BS in Information Systems (322629) MAP Sheet

For students entering the degree program during the 2018-2019 curricular year.

BYU Marriott School majors are limited-enrollment programs and the application process is competitive. For assistance in preparing for the application process, it is highly recommended that students visit the BYU Marriott Undergraduate Advisement Center.

### 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>
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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>
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<td>REL A 250</td>
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<td>Foundations of the Restoration</td>
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<td>American Heritage</td>
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<tr>
<td>Global and Cultural Awareness</td>
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<tr>
<td>Skills</td>
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<tr>
<td>First Year Writing</td>
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<td>Advanced Written and Oral Communications</td>
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<td>ACC 200*</td>
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<tr>
<td>Quantitative Reasoning</td>
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<tr>
<td>Languages of Learning (Math or Language)</td>
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<td>3.0</td>
<td>STAT 121*</td>
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<td>Arts, Letters, and Sciences</td>
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<tr>
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<td>Civilization 2</td>
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<td>Social Science</td>
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<td>ECON 110*</td>
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<td>Core Enrichment: Electives</td>
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<td>Open Electives</td>
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</table>

FOR UNIVERSITY CORE AND PROGRAM QUESTIONS CONTACT THE ADVISEMENT CENTER IN 460 TNRB
*THESE CLASSES FILL BOTH GENERAL EDUCATION AND PROGRAM REQUIREMENTS (12 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
- IS 110: 1.0
- Religion Cornerstone: 2.0
- General Education: 9.0
- Total Hours: 15.0

**2nd Semester**
- ACC 200: 3.0
- MKTG 201: 3.0
- IS 110: 1.0
- Religion Cornerstone: 2.0
- General Education: 6.0
- Total Hours: 15.0

#### SOPHOMORE YEAR

**3rd Semester**
- ECON 110: 3.0
- IS 201: 3.0
- FIN 201: 3.0
- Religion Cornerstone: 2.0
- General Education: 4.0
- Total Hours: 15.0

**4th Semester**
- STAT 121: 3.0
- IS 303: 3.0
- M COM 320: 3.0
- Religion Cornerstone: 2.0
- General Education: 4.0
- Total Hours: 15.0

#### JUNIOR YEAR

**5th Semester**
- IS 401: 3.0
- IS 402: 3.0
- IS 403: 3.0
- IS 405: 3.0
- Religion Elective: 2.0
- Total Hours: 14.0

**6th Semester**
- IS 404: 3.0
- IS 413: 3.0
- IS 414: 3.0
- IS 415: 3.0
- Religion Elective: 2.0
- Total Hours: 14.0

#### SENIOR YEAR

**7th Semester**
- IS 405: 3.0
- IS 411: 1.5
- GSCM 200: 1.5
- GSCM 300: 1.5
- MSB 390: 3.0
- HRM 391: 3.0
- Religion Elective: 2.0
- General Elective(s): 2.0
- Total Hours: 16.0

**8th Semester**
- ECON 455: 3.0
- IS 404: 3.0
- IS 413: 3.0
- IS 414: 3.0
- IS 415: 3.0
- Religion Elective: 2.0
- General Elective(s): 2.0
- Total Hours: 16.0

Most applicants apply to the Marriott School of Business the summer after their sophomore year. Each program starts at the beginning of a new academic year.
- Deadline to apply for Fall is the last working day of June by 4:30 pm.

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

This major requires a minimum of 120 hours for graduation. Students are encouraged to complete an average of 15–16 credit hours each semester or 30–31 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.
### BS in Information Systems (322629)
#### 2018-2019 Program Requirements (64 Credit Hours)

**REQUIREMENT 1** Complete 2 options

PREREQUISITE COURSES: THESE COURSES ARE USED IN DETERMINING ADMISSION TO THE UNDERGRADUATE INFORMATION SYSTEMS PROGRAM.

**OPTION 1.** Complete 4 courses
- ACC 200 - Principles of Accounting 3.0
- FIN 201 - Principles of Finance 3.0
- IS 201 - Introduction to Management Information Systems 3.0
- MKTG 201 - Marketing Management 3.0

**OPTION 2.** Complete 1 course
- C S 142 - Introduction to Computer Programming 3.0
- IS 303 - Introduction to Computer Programming 3.0

Apply and be formally accepted into the program.

**NOTE:** IT IS RECOMMENDED THAT ECON 110 AND M COM 320 BE TAKEN BEFORE ENTERING THE JUNIOR CORE. ECON 110, M COM 320 AND STAT 121 MUST BE COMPLETED BEFORE STARTING THE MISM PROGRAM, OR DURING THE FIRST SEMESTER IN THE MISM.

#### PREREQUISITE COURSES:

- *ECON 110 - Economic Principles and Problems 3.0
- IS 110 - Spreadsheet Skills and Business Analysis 1.0
- *M COM 320 - Communication in Organizational Settings 3.0
- *STAT 121 - Principles of Statistics 3.0

**REQUIREMENT 3** Complete 4 courses

INFORMATION SYSTEMS JUNIOR CORE 1 COURSES (TAUGHT FALL SEMESTER ONLY):
- IS 401 - System Analysis and Design 3.0
- IS 402 - Database Systems 3.0
- IS 403 - Principles of Business Programming 3.0
- IS 405 - Information Systems Project Management 3.0

**REQUIREMENT 4** Complete 4 courses

INFORMATION SYSTEMS JUNIOR CORE 2 COURSES (TAUGHT WINTER SEMESTER ONLY):
- IS 404 - Data Communications 3.0
- IS 413 - Enterprise Application Development 3.0
- IS 414 - Information Systems Security and Controls 3.0
- IS 415 - Predictive Data Analytics 3.0

**REQUIREMENT 5** Complete 1 course
- IS 455 - Information Systems Capstone with Predictive Analysis 3.0

**REQUIREMENT 6** Complete 5 courses

MANAGEMENT CORE COURSES:
- GSCM 200 - Introduction to Global Supply Chain Management 1.5
- GSCM 300 - Introduction to Operations Management 1.5
- HRM 391 - Organizational Effectiveness 3.0
- MSB 390 - Ethics for Management 3.0
- STRAT 391 - Strategy and Organization 3.0

**REQUIREMENT 7**
- Complete Marriott School exit survey online.

RECOMMENDED
- ACC 241 - Business Law in the Environment 3.0
- MATH 118 - Finite Mathematics 3.0

### THE DISCIPLINE

Courses are designed to create opportunities for students to develop and apply their analytical and decision-making abilities. For this reason, BYU Marriott programs make extensive use of faculty expertise, case studies, student projects, and internships.

Computer-based information systems have become a critical part of the products, services, operations, and management of all organizations. The effective and efficient use of information and communications technologies is an important element in achieving competitive advantage for business organizations as well as achieving excellence in service for government and nonprofit organizations. The twenty-first century has seen the rapid growth of the internet, ecommerce, and purely electronic enterprises.

These organizations would not even exist without the technology provided by computer-based information systems. The importance of information systems to organizations and the need for well-educated professionals in the field is the basis for strong educational programs and the development of a professional community of information systems practitioners.

Information systems involves two broad areas:
1. The acquisition, deployment, and management of an organization’s information systems resources and services; and
2. The development of computer-based systems and technology infrastructures for use in organization processes.

Information systems professionals provide services ranging from the managerial to the highly technical. Information systems and technology skills are critical to the success of virtually all modern organizations, including small business, corporations, government, and educational institutions.

### CAREER OPPORTUNITIES

Information systems graduates work in large and small organizations of all types, helping maintain existing technology infrastructure and specifying technology solutions to business needs. They serve as the bridge between an organization’s technical personnel and its business side. Well educated information systems graduates are in high demand in accounting firms, technical companies, government agencies, and smaller entrepreneurial concerns. Challenging career opportunities embrace a wide range of interests. The variety of employment prospects includes opportunities for those who are primarily interested in people and organizations to those who enjoy very technical activities such as database and network administration or software development.

### GENERAL INFORMATION

Students are encouraged to apply to the BYU Marriott School of Business at the end of their sophomore year, as soon as they have completed the prerequisite courses.

BYU Marriott School majors are limited-enrollment programs and the application process is competitive. For assistance in preparing for the application process, it is highly recommended that students visit the BYU Marriott Undergraduate Advisement Center.

### REQUIREMENTS FOR APPLICATION

All new students entering the Marriott School commence their study at the beginning of Fall semester. Admission into the BYU Marriott School is based on consideration of the following:

- Prerequisite GPA
- Essay
- Résumé
- Review of overall academic record
- Professionalism
Prerequisite courses must be completed before the application deadline. Any application with a prerequisite GPA below a 3.0 will not be considered. When prerequisite GPA is calculated, repeated or transferred courses will be discounted. See the BYU Marriott Undergraduate Advisement Center for more information.

TRANSFER INFORMATION

Transfer equivalencies for the following courses will not be considered: ACC 310, FIN 201, IS 201, and M COM 320.

BS INFORMATION SYSTEMS, CONCURRENT WITH MISM

The Master of Information Systems Management program has a five-year integrated option for BYU students in the undergraduate information systems program, as well as an option for students who have already completed a bachelor’s degree. The first year of the undergraduate program must be completed with a minimum 3.0 GPA to be eligible to apply for admission into the MISM program.

Meeting the minimum requirements does not guarantee admission.

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.

ADVISEMENT CENTER INFORMATION

Marriott School of Business Undergraduate Advisement Center
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Provo, UT 84602
801-422-4285
msb_advisement@byu.edu