### University Core and Graduation Requirements

#### University Core Requirements:

- **Religion Cornerstones**
  - Teachings and Doctrine of The Book of Mormon
  - Jesus Christ and the Everlasting Gospel
  - Foundations of the Restoration
  - The Eternal Family

- **The Individual and Society**
  - American Heritage
  - Global and Cultural Awareness

- **Skills**
  - First Year Writing
  - Advanced Written and Oral Communications
  - Quantitative Reasoning
  - Languages of Learning (Math or Language)

- **Arts, Letters, and Sciences**
  - Civilization 1
  - Civilization 2
  - Arts
  - Letters
  - Biological Science
  - Physical Science
  - Social Science

- **Core Enrichment: Electives**
  - Religion Electives
  - Open Electives

#### 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 or American Heritage: 3.0
- IT 110: 3.0
- C S 142: 3.0
- MATH 112: 4.0
- Religion Cornerstone course: 2.0
  - Total Hours: 15.0

2nd Semester
- First-year Writing or American Heritage: 3.0
- ECON 110 or PSYCH 111: 3.0
- C S 235: 3.0
- IT 124: 3.0
- Religion Cornerstone course: 2.0
- Religion elective: 2.0
  - Total Hours: 16.0

**SOPHOMORE YEAR**

3rd Semester
- IT 210A: 2.0
- IT 210B: 2.0
- TECH 312: 1.0
- Religion Cornerstone course: 2.0
- Biology Requirement: 3.0
- PHSCS 121: 3.0
- Arts or Letters: 3.0
- Minor/Elective: 3.0
  - Total Hours: 16.0

4th Semester
- C S 236: 3.0
- STAT 201: 3.0
- IT 202: 3.0
- IT 355: 3.0
- Religion Cornerstone course: 2.0
- Religion elective: 2.0
  - Total Hours: 16.0

**JUNIOR YEAR**

5th Semester
- IT 327: 4.0
- IT 344: 3.0
- IT 347: 3.0
- IT 391R: 0.5
- ENGL 316 or M COM 320: 3.0
  - Total Hours: 15.5

6th Semester
- IT 350: 3.0
- IT 366: 3.0
- IT 491: 0.5
- Religion Elective: 2.0
- Minor/Elective: 3.0
- Minor/Elective: 3.0
  - Total Hours: 16.0

**SENIOR YEAR**

7th Semester
- IT 447: 2.0
- IT 391R: 0.5
- IT Technical Elective: 3.0
- Arts or Letters: 3.0
- Civilization I: 3.0
  - Total Hours: 14.5

8th Semester
- IT 446: 2.0
- IT 391R: 0.5
- IT Technical Elective: 3.0
- Civilization II: 3.0
- Arts or Letters: 3.0
  - Total Hours: 15.5

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*Hist 220 or Pl Sc 110 combined with the required Econ 110 course can fill the American Heritage requirement.

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.

Additional Notes:

- FOR UNIVERSITY CORE QUESTIONS CONTACT THE ADVISEMENT CENTER — FOR PROGRAM QUESTIONS SEE ADVISOR IN 250 SNLB
- *THESE CLASSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (14–21 hours overlap)
- *THese classes fill both university core and program requirements (14–21 hours overlap)
Students must have a minimum of 124 total hours to graduate with this major.

**REQUIREMENT 1** Complete 8 courses
- C S 142 - Introduction to Computer Programming 3.0
- C S 235 - Data Structures and Algorithms 3.0
- C S 236 - Discrete Structures 3.0
- ENGL 316 - Technical Communication 3.0
- MATH 112 - Calculus 1 4.0
- PHSCS 121 - Introduction to Newtonian Mechanics 3.0
- STAT 201 - Statistics for Engineers and Scientists 3.0
- TECH 312 - Exploration in Innovation Design Techniques 1.0

**REQUIREMENT 2** Complete 1 course
- ECON 110 - Economic Principles and Problems 3.0
- PSYCH 111 - Introduction to Psychological Science 3.0

**REQUIREMENT 3** Complete 13 courses
- IT 101 - Cornerstone: Information Technology 3.0
- IT 124 - Introduction to Computer Systems 3.0
- IT 210A - Fundamentals of Web-Based Information Technology 2.0
- IT 210B - Fundamentals of Web-Based Information Technology 2.0
- IT 252 - Computer Architecture and Organization 3.0
- IT 327 - Digital Communications 4.0
- IT 344 - Operating Systems 3.0
- IT 347 - Computer Networks 3.0
- IT 350 - Database Principles and Applications 3.0
- IT 355 - Human-Computer Interaction 3.0
- IT 366 - Information Assurance and Security 3.0
- IT 446 - Senior Project / Capstone 1 2.0
- IT 447 - Senior Projects/Capstone 2 3.0

**REQUIREMENT 4** Complete 1.5 hours from the following course(s)
- IT 391R - Junior/Senior Seminar 0.5
  You may take up to 2 credit hours.

**REQUIREMENT 5** Complete 1 course
- ENG T 231 - Foundations of Global Leadership 3.0

**REQUIREMENT 6** After consulting with an information technology advisor, complete 9 hours of upper-division information technology technical electives. Please add the approved technical elective courses to your ABC with a substitution/waiver form.

**REQUIREMENT 7** Complete 1 course
- IT 491 - Professional Seminar 0.5

**REQUIREMENT 8**

Complete department packet and exit interview.

**THE DISCIPLINE:**
Information technology (IT), the technical discipline that solves problems using computing resources, will be taught through a combination of strong theoretical course work and practical application to ensure that all three aspects of the technological educational triumvirate (knowing, thinking, doing) are included. IT professionals from this discipline are competent to design computing systems with due consideration of the performance and compatibility aspects of hardware, software, and digital communication and networking. They can visualize, structure, and implement complex technical solutions.

Professionals in this discipline are also proficient in understanding user needs and communicating technical issues to the organizations and people affected by the computer system. They are “anxiously engaged” in lifelong learning to understand and wisely use new technologies as they become available. Broadly educated at the university level, these professionals have acquired balance in their lives and depth of understanding in technology and its relevance in the broader world context.

Because of the influence and leadership roles we expect graduates to have, our students will be encouraged to develop high moral and ethical standards as well as being conversant with and compliant with professional performance standards.

**CAREER OPPORTUNITIES:**
Career opportunities are plentiful and rewarding in both large and small companies in technical fields. Graduates will find careers in computer networking, testing, embedded intelligence, digital communications, computer system development, and integration.

**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.

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**BS in Information Technology (396526)**

**2017-2018 Program Requirements (77 Credit Hours)**

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**DEPARTMENT INFORMATION**

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