Bachelors of Science in Computer Information Systems

Option in Information Technology (69 Semester Units)

Catalog Fall 2019

Major Catalog Date: _____

Name _____ CIN _____
Last First MI

_____ _____ _____
Email Phone Number Term Admitted

_____ _____
Adviser's Signature Date

_____ _____
Student's Signature Date

Lower Division Required IS and Business Core Courses (12 Units)				*Prerequisites*	*Completed?*
CIS	1200	Business Computer Systems	3		
CIS	2830	Introduction to Application Programming with Java	3	*CIS 1200*	
ACCT	2100	Principles of Financial Accounting	3		
ECON[1]	2010	Principles of Economics I: Microeconomics	3		

Upper Division Required IS and Business Core Courses (27 Units)				*Prerequisites*	*Completed?*
BUS[2]	3050	Business Communication *(wi)*	3		
ECON[3]	3060	Statistics for Business Analysis and Decision Making	3	*GE Block B4 (Mathematics/Quantitative Reasoning)*	
MGMT[4]	3080	Business Responsibilities in Society	3	*Block A (Basic Subjects)*	
CIS	3010	Management Information Systems	3		
CIS	3050	Database Design and Development	3		
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	4900	Capstone: Information Systems	3	*Senior standing*	

OPTION: Information Technology Required Courses (15 Units)				*Prerequisites*	*Completed?*
CIS	4560	Introduction to Big Data	3	*CIS 2830*	
CIS	4570	Advanced Java Programming	3	*CIS 2830*	
or					
CIS	4580	E-Business Application Development with Oracle		*CIS 3050 and CIS 2830*	
CIS	4730	Network Security Essentials and Practice	3	*CIS 1200*	
CIS	4860	Managing Information Systems Projects	3	*CIS 3060*	
CIS	4880	Information Security	3	*CIS 3010 or equivalent or permission of instructor*	

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

Note 2: BUS 3050 is designated as a Writing Intensive (wi) course. A grade of "C" or better is required to satisfy the Graduation Writing Assessment Requirement (GWAR).

Note 3: ECON 3060 is double-counted in Upper Division GE Block B - Natural Science and Mathematics

Note 4: MGMT 3080 is double-counted in Upper Division GE Block C - Arts and Humanities.

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OPTION: Information Technology Elective Courses (15 Units)

Semester - Select 15 units (5 courses) of electives from the IT Elective Courses below.					
Enterprise Systems				*Prerequisites*	*Completed?*
CIS	4200	Business Intelligence and Data Warehouse	3	*CIS 3010*	
CIS	4510	Fundamentals of ERP Technology	3	*CIS 3010*	
CIS	4590	Advanced Information Systems Development	3	*CIS 3010*	
CIS	4760	Project Planning with Microsoft Project	3	*CIS 1200*	
CIS	4810	Healthcare Application Systems	3	*CIS 3010*	
Business Intelligence and Data Analytics				*Prerequisites*	*Completed?*
CIS	3200	Data Processing and Analytics	3	*CIS 1200 or equivalent*	
CIS	4150	Foundations of Business Intelligence	3		
CIS	4200	Business Intelligence and Data Warehouse	3	*CIS 3010*	
CIS	4210	Healthcare Data Analytics	3		
CIS	4250	Business Intelligence Applications	3		
CIS	4870	Decision Support Systems	3	*CIS 1200 or equivalent*	
Application Development				*Prerequisites*	*Completed?*
CIS	3610	Web Design and Development	3	*CIS 1200 or equivalent*	
CIS	3830	Multimedia and Game Application Programming	3	*CIS 1200 or equivalent*	
CIS	4450	Networked Application Development	3	*CIS 3050*	
CIS	4550	Visual Basic .NET Database Application	3	*CIS 2830*	
Networking, Telecom, And Infrastructure				*Prerequisites*	*Completed?*
CIS	3850	Systems and Network Administration	3		
CIS	4220	Routing Configuration and Router Administration	3	*CIS 4840 or equivalent*	
CIS	4230	Intermediate Routing and LAN Switching	3	*CIS 4840 or equivalent*	
CIS	4240	Wide Area Networks	3	*CIS 4840 or equivalent*	
CIS	4720	Wireless Communications and Networks	3	*CIS 1200 or equivalent*	
CIS	4850	Computer Networks	3	*CIS 4840*	
Information Security and Privacy				*Prerequisites*	*Completed?*
CIS	4370	Security Risk Management and Internal Controls		*CIS 3010*	
		also listed as	3		
ACCT	4370	Security Risk Management and Internal Controls		*ACCT 4240B*	
CIS	4380	Computer Forensics and Investigations		*CIS 3010*	
		also listed as	3		
ACCT	4380	Computer Forensics and Investigations		*ACCT 4240A*	
Current Issues				*Prerequisites*	*Completed?*
CIS	4540	Special Topics in Computer Information Systems	3	*Varies with topics*	
CIS	4980	Cooperative Education in Information Systems			
		also listed as	3		
UNIV	4980	Advanced Cooperative Education		*Senior level courses appropriate to experience*	