### 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>
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<tr>
<td>Jesus Christ and the Everlasting Gospel</td>
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<td>2.0</td>
<td>REL A 250</td>
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<tr>
<td>Foundations of the Restoration</td>
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<td>2.0</td>
<td>REL C 225</td>
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<tr>
<td>The Eternal Family</td>
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<td>REL C 200</td>
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<tr>
<td>The Individual and Society</td>
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<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>
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<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Skills</td>
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<tr>
<td>First Year Writing</td>
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</tr>
<tr>
<td>Advanced Written and Oral Commun</td>
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</tr>
<tr>
<td>Quantitative Reasoning</td>
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<td>4.0</td>
<td>MATH 112*</td>
</tr>
<tr>
<td>Languages of Learning (Math or Language)</td>
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<td>MATH 112*</td>
</tr>
<tr>
<td>Arts, Letters, and Sciences</td>
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<tr>
<td>Civilization 1</td>
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<td>3.0</td>
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</tr>
<tr>
<td>Civilization 2</td>
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<tr>
<td>Arts</td>
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<tr>
<td>Letters</td>
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<tr>
<td>Biological Science</td>
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<tr>
<td>Physical Science</td>
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<td>3–7.0</td>
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<tr>
<td>Social Science</td>
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<td>Core Enrichment: Electives</td>
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<td>Religion Electives</td>
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<tr>
<td>Open Electives</td>
<td>Variable</td>
<td>Variable</td>
<td>personal choice</td>
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</tbody>
</table>

*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

### Suggested Sequence of Courses

#### FRESHMAN YEAR

**1st Semester**
- First Year Writing: 3.0
- MATH 112 (FWSpSu): 4.0
- STAT 121
- Arts
- Religion Cornerstone course
- Total Hours: 15.0

**2nd Semester**
- American Heritage: 3.0
- MATH 113 (FWSpSu): 4.0
- STAT 230
- Religion Cornerstone course
- Total Hours: 15.0

#### SOPHOMORE YEAR

**3rd Semester**
- MATH 313 (FWSpSu): 3.0
- STAT 240
- Global and Cultural Awareness
- Biological Science
- Religion Cornerstone course
- General electives
- Total Hours: 16.0

**4th Semester**
- MATH 314 (FWSpSu): 3.0
- STAT 123 or STAT 124: 1.5
- STAT 223 or STAT 224: 1.5
- STAT 330
- Letters
- Religion Cornerstone course
- General Elective
- Total Hours: 15.0

#### JUNIOR YEAR

**5th Semester**
- STAT 123 or STAT 124: 1.5
- STAT 223 or STAT 224: 1.5
- STAT 340
- Adv. Written and Oral Communication
- Civilization 1
- Religion elective
- Total Hours: 15.0

**6th Semester**
- Statistics elective 1: 3.0
- Social Science: 3.0
- Civilization 2: 3.0
- Religion elective
- General electives
- Total Hours: 15.0

#### SENIOR YEAR

**7th Semester**
- Statistics elective 2: 3.0
- Statistics elective 3: 3.0
- Religion elective
- General electives
- Total Hours: 15.0

**8th Semester**
- Statistics elective 4: 3.0
- General elective
- Total Hours: 15.0

### Notes:

1. The sequence of courses suggested may not fit the circumstances of every student. Students should contact their college advisement center for help in outlining an efficient schedule.

2. 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.

3. Students must have the statistics core completed before their senior year in order to graduate within four years.
No more than 3 hours of credit below C- is allowed in major courses.

### REQUIREMENT 1 Complete 1 course
- STAT 121 - Principles of Statistics 3.0

### REQUIREMENT 2 Complete 2 courses
**PREPARATION CORE COURSES:**
- MATH 112 - Calculus 1 4.0
- MATH 113 - Calculus 2 4.0

### REQUIREMENT 3 Complete 8 courses
**STATISTICS CORE COURSES:**
- STAT 123 - Introduction to R Programming 1.5
- STAT 124 - SAS Base Programming Skills 1.5
- STAT 223 - Applied R Programming 1.5
- STAT 224 - Applied SAS Programming 1.5
- STAT 230 - Analysis of Variance 3.0
- STAT 240 - Probability and Inference 1 3.0
- STAT 330 - Introduction to Regression 3.0
- STAT 340 - Probability and Inference 2 3.0

### REQUIREMENT 4 Complete 2 courses
- MATH 313 - Elementary Linear Algebra 3.0
- MATH 314 - Calculus of Several Variables 3.0

### REQUIREMENT 5 Complete 6.0 hours from the following course(s)
- STAT 125 - Introduction to Operating Systems, UNIX, and Shell Programr 1.5
- STAT 126 - Introduction to Operating Systems, UNIX, and Shell Programr 1.5
- STAT 226 - SQL 1.5
- STAT 234 - Methods of Survey Sampling 3.0
- STAT 251 - Introduction to Bayesian Statistics 3.0
- STAT 274 - Theory of Interest 3.0
- STAT 377 - Statistical Models for Financial Economics 3.0
- STAT 381 - Statistical Computing 3.0
- STAT 420 - Big Data Science 1 3.0
- STAT 421 - Big Data Science 2 3.0
- STAT 435 - Nonparametric Statistical Methods 3.0
- STAT 437 - Applications in Biostatistics 3.0
- STAT 451 - Applied Bayesian Statistics 3.0
- STAT 462 - Quality Control and Industrial Statistics 3.0
- STAT 466 - Introduction to Reliability 3.0
- STAT 469 - Applied Time Series and Forecasting 3.0
- STAT 475 - Life Contingencies 3.0
- STAT 477 - Statistical Distributions for Actuarial Modeling and Data Analy 3.0
- STAT 495R - Special Topics in Statistics 3.0

### REQUIREMENT 6 Complete 6.0 hours from the following course(s)
- STAT 496R - Academic Internship: Statistics 9.0v
- STAT 497R - Introduction to Statistical Research 3.0v
- STAT 531 - Experimental Design 3.0
- STAT 538 - Survival Analysis 3.0

NOTE: COURSES USED ABOVE WILL NOT DOUBLE COUNT HERE.

### STATISTICAL DETERMINATION:
- STAT 538
- STAT 531

### CAREER OPPORTUNITIES:
The increase of big data and analytics across disciplines is creating new challenges and opportunities for statisticians. The Statistical Science emphasis prepares students to enter competitive graduate programs in statistics. The technical tools that statisticians acquire are useful in many areas and for this reason a statistics degree is also excellent preparation for public administration. Recent alumni who did not go to graduate school are working at Adobe, Saks Fifth Avenue, Qualtrics, Milliman, Pariveda Solutions, and the Utah Governor’s Office of Planning and Budget.

### CERTIFICATION:
SAS/BYU Applied Statistics and Advanced SAS Programming Certificate. Students who earn a B or higher in the applied and computing core classes (Stat 124, 224, 230, 330, 381) are eligible to receive a certificate jointly issued by SAS and BYU which can be listed on a resume. More information is available at https://statistics.byu.edu/content/sas-certificate-opportunities.

INTERNSHIPS:

MAP DISCLAIMER
While every reasonable effort is made to ensure accuracy, there are some student populations that could have exceptions to listed requirements. Please refer to the university catalog and your college advisement center/department for complete guidelines.

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FACULTY ADVISOR:
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223C TMCB

ADVISEMENT CENTER INFORMATION
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