

# Bachelors of Science in Computer Information Systems

## Option in Information Systems (72 Semester Units - 108 Quarter Units)

Catalog Fall 2016

Major Catalog Date: \_\_\_\_\_

Name \_\_\_\_\_ CIN \_\_\_\_\_  
 Last First MI

Street Address \_\_\_\_\_ City \_\_\_\_\_ ZIP Code \_\_\_\_\_ Quarter Admitted \_\_\_\_\_

Adviser's Signature \_\_\_\_\_ Date \_\_\_\_\_ Student's Signature \_\_\_\_\_ Date \_\_\_\_\_

**SEMESTER - Lower Division Required IS Core Courses (6 Units)**

**QUARTER - Lower Division Core Courses (32 Units)**

SEMESTER - Lower Division Required IS Core Courses (6 Units)				QUARTER - Lower Division Core Courses (32 Units)			
			Complete?				Complete?
CIS	1200	Business Computer Systems	3	CIS	100	Business Computer Systems	4
CIS	2830	Introduction to Application Programming	3	CIS	283	Introduction to Application Programming with Java <i>req: CIS 100</i>	4
<b>Lower Division Required Business Core Courses (15 Units)</b>							
ACCT	2100	Principles of Financial Accounting	3	ACCT	210	Principles of Financial Accounting	4
ACCT	2110	Principles of Managerial Accounting <i>req: ACCT 2100</i>	3	ACCT	211	Principles of Managerial Accounting <i>req: ACCT 210</i>	4
ECON <sup>1</sup>	2010	Principles of Economics I: Microeconomics	3	ECON	201	Principles of Economics I: Microeconomics	4
ECON <sup>1</sup>	2020	Principles of Economics II: Macroeconomics <i>req: ECON 2010</i>	3	ECON	202	Principles of Economics II: Macroeconomics <i>req: ECON 201</i>	4
				ECON	209	Applied Business & Economics Statistics I	4
FIN	2050	Legal and Regulatory Environment of Business	3	FIN	205	Legal and Regulatory Environment of Business	4

**SEMESTER - Upper Division Required Business Core Courses (18 Units)**

**QUARTER - Upper Division Core Courses (56 Units)**

SEMESTER - Upper Division Required Business Core Courses (18 Units)				QUARTER - Upper Division Core Courses (56 Units)			
			Complete?				Complete?
				ACCT	310	Accounting Info for Decision Making <i>req: ACCT 211</i>	4
BUS <sup>2</sup>	3050	Business Communication <i>req: WPE</i>	3	BUS	305	Business Communication <i>req: WPE</i>	4
CIS	3010	Management Information Systems	3	CIS	301	Management Information Systems <i>req: CIS 100</i>	4
				ECON	309	Appl Bus & Econ Stats II <i>req: ECON 209, MATH 102</i>	4
FIN	3030	Business Finance <i>req: ACCT 2100</i>	3	FIN	303	Business Finance <i>req: ACCT 210</i>	4
MGMT	3060	Production and Operations Management	3	MGMT	306	Operations Management <i>req: ECON 209</i>	4
MGMT	3070	Organizational Behavior and Management	3	MGMT	307	Management and Organizational Behavior	4
				MGMT	308	Business Responsibilities in Society	4
MKT	3100	Principles of Marketing	3	MKT	304	Principles of Marketing	4
<b>Upper Division Required IS Core Courses (15 Units)</b>							
CIS	3050	Database Design and Development	3	CIS	405	Database Design and Development	4
CIS	3060	Systems Analysis and Design	3	CIS	406	Systems Analysis and Design <i>req: CIS 405</i>	4
CIS	4100	Hardware and Software Architecture	3	CIS	410	Hardware and Software Architecture <i>req: CIS 283</i>	4
CIS	4840	Communications Systems	3	CIS	484	Communications Systems <i>req: CIS 100</i>	4
CIS <sup>3</sup>	4900	Capstone: Information Systems	3	CIS	490	Capstone: Information Systems <i>req: Senior, WPE, BSCIS Core</i>	4

Note 1: ECON 2010 or ECON 2020 is double-counted in Lower Division GE Block D.

Note 2: BUS 3050 is designated as a Writing Intensive (WI) course.

Note 3: CIS 4900 is the capstone course. Students can take CIS 4900 after they have completed all other lower & upper division core courses.

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### OPTION: Information Systems (18-24 Units)

### OPTION: Information Systems (20 Units)

Semester - Select 18 to 24 units (six to eight courses) of electives from the IS/IT Elective Courses (Other functional areas outside of the College of Business and Economics can be considered with the approval of the advisor.)				Quarter - Information Systems Electives (8 Units): Select two courses from CIS			
Note: The exact number of units to be fulfilled for option courses will be determined by the number of double counted General Education courses.							
Complete?				Complete?			
<b>Enterprise Systems</b>				CIS 398	Cooperative Education in Information Systems		1-4
CIS 4200	Business Intelligence and Data Warehouse	3					
CIS 4510	Fundamentals of ERP Technology	3	CIS 451	Fundamentals of ERP Technology <i>req: CIS 301</i>		4	
CIS 4560	Introduction to Big Data	3					
CIS 4590	Advanced System Development	3	CIS 459	Advanced Information Systems Development <i>req: CIS 301</i>		4	
CIS 4760	Project Planning with Microsoft Project	3	CIS 476	Project Planning with Microsoft Project <i>req: CIS 100</i>		4	
CIS 4810	Healthcare Application Systems	3					
CIS 4860	Managing Information Systems Projects	3	CIS 486	Managing Information Systems Projects <i>req: CIS 301, MGMT 307</i>		4	
CIS 4870	Decision Support Systems	3	CIS 487	Decision Support Systems <i>req: CIS 100, FIN 303, MGMT 306</i>		4	
<b>Application Development</b>							
CIS 3200	Data Processing and Analytics	3	CIS 320	Data Processing and Analytics <i>req: CIS 100</i>		4	
CIS 3610	Web Design and Development	3	CIS 361	Web Design and Development <i>req: CIS 100</i>		4	
CIS 3830	Multimedia and Game Application Programming	3	CIS 383	Multimedia and Game Application Programming <i>req: CIS 100</i>		4	
CIS 4450	Networked Application Development	3	CIS 445	Network Application Development <i>req: CIS 405</i>		4	
CIS 4550	Visual Basic .NET Database Application	3					
CIS 4570	Advanced Java Programming	3	CIS 457	Advanced Java Programming <i>req: CIS 283</i>		4	
CIS 4580	E-Business Application Development with Oracle	3	CIS 458	E-business Application Development with Oracle <i>req: CIS 405, 283</i>		4	
CIS 4590	Advanced Information Systems Development	3					
<b>Networking, Telecom, And Infrastructure</b>							
CIS 3850	Systems and Network Administration	3					
CIS 4220	Routing Configuration and Router Administration	3					
CIS 4230	Intermediate Routing and LAN Switching	3					
CIS 4240	Wide Area Networks	3					
CIS 4720	Wireless Communications and Networks	3	CIS 472	Wireless Communications and Networks <i>req: CIS 100</i>		4	
CIS 4730	Network Security Essentials and Practice	3	CIS 473	Network Security Essentials and Practice <i>req: CIS 100</i>		4	
CIS 4850	Local Area Networks	3	CIS 485	Local Area Networks <i>req: CIS 484</i>		4	
<b>Information Security and Privacy</b>							
CIS 4370	Security Risk Management and Internal Controls	3	CIS 437	Security Risk Management and Internal Controls <i>req: CIS 301</i>		4	
CIS 4380	Computer Forensics and Investigations	3	CIS 438	Computer Forensics and Investigations <i>req: CIS 301</i>		4	
CIS 4880	Information Security	3	CIS 488	Information Security <i>req: CIS 301</i>		4	
<b>Current Issues</b>							
CIS 4540	Special Topics in Computer Information Systems	3	CIS 454	Special Topics in Computer Information Systems <i>req: Varies</i>		4	
CIS 4980	Cooperative Education in Information Systems	1-3	CIS 498	Cooperative Education in Information Systems		1-4	
				<b>Quarter - Business and Economics Electives (12 Units): Select three courses from one area in Business and Economics.</b>			