### B.S. in Business and Information Systems

(129 credits)

<table>
<thead>
<tr>
<th>First Year</th>
<th>1st Semester</th>
<th>Term Credits</th>
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<tbody>
<tr>
<td>CS 100</td>
<td>Roadmap to Computing</td>
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<tr>
<td>Science Elective</td>
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<tr>
<td>HUM 101</td>
<td>English Composition: Writing, Speaking, Thinking I</td>
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<tr>
<td>MATH 138</td>
<td>General Calculus I $^1$</td>
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<tr>
<td>CS 107</td>
<td>Computing as a Career</td>
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<tr>
<td>IS 117</td>
<td>Introduction to Website Development</td>
<td>3</td>
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<td><strong>Term Credits</strong></td>
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<table>
<thead>
<tr>
<th>2nd Semester</th>
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<tbody>
<tr>
<td>ECON 201</td>
<td>Economics</td>
</tr>
<tr>
<td>IS 265</td>
<td>Introduction to Information Systems</td>
</tr>
<tr>
<td>or MIS 245</td>
<td>or Introduction to Management Information Systems</td>
</tr>
<tr>
<td>HUM 102</td>
<td>English Composition: Writing, Speaking, Thinking II</td>
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<td>ACCT 117</td>
<td>Survey of Accounting</td>
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<tr>
<td>or ACCT 115</td>
<td>or Fundamentals of Financial Accounting</td>
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<tr>
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<td>Physical Education</td>
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<thead>
<tr>
<th>Second Year</th>
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<tr>
<td>MATH 105</td>
<td>Elementary Probability and Statistics $^1$</td>
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<td>Select one of the following:</td>
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<tr>
<td>IS 350</td>
<td>Computers, Society and Ethics</td>
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<tr>
<td>HUM 251</td>
<td>Ethical Issues in Business</td>
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<tr>
<td>IT 310</td>
<td>E-commerce Technology</td>
</tr>
<tr>
<td>IS 247</td>
<td>Designing the User Experience</td>
</tr>
<tr>
<td>General Elective 1</td>
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<tr>
<td>Physical Education</td>
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<thead>
<tr>
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<tbody>
<tr>
<td>CS 207</td>
<td>Computing and Effective Communication</td>
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<tr>
<td>General Elective 2</td>
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<tr>
<td>IS 218</td>
<td>Building Web Applications</td>
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<tr>
<td>IS 344</td>
<td>Computing Applications in Business</td>
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<td>Select one of the following:</td>
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<tr>
<td>HUM 211</td>
<td>The Pre-Modern World</td>
</tr>
<tr>
<td>HUM 212</td>
<td>The Modern World</td>
</tr>
<tr>
<td>HIST 213</td>
<td>The Twentieth-Century World</td>
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<tr>
<td>Social Science (lower-level) GUR</td>
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<tr>
<th>Third Year</th>
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<tbody>
<tr>
<td>MGMT 216</td>
<td>Business Statistics</td>
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<tr>
<td>FIN 218</td>
<td>Financial Markets and Institutions</td>
</tr>
<tr>
<td>IS 390</td>
<td>Requirements Analysis and Systems Design</td>
</tr>
<tr>
<td>IS 331</td>
<td>Database Design Management and Applications</td>
</tr>
<tr>
<td>General Elective 3</td>
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</table>
B.S. in Business and Information Systems

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 340</td>
<td>Oral Presentations</td>
<td>3</td>
</tr>
<tr>
<td>ENG 352</td>
<td>Technical Writing</td>
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| Term Credits | 18 |

2nd Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HRM 301</td>
<td>Organizational Behavior</td>
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<tr>
<td>FIN 315</td>
<td>Fundamentals of Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>IS 375</td>
<td>Discovering User Needs to Enhance User eXperience</td>
<td>3</td>
</tr>
<tr>
<td>IT 120</td>
<td>Introduction to Network Technology</td>
<td>3</td>
</tr>
<tr>
<td>or CS 356</td>
<td>or Introduction to Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>General Elective 4</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CS 407</td>
<td>Professional Development in Computing</td>
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</table>

| Term Credits | 18 |

Fourth Year

1st Semester

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MRKT 330</td>
<td>Principles of Marketing</td>
<td>3</td>
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<tr>
<td>MGMT 491</td>
<td>International Business</td>
<td>3</td>
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<tr>
<td>IE 492</td>
<td>Engineering Management</td>
<td>3</td>
</tr>
<tr>
<td>or ENTR 410</td>
<td>or New Venture Management</td>
<td>3</td>
</tr>
<tr>
<td>IS 455</td>
<td>IS Mgmt &amp; Business Processes</td>
<td>3</td>
</tr>
<tr>
<td>Humanities and Social Sciences (upper-level) Capstone Seminar</td>
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| Term Credits | 15 |

2nd Semester

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>Advanced Information Systems</td>
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<td>Select one of the following:</td>
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<tr>
<td>CS 491</td>
<td>Senior Project</td>
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<tr>
<td>IT 491</td>
<td>IT Capstone Project</td>
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<tr>
<td>IS 491</td>
<td>Senior Project</td>
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<tr>
<td>LIT/HIST/PHIL/STS:GUR</td>
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<td>General Elective 5</td>
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<tr>
<td>General Elective 6</td>
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</tbody>
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| Term Credits | 15 |

Total Credits | 129 |

1 MATH 111 Calculus I and MATH 333 Probability and Statistics are highly recommended to replace MATH 138 General Calculus I and MATH 105 Elementary Probability and Statistics, particularly for students contemplating advanced or graduate work in computing. These students also are encouraged to take MATH 112 Calculus II and one or more advanced statistics courses as free electives, such as MATH 341 Statistical Methods II or MATH 344 Regression Analysis, both of which require MATH 333 Probability and Statistics as a prerequisite.

Curriculum Overview

Following is an overview of the curriculum.

Core Information Systems Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>IS 265</td>
<td>Introduction to Information Systems</td>
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<tr>
<td>IT 310</td>
<td>E-commerce Technology</td>
<td>3</td>
</tr>
<tr>
<td>IS 247</td>
<td>Designing the User Experience</td>
<td>3</td>
</tr>
<tr>
<td>IS 350</td>
<td>Computers, Society and Ethics ¹</td>
<td>3</td>
</tr>
<tr>
<td>IS 344</td>
<td>Computing Applications in Business</td>
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</tr>
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<tr>
<td>IS 465</td>
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<tr>
<td>IE 492</td>
<td>Engineering Management</td>
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</tr>
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<td>or ENTR 410</td>
<td>or New Venture Management</td>
<td>3</td>
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<tr>
<td>IS 491</td>
<td>Senior Project</td>
<td>3</td>
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### Core Business Courses
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<tr>
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<tr>
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<td>Economics</td>
<td>3</td>
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<tr>
<td>HUM 251</td>
<td>Ethical Issues in Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 216</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 218</td>
<td>Financial Markets and Institutions</td>
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</tr>
<tr>
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<td>MRKT 330</td>
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<tr>
<td>MGMT 491</td>
<td>International Business</td>
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### Technical Foundation Courses
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<td>IS 117</td>
<td>Introduction to Website Development</td>
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<td>IS 218</td>
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<td>IS 331</td>
<td>Database Design Management and Applications</td>
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</tr>
<tr>
<td>CS 356</td>
<td>Introduction to Computer Networks</td>
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</tr>
<tr>
<td>or IT 120</td>
<td>Introduction to Network Technology</td>
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### Career Building Courses
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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CS 107</td>
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<tr>
<td>CS 207</td>
<td>Computing and Effective Communication</td>
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<tr>
<td>CS 407</td>
<td>Professional Development in Computing</td>
<td>1</td>
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</table>

1. Students may take HUM 251 Ethical Issues in Business or IS 350 Computers, Society and Ethics

This curriculum represents the maximum number of credits per semester for which a student is advised to register. A full-time credit load is 12 credits. First-year students are placed in a curriculum that positions them for success which may result in additional time needed to complete curriculum requirements. Continuing students should consult with their academic advisor to determine the appropriate credit load.