

# Bachelors of Science in Computer Information Systems

## Option in Information 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	Units	Course Name	Units	Prerequisites	Completed?
CIS 1200	3	Business Computer Systems	3		
CIS 2830	3	Introduction to Application Programming with Java	3	CIS 1200	
ACCT 2100	3	Principles of Financial Accounting	3		
ECON <sup>1</sup> 2010	3	Principles of Economics I: Microeconomics	3		

**Upper Division Required IS and Business Core Courses (27 Units)** *Prerequisites* *Completed?*

BUS <sup>2</sup>	ECON <sup>3</sup>	MGMT <sup>4</sup>	CIS	Units	Course Name	Units	Prerequisites	Completed?
BUS <sup>2</sup> 3050				3	Business Communication ( <i>wi</i> )	3		
	ECON <sup>3</sup> 3060			3	Statistics for Business Analysis and Decision Making	3	GE Block B4 (Mathematics/Quantitative Reasoning)	
		MGMT <sup>4</sup> 3080		3	Business Responsibilities in Society	3	Block A (Basic Subjects)	
			CIS 3010	3	Management Information Systems	3		
			CIS 3050	3	Database Design and Development	3		
			CIS 3060	3	Systems Analysis and Design	3	CIS 3050	
			CIS 4100	3	Hardware and Software Architecture	3		
			CIS 4840	3	Communications Systems	3	CIS 1200 or equivalent	
			CIS 4900	3	Capstone: Information Systems	3	Senior standing	

**OPTION: Information Systems Required Courses (15 Units)** *Prerequisites* *Completed?*

CIS	Units	Course Name	Units	Prerequisites	Completed?
CIS 4200	3	Business Intelligence and Data Warehouse	3	CIS 3010	
CIS 4370	3	Security Risk Management and Internal Controls	3	CIS 3010	
CIS 4510	3	Fundamentals of ERP Technology	3	CIS 3010	
CIS 4590	3	Advanced Information Systems Development	3	CIS 3010	
CIS 4860	3	Managing Information Systems Projects	3	CIS 3060	

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 Systems (15 Units)

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

<b>Enterprise Systems</b>				<i>Prerequisites</i>	<i>Completed?</i>
CIS	4760	Project Planning with Microsoft Project	3	CIS 1200	
CIS	4810	Healthcare Application Systems	3	CIS 3010	
<b>Business Intelligence and Data Analytics</b>				<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	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	
<b>Application Development</b>				<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	
<b>Networking, Telecom, And Infrastructure</b>				<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	
<b>Information Security and Privacy</b>				<i>Prerequisites</i>	<i>Completed?</i>
CIS	4380	Computer Forensics and Investigations <b>also listed as</b>	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	
<b>Current Issues</b>				<i>Prerequisites</i>	<i>Completed?</i>
CIS	4540	Special Topics in Computer Information Systems	3	Varies with topics	
CIS	4980	Cooperative Education in Information Systems <b>also listed as</b>	3		
UNIV	4980	Advanced Cooperative Education		Senior level courses appropriate to experience	