

INFORMATION SYSTEMS, BS

for the degree of Bachelor of Science Major 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.

Minimum hours required for graduation: 124 hours.

University Composition Requirements

Code	Title	Hours
	Composition I: Principles of Composition ¹	4-7
	Advanced Composition	3

General Education Requirements

Code	Title	Hours
	A minimum of six courses is required, as follows:	18
	Humanities & the Arts: Literature & the Arts (1-2 courses) ⁴	
	Humanities & the Arts: Historical & Philosophical Perspectives (1-2 courses) ⁴	
	Natural Sciences & Technology: Physical Sciences (0-2 courses) ⁵	
	Natural Sciences & Technology: Life Sciences (0-2 courses) ⁵	
	Behavioral Sciences (1 course)	
	Cultural Studies: Non-Western Cultures (1 course)	
	Cultural Studies: U.S. Minorities Cultures (1 course)	
	Cultural Studies: Western/Comparative Cultures (1 course)	
	Quantitative Reasoning (2 courses) ⁷	

Language Other Than English

Code	Title	Hours
	Completion of the third semester or equivalent of a language other than English is required. Completion of three years of a single language in high school satisfies this requirement.	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 ²	3
BUS 201	Business Dynamics	3
BUS 301	Business in Action	3
BUS 401	Global Business Perspectives	3
BADM 210 & BADM 211	Business Analytics I and Business Analytics II	6
BADM 275	Fundamentals of Operations Management	3
BADM 300	The Legal Environment of Bus	3
BADM 310	Mgmt and Organizational Beh ⁶	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
Total Hours		54

¹ For a list of the specific courses that meet this requirement, see the college Office of Undergraduate Affairs in 1055 Business Instructional Facility or see the Course Explorer for a list of approved general education courses.

² BUS 101, BUS 201, BUS 301 and BUS 401 are required for all Gies College of Business students. Students who enter the College their first year take each sequential course every fall. Inter-College transfer students take BUS 301 and BUS 401 in their sophomore year. Off-campus transfer students take BUS 101 and BUS 201 in their junior year.

⁴ Three courses in the Humanities & the Arts area are required and students must complete at least one course in the Literature & the Arts and Historical & Perspectives subcategories. At least one of the courses must be a 200 or higher level course.

⁵ Two courses in the Natural Sciences & Technology area are required. It is strongly recommended that students complete one course in the Physical Sciences and Life Sciences subcategories.

⁶ This course includes limited voluntary participation as a subject in experiments.

⁷ CS 105 fulfills a Quantitative Reasoning I requirement.

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
Select three of the following IS Major electives:		9
BADM 351	Social Media Strategy	
BADM 356	Data Science and Analytics	
BADM 357	Digital Making Seminar	
BADM 453	Business Intelligence	
BADM 458	IT Governance (Prerequisite: BADM 350)	
BADM 395	Special Topics (Sec. BDI) ¹	
BADM 395	Special Topics (Sec. ISM) ¹	
BADM 395	Special Topics (Sec. ID) ¹	

BADM 395	Special Topics (Sec. IOP) ¹	
Select three of the following IS Program electives:		9
BADM 323	Marketing Communications (Prerequisite: BADM 320)	
BADM 324	Purchasing and Supply Mgmt (Prerequisite: Credit or concurrent enrollment in BADM 320)	
BADM 326	Pricing Strategy (Prerequisite: BADM 320)	
BADM 329	New Product Development (Prerequisite: BADM 320)	
BADM 374	Management Decision Models (Prerequisite: BADM 210)	
BADM 375	Operations Strategy	
BADM 377	Project Management	
BADM 379	Business Process Improvement	
BADM 382	International Marketing (Prerequisite: BADM 320)	
BADM 395	Special Topics (Sec. BDI) ¹	
BADM 395	Special Topics (Sec. ISM) ¹	
BADM 395	Special Topics (Sec. ID) ¹	
BADM 395	Special Topics (Sec. IOP) ¹	
Total Hours		27

¹ Each section of BADM 395 can only be applied to one (1) of the two (2) elective categories.

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1. Develop an understanding of fundamental concepts and key principles in the area of Management Information Systems.
2. The ability to analyze managerial and organizational issues, apply relevant knowledge to come up with solutions, and make recommendations.
3. The ability to use knowledge and skills related to digital technologies to enhance business administration and decision making.
4. The ability to collaborate as a team member in varying roles in a diverse group and communicate effectively.

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overview of college admissions & requirements: Gies Catalog (<http://catalog.illinois.edu/schools/gies-business/academic-units/>)
college website: <https://giesbusiness.illinois.edu/> (<https://business.illinois.edu/>)