>CS 1410 (QI)</b> Introduction to Computer Science—CS 2 .....	3
University Studies Breadth course .....	3
Elective course(s).....	3

### Spring Semester (16 credits)

<b>BUS 3250</b> Discussions With Business Leaders .....	1
<b>BIS 3330</b> Database Management .....	3
<b>BIS 4100</b> Information Technology Hardware and System Software .....	3
<b>BA 3700</b> Operations Management.....	3
BIS elective course.....	3
University Studies Depth course .....	3

## Senior Year (29 credits)

### Fall Semester (15 credits)

<b>BIS 4330</b> Database Implementation .....	3
<b>BIS 5650</b> Advanced Website Development.....	3
<b>MHR 3110</b> Managing Organizations and People .....	3
<b>BUS 4250</b> Advanced Internship .....	3
University Studies Depth course .....	3

### Spring Semester (14 credits)

<b>BIS 5100</b> Systems Design and Implementation.....	3
<b>BIS 5110</b> Systems Design Laboratory .....	1
<b>MHR 4880 (CI)</b> Business Strategy in an Entrepreneurial Context (3 cr) <b>or</b>	
<b>MHR 4890 (CI)</b> Business Strategy in a Global Context (3 cr) .....	3
Elective courses .....	7

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**Note:** Students must pass MATH 1050 with a grade of C- or better. Students who do not take OSS 1400 must take an additional 3 credits of electives. Students should apply for College of Business admission during their third semester.

## Suggested Four-year Course of Study for Management Information Systems Major, Managerial Emphasis

Students enrolled in the Management Information Systems major should consult with their advisor to determine which breadth, depth, and elective courses they should complete. Each student should also consult with his or her advisor to develop an individualized plan of study that is applicable to his or her own interests.

### Freshman Year (28 credits)

#### Fall Semester (13 credits)

OSS 1400 Microcomputer Applications .....	3
MATH 1050 (QL) College Algebra.....	4
ECON 1500 (BAI) Introduction to Economic Institutions, History, and Principles .....	3
PSY 1010 (BSS) General Psychology (3 cr) or	
SOC 1010 (BSS) Introductory Sociology (3 cr).....	3

#### Spring Semester (15 credits)

ENGL 1010 (CL1) Introduction to Writing: Academic Prose .....	3
ECON 2010 (BSS) Introduction to Microeconomics .....	3
MATH 1100 (QL) Calculus Techniques .....	3
University Studies Breadth courses .....	6

### Sophomore Year (31 credits)

#### Fall Semester (16 credits)

ACCT 2010 Survey of Accounting I.....	3
BIS 2100 Principles of Management Information Systems .....	3
STAT 2300 (QL) Business Statistics .....	4
MHR 2050 Legal and Ethical Environment of Business.....	3
University Studies Breadth course .....	3

#### Spring Semester (15 credits)

ACCT 2020 Survey of Accounting II.....	3
BIS 2200 (CI) Business Communication.....	3
ENGL 2010 (CL2) Intermediate Writing: Research Writing in a Persuasive Mode.....	3
BIS 3330 Database Management .....	3
Elective course(s) .....	3

### Junior Year (31 credits)

#### Fall Semester (15 credits)

BIS 3500 Introduction to Business Applications Programming .....	3
BA 3400 (QI) Corporate Finance .....	3
ECON 3400 International Economics for Business.....	3
BIS elective course.....	3
Elective course(s).....	3

#### Spring Semester (16 credits)

BUS 3250 Discussions With Business Leaders.....	1
BIS 5700 Internet Management and Electronic Commerce .....	3
BA 3700 Operations Management.....	3
BIS elective course.....	3
University Studies Breadth course .....	3
University Studies Depth course .....	3

### Senior Year (30 credits)

#### Fall Semester (15 credits)

BA 3500 Fundamentals of Marketing.....	3
BIS 5300 Advanced Data Communications .....	3
MHR 3110 Managing Organizations and People .....	3
BUS 4250 Advanced Internship .....	3
University Studies Depth course .....	3

#### Spring Semester (15 credits)

BIS 5100 Systems Design and Implementation.....	3
BIS 5110 Systems Design Laboratory .....	1
BIS 5800 Security of Business Information Systems .....	3
MHR 4880 (CI) Business Strategy in an Entrepreneurial Context (3 cr) or	
MHR 4890 (CI) Business Strategy in a Global Context (3 cr) .....	3
Elective courses .....	5

**Note:** Students must pass MATH 1050 with a grade of C- or better. Students who do not take OSS 1400 must take an additional 3 credits of electives. Students should apply for College of Business admission during their third semester.

## Suggested Four-year Course of Study for Management Information Systems Major, Training and Development Emphasis

Students enrolled in the management information systems major should consult with their advisor to determine which breadth, depth, and elective courses they should complete. Each student should also consult with his or her advisor to develop an individualized plan of study that is applicable to his or her own interests.

### Freshman Year (28 credits)

#### Fall Semester (13 credits)

OSS 1400 Microcomputer Applications.....	3
MATH 1050 (QL) College Algebra.....	4
ECON 1500 (BAI) Introduction to Economic Institutions, History, and Principles .....	3
PSY 1010 (BSS) General Psychology (3 cr) or	
SOC 1010 (BSS) Introductory Sociology (3 cr).....	3

#### Spring Semester (15 credits)

ENGL 1010 (CL1) Introduction to Writing: Academic Prose .....	3
ECON 2010 (BSS) Introduction to Microeconomics .....	3
MATH 1100 (QL) Calculus Techniques .....	3
University Studies Breadth courses .....	6

### Sophomore Year (31 credits)

#### Fall Semester (16 credits)

ACCT 2010 Survey of Accounting I.....	3
BIS 2100 Principles of Management Information Systems .....	3
STAT 2300 (QL) Business Statistics .....	4
MHR 2050 Legal and Ethical Environment of Business.....	3
University Studies Breadth course .....	3

#### Spring Semester (15 credits)

ACCT 2020 Survey of Accounting II.....	3
BIS 2200 (CI) Business Communication .....	3
BIS 3330 Database Management .....	3
BIS 4350 Introduction to Training and Development.....	3
University Studies Breadth course .....	3

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## Junior Year (31 credits)

### Fall Semester (15 credits)

ENGL 2010 (CL2) Intermediate Writing: Research Writing in a Persuasive Mode.....	3
BA 3400 (QL) Corporate Finance .....	3
ECON 3400 International Economics for Business .....	3
BIS elective courses .....	6

### Spring Semester (16 credits)

BUS 3250 Discussions With Business Leaders .....	1
BA 3700 Operations Management.....	3
INST course at 5000-level or higher .....	3
University Studies Depth course .....	3
Elective courses .....	6

## Senior Year (30 credits)

### Fall Semester (15 credits)

BA 3500 Fundamentals of Marketing .....	3
BIS 5450 Designing Graphical User Interfaces for Electronic Commerce .....	3
MHR 3110 Managing Organizations and People .....	3
University Studies Depth course .....	3
BIS elective course.....	3

### Spring Semester (15 credits)

BIS 5100 Systems Design and Implementation.....	3
BIS 5110 Systems Design Laboratory .....	1
BUS 4250 Advanced Internship .....	3
MHR 4880 (CI) Business Strategy in an Entrepreneurial Context (3 cr) or	
MHR 4890 (CI) Business Strategy in a Global Context (3 cr) .....	3
Elective courses .....	5

**Note:** Students must pass MATH 1050 with a grade of C- or better. Students who do not take OSS 1400 must take an additional 3 credits of electives. Students should apply for College of Business admission during their third semester.

## Graduate Programs

### Master of Science

Students applying for admission to the Master of Science program in Management Information Systems must take the GMAT test. A score at the 40th percentile or better on the GMAT is required for admission. Undergraduate GPA should be 3.2 or above. Meeting minimum requirements does not guarantee admission.

The MS requires a minimum of 33 credits. A minimum of 24 credits of academic work must be in classes numbered 6000 and above. Twelve or more credits should be in the area of specialization. Students with bachelor's degrees outside of business may be required to complete additional coursework.

Students in the master's program pursue the *Plan C* option, where a research paper is completed in a special research class. Those who wish to pursue the *Plan A* thesis option must have permission from their committee to do so.

All MS degrees in the MIS Department require the following core: BIS 6440 and 6810.

The specialization in **Management Information Systems (MIS)** is for students who wish to work as systems analysts, application programmers, network managers, information managers, information center managers, and trainers in management information systems.

Students are expected to have a background in management information systems. Required courses are BIS 6120, 6200, 6330, and 6700, in addition to the departmental core. Students who choose the *Plan A* option must complete 6 credits of BIS 6970. Students may take credits in Management Information Systems, Computer Science, Instructional Technology, Business Administration, Accounting, Economics, or other approved electives to complete the 12 credits of electives required.

The specialization in **Training and Development** is designed for those who wish to work in training and development in business and industry. Required courses for the Training and Development specialization are BIS 6250, 6350, and 6450, in addition to the departmental core. Students must complete 15 credits of electives chosen from the following list: BIS 6120, 6200, 6330, 6510, 6700, 6800, or others with committee approval.

For a current checklist of requirements, students should contact the departmental graduate advisor.

The USU MS in Management Information Systems is the only master's program in Management Information Systems in the State of Utah. Graduates are placed in the West and throughout the nation.

### Doctor of Philosophy and Doctor of Education

Applicants for admission to the College of Education and Human Services PhD or EdD programs with a specialization in Management Information Systems must take the GRE. Scores on the verbal and quantitative test must be at or above the 40th percentile. No minimum score is required on the analytical section (required by the Educational Testing Service).

The Department of Management Information Systems cooperates with other departments in offering the interdepartmental Doctor of Philosophy (PhD) and Doctor of Education (EdD). The PhD is a research-based degree. The EdD degree is a practitioner's degree. Both degrees require dissertations. Graduates secure positions teaching business subjects or teaching business-teacher education in colleges and universities. Positions may also be secured in business and industry. Former graduates are currently in various positions in higher education, including higher education administration, and in business and industry.

### Additional Information

Specific details about each of the foregoing degree programs are outlined in policy and procedure documents available through the department. All requirements are subject to change; check with the department for current requirements.

### Research

Faculty in the Department of Management Information Systems are active in research and scholarly endeavors. Current and published research topics include business communication, international communication, neural networks, genetic algorithms, data mining management information systems as related to business and

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industry, curriculum for business schools, business reengineering, electronic commerce, group decision support systems, microcomputer applications, use of microcomputers in various subjects including accounting and business communications, cooperative education, and other areas related to management information systems.

## Financial Assistance and Assistantships

Funds for scholarships are provided through the School of Graduate Studies and administered in the department. Those interested in scholarships should contact the graduate director or the department head.

Each year several high-quality graduate teaching assistants are needed. Those who are interested in teaching assistantships must apply through the department head. They must have had teaching experience or be willing to take teaching methods classes, as well as the School of Graduate Studies-sponsored teaching assistant workshop, prior to receiving an assistantship.

## Career Opportunities

Management Information Systems is one of the fastest-growing fields in business and industry. Follow-up studies show that information systems positions pay excellent salaries, and the placement rate of students is almost 100 percent.

## Management Information Systems Faculty

### Professors

*John D. Johnson*, management information systems, electronic commerce, neural networks, genetic algorithms communication, data management, computer security  
*David H. Olsen*, management information systems  
*David J. Paper*, management information systems

### Professors Emeritus

*Dennis J. LaBonty*  
*H. Robert Stocker*  
*William A. Stull*  
*John F. Vinsonhaler*

### Associate Professors

*Jeffrey J. Johnson*, management information systems  
*Robert J. Mills*, management information systems

### Assistant Professors

*Karina Hauser*, lean manufacturing, artificial intelligence, and systems analysis and design  
*Yong Seog Kim*, management information systems and data mining  
*Zsolt Ugray*, management information systems, electrical commerce, and optimization

### Principal Lecturers

*Susan M. Jones*, management information systems, business communication, and security management  
*Marianna P. Larsen*, business communication and international business communication  
*Craig J. Peterson*, management information systems, electronic commerce management, information technology, and web design  
*Dana H. Swensen*, business communication

### Senior Lecturer and Executive in Residence

*Ralph B. "Bernie" Lantz*, computer technology, network security, management information systems, computer literacy, software development, and programming languages

### Lecturer

*Janet Bringham*, microcomputer applications and business communication

## Course Descriptions

Business Information Systems (BIS), pages 581-583