

Alabama Department of Postsecondary Education

Representing the Alabama Community College System

STATEWIDE CAREER/TECHNICAL EDUCATION COURSE ARTICULATION REVIEW MINUTES

Articulation Agreement Identifier: <u>CIS/DPT149-2005-2</u> Instruction version number (e.g.; INT 100 (2007-1)).	_ Identifier is the postsecondary course prefix followed by Plan-of
Applicable CIP code(s):11.0101	
Postsecondary course prefix, number, and title:CIS/DPT 149 Int	troduction To Computers
Secondary Education course(s) title and number: <u>460301/520005</u> Business Technology Applications	- Information Technology Fundamentals OR 540203/450006 -
nitial Review: October 8, 2009 Annual DPE Rev	view: February 14, 2012
Effective date: Fall Semester 2011.	
Course Content Analysis (all nestsecondary course objectives must	the sufficiently addressed in the secondary courses):

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Notes:

- 1 Skills and knowledge contained in the postsecondary course objectives must be present in the corresponding secondary objectives for a "match" to occur.
- 2. Postsecondary and Secondary objectives must reflect similar content and performance levels before the course articulation agreement will be recommended to the TEDAC Oversight Committee.
- 3. More than one Secondary Course may be used in order to articulate to a Postsecondary course.

Postsecondary Course Objectives	Secondary Objectives and Location(s)	TEDAC Comments
MODULE A – COMPUTER CONCEPTS	Information Technology Fundamentals	
Competency:	Unit – Computer Basics	
A1.0 Explain basic computer concepts.	Content Standard(s)	
Performance Objective – None	Distinguish between input and output devices, including	
Learning Objectives:	monitor, keyboard, mouse, and scanner.	
A1.1.1 Define computer terms	Utilize mathematics skills to convert between two number	
A1.1.2 Explain the historical development of computers	systems, including decimal, binary, and hexadecimal.	
A1.1.3 Explain the evolving impact of computers on society	Learning Objective(s)	
A1.1.4 Explain the importance of computer literacy	Identify various types of input devices.	
A1.1.5 Describe categories of computers and their uses	Demonstrate proper installation and configuration of input	
A1.1.6 Identify types of computer users	devices.	
A1.1.7 Identify common programming languages	3. Demonstrate proper installation and configuration of output	
A1.1.8 Differentiate between common programming languages	devices.	
	4. Identify the types of output devices.	
	5. Convert two number systems including decimal, binary and	
	hexadecimal.	

Postsecondary Course Objectives	Secondary Objectives and Location(s)	TEDAC Comments
MODULE B – COMPUTER COMPONENTS AND SOFTWARE Competency:	Unit – Hardware Installation Content Standard(s)	
B1.0 Use computers to accomplish specified tasks. Performance Objective:	3. Perform computer maintenance and upgrading of computer components and portable devices.	
B1.1 Use various types of computer components and software to accomplish specified tasks.	4. Practice basic procedures of installing configuring, optimizing, and upgrading printers and scanners.	
Learning Objectives:	Learning Objective(s)	
B1.1.1 Explain the purpose and function of common computer components.	 Successfully install portable devices. Use the troubleshooting process to assess various 	
B1.1.2 Describe procedures for safely starting and terminating computer activity.	problems and determine necessary upgrades. 3. Upgrade or recommend upgrades of computer hardware to	
B1.1.3 Describe common features of specified computer operating systems.	improve functionality. 4. Demonstrate the procedures for installing and configuring	
B1.1.4 Describe the attributes and function of various types of	printers.	

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B1.1.6 Describ	re. ntiate between storage and memory. be the function and purpose of various types of e media and storage devices.	 Demonstrate the procedures for installing and configuring scanners. Unit – Software Installation Content Standard(s) Identify fundamentals of using operating systems. Perform basic configuration and optimization by updating and upgrading operating systems. Learning Objective(s) Analyze the functions and purposes of an operating system. Describe the evolution of operating systems. Describe the primary types of operating systems. Perform basic functions to configure or upgrade the operating system. 	

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MODULE C – COMPUTER COMMUNICATION AND NETWORKS	Unit – Troubleshooting and Maintenance Content Standard(s)	
Competency:	7. Utilize troubleshooting techniques for personal computer	
C1.0 Explain concepts related to computer communicati		
and networks.	8. Perform preventive maintenance on personal computer	
Performance Objective - None	components and portable devices, operating systems, and	
Learning Objectives:	computer security systems.	
C1.1.1 Define terms associated with computer	9. Identify tools, diagnostic procedures, and troubleshooting	
communication and networks.	techniques for operating systems, printers and scanners,	
C1.1.2 Explain the implications of the impact of computers		
and related communication technologies on society		
C1.1.3 Explain the purpose of a network.	including the installation of hardware and software.	
C1.1.4 Identify the components required for successful	11. Demonstrate configuring, upgrading, and optimizing	
communications.	security.	
C1.1.5 Describe commonly used communication devices.		
C1.1.6 Explain communications applications.		

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C1.1.7 C1.1.8	List advantages of using a network. Differentiate between a local area network and a wide area network.		
C1.1.11	Describe various communications technologies. Describe uses of internets and extranets. Explain the telephone network. Describe various physical and wireless transmission media	 Learning Objective(s) Utilize troubleshooting methods for solving problems components and portable devices. Demonstrate use of Windows Safe Mode in identifying problems. Perform preventative maintenance on hardware. Perform necessary software updates. Identify processes needed to troubleshoot printer, scanner or security problems. Describe the benefits of security and anti-virus software. Unit- Network Basics Content Standard(s) Identify fundamental principles of networks. Demonstrate configuring, optimizing and upgrading networks. Identify tools, diagnostic procedures, and troubleshooting techniques for networks. Learning Objective(s) Define terms associated with networks. Explain the purpose of networks. Explain the components of a network. Differentiate between wide are and local area networks. Describe uses of networks. 	

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MODULE D – THE INTERNET AND THE WORLD WIDE WEB Competency:		
D1.0 Use the internet to obtain and communicate information.		

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Perform	ance Objective:		
D1.1	Use various applications to perform various functions		
	through the internet.		
	g Objective:		
D1.1.1	Define terms associated with the Internet and the World Wide Web		
D1.1.2	Explain the uses of the Internet and the World Wide Web		
D1.1.3	Explain how a user can be a Web publisher		
D1.1.4	Explain how the Internet works		
D1.1.5	Explain ways to access the Internet		
D1.1.6	Describe various types of Web pages		
D1.1.7	Explain how Web pages use graphics, animation,		
	audio, video, and virtual reality		
D1.1.8	Identify the tools required for Web publishing		
D1.1.9	Identify software products available for Web		
	applications		
D1.1.10	Identify the rules of netiquette.		
	Postsecondary Course Objectives	Secondary Objectives and Location(s)	TEDAC Comments
MODUL	E E – COMPUTERS AND SOCIETY		
Compet	ency:		
E1.0	Explain the impact of computers on various aspects of society.		
Perform	ance Objective: - None		
	g Objectives:		
E1.1.1	Define terms associated with E-commerce		
E1.1.2	Describe the uses of electronic commerce (e-commerce)		
E1.1.3	Explain the impact of e-commerce on global society		
E1.1.4	Differentiate between various e-commerce models		
E1.1.5	Identify various e-commerce revenue streams		
E1.1.6	Identify e-commerce market sectors		
E1.1.7	Explain issues associated with building an electronic storefront		

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E1.1.8	Explain the impact of computers on daily living	·	
E1.1.9	Explain how computers are used in the home		
E1.1.10	Describe how computers change interactions with		
	various segments of our society.		
E1.1.11	Describe the digital divide		
E1.1.12	Describe ways virtual reality, intelligent agents, and		
	robots are being used in daily life		
E1.1.13	Describe health-related disorders and injuries due to		
	computer use		
E1.1.14	•		
	injuries due to computer use Explain how to design a		
	workspace ergonomically		
E1.1.15	Identify symptoms of computer addiction		
	Explain green computing		
E1.1.17	, , , , , , , , , , , , , , , , , , , ,		
E1.1.18	Explain types of security risks associated with		
	computer use.		
E1.1.19	Describe techniques to ensure personal privacy while		
	operating computers.		
E1.1.20	Explain how common types of viruses affect		
	computers.		
E1.1.21	Explain how to prevent viruses from infecting a		
1	computer.		
E1.1.22			
E1.1.23	Explain the importance of backing up computer		
	information.		
E1.1.24	Describe various careers found in the computer		
- 4.6-	industry.		
E1.1.25	Differentiate between various levels and types of		
	computer certifications.		