

Bachelors of Science in Computer Information Systems

Option in Business Systems (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 (<i>wi</i>)	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: Business Systems Required Courses (15 Units) *Prerequisites* *Completed?*

BUS 4150	Contemporary Issues in Global Business	3		
FIN 3030	Business Finance	3	ACCT 2100	
MGMT 3060	Operations Management	3		
MGMT 3070 or	Management and Organizational Behavior	3		
MGMT 4504	Supply Chain Management	3	MGMT 3060	
MGMT 3100	Management and the Great Ideas	3	MGMT 3070	

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.

Bachelors of Science in Computer Information Systems

Option in Business Systems (69 Semester Units)

OPTION: Business Systems (15 Units)

Semester - Select 15 units (5 courses) of electives from the lists below.

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 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	
CIS 4860	Managing Information Systems Projects	3	CIS 3060	
Business Intelligence and Data Analytics			<i>Prerequisites</i>	<i>Completed?</i>
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 4560	Introduction to Big Data	3	CIS 2830	
CIS 4870	Decision Support Systems	3	CIS 1200 or equivalent	
Application Development			<i>Prerequisites</i>	<i>Completed?</i>
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	
CIS 4570	Advanced Java Programming	3	CIS 2830	
CIS 4580	E-business Application Development with Oracle	3	CIS 2830 and CIS 3050	
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	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			<i>Prerequisites</i>	<i>Completed?</i>
CIS 4370	Security Risk Management and Internal Controls also listed as	3	CIS 3010	
ACCT 4370	Security Risk Management and Internal Controls		ACCT 4240B	
CIS 4380	Computer Forensics and Investigations also listed as	3	CIS 3010	
ACCT 4380	Computer Forensics and Investigations		ACCT 4240A	
CIS 4730	Network Security Essentials and Practice	3	CIS 1200	
CIS 4880	Information Security	3	CIS 3010	

Bachelors of Science in Computer Information Systems

Accounting			<i>Prerequisites</i>	<i>Completed?</i>
ACCT 3200A	Intermediate Financial Accounting and Reporting I	3	ACCT 2100 and ACCT 2110	
ACCT 3200B	Intermediate Financial Accounting and Reporting II	3	ACCT 3200A with minimum C grade	
ACCT 3210	Taxation of Individuals	3	ACCT 3200A with minimum C grade	
ACCT 3220	Cost Accounting	3	ACCT 2110 and 3200A with minimum C grades	
ACCT 3250	Leadership and Professional Skills for Accountants	3	ACCT 3200B and BUS 3050	
ACCT 4240A	Accounting Information Systems	3	ACCT 3200A	
Finance			<i>Prerequisites</i>	<i>Completed?</i>
FIN 3250	Essential Skills for Finance Professionals	3	Completion of GE B4, FIN 3030	
FIN 3310	Financial Institutions and Markets	3	ECON 2020, FIN 3030	
FIN 3320	Investments	3	FIN 3030	
FIN 4030	Intermediate Business Finance	3	FIN 3030	
Healthcare			<i>Prerequisites</i>	<i>Completed?</i>
MGMT 4108	High Performance Management	3	MGMT 3070	
MGMT 4300	Leading and Managing in Healthcare Environments	3		
MGMT 4315 or	Comparative Healthcare Organizing	3		
MGMT 4330	Healthcare Regulations and Ethics	3		
MGMT 4335	Financial Management of Health Care Institutions	3		
MGMT 4345 or	Healthcare Operations Management	3	MGMT 3060	
MGMT 4506	Service Management	3	MGMT 3060 and 3070	
PH 3140	Health Care Delivery System	3		
HR Management			<i>Prerequisites</i>	<i>Completed?</i>
MGMT 4400	Strategic Human Resource Management	3	MGMT 3070	
MGMT 4402	Employment Relations	3	MGMT 4400	
MGMT 4403	Compensation Management	3	MGMT 4400	
MGMT 4405	Talent Management	3	MGMT 4400	
MGMT 4407	International Human Resource Management	3	MGMT 4400	
International Business			<i>Prerequisites</i>	<i>Completed?</i>
FIN 4310	Multinational Financial Management	3	FIN 3030	
MGMT 4102	Comparative Management	3	Senior or graduate standing	
MKT 3200	High Performance Professional Skills	3	MKT 3100	
MKT 3500	Global Business	3	MKT 3100	
MKT 4500	International Marketing	3	MKT 3100	
MKT 4510	Intercultural Business Communication	3		
Management			<i>Prerequisites</i>	<i>Completed?</i>
MGMT 4101	Organization Theory and Design	3	MGMT 3070	
MGMT 4102	Comparative Management	3	Senior or graduate standing	
MGMT 4106	Business in Its Social Setting	3	MGMT 3080 or graduate standing	
MGMT 4108	High Performance Management	3	MGMT 3070	
MGMT 4500	Case Studies in Operations Management	3	MGMT 3060	

Bachelors of Science in Computer Information Systems

Marketing			<i>Prerequisites</i>	<i>Completed?</i>
MKT	3200	High Performance Professional Skills	3	<i>MKT 3100</i>
MKT	3210	Personal Selling	3	<i>MKT 3100</i>
MKT	3400	Consumer Behavior	3	<i>MKT 3100</i>
MKT	3800	Introduction to Social Media Marketing	3	
MKT	4449	Marketing Strategy	3	<i>MKT 3100, 3200, 3210, 3400, and 4460 or 4461</i>
Operations Management			<i>Prerequisites</i>	<i>Completed?</i>
MGMT	4103	Managerial Innovation	3	<i>MGMT 3070</i>
MGMT	4402	Employment Relations	3	<i>MGMT 4400</i>
MGMT	4500	Case Studies in Operations Management	3	<i>MGMT 3060</i>
MGMT	4501	Process Design and Improvement	3	<i>MGMT 3060</i>
MGMT	4502	Production and Inventory Management	3	<i>MGMT 3060</i>
MGMT	4503	Total Quality Management	3	<i>MGMT 3060</i>
MGMT	4504	Supply Chain Management	3	<i>MGMT 3060</i>
MGMT	4505	Project Management	3	
MGMT	4506	Service Management	3	<i>MGMT 3060 and 3070</i>
MGMT	4507	Operations Research	3	<i>MGMT 3060</i>
Real Estate			<i>Prerequisites</i>	<i>Completed?</i>
FIN	3250	Essential Skills for Finance Professionals	3	<i>Completion of GE B4, FIN 3030</i>
FIN	3380	Real Estate Principles	3	
FIN	3390	Real Estate Practice	3	
FIN	3810	Real Estate Law	3	<i>FIN 2050 or equivalent business law course</i>
FIN	4390	Real Estate Finance	3	<i>FIN 3030 or FIN 3380</i>
FIN	4930	Real Estate Investment	3	<i>FIN 3030 or FIN 3380</i>
Retailing			<i>Prerequisites</i>	<i>Completed?</i>
MKT	3200	High Performance Professional Skills	3	<i>MKT 3100</i>
MKT	3400	Consumer Behavior	3	<i>MKT 3100</i>
MKT	3600	Principles of Retailing	3	
MKT	3800	Introduction to Social Media Marketing	3	
MKT	4600	Retail Buying and Merchandising	3	<i>MKT 3600</i>
MKT	4610	Digital Marketing and E-commerce	3	<i>MKT 3100</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	
UNIV	4980	Advanced Cooperative Education		<i>Senior level courses appropriate to experience</i>