

## COURSE SLO ASSESSMENT 4-YEAR TIMELINE

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
El Camino: Course SLOs (BUS) - Computer Information Systems	2013-14 (Fall 2013)	ECC: CIS 13	Computer Information Systems	SLO #1 Applicability	Solve common business problems using appropriate information technology applications and systems design and developmental tools.
	2013-14 (Fall 2013)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #1 Developing an E-Commerce Software Application for the Web	The student will demonstrate the ability to create an e-commerce website using ASP.NET and C+. Given detailed specifications and example code, create a functioning e-commerce website that includes: a) a market-competitive user interface, b) a shopping cart, c) product recommendations, d) an order pipeline to follow the order process, e) a database which includes customers, products with product attributes, orders,audit, order, inventory, and product recommendation information, and search capability.
	2013-14 (Fall 2013)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #2 SQL, C+ and ASP.NET	Demonstrate knowledge of e-commerce development programming language usage.
	2013-14 (Fall 2013)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #3 Website Planning	Demonstrate project design and management of a complete e-commerce website including the use of requirements document, database and class diagrams, use case definitions, flowcharts, cross-functional flowcharts, site maps, user controls, classes and timelines.
	2013-14 (Spring 2014)	ECC: CIS 133	Mashup JavaScript, jQuery and AJAX	SLO #1 Fundamental Concepts of Client-Side Programming	Students will demonstrate their ability to bring excitement to web pages using the fundamental components in the JavaScript programming language, including form data validation techniques, event handling using functions, timers, and control structures, repetitive programming methods, objects and object models, and the jQuery library.
	2013-14 (Spring 2014)	ECC: CIS 140	Data Communications CISCO 1	SLO #1 Data Communication Terms	Describe and explain data communication terms such as broadband and baseband communications.
	2013-14 (Spring 2014)	ECC: CIS 141	Networking Microcomputers CISCO 2	SLO #1 Connection and Connection-less Oriented Networks	Describe connection-oriented network services and connectionless-oriented network services and identify their key differences.
	2013-14 (Spring 2014)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #1 Router Components	Identify router components such as Ethernet and Serial Interfaces, Console and Auxiliary ports, RAM, NVRAM, and ROM memory.
	2013-14 (Spring 2014)	ECC: CIS 18	Systems Analysis and Design	SLO #1 Interview Techniques	Use effective interview techniques to gain an understanding of the company computer system's current data inputs, outputs, and processes.
	2013-14 (Spring 2014)	ECC: CIS 26	Using Microsoft Excel	SLO #1 Spreadsheets	Given an in-class assignment, construct an accurate and complete spreadsheet that demonstrates appropriate formatting and fundamental math calculations.
2013-14 (Spring 2014)	ECC: CIS 28	Database Management	SLO #1 Concepts and Terms	Understand database concepts and terminology.	

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	2013-14 (Spring 2014)	ECC: CIS 28	using Microsoft Access	SLO #1 Concepts and Terms	Understand database concepts and terminology.
	2013-14 (Spring 2014)	ECC: CIS 28	Database Management using Microsoft Access	SLO #2 Table Structures	Design, create, and modify table structures and relationships. Modify tables to include default values, validation rules, input masks, and indices.
	2013-14 (Spring 2014)	ECC: CIS 30	Introduction to eCommerce	SLO #1 e-Business Plan	By the end of the course, students will develop and present a business plan for an eCommerce company with the functionality of selling goods or services.
	2013-14 (Spring 2014)	ECC: CIS 30	Introduction to eCommerce	SLO #2 Mobile	Compare and contrast various mobile technologies that are currently being used to conduct online business.
	2013-14 (Spring 2014)	ECC: CIS 30	Introduction to eCommerce	SLO #3 Software	Understand the basic and advanced functions of eCommerce software.
	2014-15 (Fall 2014)	ECC: CIS 13	Computer Information Systems	SLO #1 Applicability	Solve common business problems using appropriate information technology applications and systems design and developmental tools.
	2014-15 (Fall 2014)	ECC: CIS 140	Data Communications CISCO 1	SLO #1 Data Communication Terms	Describe and explain data communication terms such as broadband and baseband communications.
	2014-15 (Fall 2014)	ECC: CIS 140	Data Communications CISCO 1	SLO #2 Modulation Techniques	Describe and use different modulation techniques such as time-division and frequency division.
	2014-15 (Fall 2014)	ECC: CIS 140	Data Communications CISCO 1	SLO #3 Network Systems	Analyze and design network systems using differing transmission methods such as copper wire, fiber optics, microwave and satellite.
	2014-15 (Fall 2014)	ECC: CIS 140	Data Communications CISCO 1	SLO #4 Communications with the Internet	Use microcomputer hardware and software to facilitate communications with the Internet. Describe how microcomputer hardware relates to data communications. Analyze security issues such as protections, detection and correction.
	2014-15 (Fall 2014)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #1 Internet Working Modules	Define and discuss internetworking models. Determine appropriate paths for internetworking.
	2014-15 (Fall 2014)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #2 User Interfaces	Install user interfaces.
	2014-15 (Fall 2014)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #3 Router Issues	List basic router issues. Describe serial connections for wide area networking. Auto install router configurations.
	2014-15 (Fall 2014)	ECC: CIS 18	Systems Analysis and Design	SLO #1 Interview Techniques	Use effective interview techniques to gain an understanding of the company computer system's current data inputs, outputs, and processes.
	2014-15 (Fall 2014)	ECC: CIS 18	Systems Analysis and Design	SLO #2 Graphical Models	Understand how 1) data flow diagrams visually illustrate the way data moves through a company's information system, and 2) entity-relationship diagrams serve as a graphical model that depict the relationships among the entities of a company's information system.
	2014-15 (Fall 2014)	ECC: CIS 18	Systems Analysis and Design	SLO #3 Logical Design Documents	Prepare logical design documentation for a company's new or modified computer system that includes a systems requirements document and a systems design specification.

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	2014-15 (Fall 2014)	ECC: CIS 26	Using Microsoft Excel	SLO #1 Spreadsheets	Given an in-class assignment, construct an accurate and complete spreadsheet that demonstrates appropriate formatting and fundamental math calculations.
	2014-15 (Fall 2014)	ECC: CIS 26	Using Microsoft Excel	SLO #2 External References	Given an in-class assignment, construct an accurate and complete spreadsheet that demonstrates math calculations and lookups that include external references.
	2014-15 (Fall 2014)	ECC: CIS 26	Using Microsoft Excel	SLO #3 Conditional Formatting	Given an in-class assignment, modify an existing spreadsheet to include conditional numeric formatting involving mathematical states (positive, negative and zero), and conditional logic involving day and time calculations.
	2014-15 (Fall 2014)	ECC: CIS 26	Using Microsoft Excel	SLO #4 Testing for Logic and Errors	Given an in-class assignment, demonstrate proficiency in array processing of spreadsheet formulas, table structures, and database ("D") functions.
	2014-15 (Fall 2014)	ECC: CIS 26	Using Microsoft Excel	SLO #5 Spreadsheet Formulas	Demonstrate comprehension of spreadsheet formulas, functions, internal and external referencing, range naming, charting, absolute and relative referencing, and conditional formatting.
	2014-15 (Fall 2014)	ECC: CIS 26	Using Microsoft Excel	SLO #6 Spreadsheet Operations	Demonstrate comprehension of multi-dimensional table structures, basic macro construction, and consolidations by name and by position.
	2014-15 (Fall 2014)	ECC: CIS 28	Database Management using Microsoft Access	SLO #3 Queries	Create single-table and multi-table queries. Use queries to perform calculations on data contained in tables.
	2014-15 (Fall 2014)	ECC: CIS 28	Database Management using Microsoft Access	SLO #4 Creating Forms	Create forms for viewing, entering, and editing data.
	2014-15 (Fall 2014)	ECC: CIS 40	Personal Computer Support and Networking	SLO #2 PC Boot Problems	Students will be able to solve a PC boot problem, given a set of circumstances that occur once the power button is pressed. Using a BIOS software troubleshooting flowchart, they will be able to determine which BIOS process is causing the failure.
	2014-15 (Fall 2014)	ECC: CIS 40	Personal Computer Support and Networking	SLO #3 Installation	Students will be able to install a windows operating system. They will install the operating system, service packs, video and audio drivers, and configure the hardware resources.
	2014-15 (Spring 2015)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #1 Developing an E-Commerce Software Application for the Web	The student will demonstrate the ability to create an e-commerce website using ASP.NET and C+. Given detailed specifications and example code, create a functioning e-commerce website that includes: a) a market-competitive user interface, b) a shopping cart, c) product recommendations, d) an order pipeline to follow the order process, e) a database which includes customers, products with product attributes, orders,audit, order, inventory, and product recommendation information, and search capability.
	2014-15 (Spring 2015)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #2 SQL, C+ and ASP.NET	Demonstrate knowledge of e-commerce development programming language usage.
	2014-15 (Spring 2015)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #3 Website Planning	Demonstrate project design and management of a complete e-commerce website including the use of requirements document,

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	2014-15 (Spring 2015)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #3 Website Planning	database and class diagrams, use case definitions, flowcharts, cross-functional flowcharts, site maps, user controls, classes and timelines.
	2014-15 (Spring 2015)	ECC: CIS 136	Building Mobile Apps	SLO #1 Understanding Mobile Frameworks	Students will be able to understand the different types of application frameworks used to develop mobile applications.
	2014-15 (Spring 2015)	ECC: CIS 136	Building Mobile Apps	SLO #2 Designing Mobile User Interfaces	Students will be able to design and create effective mobile application user interfaces.
	2014-15 (Spring 2015)	ECC: CIS 136	Building Mobile Apps	SLO #3 Developing Mobile Applications	Students will be able to architect, develop, test, and debug mobile applications that display various types of digital media, manage data, and use the native features of a mobile device.
	2014-15 (Spring 2015)	ECC: CIS 136	Building Mobile Apps	SLO #4 Marketing Mobile Applications	Students will understand how to deploy a mobile app to the app marketplace.
	2014-15 (Spring 2015)	ECC: CIS 140	Data Communications CISCO 1	SLO #1 Data Communication Terms	Describe and explain data communication terms such as broadband and baseband communications.
	2014-15 (Spring 2015)	ECC: CIS 140	Data Communications CISCO 1	SLO #2 Modulation Techniques	Describe and use different modulation techniques such as time-division and frequency division.
	2014-15 (Spring 2015)	ECC: CIS 140	Data Communications CISCO 1	SLO #3 Network Systems	Analyze and design network systems using differing transmission methods such as copper wire, fiber optics, microwave and satellite.
	2014-15 (Spring 2015)	ECC: CIS 140	Data Communications CISCO 1	SLO #4 Communications with the Internet	Use microcomputer hardware and software to facilitate communications with the Internet. Describe how microcomputer hardware relates to data communications. Analyze security issues such as protections, detection and correction.
	2014-15 (Spring 2015)	ECC: CIS 140	Data Communications CISCO 1	SLO #5 Local and Wide Area Networks	Describe and define the similarities and differences between local area and wide area networks.
	2014-15 (Spring 2015)	ECC: CIS 140	Data Communications CISCO 1	SLO #6 Ethical Considerations	Identify ethical considerations such as privacy, hacking, and piracy.
	2014-15 (Spring 2015)	ECC: CIS 141	Networking Microcomputers CISCO 2	SLO #3 Functions of the TCP/IP	Identify the functions of the TCP/IP transport-layer protocols.
	2014-15 (Spring 2015)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #2 Router Hardware Configuration	Create valid router hardware configurations using proper router protocols, IP addressing, interface addressing, and network address identification.
	2014-15 (Spring 2015)	ECC: CIS 18	Systems Analysis and Design	SLO #2 Graphical Models	Understand how 1) data flow diagrams visually illustrate the way data moves through a company's information system, and 2) entity-relationship diagrams serve as a graphical model that depict the relationships among the entities of a company's information system.
	2014-15 (Spring 2015)	ECC: CIS 18	Systems Analysis and Design	SLO #3 Logical Design Documents	Prepare logical design documentation for a company's new or modified computer system that includes a systems requirements document and a systems design specification.
	2014-15 (Spring 2015)	ECC: CIS 26	Using Microsoft Excel	SLO #3 Conditional	Given an in-class assignment, modify an existing spreadsheet to

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	2014-15 (Spring 2015)	ECC: CIS 26	Using Microsoft Excel	Formatting	include conditional numeric formatting involving mathematical states (positive, negative and zero), and conditional logic involving day and time calculations.
	2014-15 (Spring 2015)	ECC: CIS 26	Using Microsoft Excel	SLO #4 Testing for Logic and Errors	Given an in-class assignment, demonstrate proficiency in array processing of spreadsheet formulas, table structures, and database ("D") functions.
	2014-15 (Spring 2015)	ECC: CIS 26	Using Microsoft Excel	SLO #6 Spreadsheet Operations	Demonstrate comprehension of multi-dimensional table structures, basic macro construction, and consolidations by name and by position.
	2014-15 (Spring 2015)	ECC: CIS 28	Database Management using Microsoft Access	SLO #4 Creating Forms	Create forms for viewing, entering, and editing data.
	2015-16 (Fall 2015)	ECC: CIS 13	Computer Information Systems	SLO #1 Applicability	Solve common business problems using appropriate information technology applications and systems design and developmental tools.
	2015-16 (Fall 2015)	ECC: CIS 13	Computer Information Systems	SLO #2 System Development Process	Demonstrate an understanding of the system development process and use of information systems within an organization.
	2015-16 (Fall 2015)	ECC: CIS 13	Computer Information Systems	SLO #3 Communications	Identify and analyze existing and emerging technologies and their impact on organizations and society including communication and global relationships.
	2015-16 (Fall 2015)	ECC: CIS 13	Computer Information Systems	SLO #4 Networking	Demonstrate knowledge of network configurations, risk management and security protocols.
	2015-16 (Fall 2015)	ECC: CIS 133	Mashup JavaScript, jQuery and AJAX	SLO #2 Incorporating Data in Client-Side Programs	Students will demonstrate their ability to incorporate client side data storage and transmission techniques using cookies, hidden form fields, querystrings, eXtensible Markup language (XML), JavaScript Object Notation (JSON), and Asynchronous JavaScript and XML (AJAX).
	2015-16 (Fall 2015)	ECC: CIS 140	Data Communications CISCO 1	SLO #4 Communications with the Internet	Use microcomputer hardware and software to facilitate communications with the Internet. Describe how microcomputer hardware relates to data communications. Analyze security issues such as protections, detection and correction.
	2015-16 (Fall 2015)	ECC: CIS 141	Networking Microcomputers CISCO 2	SLO #2 Basic Methods	Define flow control and describe the three basic methods used in connection oriented networking.
	2015-16 (Fall 2015)	ECC: CIS 141	Networking Microcomputers CISCO 2	SLO #4 Comparing Protocols	Compare TCP/IP protocols to the ISO reference model layer four.
	2015-16 (Fall 2015)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #4 Configuring Routers	Configure hardware and software for routers to use both LAN and WAN protocols.
	2015-16 (Fall 2015)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #5 Configuring Protocols	Configure TCP/IP and AppleTalk protocols. Manage traffic with access lists.
	2015-16 (Fall 2015)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #1 Creating an Interface	Creating an application using the fundamental concepts and models of application development including program design techniques, data structures, programming, problem solving and programming and business function logic.

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	2015-16 (Fall 2015)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #2 Application Development	Demonstrate well-written, logical, and readable programs using a disciplined coding system and professional project planning and management methodology, including requirements document, event planning, flow charts, site maps, timelines, Gantt charts, data diagrams, user case documents, testing and debugging.
	2015-16 (Fall 2015)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #3 Software Development Environment	Identify and describe issues involved with software development including ethical conduct, business strategies, social media use, copyright laws and business practices.
	2015-16 (Fall 2015)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #4 Data Driven Application	Create an application utilizing a database to store, modify, delete and retrieve database information for viewing and decision making.
	2015-16 (Fall 2015)	ECC: CIS 26	Using Microsoft Excel	SLO #4 Testing for Logic and Errors	Given an in-class assignment, demonstrate proficiency in array processing of spreadsheet formulas, table structures, and database ("D") functions.
	2015-16 (Spring 2016)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #1 Developing an E-Commerce Software Application for the Web	The student will demonstrate the ability to create an e-commerce website using ASP.NET and C+. Given detailed specifications and example code, create a functioning e-commerce website that includes: a) a market-competitive user interface, b) a shopping cart, c) product recommendations, d) an order pipeline to follow the order process, e) a database which includes customers, products with product attributes, orders,audit, order, inventory, and product recommendation information, and search capability.
	2015-16 (Spring 2016)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #2 SQL, C+ and ASP.NET	Demonstrate knowledge of e-commerce development programming language usage.
	2015-16 (Spring 2016)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #3 Website Planning	Demonstrate project design and management of a complete e-commerce website including the use of requirements document, database and class diagrams, use case definitions, flowcharts, cross-functional flowcharts, site maps, user controls, classes and timelines.
	2015-16 (Spring 2016)	ECC: CIS 136	Building Mobile Apps	SLO #1 Understanding Mobile Frameworks	Students will be able to understand the different types of application frameworks used to develop mobile applications.
	2015-16 (Spring 2016)	ECC: CIS 136	Building Mobile Apps	SLO #2 Designing Mobile User Interfaces	Students will be able to design and create effective mobile application user interfaces.
	2015-16 (Spring 2016)	ECC: CIS 136	Building Mobile Apps	SLO #3 Developing Mobile Applications	Students will be able to architect, develop, test, and debug mobile applications that display various types of digital media, manage data, and use the native features of a mobile device.
	2015-16 (Spring 2016)	ECC: CIS 136	Building Mobile Apps	SLO #4 Marketing Mobile Applications	Students will understand how to deploy a mobile app to the app marketplace.
	2015-16 (Spring 2016)	ECC: CIS 140	Data Communications CISCO 1	SLO #5 Local and Wide Area Networks	Describe and define the similarities and differences between local area and wide area networks.
	2015-16 (Spring 2016)	ECC: CIS 141	Networking	SLO #5 ICMP Functions	Identify the functions performed by ICMP.

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	2015-16 (Spring 2016)	ECC: CIS 141	Microcomputers CISCO 2	SLO #5 ICMP Functions	Identify the functions performed by ICMP.
	2015-16 (Spring 2016)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #1 Router Components	Identify router components such as Ethernet and Serial Interfaces, Console and Auxiliary ports, RAM, NVRAM, and ROM memory.
	2015-16 (Spring 2016)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #2 Router Hardware Configuration	Create valid router hardware configurations using proper router protocols, IP addressing, interface addressing, and network address identification.
	2015-16 (Spring 2016)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #3 Router Design of LANs and WANs	Install and configure routers for design of LANs and WANs.
	2015-16 (Spring 2016)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #4 Periodic Maintenance	Perform periodic maintenance on routers by logging into the console port and testing IOS, the configuration file, and the status of each interface.
	2015-16 (Spring 2016)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #5 Troubleshooting	Troubleshoot malfunctioning routers by examining the status of the POST test, the interface status, the IP status, and the status of the time-to-live facility.
	2015-16 (Spring 2016)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #6 New Version of CISCO	Download and install a new version of the CISCO Internetworking Operating system software.
	2015-16 (Spring 2016)	ECC: CIS 18	Systems Analysis and Design	SLO #2 Graphical Models	Understand how 1) data flow diagrams visually illustrate the way data moves through a company's information system, and 2) entity-relationship diagrams serve as a graphical model that depict the relationships among the entities of a company's information system.
	2015-16 (Spring 2016)	ECC: CIS 18	Systems Analysis and Design	SLO #3 Logical Design Documents	Prepare logical design documentation for a company's new or modified computer system that includes a systems requirements document and a systems design specification.
	2015-16 (Spring 2016)	ECC: CIS 2	Office Applications	SLO #1 Basic Windows Operations	Students will be able to utilize the Windows operating system and file management tool to manage files, folders and storage media.
	2015-16 (Spring 2016)	ECC: CIS 2	Office Applications	SLO #2 Introduction to Word processing	Students will be able to create, save, copy, modify and format a word processing document. Students will also be able to create documents using advanced features of Word such as mail merge, document collaboration and multipage reports.
	2015-16 (Spring 2016)	ECC: CIS 2	Office Applications	SLO #3 Basic Spreadsheet and Presentation Development	Students will be able to create, save, copy, modify and format a spreadsheet worksheet, create formulas and charts, and design presentation slides.
	2015-16 (Spring 2016)	ECC: CIS 2	Office Applications	SLO #4 Basic Email and Contact Management	Students will be able to send/receive email, schedule calendar events, manage tasks, manage contacts, take notes and create a journal.
	2015-16 (Spring 2016)	ECC: CIS 26	Using Microsoft Excel	SLO #1 Spreadsheets	Given an in-class assignment, construct an accurate and complete spreadsheet that demonstrates appropriate formatting and fundamental math calculations.

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	2015-16 (Spring 2016)	ECC: CIS 26	Using Microsoft Excel	SLO #2 External References	Given an in-class assignment, construct an accurate and complete spreadsheet that demonstrates math calculations and lookups that include external references.
	2015-16 (Spring 2016)	ECC: CIS 26	Using Microsoft Excel	SLO #3 Conditional Formatting	Given an in-class assignment, modify an existing spreadsheet to include conditional numeric formatting involving mathematical states (positive, negative and zero), and conditional logic involving day and time calculations.
	2015-16 (Spring 2016)	ECC: CIS 26	Using Microsoft Excel	SLO #4 Testing for Logic and Errors	Given an in-class assignment, demonstrate proficiency in array processing of spreadsheet formulas, table structures, and database (“D”) functions.
	2015-16 (Spring 2016)	ECC: CIS 26	Using Microsoft Excel	SLO #5 Spreadsheet Formulas	Demonstrate comprehension of spreadsheet formulas, functions, internal and external referencing, range naming, charting, absolute and relative referencing, and conditional formatting.
	2015-16 (Spring 2016)	ECC: CIS 26	Using Microsoft Excel	SLO #6 Spreadsheet Operations	Demonstrate comprehension of multi-dimensional table structures, basic macro construction, and consolidations by name and by position.
	2015-16 (Spring 2016)	ECC: CIS 28	Database Management using Microsoft Access	SLO #1 Concepts and Terms	Understand database concepts and terminology.
	2015-16 (Spring 2016)	ECC: CIS 30	Introduction to eCommerce	SLO #1 e-Business Plan	By the end of the course, students will develop and present a business plan for an eCommerce company with the functionality of selling goods or services.
	2015-16 (Spring 2016)	ECC: CIS 30	Introduction to eCommerce	SLO #2 Mobile	Compare and contrast various mobile technologies that are currently being used to conduct online business.
	2016-17 (Fall 2016)	ECC: CIS 11	Help Desk Operations	SLO #1 Dealing with Customers	Identify the communication strategies to build rapport and trust with customers and the proven techniques to handle irate, difficult and demanding customers.
	2016-17 (Fall 2016)	ECC: CIS 11	Help Desk Operations	SLO #2 Help Desk Operations	Identify the major steps in the Incident Management process.
	2016-17 (Fall 2016)	ECC: CIS 11	Help Desk Operations	SLO #3 Technical Writing	Develop and create examples of end-user support documentation using enhancements including diagrams, images, and screen captures in order to produce user guides and FAQs.
	2016-17 (Fall 2016)	ECC: CIS 11	Help Desk Operations	SLO #4 Managing Knowledge Resources	Demonstrate the use of software tools used to manage knowledge resources relating to end-user technical support.
	2016-17 (Fall 2016)	ECC: CIS 11	Help Desk Operations	SLO #5 Management	Understand and evaluate the needs of the users in an organization, the cost and benefit of fulfilling the needs, and the staffing and training of the help desk to properly support the organization.
	2016-17 (Fall 2016)	ECC: CIS 11	Help Desk Operations	SLO #6 Professional Protocol	Understand the mission of the help desk in an organization, and the professional responsibilities and skills required of a help desk technician.



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	2016-17 (Fall 2016)	ECC: CIS 133	Mashup JavaScript, jQuery and AJAX	SLO #3 Developing a Software Application for the Web	Students will demonstrate the ability to create an e-commerce website that includes a fully functioning shopping cart and checkout/payment process, using a web development approach that incorporates planning, designing, coding, testing, and publishing to a web server.
	2016-17 (Fall 2016)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #1 Internet Working Modules	Define and discuss internetworking models. Determine appropriate paths for internetworking.
	2016-17 (Fall 2016)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #2 User Interfaces	Install user interfaces.
	2016-17 (Fall 2016)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #3 Router Issues	List basic router issues. Describe serial connections for wide area networking. Auto install router configurations.
	2016-17 (Fall 2016)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #1 Creating an Interface	Creating an application using the fundamental concepts and models of application development including program design techniques, data structures, programming, problem solving and programming and business function logic.
	2016-17 (Fall 2016)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #2 Application Development	Demonstrate well-written, logical, and readable programs using a disciplined coding system and professional project planning and management methodology, including requirements document, event planning, flow charts, site maps, timelines, Gantt charts, data diagrams, user case documents, testing and debugging.
	2016-17 (Fall 2016)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #3 Software Development Environment	Identify and describe issues involved with software development including ethical conduct, business strategies, social media use, copyright laws and business practices.
	2016-17 (Fall 2016)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #4 Data Driven Application	Create an application utilizing a database to store, modify, delete and retrieve database information for viewing and decision making.
	2016-17 (Fall 2016)	ECC: CIS 28	Database Management using Microsoft Access	SLO #3 Queries	Create single-table and multi-table queries. Use queries to perform calculations on data contained in tables.
	2016-17 (Fall 2016)	ECC: CIS 40	Personal Computer Support and Networking	SLO #2 PC Boot Problems	Students will be able to solve a PC boot problem, given a set of circumstances that occur once the power button is pressed. Using a BIOS software troubleshooting flowchart, they will be able to determine which BIOS process is causing the failure.
	2016-17 (Fall 2016)	ECC: CIS 40	Personal Computer Support and Networking	SLO #3 Installation	Students will be able to install a windows operating system. They will install the operating system, service packs, video and audio drivers, and configure the hardware resources.
	2016-17 (Spring 2017)	ECC: CIS 13	Computer Information Systems	SLO #1 Applicability	Solve common business problems using appropriate information technology applications and systems design and developmental tools.
	2016-17 (Spring 2017)	ECC: CIS 13	Computer Information Systems	SLO #2 System Development Process	Demonstrate an understanding of the system development process and use of information systems within an organization.
	2016-17 (Spring 2017)	ECC: CIS 13	Computer Information Systems	SLO #3 Communications	Identify and analyze existing and emerging technologies and their impact on organizations and society including communication and

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	2016-17 (Spring 2017)	ECC: CIS 13	Computer Information Systems	SLO #3 Communications	global relationships.
	2016-17 (Spring 2017)	ECC: CIS 13	Computer Information Systems	SLO #4 Networking	Demonstrate knowledge of network configurations, risk management and security protocols.
	2016-17 (Spring 2017)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #1 Developing an E-Commerce Software Application for the Web	The student will demonstrate the ability to create an e-commerce website using ASP.NET and C+. Given detailed specifications and example code, create a functioning e-commerce website that includes: a) a market-competitive user interface, b) a shopping cart, c) product recommendations, d) an order pipeline to follow the order process, e) a database which includes customers, products with product attributes, orders,audit, order, inventory, and product recommendation information, and search capability.
	2016-17 (Spring 2017)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #2 SQL, C+ and ASP.NET	Demonstrate knowledge of e-commerce development programming language usage.
	2016-17 (Spring 2017)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #3 Website Planning	Demonstrate project design and management of a complete e-commerce website including the use of requirements document, database and class diagrams, use case definitions, flowcharts, cross-functional flowcharts, site maps, user controls, classes and timelines.
	2016-17 (Spring 2017)	ECC: CIS 136	Building Mobile Apps	SLO #1 Understanding Mobile Frameworks	Students will be able to understand the different types of application frameworks used to develop mobile applications.
	2016-17 (Spring 2017)	ECC: CIS 136	Building Mobile Apps	SLO #2 Designing Mobile User Interfaces	Students will be able to design and create effective mobile application user interfaces.
	2016-17 (Spring 2017)	ECC: CIS 136	Building Mobile Apps	SLO #3 Developing Mobile Applications	Students will be able to architect, develop, test, and debug mobile applications that display various types of digital media, manage data, and use the native features of a mobile device.
	2016-17 (Spring 2017)	ECC: CIS 136	Building Mobile Apps	SLO #4 Marketing Mobile Applications	Students will understand how to deploy a mobile app to the app marketplace.
	2016-17 (Spring 2017)	ECC: CIS 140	Data Communications CISCO 1	SLO #1 Data Communication Terms	Describe and explain data communication terms such as broadband and baseband communications.
	2016-17 (Spring 2017)	ECC: CIS 140	Data Communications CISCO 1	SLO #2 Modulation Techniques	Describe and use different modulation techniques such as time-division and frequency division.
	2016-17 (Spring 2017)	ECC: CIS 141	Networking Microcomputers CISCO 2	SLO #6 Routing Type Problems	List problems that each routing type encounters when dealing with topology changes, and describe techniques used to reduce the number of these problems.
	2016-17 (Spring 2017)	ECC: CIS 18	Systems Analysis and Design	SLO #3 Logical Design Documents	Prepare logical design documentation for a company's new or modified computer system that includes a systems requirements document and a systems design specification.
	2016-17 (Spring 2017)	ECC: CIS 2	Office Applications	SLO #1 Basic Windows Operations	Students will be able to utilize the Windows operating system and file management tool to manage files, folders and storage media.
	2016-17 (Spring 2017)	ECC: CIS 26	Using Microsoft Excel	SLO #6 Spreadsheet	Demonstrate comprehension of multi-dimensional table structures,

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2016-17 (Spring 2017)	ECC: CIS 26	Using Microsoft Excel	Operations	basic macro construction, and consolidations by name and by position.
	2016-17 (Spring 2017)	ECC: CIS 28	Database Management using Microsoft Access	SLO #2 Table Structures	Design, create, and modify table structures and relationships. Modify tables to include default values, validation rules, input masks, and indices.
	2017-18 (Fall 2017)	ECC: CIS 11	Help Desk Operations	SLO #1 Dealing with Customers	Identify the communication strategies to build rapport and trust with customers and the proven techniques to handle irate, difficult and demanding customers.
	2017-18 (Fall 2017)	ECC: CIS 119	Computer Security and Forensics	SLO #1	Demonstrate the knowledge necessary to create a secure computer environment.
	2017-18 (Fall 2017)	ECC: CIS 119	Computer Security and Forensics	SLO #2	Apply the concepts of cybersecurity and the regulatory standards and compliances to a computer installation.
	2017-18 (Fall 2017)	ECC: CIS 119	Computer Security and Forensics	SLO #3	Define Firewall and intrusion detection and identify the needed countermeasures.
	2017-18 (Fall 2017)	ECC: CIS 119	Computer Security and Forensics	SLO #4	Demonstrate an understanding of the processes and goals of a cyberforensics investigation.
	2017-18 (Fall 2017)	ECC: CIS 13	Computer Information Systems	SLO #2 System Development Process	Demonstrate an understanding of the system development process and use of information systems within an organization.
	2017-18 (Fall 2017)	ECC: CIS 13	Computer Information Systems	SLO #3 Communications	Identify and analyze existing and emerging technologies and their impact on organizations and society including communication and global relationships.
	2017-18 (Fall 2017)	ECC: CIS 13	Computer Information Systems	SLO #4 Networking	Demonstrate knowledge of network configurations, risk management and security protocols.
	2017-18 (Fall 2017)	ECC: CIS 133	Mashup JavaScript, jQuery and AJAX	SLO #1 Fundamental Concepts of Client-Side Programming	Students will demonstrate their ability to bring excitement to web pages using the fundamental components in the JavaScript programming language, including form data validation techniques, event handling using functions, timers, and control structures, repetitive programming methods, objects and object models, and the jQuery library.
	2017-18 (Fall 2017)	ECC: CIS 140	Data Communications CISCO 1	SLO #3 Network Systems	Analyze and design network systems using differing transmission methods such as copper wire, fiber optics, microwave and satellite.
	2017-18 (Fall 2017)	ECC: CIS 140	Data Communications CISCO 1	SLO #6 Ethical Considerations	Identify ethical considerations such as privacy, hacking, and piracy.
	2017-18 (Fall 2017)	ECC: CIS 141	Networking Microcomputers CISCO 2	SLO #2 Basic Methods	Define flow control and describe the three basic methods used in connection oriented networking.
	2017-18 (Fall 2017)	ECC: CIS 141	Networking Microcomputers CISCO 2	SLO #3 Functions of the TCP/IP	Identify the functions of the TCP/IP transport-layer protocols.
	2017-18 (Fall 2017)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #2 Application Development	Demonstrate well-written, logical, and readable programs using a disciplined coding system and professional project planning and management methodology, including requirements document,

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2017-18 (Fall 2017)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #2 Application Development	event planning, flow charts, site maps, timelines, Gantt charts, data diagrams, user case documents, testing and debugging.
	2017-18 (Fall 2017)	ECC: CIS 26	Using Microsoft Excel	SLO #5 Spreadsheet Formulas	Demonstrate comprehension of spreadsheet formulas, functions, internal and external referencing, range naming, charting, absolute and relative referencing, and conditional formatting.
	2017-18 (Fall 2017)	ECC: CIS 28	Database Management using Microsoft Access	SLO #4 Creating Forms	Create forms for viewing, entering, and editing data.
	2017-18 (Fall 2017)	ECC: CIS 29	Advanced Database Applications	SLO #1 Tables	Import and export tables for use in a database design.
	2017-18 (Fall 2017)	ECC: CIS 29	Advanced Database Applications	SLO #2 Queries	Create and modify complex, multi-table and crosstab queries.
	2017-18 (Fall 2017)	ECC: CIS 29	Advanced Database Applications	SLO #3 Forms	Create and customize complex forms for capturing and reporting. Use Forms as a menu system.
	2017-18 (Fall 2017)	ECC: CIS 29	Advanced Database Applications	SLO #4 Macros	Create and run MACROS.
	2017-18 (Fall 2017)	ECC: CIS 29	Advanced Database Applications	SLO #5 Design	Design and develop a working database using Access.
	2017-18 (Fall 2017)	ECC: CIS 30	Introduction to eCommerce	SLO #2 Mobile	Compare and contrast various mobile technologies that are currently being used to conduct online business.
	2017-18 (Spring 2018)	ECC: CIS 13	Computer Information Systems	SLO #1 Applicability	Solve common business problems using appropriate information technology applications and systems design and developmental tools.
	2017-18 (Spring 2018)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #2 SQL, C+ and ASP.NET	Demonstrate knowledge of e-commerce development programming language usage.
	2017-18 (Spring 2018)	ECC: CIS 136	Building Mobile Apps	SLO #2 Designing Mobile User Interfaces	Students will be able to design and create effective mobile application user interfaces.
	2017-18 (Spring 2018)	ECC: CIS 18	Systems Analysis and Design	SLO #2 Graphical Models	Understand how 1) data flow diagrams visually illustrate the way data moves through a company's information system, and 2) entity-relationship diagrams serve as a graphical model that depict the relationships among the entities of a company's information system.
	2017-18 (Spring 2018)	ECC: CIS 2	Office Applications	SLO #2 Introduction to Word processing	Students will be able to create, save, copy, modify and format a word processing document. Students will also be able to create documents using advanced features of Word such as mail merge, document collaboration and multipage reports.
	2017-18 (Spring 2018)	ECC: CIS 26	Using Microsoft Excel	SLO #4 Testing for Logic and Errors	Given an in-class assignment, demonstrate proficiency in array processing of spreadsheet formulas, table structures, and database ("D") functions.
	2018-19 (Fall 2018)	ECC: CIS 11	Help Desk Operations	SLO #2 Help Desk Operations	Identify the major steps in the Incident Management process.

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2018-19 (Fall 2018)	ECC: CIS 119	Computer Security and Forensics	SLO #1	Demonstrate the knowledge necessary to create a secure computer environment.
	2018-19 (Fall 2018)	ECC: CIS 122	Ethical Hacking	SLO #1 Identify and Analyze Steps	Identify and analyze the steps an ethical hacker would take in order to compromise a target system.
	2018-19 (Fall 2018)	ECC: CIS 122	Ethical Hacking	SLO #2 Identify Tools and Techniques	Identify the tools and techniques used to carry out a penetration testing.
	2018-19 (Fall 2018)	ECC: CIS 122	Ethical Hacking	SLO #3 Assess Potential Vulnerabilities	Assess potential vulnerabilities in a network security system within executable programs or within network protocols.
	2018-19 (Fall 2018)	ECC: CIS 122	Ethical Hacking	SLO #4 Understand Basic Techniques	Understand the basic techniques for gaining unauthorized access into a network and computer system using both technical and non-technical means.
	2018-19 (Fall 2018)	ECC: CIS 13	Computer Information Systems	SLO #2 System Development Process	Demonstrate an understanding of the system development process and use of information systems within an organization.
	2018-19 (Fall 2018)	ECC: CIS 13	Computer Information Systems	SLO #3 Communications	Identify and analyze existing and emerging technologies and their impact on organizations and society including communication and global relationships.
	2018-19 (Fall 2018)	ECC: CIS 13	Computer Information Systems	SLO #4 Networking	Demonstrate knowledge of network configurations, risk management and security protocols.
	2018-19 (Fall 2018)	ECC: CIS 133	Mashup JavaScript, jQuery and AJAX	SLO #2 Incorporating Data in Client-Side Programs	Students will demonstrate their ability to incorporate client side data storage and transmission techniques using cookies, hidden form fields, querystrings, eXtensible Markup language (XML), JavaScript Object Notation (JSON), and Asynchronous JavaScript and XML (AJAX).
	2018-19 (Fall 2018)	ECC: CIS 140	Data Communications CISCO 1	SLO #4 Communications with the Internet	Use microcomputer hardware and software to facilitate communications with the Internet. Describe how microcomputer hardware relates to data communications. Analyze security issues such as protections, detection and correction.
	2018-19 (Fall 2018)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #3 Software Development Environment	Identify and describe issues involved with software development including ethical conduct, business strategies, social media use, copyright laws and business practices.
	2018-19 (Fall 2018)	ECC: CIS 19	Internet, Social Networking, and the Web	SLO #2 Social Media Campaign	Design and develop the plan for a business social media campaign.
	2018-19 (Fall 2018)	ECC: CIS 26	Using Microsoft Excel	SLO #3 Conditional Formatting	Given an in-class assignment, modify an existing spreadsheet to include conditional numeric formatting involving mathematical states (positive, negative and zero), and conditional logic involving day and time calculations.
	2018-19 (Fall 2018)	ECC: CIS 28	Database Management using Microsoft Access	SLO #2 Table Structures	Design, create, and modify table structures and relationships. Modify tables to include default values, validation rules, input masks, and indices.
	2018-19 (Fall 2018)	ECC: CIS 40	Personal Computer Support and Networking	SLO #2 PC Boot Problems	Students will be able to solve a PC boot problem, given a set of circumstances that occur once the power button is pressed. Using a BIOS software troubleshooting flowchart, they will be able to

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2018-19 (Fall 2018)	ECC: CIS 40	Personal Computer Support and Networking	SLO #2 PC Boot Problems	determine which BIOS process is causing the failure.
	2018-19 (Spring 2019)	ECC: CIS 13	Computer Information Systems	SLO #1 Applicability	Solve common business problems using appropriate information technology applications and systems design and developmental tools.
	2018-19 (Spring 2019)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #3 Website Planning	Demonstrate project design and management of a complete e-commerce website including the use of requirements document, database and class diagrams, use case definitions, flowcharts, cross-functional flowcharts, site maps, user controls, classes and timelines.
	2018-19 (Spring 2019)	ECC: CIS 136	Building Mobile Apps	SLO #3 Developing Mobile Applications	Students will be able to architect, develop, test, and debug mobile applications that display various types of digital media, manage data, and use the native features of a mobile device.
	2018-19 (Spring 2019)	ECC: CIS 141	Networking Microcomputers CISCO 2	SLO #1 Connection and Connection-less Oriented Networks	Describe connection-oriented network services and connectionless-oriented network services and identify their key differences.
	2018-19 (Spring 2019)	ECC: CIS 18	Systems Analysis and Design	SLO #1 Interview Techniques	Use effective interview techniques to gain an understanding of the company computer system's current data inputs, outputs, and processes.
	2018-19 (Spring 2019)	ECC: CIS 2	Office Applications	SLO #3 Basic Spreadsheet and Presentation Development	Students will be able to create, save, copy, modify and format a spreadsheet worksheet, create formulas and charts, and design presentation slides.
	2018-19 (Spring 2019)	ECC: CIS 26	Using Microsoft Excel	SLO #2 External References	Given an in-class assignment, construct an accurate and complete spreadsheet that demonstrates math calculations and lookups that include external references.
	2018-19 (Spring 2019)	ECC: CIS 80	Oracle Application Programming	SLO #1 Tables and Relationships	Design and develop tables and relationships for common business problems.
	2019-20 (Fall 2019)	ECC: CIS 11	Help Desk Operations	SLO #3 Technical Writing	Develop and create examples of end-user support documentation using enhancements including diagrams, images, and screen captures in order to produce user guides and FAQs.
	2019-20 (Fall 2019)	ECC: CIS 11	Help Desk Operations	SLO #5 Management	Understand and evaluate the needs of the users in an organization, the cost and benefit of fulfilling the needs, and the staffing and training of the help desk to properly support the organization.
	2019-20 (Fall 2019)	ECC: CIS 119	Computer Security and Forensics	SLO #2	Apply the concepts of cybersecurity and the regulatory standards and compliances to a computer installation.
	2019-20 (Fall 2019)	ECC: CIS 120	Computer Forensics	SLO #1	Understand the role of the cybersecurity forensics investigator, and the concepts and terminology used in computer forensics.
	2019-20 (Fall 2019)	ECC: CIS 13	Computer Information Systems	SLO #2 System Development Process	Demonstrate an understanding of the system development process and use of information systems within an organization.
	2019-20 (Fall 2019)	ECC: CIS 13	Computer Information	SLO #3 Communications	Identify and analyze existing and emerging technologies and their

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2019-20 (Fall 2019)	ECC: CIS 13	Systems	SLO #3 Communications	impact on organizations and society including communication and global relationships.
	2019-20 (Fall 2019)	ECC: CIS 13	Computer Information Systems	SLO #4 Networking	Demonstrate knowledge of network configurations, risk management and security protocols.
	2019-20 (Fall 2019)	ECC: CIS 133	Mashup JavaScript, jQuery and AJAX	SLO #3 Developing a Software Application for the Web	Students will demonstrate the ability to create an e-commerce website that includes a fully functioning shopping cart and checkout/payment process, using a web development approach that incorporates planning, designing, coding, testing, and publishing to a web server.
	2019-20 (Fall 2019)	ECC: CIS 140	Data Communications CISCO 1	SLO #5 Local and Wide Area Networks	Describe and define the similarities and differences between local area and wide area networks.
	2019-20 (Fall 2019)	ECC: CIS 141	Networking Microcomputers CISCO 2	SLO #3 Functions of the TCP/IP	Identify the functions of the TCP/IP transport-layer protocols.
	2019-20 (Fall 2019)	ECC: CIS 141	Networking Microcomputers CISCO 2	SLO #4 Comparing Protocols	Compare TCP/IP protocols to the ISO reference model layer four.
	2019-20 (Fall 2019)	ECC: CIS 154	Compute Engines with AWS	SLO #1 AWS Global Infrastructure	Students will be able to demonstrate an understanding of the AWS Global Infrastructure.
	2019-20 (Fall 2019)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #4 Data Driven Application	Create an application utilizing a database to store, modify, delete and retrieve database information for viewing and decision making.
	2019-20 (Fall 2019)	ECC: CIS 19	Internet, Social Networking, and the Web	SLO #1 Social Media Privacy	Demonstrate an understanding of the privacy aspects of various social media platforms.
	2019-20 (Fall 2019)	ECC: CIS 26	Using Microsoft Excel	SLO #1 Spreadsheets	Given an in-class assignment, construct an accurate and complete spreadsheet that demonstrates appropriate formatting and fundamental math calculations.
	2019-20 (Fall 2019)	ECC: CIS 28	Database Management using Microsoft Access	SLO #1 Concepts and Terms	Understand database concepts and terminology.
	2019-20 (Fall 2019)	ECC: CIS 29	Advanced Database Applications	SLO #1 Tables	Import and export tables for use in a database design.
	2019-20 (Fall 2019)	ECC: CIS 29	Advanced Database Applications	SLO #2 Queries	Create and modify complex, multi-table and crosstab queries.
	2019-20 (Fall 2019)	ECC: CIS 30	Introduction to eCommerce	SLO #1 e-Business Plan	By the end of the course, students will develop and present a business plan for an eCommerce company with the functionality of selling goods or services.
	2019-20 (Fall 2019)	ECC: CIS 30	Introduction to eCommerce	SLO #3 Software	Understand the basic and advanced functions of eCommerce software.
	2019-20 (Fall 2019)	ECC: CIS 40	Personal Computer Support and Networking	SLO #3 Installation	Students will be able to install a windows operating system. They will install the operating system, service packs, video and audio drivers, and configure the hardware resources.
	2019-20 (Spring 2020)	ECC: CIS 13	Computer Information Systems	SLO #1 Applicability	Solve common business problems using appropriate information technology applications and systems design and developmental

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2019-20 (Spring 2020)	ECC: CIS 13	Computer Information Systems	SLO #1 Applicability	tools.
	2019-20 (Spring 2020)	ECC: CIS 134	ASP.NET with C# Business Web Programming	SLO #1 Developing an E-Commerce Software Application for the Web	The student will demonstrate the ability to create an e-commerce website using ASP.NET and C+. Given detailed specifications and example code, create a functioning e-commerce website that includes: a) a market-competitive user interface, b) a shopping cart, c) product recommendations, d) an order pipeline to follow the order process, e) a database which includes customers, products with product attributes, orders,audit, order, inventory, and product recommendation information, and search capability.
	2019-20 (Spring 2020)	ECC: CIS 136	Building Mobile Apps	SLO #4 Marketing Mobile Applications	Students will understand how to deploy a mobile app to the app marketplace.
	2019-20 (Spring 2020)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #1 Router Components	Identify router components such as Ethernet and Serial Interfaces, Console and Auxiliary ports, RAM, NVRAM, and ROM memory.
	2019-20 (Spring 2020)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #2 Router Hardware Configuration	Create valid router hardware configurations using proper router protocols, IP addressing, interface addressing, and network address identification.
	2019-20 (Spring 2020)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #3 Router Design of LANs and WANs	Install and configure routers for design of LANs and WANs.
	2019-20 (Spring 2020)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #4 Periodic Maintenance	Perform periodic maintenance on routers by logging into the console port and testing IOS, the configuration file, and the status of each interface.
	2019-20 (Spring 2020)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #5 Troubleshooting	Troubleshoot malfunctioning routers by examining the status of the POST test, the interface status, the IP status, and the status of the time-to-live facility.
	2019-20 (Spring 2020)	ECC: CIS 142	Local Area Network (LAN) Switching and Wireless - CISCO 3	SLO #6 New Version of CISCO	Download and install a new version of the CISCO Internetworking Operating system software.
	2019-20 (Spring 2020)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #1 Internet Working Modules	Define and discuss internetworking models. Determine appropriate paths for internetworking.
	2019-20 (Spring 2020)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #2 User Interfaces	Install user interfaces.
	2019-20 (Spring 2020)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #3 Router Issues	List basic router issues. Describe serial connections for wide area networking. Auto install router configurations.
	2019-20 (Spring 2020)	ECC: CIS 18	Systems Analysis and Design	SLO #3 Logical Design Documents	Prepare logical design documentation for a company's new or modified computer system that includes a systems requirements document and a systems design specification.
	2019-20 (Spring 2020)	ECC: CIS 2	Office Applications	SLO #4 Basic Email and Contact Management	Students will be able to send/receive email, schedule calendar events, manage tasks, manage contacts, take notes and create a journal.



Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2019-20 (Spring 2020)	ECC: CIS 26	Using Microsoft Excel	SLO #6 Spreadsheet Operations	Demonstrate comprehension of multi-dimensional table structures, basic macro construction, and consolidations by name and by position.
	2020-21 (Fall 2020)	ECC: CIS 11	Help Desk Operations	SLO #4 Managing Knowledge Resources	Demonstrate the use of software tools used to manage knowledge resources relating to end-user technical support.
	2020-21 (Fall 2020)	ECC: CIS 11	Help Desk Operations	SLO #6 Professional Protocol	Understand the mission of the help desk in an organization, and the professional responsibilities and skills required of a help desk technician.
	2020-21 (Fall 2020)	ECC: CIS 119	Computer Security and Forensics	SLO #3	Define Firewall and intrusion detection and identify the needed countermeasures.
	2020-21 (Fall 2020)	ECC: CIS 120	Computer Forensics	SLO #2	Demonstrate the ability to use forensics tools to gather and analyze data on a compromised computer system.
	2020-21 (Fall 2020)	ECC: CIS 122	Ethical Hacking	SLO #1 Identify and Analyze Steps	Identify and analyze the steps an ethical hacker would take in order to compromise a target system.
	2020-21 (Fall 2020)	ECC: CIS 122	Ethical Hacking	SLO #2 Identify Tools and Techniques	Identify the tools and techniques used to carry out a penetration testing.
	2020-21 (Fall 2020)	ECC: CIS 122	Ethical Hacking	SLO #3 Assess Potential Vulnerabilities	Assess potential vulnerabilities in a network security system within executable programs or within network protocols.
	2020-21 (Fall 2020)	ECC: CIS 122	Ethical Hacking	SLO #4 Understand Basic Techniques	Understand the basic techniques for gaining unauthorized access into a network and computer system using both technical and non-technical means.
	2020-21 (Fall 2020)	ECC: CIS 13	Computer Information Systems	SLO #2 System Development Process	Demonstrate an understanding of the system development process and use of information systems within an organization.
	2020-21 (Fall 2020)	ECC: CIS 13	Computer Information Systems	SLO #3 Communications	Identify and analyze existing and emerging technologies and their impact on organizations and society including communication and global relationships.
	2020-21 (Fall 2020)	ECC: CIS 13	Computer Information Systems	SLO #4 Networking	Demonstrate knowledge of network configurations, risk management and security protocols.
	2020-21 (Fall 2020)	ECC: CIS 133	Mashup JavaScript, jQuery and AJAX	SLO #1 Fundamental Concepts of Client-Side Programming	Students will demonstrate their ability to bring excitement to web pages using the fundamental components in the JavaScript programming language, including form data validation techniques, event handling using functions, timers, and control structures, repetitive programming methods, objects and object models, and the jQuery library.
	2020-21 (Fall 2020)	ECC: CIS 140	Data Communications CISCO 1	SLO #1 Data Communication Terms	Describe and explain data communication terms such as broadband and baseband communications.
	2020-21 (Fall 2020)	ECC: CIS 140	Data Communications CISCO 1	SLO #2 Modulation Techniques	Describe and use different modulation techniques such as time-division and frequency division.
	2020-21 (Fall 2020)	ECC: CIS 141	Networking Microcomputers CISCO 2	SLO #5 ICMP Functions	Identify the functions performed by ICMP.

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2020-21 (Fall 2020)	ECC: CIS 154	Compute Engines with AWS	SLO #2 AWS Compute Services	Students will be able to set up, configure, and manage a compute engine with AWS and implement load balancing and scaling.
	2020-21 (Fall 2020)	ECC: CIS 16	Application Development and Programming Using Visual Basic.Net	SLO #1 Creating an Interface	Creating an application using the fundamental concepts and models of application development including program design techniques, data structures, programming, problem solving and programming and business function logic.
	2020-21 (Fall 2020)	ECC: CIS 19	Internet, Social Networking, and the Web	SLO #3 Impact on business environment	Describe the impact of the web on the business environment.
	2020-21 (Fall 2020)	ECC: CIS 26	Using Microsoft Excel	SLO #5 Spreadsheet Formulas	Demonstrate comprehension of spreadsheet formulas, functions, internal and external referencing, range naming, charting, absolute and relative referencing, and conditional formatting.
	2020-21 (Fall 2020)	ECC: CIS 28	Database Management using Microsoft Access	SLO #3 Queries	Create single-table and multi-table queries. Use queries to perform calculations on data contained in tables.
	2020-21 (Fall 2020)	ECC: CIS 29	Advanced Database Applications	SLO #4 Macros	Create and run MACROS.
	2020-21 (Fall 2020)	ECC: CIS 30	Introduction to eCommerce	SLO #2 Mobile	Compare and contrast various mobile technologies that are currently being used to conduct online business.
	2020-21 (Fall 2020)	ECC: CIS 40	Personal Computer Support and Networking	SLO #1 Networking	Identify network security and ethical considerations such as privacy, hacking and piracy.
	2020-21 (Fall 2020)	ECC: CIS 80	Oracle Application Programming	SLO #2 Solving Common Business Problems	Solve common business oriented problems by using an application programming language to access database for answers to common business queries.
	2020-21 (Fall 2020)	ECC: CIS 80	Oracle Application Programming	SLO #3 Conditional Statements	Develop conditional statements and multiple level "if" statements to query database tables.
	2020-21 (Fall 2020)	ECC: CIS 80	Oracle Application Programming	SLO #4 Program Code	Write programming code to manipulate database tables.
	2020-21 (Fall 2020)	ECC: CIS 80	Oracle Application Programming	SLO #5 Efficient Programming Techniques	Demonstrate use of efficient programming techniques.
	2020-21 (Spring 2021)	ECC: CIS 13	Computer Information Systems	SLO #1 Applicability	Solve common business problems using appropriate information technology applications and systems design and developmental tools.
	2020-21 (Spring 2021)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #4 Configuring Routers	Configure hardware and software for routers to use both LAN and WAN protocols.
	2020-21 (Spring 2021)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #5 Configuring Protocols	Configure TCP/IP and AppleTalk protocols. Manage traffic with access lists.
	2021-22 (Fall 2021)	ECC: CIS 120	Computer Forensics	SLO #3	Demonstrate the ability to conduct a forensics investigation.
	2021-22 (Fall 2021)	ECC: CIS 154	Compute Engines with AWS	SLO #3 AWS Serverless Applications	Students will be able to create an application using the AWS serverless compute model.
	2021-22 (Spring 2022)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #1 Internet Working Modules	Define and discuss internetworking models. Determine appropriate paths for internetworking.

Unit Name	Course SLO Assessment Cycle	Course ID	Course Name	Course SLO Title	Course SLO Statement
	2021-22 (Spring 2022)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #2 User Interfaces	Install user interfaces.
	2021-22 (Spring 2022)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #3 Router Issues	List basic router issues. Describe serial connections for wide area networking. Auto install router configurations.
	2022-23 (Fall 2022)	ECC: CIS 120	Computer Forensics	SLO #4	Understand the complexities involved in conducting forensics investigations on various devices and in the cloud.
	2022-23 (Fall 2022)	ECC: CIS 154	Compute Engines with AWS	SLO #1 AWS Global Infrastructure	Students will be able to demonstrate an understanding of the AWS Global Infrastructure.
	2022-23 (Spring 2023)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #4 Configuring Routers	Configure hardware and software for routers to use both LAN and WAN protocols.
	2022-23 (Spring 2023)	ECC: CIS 143	Accessing the WAN - CISCO 4	SLO #5 Configuring Protocols	Configure TCP/IP and AppleTalk protocols. Manage traffic with access lists.