MANAGEMENT INFORMATION SYSTEMS (BSB)

The program in Management Information Systems is intended for undergraduate business students who plan to start their career as information systems professionals in either information technology producing industries or with the heavy users of such technologies. If they decide to take a minor in MIS, graduates will be able to function as liaisons representing their department or business function in information systems projects. This program is guided by several curriculum principles:

• Designed to educate management-oriented, technically proficient information systems professionals.
• Focused on requirements engineering and other stages of system life cycle requiring heavy involvement of systems analysts rather than on technical implementation stages.
• Complements a thorough understanding of business operations covered in the core undergraduate business curriculum. This combination of competencies is particularly important for systems analysts and makes this program distinct from programs in computer science.
• Designed according to current technological trends and is flexible to accommodate its adjustment as stipulated by rapidly changing and evolving information technologies.
• Includes sufficient training in technology skills in high demand to make graduates easily employable and immediately productive.

In this program, students will acquire:

• A broad understanding of information technologies and their utilization in private and governmental organizations
• An in-depth understanding of information systems life cycle and the nature of related phases and tasks from initial study through post-implementation support
• A thorough understanding of system requirements elicitation, analysis, documentation, validation, and management
• Ability to work with users and builders of information systems
• An understanding of information systems project management
• Ability to develop prototypes using visual programming technology
• Ability to identify organizational data and to design and manipulate databases
• Ability to integrate technical knowledge and understanding of business operations
• Experience working on team projects

Learning Outcomes

Core Outcomes

• Use analytical and reflective skills in decision-making.
• Communicate effectively both orally and in writing.
• Recognize legal and ethical issues confronting them.
• Contribute to the performance of a group within a business setting.
• Know the differences among global economies, institutions, business practices and cultures.
• Acquire knowledge of the functional areas of business and the interrelationships among the functional areas within a business.

Program Specific Outcomes

Students will be able to:

• Analyze, gather requirements, and design systems.
• Conceptualize, design, and develop relational databases.
• Develop, control, and manage projects.

College Core Requirements

Business Core Requirements

All undergraduate students in the Driehaus College of Business complete foundational courses in the areas of analytics, accountancy, mathematics, economics, business law, finance, management, management information systems/computer science, and marketing.

Course Requirements

For a student to complete the Bachelor of Science in Business, the following Business Core courses totaling at least 66.0 hours are required:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Quarter Hours</th>
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</thead>
<tbody>
<tr>
<td>ACC 101</td>
<td>INTRODUCTION TO ACCOUNTING I</td>
<td>4</td>
</tr>
<tr>
<td>ACC 102</td>
<td>INTRODUCTION TO ACCOUNTING II</td>
<td>4</td>
</tr>
<tr>
<td>BLW 201</td>
<td>LEGAL &amp; ETHICAL ASPECTS IN THE BUSINESS ENVIRONMENT</td>
<td>4</td>
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<tr>
<td>BUS 102</td>
<td>BUSINESS ANALYTICS (all business majors except Actuarial Science)</td>
<td>4</td>
</tr>
<tr>
<td>or MAT 151</td>
<td>CALCULUS II</td>
<td></td>
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<tr>
<td>ECO 105</td>
<td>PRINCIPLES OF MICROECONOMICS</td>
<td>4</td>
</tr>
<tr>
<td>ECO 106</td>
<td>PRINCIPLES OF MACROECONOMICS</td>
<td>4</td>
</tr>
<tr>
<td>ECO 315</td>
<td>INTRODUCTION TO MONEY AND BANKING</td>
<td>4</td>
</tr>
<tr>
<td>or FIN 320</td>
<td>MONEY AND BANKING</td>
<td></td>
</tr>
<tr>
<td>MGT 300</td>
<td>PRINCIPLES OF MANAGEMENT</td>
<td>4</td>
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<tr>
<td>MGT 301</td>
<td>PRINCIPLES OF OPERATIONS MANAGEMENT</td>
<td>4</td>
</tr>
<tr>
<td>MKT 301</td>
<td>PRINCIPLES OF MARKETING</td>
<td>4</td>
</tr>
<tr>
<td>MKT 310</td>
<td>CONSUMER BEHAVIOR</td>
<td>4</td>
</tr>
<tr>
<td>Finance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>4</td>
<td></td>
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<tr>
<td>FIN 300</td>
<td>FOUNDATIONS OF finance</td>
<td></td>
</tr>
<tr>
<td>FIN 310</td>
<td>INTRODUCTION TO FINANCE</td>
<td></td>
</tr>
</tbody>
</table>

Computer Science or MIS

Select one of the following: 4

Program Requirements Quarter Hours
Business Core Requirements 66
Liberal Studies Requirements 76
Major Requirements 26
Open Electives 24
Total hours required 192
**Communication**

Select one of the following:
- MKT 376  EFFECTIVE BUSINESS COMMUNICATION
- ORGC 201  BUSINESS AND PROFESSIONAL COMMUNICATION

**Business Capstone**

Select one of the following:
- ICS 394  ENTREPRENEURSHIP STRATEGY
- ICS 395  MANAGEMENT STRATEGY
- ICS 396  HOSPITALITY STRATEGY (Hospitality majors only)

**Global Business Perspective**

Select 4.0 hours of the following:
- ECO 316  EUROPEAN ECONOMIC HISTORY
- ECO 330  RADICAL RESPONSES TO CAPITALISM
- ECO 333  TOPICS IN GLOBAL ECONOMIES
- ECO 334  UNDERSTANDING CHINA’S ECONOMY
- ECO 360  ECONOMICS OF LOW-INCOME COUNTRIES
- ECO 361  INTERNATIONAL TRADE
- ECO 362  INTERNATIONAL MONETARY ECONOMICS
- ECO 363  ECONOMICS OF THE EUROPEAN UNION
- FIN 340  INTERNATIONAL FINANCE
- FIN 355  GLOBAL IPOs & VENTURE CAPITAL
- ICS 350  INTERNATIONAL BUSINESS SEMINAR
- MGT 354  GLOBAL HUMAN RESOURCE MANAGEMENT
- MGT 357  INTERNATIONAL BUSINESS
- MKT 340  MARKETING ACROSS CULTURES: A CULTURAL PERSPECTIVE ON MULTICULTURAL MARKETS
- MKT 358  MARKETING IN A GLOBAL ENVIRONMENT
- MKT 360  INTERNATIONAL MARKETING
- SOC 217  WORK IN A GLOBALIZED WORLD

A course taken as part of a term-long study abroad program.

**Professional Writing**

Select one of the following:
- WRD 202  PROFESSIONAL WRITING FOR BUSINESS (2.0 quarter hours)
- WRD 204  TECHNICAL WRITING
- WRD 206  PROFESSIONAL WRITING
- MAT 341  STATISTICAL METHODS USING SAS (Actuarial Science majors only)

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1 Strobel students take specially designated sections of all required ACC classes, including ACC 101 and ACC 102 (excluding ACC 250).
2 Students majoring in accounting (primary or secondary/double major) are allowed to substitute ACC 370 in place of BLW 201. Hospitality Leadership majors must take HSP 207 for the Business Law requirement; use of HSP 207 is limited to Hospitality Leadership majors. A student majoring in Hospitality Leadership and a second business major must complete both HSP 207 and BLW 201.
3 All business majors take BUS 102. Actuarial Science students must take MAT 151 in lieu of BUS 102. BSB analytics content met within Actuarial Science major requirements.
4 Finance majors, Finance secondary/double majors, Finance minors, Finance Honors majors, Finance Honors secondary/double majors, and Actuarial Science majors must take FIN 320.
5 MGT 301-H is required if pursuing the Management Honors Program.
6 Majors and double majors in Accountancy, Actuarial Sciences, Economics, Finance, Finance Honors and Management Information Systems and Finance minors must take FIN 310.
7 MIS majors and minors must take MIS 140.
8 Actuarial Science majors must take CSC 241.
9 MKT majors and Sales minors must take MKT 376.
10 Entrepreneurship majors and minors must take ICS 394.
11 Hospitality Leadership majors must take ICS 396 for the Business Capstone; use of ICS 396 is limited to Hospitality Leadership majors. A student majoring in Hospitality Leadership and a second business major must complete ICS 396 and one of ICS 394 or ICS 395.
12 A course taken for Global Business Perspective that is in a student’s major or minor field must be completed with a minimum grade of C-
13 Actuarial Science majors must take MAT 341 for Professional Writing; use of MAT 341 is limited to Actuarial Science majors.

**Business Ethics**

All undergraduate students in the Driehaus College of Business complete a course in Business Ethics. It is recommended students take MGT 248 or PHL 248 in Philosophical Inquiry or MGT 228 or REL 228 in Religious Dimensions in the Liberal Studies Program (or University Honors Program) Requirements.

**Second Majors and Minors**

The addition of a second major or minor may affect the Business Core classes required for a student. Meet with an academic advisor to confirm requirements.

**Math Requirements for all business majors (except Actuarial Science majors)**

- MAT 137 may be replaced by MAT 348 or MAT 351; if done, an additional Scientific Inquiry course must be added to the degree plan.

**Math Requirements for Actuarial Science majors**

- An Actuarial Science student is expected to complete the Calculus sequence (MAT 150, MAT 151, and MAT 152) in the first year of study.
- Actuarial Science students do not take MAT 135, MAT 136, or MAT 137.

**Grade Minimum Requirements for Management Information Systems Major**

A minimum grade of C- is required for the following: ACC 101, ACC 102, BUS 102, ECO 105, ECO 106, MAT 137, MIS 140, and the course used for Professional Writing.

**Liberal Studies Requirements**

Honors program requirements can be found in the individual Colleges & Schools section of the University Catalog. Select the appropriate college or school, followed by Undergraduate Academics and scroll down.
Course Title Hours
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**First Year Program**
**Chicago Quarter**
LSP 110 DISCOVER CHICAGO or LSP 111 or EXPLORE CHICAGO 4
**Focal Point**
LSP 112 FOCAL POINT SEMINAR 4
**Writing**
WRD 103 COMPOSITION AND RHETORIC I 4
WRD 104 COMPOSITION AND RHETORIC II 4
**Quantitative Reasoning & Technological Literacy**
Not Required

**Sophomore Year**
**Multiculturalism in the US**
LSP 200 SEMINAR ON MULTICULTURALISM IN THE UNITED STATES 4

**Junior Year**
**Experiential Learning**
Required 4
**Senior Year**
ICS 392 SENIOR SEMINAR 4

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**Learning Domains**

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**Arts and Literature (AL)**
- 3 AL Courses Required

**Historical Inquiry (HI)**
- 2 HI Courses Required

**Philosophical Inquiry (PI)**
- 2 PI Courses Required

**Religious Dimensions (RD)**
- 2 RD Courses Required

**Scientific Inquiry (SI)**
- MAT 137
- 1 Lab or SWK Course

**Social, Cultural, and Behavioral Inquiry (SCBI)**
- 1 SCBI Course Required

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Notes
Specified required courses within Liberal Studies may have grade minimums (e.g. C- or better). Please consult your advisor or your college and major requirements.

Courses offered in the student’s primary major cannot be taken to fulfill LSP Domain requirements. If students double major, LSP Domain courses may double count for both LSP credit and the second major. Students who choose to take an experiential learning course offered by the major may count it either as a general elective or the Experiential Learning requirement.

In meeting learning domain requirements, no more than one course that is outside the student’s major and is cross-listed with a course within the student’s major, can be applied to count for LSP domain credit. This policy does not apply to those who are pursuing a double major or earning BFA or BM degrees.

**Major Requirements**

**Course Requirements**
In addition to MIS 140, a student majoring in Management Information Systems is required to complete the following courses totaling at least 26.0 hours:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 130</td>
<td>INTRODUCTORY COMPUTING FOR THE WEB</td>
<td>4</td>
</tr>
<tr>
<td>IT 263</td>
<td>APPLIED NETWORKS AND SECURITY</td>
<td>4</td>
</tr>
<tr>
<td>MIS 250</td>
<td>CAREER MANAGEMENT PREPAREDNESS</td>
<td>2</td>
</tr>
<tr>
<td>MIS 360</td>
<td>SYSTEMS ANALYSIS AND DESIGN</td>
<td>4</td>
</tr>
<tr>
<td>MIS 362</td>
<td>INFORMATION SYSTEMS PROJECT MANAGEMENT</td>
<td>4</td>
</tr>
<tr>
<td>MIS 370</td>
<td>DATABASE MANAGEMENT SYSTEMS DESIGN AND DEVELOPMENT</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one elective course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Quarter Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 211</td>
<td>INTRODUCTION TO APPLIED PROGRAMMING</td>
<td>4</td>
</tr>
<tr>
<td>IT 231</td>
<td>WEB DEVELOPMENT I</td>
<td>4</td>
</tr>
<tr>
<td>MIS 398</td>
<td>SPECIAL TOPICS</td>
<td>4</td>
</tr>
</tbody>
</table>

Topic: Data Mining and Analytics only.

MIS 350 is to be taken only by MIS minors; MIS 360 is to be taken only by MIS majors.

**Career Management Course**
Students are required to complete the Career Course (250) associated with the major. Students who double major may choose the Career Course (250) associated with either major provided that hours for graduation are satisfied.

**Open Electives**
Open elective credit (24.0 hours) also is needed to meet the minimum graduation requirement of 192 hours.
Graduation Requirements
All Management Information Systems (MIS) courses and any courses used toward the Management Information Systems major must be completed with a minimum grade of C- and with a combined GPA of 2.000 or higher.