University Core and Graduation Requirements

### University Core Requirements:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>#Classes</th>
<th>Hours</th>
<th>Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religion Cornerstones</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teachings and Doctrine of The Book of Mormon</td>
<td>1</td>
<td>2.0</td>
<td>REL A 275</td>
</tr>
<tr>
<td>Jesus Christ and the Everlasting Gospel</td>
<td>1</td>
<td>2.0</td>
<td>REL A 250</td>
</tr>
<tr>
<td>Foundations of the Restoration</td>
<td>1</td>
<td>2.0</td>
<td>REL C 225</td>
</tr>
<tr>
<td>The Eternal Family</td>
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<td>2.0</td>
<td>REL C 200</td>
</tr>
<tr>
<td>The Individual and Society</td>
<td></td>
<td></td>
<td></td>
</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>Skills</td>
<td></td>
<td></td>
<td></td>
</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>from approved list</td>
</tr>
<tr>
<td>Quantitative Reasoning</td>
<td>1</td>
<td>4.0</td>
<td>MATH 112* or 113*</td>
</tr>
<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>Arts, Letters, and Sciences</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>
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<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Arts</td>
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<td>3.0</td>
<td>from approved list</td>
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<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>3-4.0</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>Core Enrichment: Electives</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>
</tr>
<tr>
<td>Open Electives</td>
<td>Variable</td>
<td>Variable</td>
<td>personal choice</td>
</tr>
</tbody>
</table>

**Note:** These classes fill both university core and program requirements (4 hours overlap)

### Graduation Requirements:

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

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### Suggested Sequence of Courses

#### FRESHMAN YEAR

**1st Semester**
- First-year Writing: 3.0
- MATH 112: 4.0
- MATH 290: 3.0
- Biological Science: 3.0
- Religion Cornerstone course: 2.0
- **Total Hours:** 15.0

**2nd Semester**
- American Heritage: 3.0
- C S 142: 3.0
- MATH 113: 4.0
- MATH 313: 3.0
- Religion Cornerstone course: 2.0
- **Total Hours:** 15.0

#### SOPHOMORE YEAR

**3rd Semester**
- MATH 314: 3.0
- MATH 341: 3.0
- Social Science: 3.0
- Religion Cornerstone course: 2.0
- A.C.M.E. Concentration requirement: 3.0
- **Total Hours:** 14.0

**4th Semester**
- MATH 334: 3.0
- A.C.M.E. Concentration requirement: 3.0
- Civilization 1: 3.0
- PHY S 100: 3.0
- Religion Cornerstone course: 2.0
- **Total Hours:** 14.0

#### JUNIOR YEAR

**5th Semester**
- MATH 320: 3.0
- MATH 321: 1.0
- MATH 344: 3.0
- MATH 345: 1.0
- Advanced Written & Oral Communication: 3.0
- A.C.M.E. Concentration requirement: 3.0
- Religion elective: 2.0
- **Total Hours:** 16.0

**6th Semester**
- MATH 347: 1.0
- Civilization 2: 3.0
- Religion Elective: 2.0
- A.C.M.E. Concentration requirement: 3.0
- **Total Hours:** 16.0

**7th Semester**
- An internship or mentored research project is strongly recommended.

#### SENIOR YEAR

**8th Semester**
- MATH 402: 3.0
- MATH 403: 1.0
- MATH 436: 3.0
- MATH 437: 1.0
- Letters: 3.0
- A.C.M.E. Concentration requirement: 3.0
- **Total Hours:** 14.0

**9th Semester**
- MATH 404: 3.0
- MATH 405: 1.0
- MATH 438: 3.0
- MATH 439: 1.0
- Religion Elective: 2.0
- Global & Cultural Awareness: 3.0
- Arts: 3.0
- **Total Hours:** 16.0

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Note: Students are encouraged to complete an average of 15 credit hours each semester or 30 credit hours each year, which could include spring and/or summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.
THE DISCIPLINE:
Mathematics is a means of dealing with order, pattern, and number as seen in the world around us. The abilities to compute, to think logically, and to take a reasoned approach to solving problems are highly valued in society and are characteristics of any educated person. Mathematics is not just a body of knowledge, but a process of analysis, reasoning, comparison, deduction, generalization, and problem solving. A mathematician’s stock in trade is the ability to solve problems and to explain the solutions to others. Having once determined what the right questions are, solving problems involves analyzing both concrete and abstract situations, relating them to mathematical ideas and using mathematical techniques to work toward solutions. Explaining the solution involves pointing out what has been solved and why the solution is valid. The Applied and Computational Mathematics Emphasis is designed to give students a solid education in mathematics and, in addition, to prepare them to apply mathematical theory to problems that arise in other contexts. They will gain experience in problem formulation, data analysis, computation, and interpreting their results in the context in which the problems arose. The concentration requirement provides them with contextual knowledge which will enable them to identify interesting problems and to implement their results.

CAREER OPPORTUNITIES:
 Majors in mathematics (BS) prepare for a wide variety of careers. Some enter graduate school or professional schools and prepare for careers in such fields as college teaching, consulting, research and development, law, medicine, and business administration. Others take positions in government agencies, industrial laboratories, information management firms, or business organizations. All of them spend much time communicating with colleagues about the problems they are solving as they continue to learn more mathematics and share mathematical ideas with others.