

Bachelors of Science in Computer Information Systems

Option in Information Technology (72 Semester 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 _____

Lower Division Required IS Core Courses (6 Units)			<i>Prerequisites</i>	<i>Completed?</i>
CIS 1200	Business Computer Systems	3		
CIS 2830	Introduction to Application Programming with Java	3	CIS 1200	

Lower Division Required Business Core Courses (3 Units)			<i>Prerequisites</i>	<i>Completed?</i>
ACCT 2100	Principles of Financial Accounting	3		

Upper Division Required Business Core Courses (9 Units)			<i>Prerequisites</i>	<i>Completed?</i>
BUS ¹ 3050	Business Communication	3		
CIS 3010	Management Information Systems	3		
MGMT 3070	Organizational Behavior and Management	3		

Upper Division Required IS Core Courses (15 Units)			<i>Prerequisites</i>	<i>Completed?</i>
CIS 3050	Database Design and Development	3	Microsoft Windows and programming language	
CIS 3060	Systems Analysis and Design	3	CIS 3050	
CIS 4100	Hardware and Software Architecture	3		
CIS 4840	Communications Systems	3	CIS 1200 or equivalent	
CIS ² 4900	Capstone: Information Systems	3	Senior standing and a passing grade on the WPE	

Note 1: BUS 3050 is designated as a Writing Intensive (WI) course.

Note 2: CIS 4900 is the capstone course. Students can take CIS 4900 after they have completed all other lower & upper division core courses.

OPTION: Information Technology (39-42 Units)

Semester - Select 39 to 42 units (13 to 14 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.)

Note: The exact number of units to be fulfilled for option courses will be determined by the number of double counted General Education courses.

Enterprise Systems			<i>Prerequisites</i>	<i>Completed?</i>
CIS 4200	Business Intelligence and Data Warehouse	3	CIS 3010	
CIS 4510	Fundamentals of ERP Technology	3	CIS 3010	
CIS 4560	Introduction to Big Data	3	CIS 2830	
CIS 4590	Advanced System Development	3	CIS 3010	
CIS 4760	Project Planning with Microsoft Project	3	CIS 1200	
CIS 4810	Healthcare Application Systems	3	CIS 3010	
CIS 4860	Managing Information Systems Projects	3	CIS 3060	
CIS 4870	Decision Support Systems	3	CIS 1200 or equivalent	

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Application Development			<i>Prerequisites</i>	<i>Completed?</i>
CIS	3200	Data Processing and Analytics	3 <i>CIS 1200 or equivalent</i>	
CIS	3610	Web Design and Development	3 <i>CIS 1200 or equivalent</i>	
CIS	3830	Multimedia and Game Application Programming	3 <i>CIS 1200 or equivalent</i>	
CIS	4450	Networked Application Development	3 <i>CIS 3050</i>	
CIS	4550	Visual Basic .NET Database Application	3 <i>CIS 2830</i>	
CIS	4570	Advanced Java Programming	3 <i>CIS 2830</i>	
CIS	4580	E-Business Application Development with Oracle	3 <i>CIS 3050 and CIS 2830</i>	
CIS	4590	Advanced Information Systems Development	3 <i>CIS 3010</i>	
Networking, Telecom, And Infrastructure			<i>Prerequisites</i>	<i>Completed?</i>
CIS	3850	Systems and Network Administration	3	
CIS	4220	Routing Configuration and Router Administration	3 <i>CIS 4840 or equivalent</i>	
CIS	4230	Intermediate Routing and LAN Switching	3 <i>CIS 4840 or equivalent</i>	
CIS	4240	Wide Area Networks	3 <i>CIS 4840 or equivalent</i>	
CIS	4720	Wireless Communications and Networks	3 <i>CIS 1200 or equivalent</i>	
CIS	4730	Network Security Essentials and Practice	3 <i>CIS 1200</i>	
CIS	4850	Local Area Networks	3 <i>CIS 4840</i>	
Information Security and Privacy			<i>Prerequisites</i>	<i>Completed?</i>
CIS	4370	Security Risk Management and Internal Controls	3 <i>CIS 3010</i>	
CIS	4380	Computer Forensics and Investigations	3 <i>CIS 3010</i>	
CIS	4880	Information Security	3 <i>CIS 3010 or equivalent or permission of instructor</i>	
Current Issues			<i>Prerequisites</i>	<i>Completed?</i>
CIS	4540	Special Topics in Computer Information Systems	3 <i>Varies with topics</i>	
CIS	4980	Cooperative Education in Information Systems	3	