## B.S. in Information Systems
### INFOSYSBS.2009
64-67 credits, incl. 6-8 GE credits

**Effective Date:** 12/2009

To be accepted into the major, you must pass CIS 100 with a B- or better and all other courses listed above with a C or better. You must also have a cumulative GPA of 2.0 or higher. I understand that one retake is allowed per class, for up to three classes. Additional retakes require special permission. I understand that if I exhaust my repeats, I risk the chance of not being able to continue in the major or any other major in the CIS department. Please acknowledge that you understand this policy by signing below.

### Required courses for admission to the major

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Hr.</th>
<th>Prerequisites</th>
<th>Offered</th>
<th>Sem.</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 100</td>
<td>Fundamentals of Info. Systems &amp; Tech.</td>
<td>3</td>
<td></td>
<td>F,W,S</td>
<td></td>
<td></td>
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<tr>
<td>CIS 101</td>
<td>Beginning Programming</td>
<td>3</td>
<td></td>
<td>F,W,S</td>
<td></td>
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<tr>
<td>CIS 202</td>
<td>Object-Oriented Programming I</td>
<td>3</td>
<td>CIS 101, MATH 110 or equivalent</td>
<td>F,W</td>
<td></td>
<td></td>
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<tr>
<td>IT 224/L</td>
<td>Computer Hardware &amp; Systems</td>
<td>3</td>
<td></td>
<td>F,W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IT 240</td>
<td>Fundamentals of Web Design &amp; Technology</td>
<td>3</td>
<td></td>
<td>F,W,S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IT 280/L</td>
<td>Data Comm. Systems and Networks/Lab</td>
<td>3</td>
<td>CIS 101</td>
<td>F,W</td>
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</tr>
</tbody>
</table>

### Core Requirements

**26 Credits**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Hr.</th>
<th>Prerequisites</th>
<th>Offered</th>
<th>Sem.</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 205</td>
<td>Discrete Mathematics I</td>
<td>3</td>
<td>CIS 101, MATH 110 or MATH 106</td>
<td>W,S</td>
<td></td>
<td></td>
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<tr>
<td>CIS 305</td>
<td>Systems Engineering I</td>
<td>3</td>
<td>CIS 205, Co/Prereq: IS 350</td>
<td>F,W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 401</td>
<td>Web Application Programming</td>
<td>3</td>
<td>CIS 101, IT 240, IS 350 or instructor permission</td>
<td>MO F,W,S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 405</td>
<td>Systems Engineering II</td>
<td>3</td>
<td>CIS 305</td>
<td>MO F,W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 470</td>
<td>Ethics in Computer &amp; Information Sciences</td>
<td>2</td>
<td>CIS 405 or Senior Standing</td>
<td>MO F,W,S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IS 350</td>
<td>Database Management Systems</td>
<td>3</td>
<td>CIS 101</td>
<td>MO F,W,S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IS 400</td>
<td>Information Systems Proficiency</td>
<td>0</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>IS 430/L</td>
<td>ITS- Enterprise Resource Planning/Lab</td>
<td>3</td>
<td>Jr. or Sr. standing in CIS, BUSM or ACCT</td>
<td>MO F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IS 485</td>
<td>Project Management &amp; Practice</td>
<td>3</td>
<td>CIS 401, CIS 405, IS 400</td>
<td>MO F,W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 221</td>
<td>Principles of Statistics I (MATH 321 or PSYCH 205 may substitute for MATH 221)</td>
<td>3</td>
<td></td>
<td>F,W,S</td>
<td></td>
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</tbody>
</table>

### Advanced Content Area Electives

**9-11 Credits**

**GROUP 1:** Any additional 400-level courses in CS, IS or IT or by permission. (6 Hours)

**GROUP 2:** Choose one. (3-5 hours). Note: Many Master’s Programs require incoming students to have completed calculus.

- **MATH 112** Calculus I (GenEd) 5 MATH 111 or equivalent F,W
- **MATH 119** Applied Calculus (GenEd) 4 MATH 110 experience F,W
- **CIS 206** Discrete Math II 3 CIS 205, CIS 202 F,S

### Fundamental Skills “Minor” in an Environment where IS can be applied

**15 Credits**

IS professionals must understand their chosen employment environment and prepare to function effectively in it. Each student must complete at least 15 credits in a cohesive body of course work for such an environment.

- **ACCT 201** Introduction to Financial Accounting 3 F,W,S
- **ACCT 203** Introduction to Managerial Accounting 3 MATH 106/110 or higher (not MATH 221) or pass BMQT** or ACT math 22+ or SAT math 500+ AND ACCT 201 w/C- or better AND ACCT 210 F,W,S
- **ECON 200** Principles of Microeconomics (GenEd) 3 MATH 110 or Pass BMQT** F,W,S
- **ECON 201** Principles of Macroeconomics 3 ECON 200 F,W,S
- **BUSM 242** Ethics and the Legal Environment of Business 3 BUSM 180, ENGL 201 F,W,S

### Total Credits Mapped for Graduation:

1. One D+, D, D- is allowed above. All other credits must be C- or better.
2. One retake is allowed per class, for up to three classes. Additional retakes require special permission.
3. A department-approved assessment test must be taken during your last full semester at BYUH, and is recommended annually.

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The terms of this MRS will be honored by the Department and University within the next 8 years. If courses cease to be offered, options for substitution will be provided.