

Computer Information Systems - Student Learning Outcomes

CIS 050	Online Learning - An Orientation	1. Utilize screenshots in an online environment. (ILO1)
		2. Properly identify and verify a websites validity and content. (ILO2)
		3. Utilize multiple search engines as well as features built into those search engines to become efficient at searching. (ILO3)
CIS 100	Computer Literacy	1. Differentiate between computer hardware and software. (ILO2; ILO4)
		2. Differentiate among hardware devices. (ILO2; ILO4)
		3. Describe URL?s and email basics. (ILO2; ILO4)
		4. Use a word processing program to create, edit, and print a document. (ILO1, ILO2, ILO4)
CIS 101	Introduction to Information Systems	1. Analyze web information sources for relevance and accuracy; and synthesize, evaluate and communicate the results, demonstrating writing competencies at the college level. (ILO1, ILO2, ILO4)
		2. Describe the general characteristics of a computer system and identify types of computer hardware and software and explain their functions.(ILO1, ILO2, ILO4)
		3. Demonstrate the use of a word processor, spreadsheet, and database application
CIS 102	Computer Applications Laboratory	1. Take responsibility for logging in and out of the system to capture attendance hours. (ILO3)
		2. Demonstrate improvement of skills in the practical use of computer equipment and applications as required in co-enrolled course. (ILO3, ILO4)
CIS 104	Introduction to Telecommunications	1. Differentiate between guided media and unguided media; (ILO01; ILO02; ILO04)
		2. Define physical transmission media. (ILO01; ILO02; ILO04)
		3. Analyze advantages of one medium over another. (ILO01; ILO02; ILO04)
		4. Differentiate between guided media Differentiate among hubs, bridges, switches, and routers. (ILO01; ILO02; ILO04)
		5. Demonstrate personal responsibility by preparing for the online examination, agreeing to the online examination honor pledge, logging into the online course and complete examination on the scheduled date. (ILO03)
CIS 106	PC Maintenance and Repair	1. Remove and replace the power supply, mother board, RAM, and storage devices in your lab PC. (ILO1, ILO2, ILO4, ILO5)
		2. Demonstrate the procedures to measure voltage, current and resistance in electrical circuits. (ILO1, ILO2, ILO4, ILO5)
		3. Install and configure and upgrade Windows operating system. (ILO1, ILO2, ILO4, ILO5)
		4. Successfully troubleshoot a variety of PC problems to the correct component. (ILO1, ILO2, ILO4, ILO5)
		5. Install and configure and upgrade Windows operating system. (ILO1, ILO2, ILO4, ILO5)
		6. Install and configure a basic network. (ILO1, ILO2, ILO4, ILO5)
CIS 107	Computer Networking	1. Diagnose & repair 2 network problems using LabSim simulator program.(ILO2)
		2. Describe and configure various network architectures and media. (ILO2)
		3. Diagnose & repair 2 computer problems using LabConnection simulator program. (ILO1, ILO2, ILO4, ILO5)
		4. Practice safe work habits. (ILO1, ILO2, ILO4, ILO5)
CIS 108	Computer Accounting	1. Record and report routine business transactions using QuickBooks. (ILO2, ILO3)
		2. Perform end-of-period accounting procedures, including adjusting entries and a bank reconciliation.(ILO2, ILO3)
		3. Setup a new company in QuickBooks. (ILO1, ILO2, ILO3)
CIS 120	Microsoft Word I	1. Design and create a two page advertisement promoting green environment using MS Word features. (ILO1, ILO2, ILO3, ILO4, ILO5)
CIS 121	Microsoft Word II	1. Create a multi-page document using intermediate features of MS Word. (ILO1, ILO2, ILO3, ILO4)
CIS 124	EXCEL I	1. Apply calculating formulas and functions in order to produce a worksheet (ILO1,ILO2,ILO3)

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CIS 125	EXCEL II	<ol style="list-style-type: none"> 1. Demonstrate knowledge of worksheet creation using formulas and function applications. (ILO1, ILO2,ILO3) 2. Produce worksheets with advanced chart and graphic presentations (ILO1, ILO2,ILO3)
CIS 128	ACCESS	<ol style="list-style-type: none"> 1. Design,create, and query a data base. (ILO2, ILO4)
CIS 130	Power Point I	<ol style="list-style-type: none"> 1. Design and create a slide show that includes a title slide, at least five text slides with bulleted lists, and a closing slide. Demonstrate understanding of using attributes for emphasis. (ILO1, ILO2, ILO4)
CIS 131	Power Point II	<ol style="list-style-type: none"> 1. Design and create a slide presentation demonstrating knowledge of inserting photographs and using layouts, bulleted lists, shapes, background, transitions, and photograph (ILO1, ILO2, ILO4)
CIS 137	Web Development Tools	<ol style="list-style-type: none"> 1. Design, develop, and present a business orientated website (ILO1, ILO2,ILO4, ILO5) 2. Ability to utilize embedded youtube videos and embedded playlists to create a media rich website. (ILO 4) 3. Ability to utilize Widgets to include a CSS-based image gallery in a website. (ILO4) 4. Ability to deploy and modify tables to format a website (ILO4)
CIS 149	Photoshop	<ol style="list-style-type: none"> 1. Utilize several Photoshop tools and tactics learned throughout the course to produce a professional looking Magazine cover. (ILO1) 2. Demonstrate the ability to repair and touchup a digital picture. (ILO2) 3. Demonstrate the ability to utilize Photoshop?s liquify tools to modify a person?s body.(ILO3)
CIS 155	Flash	<ol style="list-style-type: none"> 1. Utilize several Flash tools and tactics learned throughout the course to produce an 2. Demonstrate the ability to effectively utilize the timeline and motion tween affects to produce animation. (ILO2) 3. Demonstrate the ability to use bone kinematics in a Flash animation. (ILO3)
CIS 160	CISCO IT Essentials: Hardware and Software	<ol style="list-style-type: none"> 1. Diagnose and repair two (2) computer problems. (ILO2) 2. Practice safe work habits. (ILO3) 3. Install and configure an operating system. (ILO2) 4. Select computer components based on customer need and complete the installation of a desktop computer tower.
CIS 162	Cisco CCNA Discovery 1: Networking for Home and Small Businesses	<ol style="list-style-type: none"> 1. Plan and install a home or small business network and connect it to the Internet, sharing resources such as files and printers among multiple computers. (ILO1, ILO2, ILO4, ILO5) 2. Verify and troubleshoot network and Internet connectivity. (ILO1, ILO2, ILO4, ILO5) 3. Recognize and mitigate security threats to a home or small business network. (ILO1, ILO2, ILO4, ILO5) 4. Configure and verify common Internet applications as well as basic IP services through a GUI. (ILO1, ILO2, ILO4, ILO5) 5. Build the access layer of an Ethernet network, build the distribution layer of a network, and plan and connect a local network. 6. Configure an integrated AP and wireless client.

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CIS 163	Cisco CCNA Discovery 2: Working at a Small-to-Medium Bus or ISP	1. Describe the structure of the Internet and how Internet communications occur between hosts. (ILO1,ILO2, ILO4, ILO5)
		2. Install, configure, and troubleshoot Cisco IOS devices for Internet and server connectivity. (ILO1, ILO2, ILO4, ILO5)
		3. Plan a basic wired infrastructure to support network traffic. (ILO1, ILO2, ILO4, ILO5)
		4. Implement a basic WAN connectivity using Telco services. (ILO1, ILO2, ILO4, ILO5)
		5. Demonstrate proper disaster recovery procedures and perform server backups. (ILO1, ILO2, ILO4, ILO5)
		6. Monitor network performance and isolate failures. (ILO1, ILO2, ILO4, ILO5)
		7. Troubleshoot problems using an organized, layered procedure. (ILO1, ILO2, ILO4, ILO5)
		8. Describe the OSI model and the process of encapsulation. (ILO1, ILO2, ILO4, ILO5)
CIS 164	Cisco CCNA Discovery 3: Intro Routing/Switching in the Enterprise	1. Implement a LAN for an approved network design (ILO1, ILO2, ILO4, ILO5)
		2. Configure a switch with VLANs and inter-switch communication (ILO1, ILO2, ILO4, ILO5)
		3. Implement access lists to permit or deny specified traffic (ILO1, ILO2, ILO4, ILO5)
		4. Implement WAN links (ILO1, ILO2, ILO4, ILO5)
		5. Configure routing protocols on Cisco devices (ILO1, ILO2, ILO4, ILO5)
		6. Perform LAN, WAN, and VLAN troubleshooting using a structured methodology and the OSI model (ILO1, ILO2, ILO4, ILO5)
CIS 165	Cisco CCNA Discovery 4: Designing & Supporting Computer Networks	1. Design a simple Internetwork using Cisco technology (ILO1, ILO2, ILO4, ILO5)
		2. Design an IP addressing scheme to meet LAN requirements (ILO1, ILO2, ILO4, ILO5)
		3. Create an equipment list to meet LAN design requirements (ILO1, ILO2, ILO4, ILO5)
		4. Create and present a proposal to a customer (ILO1, ILO2, ILO4, ILO5)
CIS 202	Programming in Visual Basic	1. Design and create a VB program that incorporates good design principles and meets specifications using the sequence control structure. (ILO1, ILO2, ILO4, ILO5)
		2. Design and create a VB program that incorporates good design principles and meets specifications using the decision/branching control structure. (ILO1, ILO2, ILO4, ILO5)
		3. Design and create a VB program that incorporates good design principles and meets specifications using the loop/iteration control structure. (ILO1, ILO2, ILO4, ILO5)
CIS 210	Programming in C++	1. Communicate ideas and solutions to problems in writing. (ILO1, ILO2,ILO3)
		2. Compose and create computer programming algorithms with correct computer programming instructions, syntax, style and format. (ILO1, ILO2,ILO3)
		3. Demonstrate personal responsibility by attending and completing in full the complete midterm examination. (ILO1, ILO2,ILO3)
CIS 212	XHTML, CSS, and JavaScript	1. Write correctly formatted XHTML. (ILO1, ILO2, ILO4, ILO5)
		2. Write correctly formatted CSS. (ILO1, ILO2, ILO4, ILO5)
		3. Add interactivity to web pages using JavaScript. (ILO1, ILO2, ILO4, ILO5)
CIS 214	PHP and MySQL	1. Use PHP to connect to a MySQL database and retrieve a Result Set. (ILO1, ILO2, ILO4, ILO5)
		2. Use PHP logical and comparison operators, branching structures (if/switch), and loop structures (for, foreach, do, do/while). (ILO1, ILO2, ILO4, ILO5)
		3. Debug common PHP programming mistakes and setup a local development environment on home PCs. (ILO1, ILO2, ILO4, ILO5)
		4. Use the PHP manual to lookup built-in PHP functions and create user defined functions and classes. (ILO1, ILO2, ILO4, ILO5)