

## 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	
	ENGL 1010	Introduction to Academic Writing	3
or	ENGL 1005	Literacies and Composition Across Contexts (5)	
	ENGL 2010	Intermediate Writing Academic Writing and Research	3
	MATH 1050	College Algebra (4)	4
or	MATH 1055	College Algebra with Preliminaries (5)	
American Institutions: Complete one of the following:		3	
	HIST 2700	US History to 1877 (3)	
and	HIST 2710	US History since 1877 (3)	
	HIST 1700	American Civilization (3)	
	HIST 1740	US Economic History (3)	
	POLS 1000	American Heritage (3)	
	POLS 1100	American National Government (3)	
Complete the following:			
	PHIL 2050	Ethics and Values (3)	3
	HLTH 1100	Personal Health and Wellness (2)	2
or	EXSC 1097	Fitness for Life (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:		3	
	MGMT 2340	Business Statistics I (3)	
IS Core Requirements:			
	INFO 1120	Information Systems and Technology Fundamentals	3

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

#### 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.

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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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### 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](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
<i>ENGL 1010</i>	Introduction to Academic Writing	3
<i>MATH 1050 or MATH 1055</i>	College Algebra or College Algebra with Preliminaries	4
INFO 1120	Information Systems and Technology Fundamentals	3
<i>INFO 2410</i>	Database Fundamentals	3
HLTH 1100 or EXSC 1097		2
	Semester Total:	15
Semester 2	Course Title	Credit Hours
<i>ENGL 2010</i>	Intermediate Writing Academic Writing and Research	3
<i>INFO 1200</i>	Computer Programming I for IS/IT	3
<i>INFO 2420</i>	Web Application Design	3
<i>ACC 2010</i>	Financial Accounting	3
INFO 1510	Intro to System Administration- Linux/UNIX	3
	Semester Total:	15
Semester 3	Course Title	Credit Hours
<i>MGMT 2340</i>	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
<i>IT 2700</i>	Information Security Fundamentals	3
MGMT 3345	Business Statistics II	3
INFO 3410	Database Systems and Warehousing	3
<i>INFO 3130</i>	Introduction to Applied Data Analytics	3
<i>MKTG 220G</i>	Written Business Communication WE	3
	Semester Total:	15
Semester 5	Course Title	Credit Hours
INFO 3300	Web Systems Development	3
PHIL 2050	Ethics and Values	3
Elective		3
Elective		3

INFO 4120	Business Intelligence Systems	3
Biology Distribution		3
	Semester Total:	18
Semester 6	Course Title	Credit Hours
INFO 4130	Advanced Business Intelligence Systems	3
INFO 4135	Data Security Analytics	3
MKTG 3600	Principles of Marketing	3
<i>INFO 3430</i>	Systems Analysis and Design WE	3
Elective		3
	Semester Total:	15
NOTE: INFO 4135 is only offered Fall.		
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	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