About the MSIS Program

The David Eccles School of Business Master of Science in Information Systems (MSIS) program is designed to provide advanced IT training for individuals seeking the skills necessary to manage the technology of business. Companies in the private and public sectors need information systems (IS) executives, analysts and specialists with business and technology knowledge to align information technology with business strategies. Our information systems curriculum is designed to offer courses that integrate technology into business, preparing students to enter Utah’s growing market for technology professionals. With companies such as eBay, Adobe, Goldman Sachs and EMC located near Salt Lake City, University of Utah MSIS graduates have access to job opportunities at some of the most prestigious technology corporations.

Curriculum: 18 Core Credits / 12 Elective Credits

Core Curriculum / 18 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 6420</td>
<td>Database Theory and Design</td>
<td>3</td>
</tr>
<tr>
<td>IS 6410</td>
<td>Information Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>IS 6640</td>
<td>Networking and Servers</td>
<td>3</td>
</tr>
<tr>
<td>OIS 6482</td>
<td>Introduction to Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>IS 6615</td>
<td>Data Structures and Java</td>
<td>3</td>
</tr>
<tr>
<td>IS 6596</td>
<td>Capstone Project – Analysis and Planning</td>
<td>1.5</td>
</tr>
<tr>
<td>IS 6597</td>
<td>Capstone Project – Execution and Presentation</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Recommended Electives / 12 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 6850</td>
<td>Mobile Applications</td>
<td>3</td>
</tr>
<tr>
<td>IS 6741</td>
<td>Emerging Web Technologies and Strategies</td>
<td>3</td>
</tr>
<tr>
<td>IS 6465</td>
<td>Web Based Applications</td>
<td>3</td>
</tr>
<tr>
<td>OIS 6500</td>
<td>VBA for Excel</td>
<td>1.5</td>
</tr>
<tr>
<td>IS 6480</td>
<td>Data Warehousing</td>
<td>3</td>
</tr>
<tr>
<td>IS 6484</td>
<td>Advanced Data Management</td>
<td>3</td>
</tr>
<tr>
<td>IS 6580</td>
<td>Web Analytics</td>
<td>3</td>
</tr>
<tr>
<td>OIS 6540</td>
<td>Data Analysis and Decision Making</td>
<td>1.5</td>
</tr>
<tr>
<td>OIS 6660</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>OIS 6450</td>
<td>Business Process Simulation</td>
<td>3</td>
</tr>
<tr>
<td>OIS 6425</td>
<td>Six Sigma for Managers</td>
<td>3</td>
</tr>
<tr>
<td>OIS 6610</td>
<td>Practical Management Science</td>
<td>3</td>
</tr>
<tr>
<td>OIS 6620</td>
<td>Supply Chain Management</td>
<td>1.5</td>
</tr>
<tr>
<td>IS 6481</td>
<td>Business Intelligence and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>IS 6483</td>
<td>Advanced Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>IS 6485</td>
<td>Digital Analytics</td>
<td>3</td>
</tr>
<tr>
<td>IS 6571</td>
<td>IT Forensics</td>
<td>3</td>
</tr>
<tr>
<td>IS 6570</td>
<td>IT Security</td>
<td>3</td>
</tr>
<tr>
<td>ACCTG 6520</td>
<td>IT Risks and Controls</td>
<td>3</td>
</tr>
</tbody>
</table>

The elective offerings vary from semester to semester. We recommend meeting with an advisor upon admission into the program to determine which electives are available.

PROGRAM FORMAT

The MSIS program at the University of Utah is offered in a full-time and part-time format. Students can take as many or as few classes as needed to fit the program into their lifestyle and schedule.

Degree Requirements – 30 credit hours

Flexible Class Schedule – The MSIS program can be taken in a full-time or part-time format. Full-time students complete their degree in an average of 3 semesters, and part-time students complete their degree in an average of 5 to 6 semesters.

Master of Science Requirement – MSIS students complete a capstone project for graduation. This project satisfies the Master of Science degree requirement. A Master’s thesis is not required.

Class Availability – IS courses are offered primarily in the evenings. A limited number of daytime electives are available. Once admitted, we recommend making an appointment with our MSIS academic advisor to map out a course of study that will match your needs with class schedules.

Enrollment Options – Fall, Spring and Summer semesters
**MSIS Employment Statistics**

- **95%** Percentage of May 2013 graduates employed at graduation
- High starting salary: **$96,000**
- Average starting salary: **$72,730**
- Average percent increase in salary pre-program compared to post-program: **28%**

Data reflects students responding to 2013 survey.

**2012 Class Profile**

<table>
<thead>
<tr>
<th>Class Size</th>
<th>95</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average GRE</td>
<td>306</td>
</tr>
<tr>
<td>Quantitative Average</td>
<td>156</td>
</tr>
<tr>
<td>Verbal Average</td>
<td>151</td>
</tr>
<tr>
<td>Average Undergraduate GPA</td>
<td>3.4</td>
</tr>
<tr>
<td>Average Age</td>
<td>31</td>
</tr>
<tr>
<td>Average Years of Professional Work Experience</td>
<td>4</td>
</tr>
</tbody>
</table>

**MSIS AREAS OF SPECIALIZATION**

For 2014, the MSIS program will offer four areas of specialization: Business Intelligence and Analytics, Software and Systems Architecture, Product and Process Management, and IT Security. The new specializations strategically group core and elective classes to help students integrate specific IS skills with business practices and prepare for advanced IS careers.

**BUSINESS INTELLIGENCE AND ANALYTICS (BIA)**
- IS 6420 Database Theory and Design (3)
- IS 6482 Introduction to Data Mining (3)
- IS 6596 Capstone Project - Analysis and Planning (1.5)
- IS 6597 Capstone Project - Execution and Presentation (1.5)
- IS 6481 Business Intelligence and Analytics (3)
- IS 6483 Advanced Data Mining (3)
- IS 6485 Digital Analytics (3)
- IS 6484 Advanced Data Management (3)
- IS 6480 Data Warehousing (3)
- OIS 6040 Data Analysis and Decision Making (1.5)
- OIS 6500 VBA for Excel (1.5)

**SOFTWARE AND SYSTEMS ARCHITECTURE (SSA)**
- IS 6615 Data Structures and Java (3)
- IS 6640 Networking and Servers (3)
- IS 6596 Capstone Project - Analysis and Planning (1.5)
- IS 6597 Capstone Project - Execution and Presentation (1.5)
- IS 6465 Web-Based Applications (3)
- IS 6850 Mobile Applications (3)
- IS 6570 IT Security (3)
- IS 6484 Advanced Data Management (3)
- IS 6471 Emerging Web Technologies and Strategies (3)
- OIS 6400 Data Analysis and Decision Making (1.5)
- OIS 6500 VBA for Excel (1.5)

**PRODUCT AND PROCESS MANAGEMENT (PPM)**
- IS 6410 Information Systems Analysis and Design (3)
- IS 6596 Capstone Project - Analysis and Planning (1.5)
- IS 6597 Capstone Project - Execution and Presentation (1.5)
- IS 6425 Six Sigma for Managers (3)
- OIS 6500 VBA for Excel (1.5)
- OIS 6471 Emerging Web Technologies and Strategies (3)
- OIS 6040 Data Analysis and Decision Making (1.5)

**IT SECURITY (ITS)**
- IS 6640 Networking and Servers (3)
- IS 6596 Capstone Project - Analysis and Planning (1.5)
- IS 6597 Capstone Project - Execution and Presentation (1.5)
- IS 6570 IT Security (3)
- IS 6571 IT Forensics (3)
- ACCTG 6520 IT Risks and Controls (3)
- OIS 6660 Project Management (3)
- IS 6848 Advanced Data Management (3)
- IS 6580 Health IT (1.5)
- IS 6471 Emerging Web Technologies and Strategies (3)
- IS 6040 Data Analysis and Decision Making (1.5)

**OPPORTUNITIES OUTSIDE THE CLASSROOM**

**MSIS CAPSTONE PROJECT**

MSIS students complete a capstone project over multiple semesters. In small teams, students design and implement an IT project that benefits a real-world organization. Past graduates have worked with companies including Adobe, the Digital Ranch, Qazztek, Guadalupe Schools, and Uinta Brewing Company. View a sampling of MSIS capstone projects at www.business.utah.edu/capstone.

**TEK INFORMATION SYSTEMS CLUB**

TEK club is open to all students with an interest in information systems. Club members have the opportunity to participate in a wide variety of IS-related activities throughout the year to help members increase their understanding of career options, develop skills and prepare for a successful job search. Specific examples include career workshops, company visits, and networking events.
NEW BUSINESS BUILDING
MSIS students will attend classes in the new $72 million Spencer Fox Eccles Business Building, completed in 2013. The new building encompasses 188,000 square feet with 70% of the space dedicated to student activities, including 17 state-of-the-art classrooms. Constructed in two phases, the building’s first phase of roughly 100,000 square feet opened its doors for spring semester 2012. The facility was designed to be as high performance as possible and has achieved Silver LEED designation.

UPDATED AREAS OF SPECIALIZATION
Students have four new options for MSIS emphases: Business Intelligence and Analytics, Software and Systems Architecture, Product and Process Management, and IT Security. The new specializations organize the curriculum to best prepare students for IS careers.

DATA STRUCTURES AND JAVA ADDED TO CORE
Employers have indicated that strong preference is given to applicants with basic programming and coding skills. This course is designed to give our students beginning programming skills that will better prepare them for a variety of careers in information systems.

NEW COHORT FORMAT
In 2014, students will move through the MSIS program as a lock-step group. This new cohort format will give students better access to study groups, networking opportunities and schedule optimization.

STEM Extension: The MSIS program is a STEM-designated degree program (computer and information sciences 11 11.0101). This STEM program allows graduates on an F-1 visa to obtain an extension of their existing post-completion OPT period for up to 17 months, for a maximum period of post-completion OPT of 29 months. Restrictions and exceptions apply. For complete eligibility requirements and more information please visit www.gpo.gov/fdsys/pkg/FR-2008-04-08/html/E8-7427.htm.

THE NSA’S UTAH DATA CENTER — BUMBLEHIVE
The National Security Agency’s largest data center in the U.S. is located just 26 miles south of Salt Lake City and is scheduled to open its doors in fall 2013. The 1.5 billion-dollar series of buildings will house super-powered computers designated to store colossal amounts of data. Just how colossal? That Utah Data Center will hold the largest capacity of information in the country, measuring its data storage in “zettabytes.”

What exactly is a zettabyte? One zettabyte is the equivalent of one thousand exabytes, one million petabytes, one billion terabytes, or one trillion gigabytes. The data center (code named Bumblehive) is predicted to house up to five zettabytes of information, or enough data to fill 375 billion 16-gigabyte iPhones.

Interested in cracking the code? Start now! It is estimated that using a trial-and-error brute force attack to crack the encryption key would take longer than the age of the universe.


FIND OUT MORE: TECH WEBSITES & RESOURCES
Check out these websites to discover where the exciting field of information systems and technology is headed:
- Tech Republic, www.techrepublic.com
- Silicon Slopes, siliconslopes.com/beta
- Utah Governor’s Office of Economic Development, business.utah.gov
- Utah Technology Council, www.utahtech.org
APPLICATION REQUIREMENTS

1. SCHOOL OF BUSINESS ONLINE APPLICATION
Find our online application at http://business.utah.edu/mastersapplication.
We recommend submitting this application at least 2 weeks prior to program deadlines.

2. GRE/GMAT TEST SCORE
An official GRE or GMAT test score is required for all graduate applications to the MSIS program.
On average, it takes 2 weeks for us to receive official GRE/GMAT scores. You are welcome to submit unofficial scores via e-mail, but applications will not be formally reviewed without official scores.

GRE/GMAT Minimums: There are no minimum GRE or GMAT scores required for application to our graduate programs. Applicants are encouraged to meet overall graduate program GRE/GMAT averages, but all application materials are evaluated to determine the strength of the application.

3. TRANSCRIPTS / GPA
(submitted within the online application)
Transcripts: The online application will require you to:
1. List all colleges and universities you have attended including the University of Utah, regardless of length of attendance.
2. Upload a copy of your unofficial transcripts from each institution, including the University of Utah. Upon admission, you will be asked to submit official transcripts to the University of Utah Graduate School for verification.
Official transcripts from the University of Utah will not be needed at this stage of the process.
GPA: A minimum cumulative 3.0 undergraduate GPA is required for admission. If you don’t have a 3.0 cumulative GPA, we will accept a 3.0 GPA from the last 60 credit hours taken.

4. TWO LETTERS OF RECOMMENDATION
(submitted within the online application)

5. ESSAYS
(submitted within the online application)

6. RESUME
(submitted within the online application)

7. ENGLISH LANGUAGE PROFICIENCY
International applicants must receive a minimum score of 600 on the TOEFL paper based exam or a minimum of 100 on the internet based exam. The minimum score for the IELTS is 7.0.

PROGRAM COM-REQUISITIES
IS 4410 / Introduction to Information Systems

GRE/GMAT SUBSTITUTIONS
Applicants with five or more years of senior level experience in IT or operations that includes managerial responsibility may request to have their work experience considered in lieu of a GRE/GMAT score. The MSIS Program Director will make all evaluations on whether candidates meet this status. Recommendations and essays are still required for applicants who receive this substitution.

The GMAT / GRE requirement may also be waived for applicants already holding a doctorate level degree (JD, MD, DDS). Applicants requesting this substitution should contact us at mastersinfo@business.utah.edu to verify eligibility.

MSIS FAST TRACK PROGRAM
Applicants that qualify for our Fast Track application process earn the right to waive the GRE/GMAT and 2 letters of recommendation.
The online application and essays are still required.
To be eligible for the Fast Track program, applicants must meet the following criteria:
- Take seven of eight upper division IS courses with a GPA of 3.5 or better.
- Courses that qualify are IS 4410, IS 4415, IS 4420, IS 4430, IS 4440, IS 4460, and IS 4470 or IS 4480.
- Upper division courses must be taken at the University of Utah
- Maintain a cumulative GPA of 3.5 or better in upper division Information Systems courses.
- Maintain a minimum overall undergraduate GPA of 3.4

PROGRAM SCHOLARSHIPS
Notification of how to apply for scholarships and graduate assistantships will be provided with admission into the program. No separate application process is necessary at the application stage. Other forms of financial aid are available for domestic graduate students. Please call the University Financial Aid Office at 801-581-6211 or visit http://www.sa.utah.edu/financial/.

TUITION & COSTS
Full-Time / Resident / 3 Semesters ................................................................. $24,000
Part-Time / Resident / 5 Semesters ................................................................. $26,000
Estimates reflect 30 total credit hours taken over the course of 3 or 5 semesters at the current tuition rates (spring or fall 2013). Please note that this is an estimate and tuition rates may increase without notice.

CONTACT US
MSIS Admissions Coordinator, mastersinfo@business.utah.edu, 801-581-7785
MSIS Student Ambassador, misambassador@business.utah.edu, 801-581-7785

SPECIAL PROGRAMS
MSIS FAST TRACK PROGRAM
MSIS applications will be reviewed on a rolling basis and will continue through December 7, 2013 based on space availability. An additional $30 fee will be charged for any application submitted after November 1, 2013.
Application Open: July 1, 2013 through December 7, 2013
Applications Reviewed: September 1, 2013 through December 7, 2013
Decision Notification for all Submissions: Approximately 4 weeks after application submission.

SCHOLARSHIPS:
All applicants applying for the MSIS program before November 11, 2013 will be considered for scholarships. Decision notifications will be sent on November 18, 2013.
International applicants
Last date to apply is August 16, 2013
Decision Notification: October 7, 2013

FALL 2014 APPLICATION DEADLINES
MSIS applications will be reviewed on a rolling basis and will continue through July 28, 2014 based on space availability. An additional $30 fee will be charged for any application submitted after April 1, 2014.
Application Open: July 1, 2013 through July 28, 2014
Applications Reviewed: February 1, 2014 through July 28, 2014
Decision Notification for all Submissions: Approximately 4 weeks after application submission.

SCHOLARSHIPS:
All applicants applying for the MSIS program before April 14, 2014 will be considered for scholarships. Decision notifications will be sent on April 23, 2014. Please see Program Scholarships (left).
International applicants
Last date to apply is March 1, 2014
Decision Notification: April 7, 2014

International applicants who currently live in Utah and do not require an I-20 may be eligible for an extended international deadline. Please contact mastersinfo@business.utah.edu for details.
MSIS graduates may qualify for a STEM extension following the program.