

## Information Systems - Business Intelligence Systems Emphasis, B.S.

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### Requirements

The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. The Business Intelligence Systems (BIS) emphasis prepares graduates to become business intelligence analysts who produce financial and marketing intelligence by querying data repositories, generating reports, and devising methods for identifying data patterns and trends. Organizations store an enormous amount of data. People who are able to perform data mining and can analyze the data to detect trends and form predictions are highly sought by national and regional organizations.

### Total Program Credits: 123

General Education Requirements:		36 Credits
	<a href="#">ENGL 1010</a> Introduction to Academic Writing CC	3
or	<a href="#">ENGL 1005</a> Literacies and Composition Across Contexts CC (5)	
	<a href="#">ENGL 2010</a> Intermediate Academic Writing CC	3
	<a href="#">MATH 1050</a> College Algebra QL (4)	4
or	<a href="#">MATH 1055</a> College Algebra with Preliminaries QL (5)	
American Institutions: Complete one of the following:		3
	<a href="#">HIST 2700</a> US History to 1877 AS (3)	
and	<a href="#">HIST 2710</a> US History since 1877 AS (3)	
	<a href="#">HIST 1700</a> American Civilization AS (3)	
	<a href="#">HIST 1740</a> US Economic History AS (3)	
	<a href="#">POLS 1000</a> American Heritage SS (3)	
	<a href="#">POLS 1100</a> American National Government AS (3)	
Complete the following:		
	<a href="#">PHIL 2050</a> Ethics and Values IH (3)	3
	<a href="#">HLTH 1100</a> Personal Health and Wellness TE (2)	2
or	<a href="#">EXSC 1097</a> Fitness for Life TE (2)	
Distribution Courses:		
	Biology Distribution	3
	Physical Science Distribution	3
	An Additional Biology or Physical Science Distribution Course	3
	Fine Arts Distribution	3
	Humanities Distribution	3
	Social/Behavioral Science Distribution <sup>1</sup>	3
Discipline Core Requirements:		63 Credits
Math Requirement:		
	<a href="#">MGMT 2340</a> Business Statistics I	3
IS Core Requirements:		
	<a href="#">INFO 1120</a> Information Systems and Technology Fundamentals	3

	<a href="#">INFO 1200</a> Computer Programming I for IS IT	3
or	<a href="#">CS 1400</a> Fundamentals of Programming (3)	
	<a href="#">INFO 2200</a> Computer Programming II for IS IT	3
	<a href="#">INFO 2410</a> Database Fundamentals	3
	<a href="#">INFO 2420</a> Web Application Design	3
	<a href="#">IM 2600</a> Spreadsheet Applications	3
	<a href="#">IT 1510</a> Introduction to System Administration--Linux/UNIX	3
	<a href="#">IT 2600</a> Data Communication Fundamentals	3
	<a href="#">IT 2700</a> Information Security Fundamentals	3
	<a href="#">INFO 3130</a> Introduction to Applied Data Analytics	3
	<a href="#">INFO 3300</a> Web Systems Development	3
	<a href="#">INFO 3410</a> Database Systems and Warehousing	3
	<a href="#">INFO 3430</a> Systems Analysis and Design WE	3
	<a href="#">INFO 405G</a> Global Ethical and Professional Perspectives in IS and IT GI WE	3
	<a href="#">INFO 4430</a> Systems Design and Implementation	3
IS Environment/Business Foundation Requirements:		
	<a href="#">ACC 2010</a> Financial Accounting	3
	<a href="#">ACC 2020</a> Managerial Accounting	3
	<a href="#">MKTG 220G</a> Written Business Communication GI WE	3
	<a href="#">MGMT 3000</a> Organizational Behavior WE	3
	<a href="#">MKTG 3600</a> Principles of Marketing	3
Emphasis Requirements:		12 Credits
	<a href="#">MGMT 3345</a> Business Statistics II	3
	<a href="#">INFO 4120</a> Data Visualization	3
	<a href="#">INFO 4130</a> Data Science and Big Data Analytics	3
	<a href="#">INFO 4135</a> Data Security Analytics	3
Emphasis Elective Requirements:		12 Credits
Choose 12 credit hours from the following:		12
	<a href="#">IM 3600</a> Advanced Excel for Decision Making (3)	
	<a href="#">INFO 3120</a> Management Information Systems (3)	
	<a href="#">INFO 3330</a> Client-Side Web Development (3)	
	<a href="#">INFO 3360</a> Server-Side Web Frameworks (3)	
	<a href="#">INFO 4300</a> Enterprise Web Development (3)	
	<a href="#">INFO 4410</a> Database Administration (3)	
	<a href="#">INFO 4415</a> Database Security and Auditing (3)	
	<a href="#">INFO 4420</a> Mobile Application Development (3)	
	<a href="#">INFO 4425</a> Web and Application Security (3)	
	<a href="#">MKTG 4300</a> Marketing Data Science (3)	
Other approved upper-division Information Systems courses		
<b>Notes:</b>		
1. ECON 2010 Principles of Economics I recommended.		

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## **Graduation Requirements:**

1. Completion of at least 123 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-."
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

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## Information Systems - Business Intelligence Systems Emphasis, B.S. Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Semester 1	Course Title	Credit Hours
ENGL 1010	Introduction to Academic Writing CC	3
MATH 1050 or MATH 1055	College Algebra QL or College Algebra with Preliminaries QL	4
INFO 1120	Information Systems and Technology Fundamentals	3
INFO 2410	Database Fundamentals	3
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE or Fitness for Life TE	2
	Semester Total:	15
Semester 2	Course Title	Credit Hours
ENGL 2010	Intermediate Academic Writing CC	3
INFO 1200	Computer Programming I for IS IT	3
INFO 2420	Web Application Design	3
ACC 2010	Financial Accounting	3
MKTG 220G	Written Business Communication GI WE	3
	Semester Total:	15
Semester 3	Course Title	Credit Hours
MGMT 2340	Business Statistics I	3
IM 2600	Spreadsheet Applications	3
INFO 2200	Computer Programming II for IS IT	3
ACC 2020	Managerial Accounting	3
IT 2600	Data Communication Fundamentals	3
	Semester Total:	15
Semester 4	Course Title	Credit Hours
IT 2700	Information Security Fundamentals	3
MGMT 3345	Business Statistics II	3
INFO 3410	Database Systems and Warehousing	3
INFO 3130	Introduction to Applied Data Analytics	3
INFO 3700	Health Informatics Fundamentals	3
	Semester Total:	15
Semester 5	Course Title	Credit Hours
INFO 3300	Web Systems Development	3
PHIL 2050	Ethics and Values IH	3
Elective		3
Elective		3
INFO 4120	Data Visualization	3
Biology Distribution		3

	Semester Total:	18
Semester 6	Course Title	Credit Hours
INFO 4130	Data Science and Big Data Analytics	3
INFO 4135	Data Security Analytics	3
MKTG 3600	Principles of Marketing	3
INFO 3430	Systems Analysis and Design WE	3
Elective		3
	Semester Total:	15
Semester 7	Course Title	Credit Hours
Elective		3
MGMT 3000	Organizational Behavior WE	3
INFO 4430	Systems Design and Implementation	3
INFO 405G	Global Ethical and Professional Perspectives in IS and IT GI WE	3
Fine Arts Distribution		3
	Semester Total:	15
Semester 8	Course Title	Credit Hours
American Institutions		3
Humanities Distribution		3
Social/Behavioral Science Distribution		3
Third Science Distribution		3
Physical Science Distribution		3
	Semester Total:	15
	Degree total:	123