Plan of Study
BS Computer Information Systems
Application Development Specialization
Catalog Year: 2022 – 2023

Sample Schedule: students are not limited to this plan; it is meant to serve as a guide for planning purposes in discussions with your academic advisor. This plan is one possible path to completing this degree in **four years.**

### FIRST YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites / Comments</th>
<th>Credits</th>
<th>On Campus</th>
<th>Online</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 105 Introduction to Computers</td>
<td></td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>CSC 150 Computer Science I</td>
<td></td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>CIS 325 Management Information Systems</td>
<td></td>
<td>3</td>
<td>F</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>SGE Written Communication</td>
<td>1 of 1, ENGL 101 required</td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>SGE Math</td>
<td>1 of 1, MATH 114 required, can take higher math based on placement</td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>GS 100 University Experience</td>
<td>Not required online</td>
<td>0</td>
<td>F</td>
<td>-</td>
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**Total Credit Hours 15**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>CIS 206 Advanced Applications: Word</td>
<td></td>
<td>1</td>
<td>S</td>
<td>F/S/SU</td>
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<tr>
<td>CIS 207 Advanced Applications: Spreadsheets</td>
<td>CSC 105, Choose 3 credits</td>
<td>1</td>
<td>S</td>
<td>F/S/SU</td>
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<tr>
<td>CIS 208 Advanced Applications: Database</td>
<td></td>
<td>1</td>
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<tr>
<td>CIS 210 QuickBooks</td>
<td></td>
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<td>F/S/SU</td>
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<tr>
<td>CSC 163 Hardware, Virtualization &amp; Data Com.</td>
<td></td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>CIS 251 Business Applications Programming</td>
<td>CSC 150</td>
<td>3</td>
<td>S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>SGE Oral Communication</td>
<td>1 of 1, SPCM 101 required</td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>SGE Natural Sciences</td>
<td>1 of 2</td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
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### SECOND YEAR

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<tr>
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<th>Online</th>
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</thead>
<tbody>
<tr>
<td>ACCT 210 Principles of Accounting I</td>
<td></td>
<td>3</td>
<td>F</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>BADM 220 Business Statistics</td>
<td>Math 104 or higher</td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>CIS 275 Web Application Programming I</td>
<td>CSC 150, CIS 123, CIS 130</td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>CSC 145 Cyber Security Fundamentals</td>
<td></td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
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<tr>
<td>SGE Social Sciences</td>
<td>1 of 2 (in 2 disciplines)</td>
<td>3</td>
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<tr>
<td>CIS 332 Structured Systems Analysis &amp; Design</td>
<td>CIS 130, CIS 123, CIS 150</td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>CIS 375 Web Application Programming II</td>
<td>CIS 275 or MCOM 351</td>
<td>3</td>
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<td>F/S/SU</td>
</tr>
<tr>
<td>CSC 285 Networking I</td>
<td></td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>SGE Written Communication</td>
<td>ENGL 201 required</td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>SGE Arts and Humanities</td>
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</tr>
<tr>
<td>CSC 285 Networking I</td>
<td></td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
</tr>
<tr>
<td>SGE Written Communication</td>
<td>ENGL 201 required</td>
<td>3</td>
<td>F/S</td>
<td>F/S/SU</td>
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<tr>
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**Total Credit Hours 15**
## Third Year

### Fifth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites / Comments</th>
<th>Credits</th>
<th>Semester(s) Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 260 Object Oriented Design</td>
<td>CIS 251 or CSC 250</td>
<td>3</td>
<td>F/S</td>
</tr>
<tr>
<td>CIS 484 Database Management Systems</td>
<td></td>
<td>3</td>
<td>F/S</td>
</tr>
<tr>
<td>ECON 201 Principles of Microeconomics</td>
<td></td>
<td>3</td>
<td>F/S</td>
</tr>
<tr>
<td>CIS Major Elective</td>
<td>1 of 3, Suggested: CIS 330 (prereq: CSC 150)</td>
<td>3</td>
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<tr>
<td>CIS Major Elective</td>
<td>2 of 3, Suggested: CIS 372 (prereq: CSC 150)</td>
<td>3</td>
<td>F</td>
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</table>

**Total Credit Hours**: 15

### Sixth Semester

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<th>Prerequisites / Comments</th>
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<tbody>
<tr>
<td>BADM 370 Marketing</td>
<td>ECON 201</td>
<td>3</td>
<td>F/S</td>
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<tr>
<td>CIS 338 Project Management</td>
<td></td>
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</tr>
<tr>
<td>CIS 487 Database Programming</td>
<td>CIS 484</td>
<td>3</td>
<td>S</td>
</tr>
<tr>
<td>SGE Arts and Humanities</td>
<td>2 of 2 (in 2 disciplines)</td>
<td>3</td>
<td>F/S</td>
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<tr>
<td>Open Elective</td>
<td>1 of 2</td>
<td>3</td>
<td>F/S</td>
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**Total Credit Hours**: 15

## Fourth Year

### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites / Comments</th>
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<th>Semester(s) Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>BADM 344 Managerial Communications</td>
<td>ENGL 101</td>
<td>3</td>
<td>F/S</td>
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<tr>
<td>BADM 360 Organization &amp; Management</td>
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<td>3</td>
<td>F/S</td>
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<tr>
<td>CSC 376 Web Development Environments</td>
<td>CIS 375 or CSC 334</td>
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<tr>
<td>CIS Major Elective</td>
<td>3 of 3, Suggested: CIS 438</td>
<td>3</td>
<td>F</td>
</tr>
<tr>
<td>Open Elective</td>
<td>2 of 2, Suggested: CIS 474</td>
<td>3</td>
<td>F</td>
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**Total Credit Hours**: 15

### Eighth Semester

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<thead>
<tr>
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<th>Semester(s) Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>BADM 350 Legal Environment of Business</td>
<td></td>
<td>3</td>
<td>F/S</td>
</tr>
<tr>
<td>CIS 424 Software Development w/ Agile</td>
<td>CIS 251 or CSC 250</td>
<td>3</td>
<td>S</td>
</tr>
<tr>
<td>CIS 427 Info Systems Planning &amp; Management</td>
<td>CIS 325 or CSC 332</td>
<td>3</td>
<td>S</td>
</tr>
<tr>
<td>SGE Natural Sciences</td>
<td>2 of 2</td>
<td>3</td>
<td>F/S</td>
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<tr>
<td>SGE Social Sciences</td>
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<td>F/S</td>
</tr>
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**Total Credit Hours**: 15

P = Course Prerequisite  
SGE = System-wide General Education requirement  
Semester: F = Fall; S = Spring; SU = Summer (all Summer courses are online)

**After the Fourth Semester you will have earned***:  
- AS in Web Development  
- Information Technology Management Certificate  
- Web Application Development Certificate

**After the Sixth Semester you will have earned***:  
- Technology Database Management Systems Certificate

**If you take the suggested CIS 438, after the Seventh Semester you will have earned***:  
- Project Management Certificate

**If you take the suggested CIS 372 and CIS 474, after the Seventh Semester you will have earned***:
Data Analytics Certificate

* Communicate with your advisor to add these programs and apply for graduation once all requirements are met.