

# INFORMATION SYSTEMS, BS

for the degree of Bachelor of Science in Information Systems

The Information Systems major prepares students to comfortably navigate through the challenges posed by the new-age organizations and society that are increasingly getting digitized.

Students learn about the design, implementation, and protection of systems and technology to address the information processing needs of an organization, and provide data and information for managerial decision-making. IS majors take both, technology and business courses which equip them with the required skill-set to be able to design, develop and deploy computer and software-based solutions in order to help businesses attain their tactical and strategic objectives.

Some of the key courses taken by IS majors include information technology for networked organizations, systems analysis and design, and database management. Because computers and software are used in all functional areas of business today, IS majors may choose to take additional courses in data analytics, information security/cyber-security, project management, human-computer interaction, programming, and social media applications to strengthen their resume, gain a wider exposure to domains supported by IS specialists, and prepare themselves to face the challenges in the technology-driven business world of today. IS majors will have the required knowledge and skill-set to make decisions about the selection and implementation of information systems/information technology, be a liaison between non-technical managers, computer programmers, and technical managers, assume a wide variety of roles requiring computer-based solutions, and generally be business leaders of the digital era.

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## Core Curriculum

Normally, students must register for no fewer than 12 hours or more than 18 hours in each semester. Students should take mathematics, economics, and accountancy courses in the semesters indicated in the sample schedule of courses. The computer science course must be taken during the first year. The computer science requirement no longer allows ACE 161 as an equivalent course.

Up to 4 hours of Kinesiology activity courses, numbered 100-110 may be counted toward the 124 hours for the degree. The same section of a course may not be repeated for credit. Credit is limited to a maximum of 12 credit hours for 199 courses. Students may receive foreign language credit for courses only 2 levels below highest level taken in high school. For example: 4 years of high school French-no credit below FR 102.

Credit toward the 124 degree hours is not given for MATH 101. Once the math requirement is completed, lower level math courses cannot be taken for credit.

Any course used to fill a specific degree requirement may not be taken on the credit-no credit grade option. Only free electives may be taken on the credit-no credit option. All finance and accountancy courses must be taken for a grade. It is recommended that all courses taken in the business administration area be taken for a grade.

## Graduation Requirements

Minimum hours required for graduation: 124 hours.

## University Requirements

Minimum of 40 hours of upper-division coursework, generally at the 300- or 400-level. These hours can be drawn from all elements of the degree. Students should consult their academic advisor for additional guidance in fulfilling this requirement.

The university and residency requirements can be found in the Student Code (<https://studentcode.illinois.edu/article3/part8/3-801/>) (§ 3-801) and in the Academic Catalog (<http://catalog.illinois.edu/general-information/degree-general-education-requirements/>).

## General Education Requirements

Follows the campus General Education (Gen Ed) requirements (<https://courses.illinois.edu/gened/DEFAULT/DEFAULT/>). Some Gen Ed requirements may be met by courses required and/or electives in the program.

Code	Title	Hours
	Composition I	4-6
	Advanced Composition	3
	Humanities & the Arts (6 Hours)	6
	Natural Sciences & Technology (6 hours)	6
	Social & Behavioral Sciences (6 hours)	6
	fulfilled by ECON 102 and ECON 103	
	Cultural Studies: Non-Western Cultures (1 course)	3
	Cultural Studies: US Minority Cultures (1 course)	3
	Cultural Studies: Western/Comparative Cultures (1 course)	3
	Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)	6-10
	fulfilled by CS 105; and MATH 115, MATH 220, MATH 221, MATH 231, MATH 234, or STAT 100	
	Language Requirement (Completion of the third semester or equivalent of a language other than English is required)	0-15

## Business Core Requirements

Code	Title	Hours
ACCY 201 & ACCY 202	Accounting and Accountancy I and Accounting and Accountancy II	6
BUS 101	Professional Responsibility and Business	3
BUS 201	Business Dynamics	3
BUS 301	Business in Action	3
BUS 401	Crafting Your Purpose in Business	3
BADM 210 & BADM 211	Business Analytics I and Business Analytics II	6
BADM 275	Introduction to Operations and Supply Chain Management	3
BADM 300	The Legal Environment of Bus	3
BADM 310	Mgmt and Organizational Beh	3
BADM 320	Principles of Marketing	3
BADM 449	Business Policy and Strategy	3
CMN 101	Public Speaking	3
CS 105	Intro Computing: Non-Tech	3

ECON 102 & ECON 103	Microeconomic Principles and Macroeconomic Principles	6
FIN 221	Corporate Finance	3
<b>Business Core Math</b>		<b>3-5</b>
Choose one course from the list below:		
MATH 115	Preparation for Calculus	3
MATH 220	Calculus	5
MATH 221	Calculus I	4
MATH 231	Calculus II	3
MATH 234	Calculus for Business I	4
STAT 100	Statistics	3
<b>Minimum Total Hours</b>		<b>57</b>

## Information Systems, BS Major Core Requirements and Electives

Code	Title	Hours
BADM 350	IT for Networked Organizations	3
BADM 352	Database Design and Management	3
BADM 353	Info Sys Analysis and Design	3
Information Systems Major Electives (choose three courses):		
BADM 351	Social Media Strategy	3
BADM 356	Data Science and Analytics	3
BADM 357	Digital Making Seminar	3
BADM 453	Business Intelligence	3
BADM 458	IT Governance	3
BADM 358	Big Data Platforms	3
BADM 370	Information Security Management	3
BADM 371	User Interaction/User Experience Design	3
BADM 372	Information Systems & Operations Management Practicum	3
Information Systems Program electives (choose three courses):		
BADM 323	Marketing Communications	3
BADM 324	Purchasing and Supply Mgmt	3
BADM 326	Pricing Analytics	3
BADM 329	New Product Development	3
BADM 374	Management Decision Models	3
BADM 375	Operations Strategy	3
BADM 377	Project Management	3
BADM 379	Business Process Improvement	3
BADM 382	International Marketing	3
BADM 358	Big Data Platforms	3
BADM 370	Information Security Management	3
BADM 372	Information Systems & Operations Management Practicum	3
<b>Total Hours</b>		<b>27</b>

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## Sample Sequence

This sample sequence is intended to be used only as a guide for degree completion. All students should work individually with their academic

advisors to decide the actual course selection and sequence that works best for them based on their academic preparation and goals. Enrichment programming such as study abroad, minors, internships, and so on may impact the structure of this four-year plan. Course availability is not guaranteed during the semester indicated in the sample sequence.

Students must fulfill their Language Other Than English requirement by successfully completing a third level of a language other than English. See the corresponding section on the Degree and General Education Requirements page (<http://catalog.illinois.edu/general-information/degree-general-education-requirements/>).

### First Year

First Semester	Hours
BUS 101	3
ECON 102	3
Composition I or CMN 101	4
Language Other Than English (3rd level)	4
Business Core Math	3
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<b>Total Hours</b>	<b>17</b>

### Total Hours 17

### First Year

Second Semester	Hours
ECON 103	3
CS 105	3
FIN 221	3
CMN 101 (or Composition I)	3
General Education course	4
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<b>Total Hours</b>	<b>16</b>

### Total Hours 16

### Second Year

First Semester	Hours
BUS 201	3
BADM 210	3
ACCY 201	3
BADM 310	3
General Education course	3
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<b>Total Hours</b>	<b>15</b>

### Total Hours 15

### Second Year

Second Semester	Hours
BADM 211	3
BADM 275	3
BADM 320	3
ACCY 202	3
General Education course	4
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<b>Total Hours</b>	<b>16</b>

### Total Hours 16

**Third Year**

<b>First Semester</b>	<b>Hours</b>
BUS 301	3
BADM 350	3
BADM Information Systems Major Elective	3
BADM Information Systems Program Elective	3
General Education course	3
	<b>15</b>

**Total Hours 15****Third Year**

<b>Second Semester</b>	<b>Hours</b>
BADM 352	3
BADM 353	3
BADM 300	3
BADM Information Systems Major Elective	3
General Education course	3
	<b>15</b>

**Total Hours 15****Fourth Year**

<b>First Semester</b>	<b>Hours</b>
BUS 401	3
BADM Information Systems Major Elective	3
BADM Information Systems Program Elective	3
General Education course	3
General Education course	3
	<b>15</b>

**Total Hours 15****Fourth Year**

<b>Second Semester</b>	<b>Hours</b>
BADM 449	3
BADM Information Systems Program Elective	3
General Education course	3
Free Elective course	3
Free Elective course	3
	<b>15</b>

**Total Hours 15****Total Hours: 124***for the degree of Bachelor of Science in Information Systems*

2. Understand the intersection of technology and businesses, and recommend solutions to improve business performance and efficiency.

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**Overview of College Admissions & Requirements:** Gies Catalog (<http://catalog.illinois.edu/schools/gies-business/academic-units/>)

Gies College of Business website (<https://giesbusiness.illinois.edu/>)

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Upon completion of the program, students will be able to:

1. Use critical thinking and problem-solving skills to provide solutions to businesses that leverage information technology.