## Bachelors of Science in Computer Information Systems

## Option in Information Systems (72 Semester Units)

Catalog Fall 2016			М	Najor Catalog Date:		
Name				CIN		
	Last	First	MI			
Street Ad	dress	City		ZIP Code	Quarter Admitted	
Adviser's	Signature	e Date	Student'	s Signature	Date	
Lower	Divisio	n Required IS Core Courses (6 Units)		Prerequisites	Compl	leted?
CIS	1200	Business Computer Systems	3			
CIS	2830	Introduction to Application Programming with Java	3	CIS 1200		
Lower	Divisio	n Required Business Core Courses (15 Units)		Prerequisites	Compl	leted?
ACCT	2100	Principles of Financial Accounting	3			
ACCT	2110	Principles of Managerial Accounting	3	ACCT 2100		
ECON1	2010	Principles of Economics I: Microeconomics	3			
ECON <sup>1</sup>	2020	Principles of Economics II: Macroeconomics	3	ECON 2010		
FIN	2050	Legal and Regulatory Environment of Business	3			
Upper I	Divisio	n Required Business Core Courses (18 Units)		Prerequisites	Compl	leted?
BUS <sup>2</sup>	3050	Business Communication	3			
CIS	3010	Management Information Systems	3			
FIN	3030	Business Finance	3	ACCT 2100		
MGMT	3060	Production and Operations Management	3			
MGMT	3070	Organizational Behavior and Management	3			
MKT	3100	Principles of Marketing	3			
Upper l	Divisio	n Required IS Core Courses (15 Units)		Prerequisites	Compl	leted?
CIS	3050	Database Design and Development	3	Microsoft Windows and pro	ogramming 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		

3 Senior standing and a passing grade on the WPE

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

Capstone: Information Systems

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

CIS<sup>3</sup>

4900

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

## Bachelors of Science in Computer Information Systems Option in Information Systems (72 Semester Units)

## **OPTION: Information Systems (18-24 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.)
Note: The exact number of units to be fulfilled for ontion courses will be determined by the number of double counted General Education

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	courses	S.					
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 3010           CIS         4810         Healthcare Application Systems         3 CIS 3010           CIS         4860         Managing Information Systems Projects         3 CIS 3010           CIS         4870         Decision Support Systems         3 CIS 1200 or equivalent           Application Development         Prerequisites         Complete           CIS         3200         Data Processing and Analytics         3 CIS 1200 or equivalent           CIS         3301         Web Design and Development         3 CIS 1200 or equivalent           CIS         3810         Web Design and Development         3 CIS 1200 or equivalent           CIS         3830         Multimedia and Game Application Programming         3 CIS 1200 or equivalent           CIS         3850         Networked Application Development         3 CIS 3050           CIS         4550         Visual Basic .NET Database Application         3 CIS 2830           CIS         4570<	Enterp	rise Sys	stems		Prerequisites	Comple	eted?
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 3010           CIS         4810         Healthcare Application Systems         3 CIS 3010           CIS         4860         Managing Information Systems Projects         3 CIS 3000           CIS         4870         Decision Support Systems         3 CIS 1200 or equivalent           Application Development         Prerequisites         Complete           CIS         3300         Data Processing and Analytics         3 CIS 1200 or equivalent           CIS         3610         Web Design and Development         3 CIS 1200 or equivalent           CIS         3330         Multimedia and Game Application Programming         3 CIS 1200 or equivalent           CIS         3450         Networked Application Development         3 CIS 2830           CIS         4450         Networked Application Development with Oracle         3 CIS 2830           CIS         4550         Visual Basic. NET Database Application         3 CIS 2830           CIS         4550         Advanced Information Systems Development         3 CIS 2830           CIS	CIS	4200	Business Intelligence and Data Warehouse	3	CIS 3010		
CIS         4590         Advanced System Development         3 C/S 3010           CIS         4760         Project Planning with Microsoft Project         3 C/S 1200           CIS         4810         Healthcare Application Systems         3 C/S 3010           CIS         4860         Managing Information Systems Projects         3 C/S 3060           CIS         4870         Decision Support Systems         3 C/S 1200 or equivalent           CIS         4870         Decision Support Systems         3 C/S 1200 or equivalent           CIS         3200         Data Processing and Analytics         3 C/S 1200 or equivalent           CIS         3610         Web Design and Development         3 C/S 1200 or equivalent           CIS         3830         Multimedia and Game Application Programming         3 C/S 1200 or equivalent           CIS         3450         Networked Application Development         3 C/S 2830           CIS         4550         Visual Basic .NET Database Application         3 C/S 2830           CIS         4550         Visual Basic .NET Database Application Programming         3 C/S 2830           CIS         4550         Advanced Information Systems Development with Oracle         3 C/S 2830           CIS         4550         Advanced Information Systems Development	CIS	4510	Fundamentals of ERP Technology	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  Application Development Prerequisites Complete  CIS 3200 Data Processing and Analytics 3 CIS 1200 or equivalent  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 1200 or equivalent  CIS 4550 Visual Basic .NET Database Application  CIS 4550 Visual Basic .NET Database Application  CIS 4550 E-Business Application Development with Oracle 3 CIS 3050 and CIS 2830  CIS 4550 Advanced Information Systems Development 3 CIS 3050 and CIS 2830  CIS 4550 Resument of Information Systems Development 3 CIS 3050 and CIS 2830  CIS 4550 Resument of Information Systems Development 3 CIS 3050 and CIS 2830  CIS 4550 Resument of Information Systems Development 3 CIS 3050 and CIS 2830  CIS 4550 Resument of Information Systems Development 3 CIS 3050 and CIS 2830  CIS 4550 Resument of Information Systems Development 3 CIS 3050 and CIS 2830  CIS 4550 Resument of Information Systems Development 3 CIS 3050 and CIS 2830  CIS 4550 Resument of Information Systems Development 3 CIS 4840 or equivalent 3 CIS 4840 or equivalent 4 CIS 4200 Resument 4 CIS	CIS	4560	Introduction to Big Data	3	CIS 2830		
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           Application Development         Prerequisites         Complete           CIS         3200         Data Processing and Analytics         3 CIS 1200 or equivalent           CIS         3610         Web Design and Development         3 CIS 1200 or equivalent           CIS         3830         Multimedia and Game Application Programming         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         4550         Visual Basic .NET Database Application         3 CIS 2830           CIS         4550         Visual Basic .NET Database Application         3 CIS 2830           CIS         4580         E-Business Application Development with Oracle         3 CIS 2830           CIS         4590         Advanced Information Systems Development         3 CIS 3010 <td>CIS</td> <td>4590</td> <td>Advanced System Development</td> <td>3</td> <td>CIS 3010</td> <td></td> <td></td>	CIS	4590	Advanced System Development	3	CIS 3010		
CIS         4860         Managing Information Systems Projects         3 CIS 3060           CIS         4870         Decision Support Systems         3 CIS 1200 or equivalent           Application Development         Prerequisites         Complete           CIS         3200         Data Processing and Analytics         3 CIS 1200 or equivalent           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         4450         Networked Application Development         3 CIS 2830           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 3050 and CIS 2830           CIS         4590         Advanced Information Systems Development         3 CIS 3010           Networking, Telecom, And Infrastructure         Prerequisites         Complete           CIS         4220         Routing Configuration and Router Administration         3 CIS 4840 or equivalent	CIS	4760	Project Planning with Microsoft Project	3	CIS 1200		
CIS         4870         Decision Support Systems         3 CIS 1200 or equivalent           Application Development         Prerequisites         Complete           CIS         3200         Data Processing and Analytics         3 CIS 1200 or equivalent           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 3050 and CIS 2830           CIS         4590         Advanced Information Systems Development         3 CIS 3050 and CIS 2830           CIS         4590         Advanced Information Systems Development         3 CIS 3010           Networking, Telecom, And Infrastructure         Prerequisites         Complete           CIS         3850         Systems and Network Administration         3 CIS 4840 or equivalent           CIS         4220         Routing Configuration and Router Administration         3 C	CIS	4810	Healthcare Application Systems	3	CIS 3010		
Application Development  CIS 3200 Data Processing and Analytics  CIS 3201 Data Processing and Analytics  CIS 3610 Web Design and Development  CIS 3830 Multimedia and Game Application Programming  CIS 4450 Networked Application Development  CIS 4550 Visual Basic .NET Database Application  CIS 4570 Advanced Java Programming  CIS 4580 E-Business Application Development with Oracle  CIS 4590 Advanced Information Systems Development  CIS 3850 Systems and Network Administration  CIS 4200 Routing Configuration and Router Administration  CIS 4210 Networking, Telecom, And Infrastructure  CIS 4220 Routing Configuration and Router Administration  CIS 4240 Wide Area Networks  CIS 4240 Wide Area Networks  CIS 4750 Network Security Essentials and Practice  CIS 4750 Network Security Essentials and Practice  CIS 4750 Network Security Risk Management and Internal Controls  CIS 4850 Local Area Networks  CIS 4850 Local Topics in Computer Information Systems  Prerequisites  Complete  CIS 4300 Prerequisites  Complete  CIS 4500 Prer	CIS	4860	Managing Information Systems Projects	3	CIS 3060		
CIS 3200 Data Processing and Analytics 3 CIS 1200 or equivalent 2 CIS 3610 Web Design and Development 3 CIS 1200 or equivalent 3 CIS 3050 Authority 2 CIS 4550 Visual Basic .NET Database Application 3 CIS 2830 CIS 2830 CIS 4570 Advanced Java Programming 3 CIS 2830 CIS 4580 E-Business Application Development with Oracle 3 CIS 3050 and CIS 2830 CIS 4590 Advanced Information Systems Development 3 CIS 3050 and CIS 2830 CIS 4590 Advanced Information Systems Development 3 CIS 3050 and CIS 2830 CIS 3050 Advanced Information Systems Development 3 CIS 3010 Prerequisites Complete CIS 3850 Systems and Network Administration 3 CIS 4840 or equivalent 10 Intermediate Routing and LAN Switching 3 CIS 4840 or equivalent 10 CIS 4240 Wide Area Networks 3 CIS 4840 or equivalent 10 CIS 4720 Wireless Communications and Networks 3 CIS 1200 or equivalent 10 CIS 4850 Local Area Networks 3 CIS 4840 Prerequisites Complete 10 CIS 4850 Local Area Networks 3 CIS 4840 Prerequisites Complete 10 CIS 4370 Security Essentials and Practice 3 CIS 1200 Prerequisites Complete 10 CIS 4380 Computer Forensics and Investigations 3 CIS 3010 CIS 4380 Computer Forensics and Investigations 3 CIS 3010 CIS 4380 Information Security Risk Management and Internal Controls 3 CIS 3010 CIS 4380 Information Security Risk Management and Internal Controls 3 CIS 3010 CIS 4380 Special Topics in Computer Information Systems 3 Varies with topics	CIS	4870	Decision Support Systems	3	CIS 1200 or equivalent		
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 3050 and CIS 2830 CIS 4590 Advanced Information Systems Development 3 CIS 3010 Networking, Telecom, And Infrastructure Prerequisites Complete 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 4730 Network Security Essentials and Practice 3 CIS 1200 CIS 4850 Local Area Networks 3 CIS 4840 Information Security and Privacy Prerequisites Complete CIS 4380 Computer Forensics and Investigations 3 CIS 3010 CIS 4880 Information Security Risk Management and Internal Controls 3 CIS 3010 CIS 4880 Information Security Secu	Applic	ation De	evelopment		Prerequisites	Comple	eted?
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 3050 and CIS 2830  CIS 4590 Advanced Information Systems Development 3 CIS 3010  Networking, Telecom, And Infrastructure Preequisites Complete  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 4730 Network Security Essentials and Practice 3 CIS 1200  CIS 4850 Local Area Networks 3 CIS 4840  Information Security and Privacy Prerequisites Complete  CIS 4370 Security Risk Management and Internal Controls 3 CIS 3010  CIS 4380 Computer Forensics and Investigations 3 CIS 3010 or equivalent or permission of instructor  CIS 4880 Information Security 3 CIS 3010 or equivalent or permission of instructor  Current Issues Prerequisites Complete  CIS 4540 Special Topics in Computer Information Systems 3 Varies with topics	CIS	3200	Data Processing and Analytics	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 3050 and CIS 2830  CIS 4590 Advanced Information Systems Development 3 CIS 3050 and CIS 2830  Networking, Telecom, And Infrastructure Prerequisites Complete  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 4730 Network Security Essentials and Practice 3 CIS 1200  CIS 4850 Local Area Networks 3 CIS 4840  Information Security and Privacy Prerequisites Complete  CIS 4370 Security Risk Management and Internal Controls 3 CIS 3010  CIS 4380 Information Security 3 CIS 3010  CIS 4380 Information Security 3 CIS 3010  CIS 4380 Information Security 3 CIS 3010 or equivalent or permission of instructor  Current Issues Prerequisites Complete  CIS 4540 Special Topics in Computer Information Systems 3 Varies with topics	CIS	3610	Web Design and Development	3	CIS 1200 or equivalent		
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 3050 and CIS 2830  CIS 4590 Advanced Information Systems Development 3 CIS 3050 and CIS 2830  Networking, Telecom, And Infrastructure Prerequisites Complete  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 4730 Network Security Essentials and Practice 3 CIS 1200  CIS 4850 Local Area Networks 3 CIS 4840  Information Security and Privacy Prerequisites Complete  CIS 4370 Security Risk Management and Internal Controls 3 CIS 3010  CIS 4380 Computer Forensics and Investigations 3 CIS 3010 or equivalent or permission of instructor  Current Issues Prerequisites Complete  CIS 4540 Special Topics in Computer Information Systems 3 Varies with topics	CIS	3830	Multimedia and Game Application Programming	3	CIS 1200 or equivalent		
CIS 4570 Advanced Java Programming 3 CIS 2830  CIS 4580 E-Business Application Development with Oracle 3 CIS 3050 and CIS 2830  CIS 4590 Advanced Information Systems Development 3 CIS 3010  Networking, Telecom, And Infrastructure Prerequisites Complete  CIS 3850 Systems and Network Administration 3 CIS 4240 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 4730 Network Security Essentials and Practice 3 CIS 1200  CIS 4850 Local Area Networks 3 CIS 4840  Information Security and Privacy Prerequisites Complete  CIS 4370 Security Risk Management and Internal Controls 3 CIS 3010  CIS 4380 Computer Forensics and Investigations 3 CIS 3010  CIS 4880 Information Security Special Topics in Computer Information Systems 3 Varies with topics	CIS	4450	Networked Application Development	3	CIS 3050		
CIS 4580 E-Business Application Development with Oracle 3 CIS 3050 and CIS 2830  CIS 4590 Advanced Information Systems Development 3 CIS 3010  Networking, Telecom, And Infrastructure Prerequisites Complete  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 4730 Network Security Essentials and Practice 3 CIS 1200  CIS 4850 Local Area Networks 3 CIS 4840  Information Security and Privacy Prerequisites Complete  CIS 4370 Security Risk Management and Internal Controls 3 CIS 3010  CIS 4880 Information Security 3 CIS 3010  CIS 4880 Information Security Sec	CIS	4550	Visual Basic .NET Database Application	3	CIS 2830		
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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 4730 Network Security Essentials and Practice 3 CIS 1200  CIS 4850 Local Area Networks 3 CIS 4840  Information Security and Privacy Prerequisites Complete  CIS 4370 Security Risk Management and Internal Controls 3 CIS 3010  CIS 4380 Computer Forensics and Investigations 3 CIS 3010  CIS 4880 Information Security 3 CIS 3010 or equivalent or permission of instructor  Current Issues Prerequisites Complete  CIS 4540 Special Topics in Computer Information Systems 3 Varies with topics	CIS	3850	Systems and Network Administration	3			
CIS 4240 Wide Area Networks 3 CIS 4840 or equivalent  CIS 4720 Wireless Communications and Networks 3 CIS 1200 or equivalent  CIS 4730 Network Security Essentials and Practice 3 CIS 1200  CIS 4850 Local Area Networks 3 CIS 4840  Information Security and Privacy Prerequisites Complete  CIS 4370 Security Risk Management and Internal Controls 3 CIS 3010  CIS 4380 Computer Forensics and Investigations 3 CIS 3010  CIS 4880 Information Security 3 CIS 3010 or equivalent or permission of instructor  Current Issues Prerequisites Complete  CIS 4540 Special Topics in Computer Information Systems 3 Varies with topics	CIS	4220	Routing Configuration and Router Administration	3	CIS 4840 or equivalent		
CIS 4720 Wireless Communications and Networks 3 CIS 1200 or equivalent  CIS 4730 Network Security Essentials and Practice 3 CIS 1200  CIS 4850 Local Area Networks 3 CIS 4840  Information Security and Privacy Prerequisites Complete  CIS 4370 Security Risk Management and Internal Controls 3 CIS 3010  CIS 4380 Computer Forensics and Investigations 3 CIS 3010  CIS 4880 Information Security 3 CIS 3010 or equivalent or permission of instructor  Current Issues Prerequisites Complete  CIS 4540 Special Topics in Computer Information Systems 3 Varies with topics	CIS	4230	Intermediate Routing and LAN Switching	3	CIS 4840 or equivalent		
CIS 4730 Network Security Essentials and Practice 3 CIS 1200  CIS 4850 Local Area Networks 3 CIS 4840  Information Security and Privacy Prerequisites Complete  CIS 4370 Security Risk Management and Internal Controls 3 CIS 3010  CIS 4380 Computer Forensics and Investigations 3 CIS 3010  CIS 4880 Information Security 3 CIS 3010 or equivalent or permission of instructor  Current Issues Prerequisites Complete  CIS 4540 Special Topics in Computer Information Systems 3 Varies with topics	CIS	4240	Wide Area Networks	3	CIS 4840 or equivalent		
CIS 4850 Local Area Networks 3 CIS 4840  Information Security and Privacy Prerequisites Complete CIS 4370 Security Risk Management and Internal Controls 3 CIS 3010  CIS 4380 Computer Forensics and Investigations 3 CIS 3010  CIS 4880 Information Security 3 CIS 3010 or equivalent or permission of instructor  Current Issues Prerequisites Complete CIS 4540 Special Topics in Computer Information Systems 3 Varies with topics	CIS	4720	Wireless Communications and Networks	3	CIS 1200 or equivalent		
Information Security and Privacy       Prerequisites       Complete         CIS       4370       Security Risk Management and Internal Controls       3 CIS 3010         CIS       4380       Computer Forensics and Investigations       3 CIS 3010         CIS       4880       Information Security       3 CIS 3010 or equivalent or permission of instructor         Current Issues       Prerequisites       Complete         CIS       4540       Special Topics in Computer Information Systems       3 Varies with topics	CIS	4730	Network Security Essentials and Practice	3	CIS 1200		
CIS 4370 Security Risk Management and Internal Controls 3 CIS 3010  CIS 4380 Computer Forensics and Investigations 3 CIS 3010  CIS 4880 Information Security 3 CIS 3010 or equivalent or permission of instructor  Current Issues Prerequisites Complete  CIS 4540 Special Topics in Computer Information Systems 3 Varies with topics	CIS	4850	Local Area Networks	3	CIS 4840		
CIS 4380 Computer Forensics and Investigations 3 CIS 3010  CIS 4880 Information Security 3 CIS 3010 or equivalent or permission of instructor  Current Issues Prerequisites Complete  CIS 4540 Special Topics in Computer Information Systems 3 Varies with topics	Information Security and Privacy			Prerequisites	Comple	eted?	
CIS 4880 Information Security 3 CIS 3010 or equivalent or permission of instructor  Current Issues Prerequisites Complete  CIS 4540 Special Topics in Computer Information Systems 3 Varies with topics	CIS	4370	Security Risk Management and Internal Controls	3	CIS 3010		
Current Issues     Prerequisites     Complete       CIS     4540     Special Topics in Computer Information Systems     3     Varies with topics	CIS	4380	Computer Forensics and Investigations	3	CIS 3010		
CIS 4540 Special Topics in Computer Information Systems 3 Varies with topics	CIS	4880	Information Security	3	CIS 3010 or equivalent or permission of instruc	tor	
	Curre	nt Issues			Prerequisites	Comple	eted?
CIS 4980 Cooperative Education in Information Systems 3	CIS	4540	Special Topics in Computer Information Systems	3	Varies with topics		
	CIS	4980	Cooperative Education in Information Systems	3			