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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Composition I: Principles of Composition ¹</td>
<td>4-7</td>
</tr>
<tr>
<td></td>
<td>Advanced Composition</td>
<td>3</td>
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</tbody>
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General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td>A minimum of six courses is required, as follows:</td>
<td>18</td>
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<tr>
<td></td>
<td>Humanities &amp; the Arts: Literature &amp; the Arts (1-2 courses) ⁴</td>
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<tr>
<td></td>
<td>Humanities &amp; the Arts: Historical &amp; Philosophical Perspectives (1-2 courses) ⁴</td>
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<td></td>
<td>Natural Sciences &amp; Technology: Physical Sciences (0-2 courses) ⁵</td>
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<tr>
<td></td>
<td>Natural Sciences &amp; Technology: Life Sciences (0-2 courses) ⁵</td>
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<tr>
<td></td>
<td>Behavioral Sciences (1 course)</td>
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<tr>
<td></td>
<td>Cultural Studies: Non-Western Cultures (1 course)</td>
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<tr>
<td></td>
<td>Cultural Studies: U.S. Minorities Cultures (1 course)</td>
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<tr>
<td></td>
<td>Cultural Studies: Western/Comparative Cultures (1 course)</td>
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<td></td>
<td>Quantitative Reasoning (2 courses)</td>
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Language Other Than English

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>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.</td>
<td>0-15</td>
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</table>

Business Core Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 201 &amp; ACCY 202</td>
<td>Accounting and Accountancy I and Accounting and Accountancy II</td>
<td>6</td>
</tr>
<tr>
<td>BUS 101</td>
<td>Professional Responsibility and Business ²</td>
<td>3</td>
</tr>
<tr>
<td>BUS 201</td>
<td>Business Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 301</td>
<td>Business in Action</td>
<td>3</td>
</tr>
<tr>
<td>BUS 401</td>
<td>Global Business Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>BADM 210 &amp; BADM 211</td>
<td>Business Analytics I and Business Analytics II</td>
<td>6</td>
</tr>
<tr>
<td>BADM 275</td>
<td>Fundamentals of Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>BADM 300</td>
<td>The Legal Environment of Bus</td>
<td>3</td>
</tr>
<tr>
<td>BADM 310</td>
<td>Mgmt and Organizational Beh ⁵</td>
<td>3</td>
</tr>
<tr>
<td>BADM 320</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BADM 449</td>
<td>Business Policy and Strategy</td>
<td>3</td>
</tr>
<tr>
<td>CMN 101</td>
<td>Public Speaking</td>
<td>3</td>
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<tr>
<td>CS 105</td>
<td>Intro Computing: Non-Tech</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102 &amp; ECON 103</td>
<td>Microeconomic Principles and Macroeconomic Principles</td>
<td>6</td>
</tr>
<tr>
<td>FIN 221</td>
<td>Corporate Finance</td>
<td>3</td>
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</table>

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.

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.

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.

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

CS 105 fulfills a Quantitative Reasoning I requirement.

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<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>BADM 350</td>
<td>IT for Networked Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BADM 352</td>
<td>Database Design and Management</td>
<td>3</td>
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<tr>
<td>BADM 353</td>
<td>Info Sys Analysis and Design</td>
<td>3</td>
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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. 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/)

Information listed in this catalog is current as of 06/2023