

| Goodheart-Willcvx Publisher ISBN: 978-1-63126-464-1 Media: Printed Textbook Author(s): Austin, Bergkvist Copyright: 2017 Review Date: March 2016 Core Subject Area: CTE Information Technology (3502000005) STANDARD / OBJECTIVE PAGES / DESIGNATED SECTIONS / URLS Students will develop an understanding of current issues related to Information Technology. Objective 1: introduced to the importance of ethics and ethical abehavior. Chapter 13, Section 13.1, head Ethical Use of the Internet A. Understand and follow an Acceptable Use Policy (AUP). Chapter 15, Section 15.3, head Disadvantages of Social Media C. Explain how some online behaviors can be harmful personally and to a business. (pornography, social networking, gaming, etc.) Chapter 16, Section 16.1, head Copyright of follow copyright and fair use guidelines. Chapter 16, Section 16.1, head Computer Threats privacy and security. Vork. Objective 2: Understand the importance of information privacy and security. Chapter 17, Section 17.2, head Personal-Success Skills b. Explain kinds of anti-virus software is and how they work. Chapter 17, Section 17.1, head Careers Available in In the yare interested in pursuing. c. Just employable skills in the classroom. Chapter 17, Section 17.1, head Education, Certification, Training, and Experience Dejective 3: Indentif | Utah State Office of Education – Core Alignment Correlation to Principles of Information Technology ©2017 | | |
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| b. Explain how certifications, education, and work experience can affect employability.Chapter 17, Section 17.1, head Employment AreasObjective 5: Participate in an on-line IT interest survey. a. Identify different areas and careers in IT. b. Identify their strength and weaknesses based on an IT interest survey.Chapter 17, Section 17.1, head Employment Areas Affected by IT Innovationsb. Identify their strength and weaknesses based on an IT interest survey.Chapter 17, Section 17.1, head Careers Available in ITc. Understand how different multiple intelligences can affect their skill level and interests.ITObjective 6: Identify the organizational structure of aChapter 17, Section 17.1, head Employment Areas | a. Understand IT industry certifications, education, and | | |
| experience can affect employability.Chapter 17, Section 17.1, head Employment AreasObjective 5: Participate in an on-line IT interest survey. a. Identify different areas and careers in IT.Chapter 17, Section 17.1, head Employment Areasb. Identify their strength and weaknesses based on an IT interest survey.Chapter 17, Section 17.1, head Careers Available in ITc. Understand how different multiple intelligences can affect their skill level and interests.ITObjective 6: Identify the organizational structure of aChapter 17, Section 17.1, head Employment Areas | | Certification, Training, and Experience | |
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| Objective 6: Identify the organizational structure of a Chapter 17, Section 17.1, head Employment Areas | | | |
| | | Chapter 17, Section 17,1, head Employment Areas | |
| business and the role that Information Technology plays Affected by IT Innovations | | | |
| in the success of business. | | · · · | |



| a. Identify different IT careers in business (CEO, CIO, | |
|------------------------------------------------------------------------------|--------------------------------------------------------|
| System Analysts, tech support, etc.) | |
| Objective 7 : Identify trends in the world of information technology. | Chapter 15, Section 15.2, head Cellular Technology |
| a. Discuss the pros and cons of cell phones, texting and driving | Chapter 15, Section 15.3, head Online Communication |
| b. Discuss the use of portable digital devices, | |
| c. Identify the values and problems with social | Chapter 15, Section 15.3, head Disadvantages of |
| networking, | Social Media |
| d. Explore the impact of cloud computing | |
| e. Explore the impact of Web 2.0 technology | Chapter 13, Section 13.1, head Web 2.0 |
| STANDA | RD 2 |
| Student will complete projects and assign | |
| Objective 1: Understand the different types of media | Chapter 7, Section 7.1, head Formatting Text |
| included in an interactive multimedia project. | |
| a. Understand and use text | Chapter 3, Section 3.3, head Graphics |
| b. Understand and use graphics | |
| C. Understand and use audio | Chapter 9, Section 9.1, head Adding Graphics |
| d. Understand and use video | |
| e. Understand and use animation | Chapter 9, Section 9.3, head Digital Audio |
| | Chapter 9, Section 9.3, head Videos |
| | |
| | Chapter 9, Section 9.2, head Animating Objects |
| Objective 2: Utilize fonts in interactive projects. | Chapter 7, Section 7.1, head Formatting Text |
| a. Change a font family, size, and color. | |
| b. Identify serif, and san serif fonts. | |
| Objective 3 : Obtain, create, and edit digital 2D graphics. | Chapter 9, Section 9.1, head Adding Graphics |
| a. Obtain 2D graphics from clipart or photo collections. | |
| b. Scan photos and/or take photos with a digital camera. | Chapter 3, Section 3.3, head Graphics |
| C. Use software to draw and edit a bitmap and a vector | |
| drawing. | |
| Objective 4: Obtain, create, and edit digital audio. | Chapter 3, Section 3.3, head Digital Audio |
| a. Capture digital audio from a CD, record, or tape. | |
| b. Obtain digital audio from royalty free sources. | |
| (Soundzabound, etc.) | |
| c. Record, edit, and export digital audio. | |
| d. Understand the use and importance of audio in digital | |
| media productions. | |
| e. Understand and identify different audio formats. | |
| (WAV, AAC, mp3, wma, ogg, m4a, etc.) | |
| Objective 5: Obtain, create, and/or edit digital video. | Chapter 3, Section 3.3, head Videos |
| a. Edit or render a digital video from photos or video | |
| clips. | |
| b. Understand and identify different video formats & | |
| codecs. (mov, wmv, m4a, mp4, H.264, etc.) | |
| c. User or embed video in a document or presentation. | |
| Objective 6: Create, edit, and utilize 2D animations. | Chapter 9, Section 9.2, head Animating Objects |
| a. Draw a flip book with at least 10 pages. | |



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| b. Create and edit a digital frame (cel) animation. | |
| c. Create and edit a path or tween animation. | |
| Objective 7: Utilize a design model or process to plan and | Chapter 17, Section 17.2, head Time-Management |
| implement an interactive project. (ADDIE, Adobe, Rapid | and Team Skills |
| Deployment Design, etc) | |
| a. Describe the project and the problem it address. | |
| b. Address the needs of the audience or customer. | |
| c. Plan the organization for the project and design the | |
| screen layouts. | |
| d. Storyboard the plan. | |
| e. Write a proposal for the project. | |
| Objective 8: Use interactive software to create and | Chapter 9 Presentation Software |
| implement an interactive project from a plan. (Software | |
| used could include: PowerPoint, Presentations, Google | |
| Presentations, OpenOffice Presentations, etc.) | |
| a. Include in the project: audio, animation, graphics and | |
| navigation links for user input. | |
| b. Create or prepare assets for the project. | |
| C. Build the project. | |
| d. Evaluated the project by testing and debugging it. | |
| e. Publish or distribute the project. | |
| Objective 9 : Create web pages using a GUI HTML editor. | Chapter 13, Section 13.2 Creating for the Web |
| (Dreamweaver, Microsoft Web Expressions, Kompozer, | |
| NVU, etc.) | |
| a. Include a main page with links to other pages, | |
| b. Include a page with a table. | |
| C. Include a page with bullets or a numbered list. | |
| d. Include photos or graphics in at least one page. | |
| e. Use CSS to change fonts, colors, layout, etc. | |
| Objective 10: Explore to careers and educational options | Chapter 17, Section 17.2, head Researching a |
| in interactive media and Web development. | Career |
| a. Understand different career options in digital & | |
| interactive media. | |
| b. Identify different specialties or team members that | |
| can be involved in a project. | |
| STANDA | RD 3 |
| The student will complete projects and assignments | in the area of Information Support and Services. |
| Objective 1 : Understand the input/output, processing | Chapter 2, Section 2.1, head Basic Parts and |
| and storage of data in a personal computer system. | Functions of a Computer |
| a. Identify and label the five parts of computer system. | |
| (input, output, storage, memory, processing) | |
| b. Explain the function of each of the parts of a computer | |
| system. | |
| C. List examples of each of the parts of the computer | |
| system. | |
| Objective 2: Understand the basic components of a | Chapter 2, Section 2.1, head Basic Parts and |
| modern computer system. | Functions of a Computer |
| a. Understand how hardware components function on a | |
| computer | Chapter 2, Section 2.1, head Operating System |
| oompatem | |



| b. Explain the function of firmware as a computer | Chapter 2 Certies 2 2 System Cofficients |
|-------------------------------------------------------------|--------------------------------------------------|
| component. | Chapter 3, Section 3.2 System Software |
| c. Explain the function of software on a computer. | |
| d. Understand the purpose and function of power on a | |
| computer. | |
| Objective 3: Understand hardware: parts, functions, | Chapter 2 Hardware |
| handling, safety, assembly, and troubleshooting. | |
| a. List basic hardware components. (motherboard, hard | |
| drive, memory, processor, power supply, expansion slot, | |
| etc.) | |
| b. Describe functions of basic components of a computer | |
| system. (Processor, Motherboard, RAM/ROM, Hard | |
| Drive, Input/Output Adaptors and Removable Storage | |
| Devices.) | |
| C. Demonstrate proper handling and safety | |
| considerations for hardware components. | |
| d. Assemble and disassemble parts of a computer | |
| system. | |
| e. Follow the basic troubleshooting steps for solving | |
| problems with a personal computer system. (1. Identify | |
| the problem, 2. Establish a idea of probable cause, 3. Test | |
| your idea, 4. Plan of action to implement the solution, 5. | |
| Verify solution worked, 6. Document your findings, | |
| actions, and outcomes.) | |
| Objective 4: Understand the basic functions of a | Chapter 2, Section 3.2, head Operating Systems |
| computer operating system. | |
| a. Identify different common OS's, (Windows, Mac OS, | |
| Linux, etc.) | |
| b. List the functions of an operating system. (Controls | |
| hardware, controls software, controls GUI, file-system.) | |
| c. Understand the difference be a GUI OS and the | |
| command line of an OS. | |
| d. Understand the history of OS's on a personal | |
| computer. | |
| Objective 5 : Understand basic kinds and uses of | Chapter 3, Section 3.3 Application Software |
| application software. | |
| a. Identify the uses of application software. (Word | |
| processor, spreadsheet, presentation, accounting, | |
| database, digital media editors, accounting, | |
| development, etc.) | |
| b. Identify different sources and licensing of software. | |
| (commercial, open source, freeware, shareware, creative | |
| commons, etc.) | |
| Objective 6: Understand introduced to careers and | Chapter 17, Section 17.1, head Technical Support |
| educational options in technical support. | |
| a. Explore certifications in Information Support and | |
| Services. | |
| b. Explore education and work experience that can lead | |
| to IT careers. | |
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| STANDARD 4 | |
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| nents in the area of Network Systems. | |
| Chapter 15, Section 15.2 Real-Time | |
| Communication | |
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| Chapter 14 Communication Networks | |
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| Chapter 14 Communication Networks | |
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| Chapter 14 Communication Networks | |
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| Chapter 14, Section 14.1, head Network | |
| Connection Technologies | |
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| Chapter 13, Section 13.1, head Internet | |
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| Chapter 17 Cection 17.1 head Naturation | |
| Chapter 17, Section 17.1, head Networking | |
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| STANDARD 5 Students will complete projects and assignments in the area of Programming and Software Development. | |
| Chapter 13, Section 13.2, head Programming | |
| Languages | |
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| languages. (low level, mid level, high level, 4GL) | |
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| c. Describe the difference between interpreted and | |
| compiled languages. | |
| d. Identify basic kinds of programming. (spaghetti, | |
| modular, procedure, object oriented programming | |
| (OOP), etc.) | |
| Objective 2: Understand the process to | Chapter 13, Section 13.2, head Programming |
| software/program design. | Languages |
| a. Follow software design steps. (1. State the problem, 2. | |
| Develop an algorithm or solutions, 3. Code the project, 4. | |
| Test & debug the project, 5. Provide internal & external | |
| document.) | |
| b. Use walk through steps to see all the steps to describe | |
| a problem solution. | |
| c. Design a flowchart to solve a basic problem. | |
| d. Develop an algorithm to solve a simple problem. | |
| e. Understand how UML is used in OOP. | |
| Objective 3: Create applications using a programming | Chapter 13, Section 13.2, head HTML |
| language. (MIT Scratch, Alice, QBASIC, Visual Basic, C++, | |
| Java, Scheme, etc.). | |
| a. Use a software design process to plan a software | |
| | |
| program. | |
| b. Understand and use programming conventions. | |
| (indentation, capitalization, etc.) | |
| C. Understand and in a program use: variables, data | |
| types, constants, calculations, operators, decisions, loops, | |
| functions, etc. | |
| d. Design the screen layout for a software program. | |
| e. Understand how GUI software development | |
| environments are used. | |
| f. Design and develop a software program that gets | |
| input, processes the data, and displays output. | |
| Objective 4: Create a web page using XHTML & Cascading | Chapter 13, Section 13.2, head HTML |
| Style Sheets (CSS). | |
| a. Understand the basic parts of HTML syntax. (tags, | |
| attributes, values) | |
| b. Understand the W3C standards for XHTML web pages. | |
| c. Understand how CSS is used for formatting web pages. | |
| d. Create web pages using a text editor, XHTML | |
| standards, and CSS. | |
| e. Understand and use scripting to create interactive web | |
| pages. | |
| Objective 5 : Students will be introduced to careers and | Chapter 17, Section 17.1, head Programming and |
| educational options in computer programming and | Application Development |
| software engineering. | |
| a. Explore education and work experience that can lead | Chapter 17, Section 17.1, head Software Developer |
| to careers in Software Development. | · · · · · · · · · · · · · · · · · · · |
| b. Identify Software Development career opportunities. | |
| (programmer, system analyst, etc.). | |
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| STANDA Students will understand the basic concepts o | - |
| Objective 1 : Understand how databases are used in | Chapter 12, Section 12.1, head Overview of |
| society | Databases |
| a. Identity several databases that they may be part | Databases |
| of.(school SIS, bank, SSN, IRS, state drivers license, etc.) | |
| b. Identify several databases that can be accessed on the | |
| Internet. (search engines, white pages, Facebook, real | |
| estate listings, eBay, etc.) | |
| Objective 2: Understand database concepts to create and | Chapter 12 Database Software |
| use a database. | |
| a. Understand basic vocabulary associated with a | |
| database. (flat file, record, field, table, search, select, | |
| sort, report, etc.) | |
| b. Create a flat file database, enter, edit, and delete | |
| records. | |
| c. Search and sort the database. | |
| d. Create reports to extract information from the | |
| database. | |
| STANDARD 7 | |
| Students will complete an end-of-course project an | d participate in work-based learning activities. |
| Objective 1 : Create an end-of-course project on an | Chapter 9 Presentation Software |
| information technology topic or career of their choice. | |
| a. Plan the IT or career project so it could be cross | Chapter 13, Section 13.2 Creating for the Web |
| curricular or used in another class if possible. | |
| b. Plan the project as part of a team member. (2-3 team | |
| members) | |
| c. Make the project interactive. (Use web pages, | |
| presentation software, or programming software.) | |
| d. Prepare to give an oral presentation about your | |
| project. | |
| Objective 2: Optional: Participate in a work-based | Chapter 17 Careers in IT |
| learning (WBL) activity. | |
| a. Listen to a guest speaker. | |
| b. Attend a field trip or tour a IT business. | |
| c. Participated in a job shadowing. | |
| d. Plan your own work-based learning activity. | |