### University Core and Graduation Requirements

#### University Core Requirements:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>#Classes</th>
<th>Hours</th>
<th>Classes</th>
</tr>
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<tbody>
<tr>
<td><strong>Religion Cornerstones</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Teachings and Doctrine of The Book of Mormon</td>
<td>1</td>
<td>2.0</td>
<td>REL A 275</td>
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<tr>
<td>Jesus Christ and the Everlasting Gospel</td>
<td>1</td>
<td>2.0</td>
<td>REL A 250</td>
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<tr>
<td>Foundations of the Restoration</td>
<td>1</td>
<td>2.0</td>
<td>REL C 225</td>
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<tr>
<td>The Eternal Family</td>
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<td>2.0</td>
<td>REL C 200</td>
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<tr>
<td><strong>The Individual and Society</strong></td>
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<td></td>
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</tr>
<tr>
<td>American Heritage</td>
<td>1-2</td>
<td>3-6.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Global and Cultural Awareness</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td><strong>Skills</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>First Year Writing</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Advanced Written and Oral Communications</td>
<td>1</td>
<td>3.0</td>
<td>WRTG 316</td>
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<tr>
<td>Quantitative Reasoning</td>
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<td>MATH 112* or 113*</td>
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<tr>
<td>Languages of Learning (Math or Language)</td>
<td>1</td>
<td>4.0</td>
<td>MATH 112* or 113*</td>
</tr>
<tr>
<td><strong>Arts, Letters, and Sciences</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Civilization 1</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Civilization 2</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Arts</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Letters</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Biological Science</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Physical Science</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Social Science</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
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<tr>
<td><strong>Core Enrichment: Electives</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Religion Electives</td>
<td>3-4</td>
<td>6.0</td>
<td>from approved list</td>
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<tr>
<td>Open Electives</td>
<td>Variable</td>
<td>Variable</td>
<td>personal choice</td>
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#### Graduation Requirements:

- Minimum residence hours required: 30.0
- Minimum hours needed to graduate: 120.0

### Suggested Sequence of Courses

#### FRESHMAN YEAR (1st Semester)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>C S 142</td>
<td>3.0</td>
</tr>
<tr>
<td>First-year Writing or American Heritage</td>
<td>3.0</td>
</tr>
<tr>
<td>MATH 112</td>
<td>4.0</td>
</tr>
<tr>
<td>Religion Cornerstone course</td>
<td>2.0</td>
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<tr>
<td>General education, university requirements, and/or general electives</td>
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</tr>
<tr>
<td><strong>Total Hours</strong></td>
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#### 2nd Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>C S 202</td>
<td>1.0</td>
</tr>
<tr>
<td>C S 235</td>
<td>3.0</td>
</tr>
<tr>
<td>PHSCS 121</td>
<td>3.0</td>
</tr>
<tr>
<td>First-year Writing or American Heritage</td>
<td>3.0</td>
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<tr>
<td>MATH 113</td>
<td>4.0</td>
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<tr>
<td>Religion Cornerstone course</td>
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<td><strong>Total Hours</strong></td>
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#### SOPHOMORE YEAR (3rd Semester)

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<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>C S 203</td>
<td>1.0</td>
</tr>
<tr>
<td>C S 224</td>
<td>3.0</td>
</tr>
<tr>
<td>C S 236</td>
<td>3.0</td>
</tr>
<tr>
<td>Biological Science</td>
<td>3.0</td>
</tr>
<tr>
<td>Civilization 1</td>
<td>3.0</td>
</tr>
<tr>
<td>Religion Cornerstone course</td>
<td>2.0</td>
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<tr>
<td><strong>Total Hours</strong></td>
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#### 4th Semester

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<tbody>
<tr>
<td>C S 240</td>
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</tr>
<tr>
<td>C S 260 or other C S elective</td>
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</tr>
<tr>
<td>MATH 213</td>
<td>2.0</td>
</tr>
<tr>
<td>MATH 215</td>
<td>1.0</td>
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<tr>
<td>Civilization 2</td>
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<tr>
<td>Religion Cornerstone course</td>
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<tr>
<td><strong>Total Hours</strong></td>
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#### JUNIOR YEAR (5th Semester)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>C S 204</td>
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<tr>
<td>C S 312</td>
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<tr>
<td>C S 324</td>
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<tr>
<td>Social Science</td>
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<tr>
<td>STAT 121, STAT 201, or MATH 431</td>
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<tr>
<td>Religion Elective</td>
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#### 6th Semester

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<tr>
<td>C S 329</td>
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<tr>
<td>C S 340</td>
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<tr>
<td>C S 452</td>
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<tr>
<td>Letters</td>
<td>3.0</td>
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<tr>
<td>Religion Elective</td>
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#### SENIOR YEAR (7th Semester)

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<tbody>
<tr>
<td>C S 480</td>
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<tr>
<td>C S Elective</td>
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<tr>
<td>WRTG 316</td>
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<tr>
<td>Arts</td>
<td>3.0</td>
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<tr>
<td>Religion Elective</td>
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<tr>
<td>General education, university requirements, and/or general electives</td>
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#### 8th Semester

<table>
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<tbody>
<tr>
<td>C S 481</td>
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<td>C S Elective</td>
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<tr>
<td>C S Elective</td>
<td>3.0</td>
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<tr>
<td>C S Elective</td>
<td>3.0</td>
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<tr>
<td>C S 404</td>
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<tr>
<td>Global and Cultural Awareness</td>
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<td><strong>Total Hours</strong></td>
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<tr>
<td>REQUIREMENT 1</td>
<td>Complete 16 courses</td>
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<tr>
<td><strong>CORE COURSES:</strong></td>
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<tr>
<td>C S 142 - Introduction to Computer Programming</td>
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<tr>
<td>C S 202 - Software Engineering Lab 1</td>
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<tr>
<td>C S 203 - Software Engineering Lab 2</td>
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</tr>
<tr>
<td>C S 204 - Software Engineering Lab 3</td>
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<tr>
<td>C S 224 - Introduction to Computer Systems</td>
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<tr>
<td>C S 235 - Data Structures and Algorithms</td>
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<tr>
<td>C S 236 - Discrete Structures</td>
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<tr>
<td>C S 240 - Advanced Programming Concepts</td>
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<tr>
<td>C S 312 - Algorithm Design and Analysis</td>
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<tr>
<td>C S 324 - Systems Programming</td>
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</tr>
<tr>
<td>C S 329 - Testing, Analysis, and Verification</td>
<td>3.0</td>
</tr>
<tr>
<td>C S 340 - Software Design</td>
<td>3.0</td>
</tr>
<tr>
<td>C S 404 - Ethics and Computers in Society</td>
<td>2.0</td>
</tr>
<tr>
<td>C S 452 - Database Modeling Concepts</td>
<td>3.0</td>
</tr>
<tr>
<td>C S 480 - Software Engineering Capstone 1</td>
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<tr>
<td>C S 481 - Software Engineering Capstone 2</td>
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<table>
<thead>
<tr>
<th>REQUIREMENT 2</th>
<th>Complete 4 courses</th>
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<tr>
<td><strong>SUPPORTING COURSES:</strong></td>
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<tr>
<td>MATH 112 - Calculus 1</td>
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<tr>
<td>MATH 113 - Calculus 2</td>
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<tr>
<td>PHYSCS 121 - Introduction to Newtonian Mechanics</td>
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<tr>
<td>&quot;WRTG 316 - Technical Communication</td>
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<thead>
<tr>
<th>REQUIREMENT 3</th>
<th>Complete 1 option</th>
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<tbody>
<tr>
<td><strong>OPTION 3.1 Complete 1 course</strong></td>
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<tr>
<td>MATH 113 - (Not currently offered)</td>
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<tr>
<td><strong>OPTION 3.2 Complete 2 courses</strong></td>
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<tr>
<td>MATH 213 - Elementary Linear Algebra</td>
<td>2.0</td>
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<tr>
<td>MATH 215 - Computational Linear Algebra</td>
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<table>
<thead>
<tr>
<th>REQUIREMENT 4</th>
<th>Complete 1 course</th>
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</thead>
<tbody>
<tr>
<td>STAT 121 - Principles of Statistics</td>
<td>3.0</td>
</tr>
<tr>
<td>STAT 201 - Statistics for Engineers and Scientists</td>
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<table>
<thead>
<tr>
<th>REQUIREMENT 5</th>
<th>Complete 2 courses</th>
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<tbody>
<tr>
<td>C S 260 - Web Programming</td>
<td>3.0</td>
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<tr>
<td>C S 330 - Concepts of Programming Languages</td>
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<tr>
<td>C S 345 - Operating Systems Design</td>
<td>3.0</td>
</tr>
<tr>
<td>C S 356 - Designing the User Experience</td>
<td>3.0</td>
</tr>
<tr>
<td>C S 453 - Fundamentals of Information Retrieval</td>
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<table>
<thead>
<tr>
<th>REQUIREMENT 6</th>
<th>Complete 2 courses</th>
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<tbody>
<tr>
<td>C S 252 - Introduction to Computational Theory</td>
<td>3.0</td>
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<tr>
<td>C S 260 - Web Programming</td>
<td>3.0</td>
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<tr>
<td>C S 330 - Concepts of Programming Languages</td>
<td>3.0</td>
</tr>
<tr>
<td>C S 345 - Operating Systems Design</td>
<td>3.0</td>
</tr>
<tr>
<td>C S 355 - Interactive Graphics and Image Processing</td>
<td>3.0</td>
</tr>
<tr>
<td>C S 356 - Designing the User Experience</td>
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</tr>
<tr>
<td>C S 393 - Advanced Algorithms and Problem Solving</td>
<td>3.0</td>
</tr>
<tr>
<td>C S 401R - Topics in Computer Science</td>
<td>3.0</td>
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**REQUIREMENT 7** | Complete Senior Exit interview with the C S department during last semester or term. | |
| **Note:** Math 112, Math 113, Physcs 121, WRTG 316, and C S 312 can be used to fill both General Education and program requirements. **Advanced Writing and Oral Communication:** WRTG 316. Quantitative Reasoning: Math 112 or 113. Languages of Learning: Math 112 or 113. Physical Science: C S 312 or Physcs 121. | | |