

# Department of Business 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 Business Information Systems; participates in the Interdepartmental Doctor of Philosophy (PhD) in Education and Doctor of Education (EdD) with a specialization in Business Information Systems

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

**Graduate specializations:** *Business Information Systems MS*—Business Education, Electronic Commerce, Management Information Systems, Marketing Education, and Training and Development.

## **Undergraduate Programs**

### **Objectives**

The Business 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 112).

### **Learning Objectives and Assessment**

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

<http://www.usu.edu/cob/bis/about/assessment.htm>

### **Requirements**

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

All bachelor's degree students majoring in Business Information Systems must satisfy the College of Business entrance requirements provided on pages 112-113. Academic advising about these requirements is provided by the College of Business Career and Education Opportunities Center, Business 309. Business Information Systems majors must also follow College of Business prebusiness course requirements for admission to a major, detailed on page 113.

#### **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, 10 of which must be included within the last 40 credits presented for the degree. 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, Business Information Systems, Economics, and Management and Human Resources.

### **Information Systems Programs**

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

The **Business Information Systems major with technical or managerial emphasis**, is offered in the Business 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. BIS 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 Business 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.

#### **Requirements for Bachelor's Degree in Business Information Systems**

To earn a bachelor's degree in Business Information Systems, a student must complete the University requirements for a bachelor's degree and the following categories of coursework in the College of Business: Pre-Business, College of Business Core, BIS Department Core, and one of three areas of emphasis: Technical, Managerial, or Training and Development.

# Department of Business Information Systems

## 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) or	
<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) or	
<b>MHR 4890 (CI)</b> Business Strategy in a Global Context (F,Sp,Su) (3 cr) .....	3

## BIS 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> Management Information Systems Development (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
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<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> Management Information Systems Development (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 Business Information Systems major emphases can be found on pages 201-203 and at:

<http://www.usu.edu/cobssc/web/fouryeardegreeplans.htm>

## Business 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> Management Information Systems Development (F,Sp) .....	3
<b>CS 1400</b> Introduction to Computer Science—CS 1 (F,Sp,Su) (3 cr) or	
<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) and	
<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) or	
<b>CS 3410 (CI/DSC)<sup>1</sup></b> Algorithm Development: JAVA/Internet (F,Su) (3 cr) or	
<b>CS 3510 (QI/DSC)</b> Algorithm Development: 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 Business Information Systems sponsors or co-sponsors three student organizations. Each group provides unique experiences that can complement and enrich formal coursework.

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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 business 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 business information systems majors so that they will contribute to their field.

## Delta Epsilon Chi (DEX)

Delta Epsilon Chi (DEX) is a cocurricular organization designed for marketing education and marketing majors. The major goal of DEX is to help students prepare for careers in marketing or marketing education. DEX provides students with opportunities to compete in marketing events at the state and national levels. Membership is open to all students interested in business and marketing.

## Delta Pi Epsilon (DPE)

Delta Pi Epsilon (DPE) is a national honorary fraternity for graduate students. Purposes of the organization include enhancement of research, scholarship, service, and cooperation in the profession. Election to membership requires review by members and faculty of the Department of Business Information Systems.

## Additional Information

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

## Four-year Degree Plans (8 semesters)

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

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

Students enrolled in the business 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 (32 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 (16 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
ECON 3400 International Economics for Business .....	3
CS 1400 Introduction to Computer Science—CS 1 .....	3
CS 1405 Introduction to Computer Science—CS 1 Lab .....	1

#### Junior Year (31 credits)

##### Fall Semester (15 credits)

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

##### Spring Semester (16 credits)

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

#### Senior Year (29 credits)

##### Fall Semester (15 credits)

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

##### Spring Semester (14 credits)

BIS 5100 Systems Design and Implementation .....	3
BIS 5110 Systems Design Laboratory .....	1
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 .....	7

**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 Business Information Systems Major, Managerial Emphasis

Students enrolled in the business 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.

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## 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 Management Information Systems Development .....	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 Business Information Systems Major, Training and Development Emphasis

Students enrolled in the business 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

## 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

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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 Business 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 3.0 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 BIS Department require the following core: BIS 6150, 6440, 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 business information systems.

Students are expected to have a background in business information systems. Required courses are BIS 6120, 6200, 6330, 6400 (or 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 Business Information Systems, Computer Science, Instructional Technology, Business Administration, Accounting, Economics, or other approved electives to complete the 9 credits of electives required.

The specializations in **Business Education, Marketing Education, and Training and Development** are designed for those who are teaching in an area of business or who wish to work in training and development in business and industry. Required courses for the Business Education or Marketing Education specialization are BIS 6350, 6450, 6700, 6720, 6730, and 6770. Students must complete 15 credits of electives chosen from the following list (or select others with committee approval): BIS 6350, 6400, 6600, 6720, 6730, 6770; BUS 6250.

Required courses for the Training and Development specialization are BIS 6350, 6450; and BUS 6250. Students must complete 15 credits of electives chosen from the following list (or select others with committee approval): BIS 6120, 6330, 6410.

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

The USU MS in Business Information Systems is the only master's program in Business 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 Business 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 Business Information Systems cooperates with other departments in offering the interdepartmental Doctor of Philosophy (PhD) and Doctor of Education (EdD). Within the Business Information Systems specialization, emphases can be pursued in business education, marketing education, business information systems, and business communications. Other subject-matter emphases are also available. 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 business-teacher education in colleges and universities or in business and industry. Former graduates are currently in various positions in higher education, including higher education administration; in teacher education instruction; 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.

The business and marketing teacher education programs at the graduate level are ranked highly and respected throughout the nation, with faculty who are nationally and internationally recognized.

All students must meet admission requirements as specified by the School of Graduate Studies (see pages 99-100).

### Research

Faculty in the Department of Business Information Systems are active in research and scholarly endeavors. Current and published research topics include business communications; international communications; improvement of instruction in teaching; business information systems as related to business and 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; issues in higher education; and other areas related to business information systems, marketing education, and business education.

# Department of Business Information Systems

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## 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. These assistants generally teach classes in keyboarding, word processing, business communications, and microcomputer applications. 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

Business 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. Currently, there is also a great demand for business teachers in public education.

## Business Information Systems Faculty

### Professors

*Karen A. Forcht*, business information systems, business communication, data management, computer security  
*Dennis J. LaBonty*, business information systems, business education

*David H. Olsen*, business information systems  
*David J. Paper*, business information systems  
*John F. Vinsonhaler*, business information systems

### Professors Emeritus

*H. Robert Stocker*  
*William A. Stull*

### Associate Professors

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

### Assistant Professors

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

### Principal Lecturers

*Susan M. Jones*, business information systems, business communications  
*Marianna Larsen*, business information systems, business communications  
*Craig J. Peterson*, business information systems  
*Dana H. Swensen*, business information systems, business communications

### Senior Lecturer and Executive in Residence

*Ralph B. "Bernie" Lantz*, computer technology, networks security, business information systems, computer literacy

## Course Descriptions

Business Information Systems (BIS), pages 578-580.