The Information Systems (IS) major is concerned with 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.

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: 120 hours.
Information Systems, BS

2 BUS 101 and BUS 201 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 101 and BUS 201 in their sophomore year. Off-campus transfer students take BUS 101 and BUS 201 in their junior year.

3 MATH 220 or MATH 221 may be substituted for MATH 234. (See college mathematics requirement above.

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 on course in the Physical Sciences and Life Sciences subcategories.

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</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>
</tr>
<tr>
<td>BADM 353</td>
<td>Info Sys Analysis and Design (Prerequisite: BADM 350)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following: 6

- BADM 351 E-Business Management (Prerequisite: BADM 350)
- BADM 355 Enterprise Software Management
- BADM 453 Business Intelligence
- BADM 458 IT Governance (Prerequisite: BADM 350)

Select four of the following: 12-14

- BADM 311 Leading Individuals and Teams (Prerequisite: BADM 310)
- BADM 312 Designing and Managing Orgs (Prerequisite: BADM 310)
- BADM 322 Marketing Research (Prerequisite: BADM 320)
- BADM 324 Purchasing and Supply Mgmt (Prerequisite: Credit or concurrent enrollment in BADM 320)
- BADM 374 Management Decision Models (Prerequisite: BADM 211)
- BADM 375 Operations Management
- BADM 377 Project Management
- BADM 379 Business Process Improvement
- BADM 380 International Business
- BADM 445 Small Business Consulting
- BADM 446 Entrepreneurship: New Venture Creation

Total Hours 27

Information listed in this catalog is current as of 06/2020