

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

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: 124

General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing (3.0)	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra (4.0)	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
American Institutions: Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values (3.0)	3
	HLTH 1100	Personal Health and Wellness (2.0)	2
or	PES 1097	Fitness for Life (2.0)	
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 (ECON 2020 recommended)		3
Discipline Core Requirements:		67 Credits	
Math Requirement:		3	
	MGMT 2340	Business Statistics I (3.0)	
IS Core Requirements:			
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS/IT	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 2600	Data Communication Fundamentals	3
	IT 2700	Information Security Fundamentals	3
	COMP 301R	Digital Lecture Series (1.0)	1
	INFO 3130	Introduction to Applied Data Analytics	3
	INFO 3410	Database Systems and Warehousing	3
	INFO 3420	Web Systems Development	3
	INFO 3430	Systems Analysis and Design	3
	INFO 3700	Health Informatics Fundamentals	3
	INFO 405G	Global Ethical and Professional Perspectives in IS and IT	3
	INFO 4430	Systems Design and Implementation	3
	INFO 4440	Enterprise Computing Environments	3
IS Environment/Business Foundation Requirements:			
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
	MKTG 2200	Written Business Communication	3
	MGMT 3000	Organizational Behavior	3
	MKTG 3600	Principles of Marketing	3
Emphasis Requirements:		12 Credits	
	ECON 3340	Managerial Statistics	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:		9 Credits	
Choose 9 credit hours from the following:		9	
	IM 3600	Advanced Excel for Decision Making (3.0)	
	INFO 3120	Management Information Systems (3.0)	
	INFO 3422	PHP Web Application Development (3.0)	
	INFO 3750	Healthcare Information Systems Applications (3.0)	
	INFO 4410	Database Administration (3.0)	
	INFO 4415	Database Security and Auditing (3.0)	
	INFO 4420	Mobile Business Application Development (3.0)	
	INFO 4425	Web Application Security (3.0)	
	INFO 4700	Healthcare Information Systems Management (3.0)	
	FIN 3100	Principles of Finance (3.0)	
	MKTG 4300	Marketing Analytics (3.0)	
Other approved upper-division Information Systems courses			

Graduation Requirements:

1. Completion of at least 124 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.

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- 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 Writing	3
<i>MATH 1050 or MATH 1055</i>	College Algebra or College Algebra with Preliminaries	4
HLTH 1100 or PES 1097	Personal Health and Wellness or Fitness for Life	2
Fine Arts Distribution		3
<i>INFO 1120</i>	Information Systems and Technology Fundamentals	3
Semester total:		15
Notes: (1) Take INFO 1120 first or second semester.		
Semester 2	Course Title	Credit Hours
<i>ENGL 2010 or 2020</i>	Intermediate Writing	3
Biology Distribution		3
<i>INFO 1200</i>	Computer Programming I for IS/IT	3
<i>INFO 2420</i>	Web Application Design	3
IM 2600	Spreadsheet Applications	3
<i>ACC 2010</i>	Financial Accounting	3
Semester total:		18
Notes: (1) Must take INFO 1200 before taking INFO 2200 next semester. (2) Must take ACC 2010 before taking ACC 2020 next semester or the following semester.		
Semester 3	Course Title	Credit Hours
MGMT 2340	Business Statistics I	3
INFO 2200	Computer Programming II for IS/IT	3
<i>INFO 2410</i>	Database Fundamentals	3
<i>IT 2600</i>	Data Communication Fundamentals	3
<i>MKTG 2200</i>	Written Business Communication	3
Semester total:		15
Notes: (1) Must take IT 2600 before taking IT 2700 next semester. (2) Must take MGMT 2340 before taking INFO 3130 next semester. (3) Must take MKTG 2200 before taking MGMT 3000 in next semester.		
Semester 4	Course Title	Credit Hours
ECON 2020	Microeconomics (fulfills Social/Behavioral Science Distribution)	3
IT 2700	Information Security Fundamentals	3
<i>INFO 3130</i>	Intro to Applied Data Analytics	3
<i>ACC 2020</i>	Managerial Accounting	3
MGMT 3000	Organizational Behavior	3

Semester total:		15
Semester 5	Course Title	Credit Hours
PHIL 2050	Ethics and Values	3
COMP 301R	Digital Lecture Series	1
ECON 3340	Managerial Statistics	3
INFO 3410	Database Systems and Warehousing	3
INFO 3700	Health Informatics Fundamentals	3
<i>INFO 4120</i>	Business Intelligence Systems	3
Semester total:		16
Notes: (1) Must take INFO 4120 this semester to be able to take INFO 4130 next semester. (2) Take ECON 3340 concurrently with INFO 4120.		
Semester 6	Course Title	Credit Hours
Physical Science Distribution		3
Humanities Distribution		3
INFO 3420	Web Systems Development	3
INFO 4130	Data Science and Big Data Analytics	3
MKTG 3600	Principles of Marketing	3
Semester total:		15
Notes: (1) INFO 4130 is offered Spring semesters only.		
Semester 7	Course Title	Credit Hours
Additional Biology or Physical Science Distribution		3
<i>INFO 3430</i>	Systems Analysis and Design	3
INFO 405G	Global Ethical and Professional Perspectives in IS and IT	3
INFO 4135	Data Security Analytics	3
INFO Elective 1		3
Semester total:		15
Notes: (1) Must take INFO 3430 the semester before taking INFO 4430. (2) INFO 4135 is offered fall semesters only. (3) INFO 4410 is offered Fall and Spring semesters as long as sufficient demand exists; otherwise it will be offered Fall semester only. (4) INFO elective in Fall semesters only: IM 3600, INFO 4420, and INFO 4700.		
Semester 8	Course Title	Credit Hours
American Institutions Distribution		3
INFO 4430	Systems Design and Implementation	3
INFO 4440	Enterprise Computing Environments	3
INFO Elective 2		3
INFO Elective 3		3
Semester total:		15
Notes: (1) Must take INFO 4430 semester after taking INFO 3430. (2) INFO electives in Spring semesters only: INFO 3422, INFO 3750, INFO 4415, and INFO 4425.		
Degree total:		124