CompuScholar, Inc.

Correlations to the Texas Essential Knowledge and Skills (TEKS): Principles of Information Technology

Texas Course Details:

Chapter	Chapter 130. Texas Essential Knowledge and Skills for CTE
Subchapter	Subchapter K. Information Technology
Course	§130.302. Principles of Information Technology (One Credit), Adopted 2015.
TEKS Coverage	100%

CompuScholar Course Details:

Course Title:	Digital Savvy
Course ISBN:	978-0-9887070-8-5
Course Year:	2023

Note 1: Citation(s) listed may represent a subset of the instances where objectives are met throughout the course.

Note 2: Citation(s) for a "Lesson" refer to the "Lesson Text" elements and associated "Activities" within the course, unless otherwise noted. The "Instructional Video" components are supplements designed to introduce or re-enforce the main lesson concepts, and the Lesson Text contains full details.

Course Standards

Knowledge and Skills Statement: (1) The student demonstrates professional standards / employability skills as required by business and industry. The student is expected to:	
Student Expectation	**Citation(s)**
(1.A) identify and demonstrate work behaviors and qualities that enhance employability and job advancement such as regular attendance, attention to proper attire, maintenance of a clean and safe work environment, pride in work, flexibility, and initiative	Chapter 13, Lesson 1 Chapter 24, Lessons 1 - 2 Chapters 14 and 25 (Team Projects)
(1.B) employ effective verbal and nonverbal communication skills	Chapter 13, Lesson 1 Chapters 14 and 25 (Team Projects)
(1.C) employ effective reading and writing skills	Chapter 2, Lessons 2, 5 Chapter 13, Lesson 2 Chapters 14 and 25 (Team Projects) Students have multiple other opportunities to read and create reports or written artifacts while performing a variety of research tasks and activities.

(1.D) solve problems and think critically	Chapter 5, Lesson 3 Chapter 13, Lesson 3 Chapters 14 and 25 (Team Projects)
(1.E) demonstrate leadership skills and function effectively as a team member	Chapter 13, Lessons 1, 3 Chapters 14 and 25 (Team Projects)
(1.F) identify and implement proper safety procedures	Chapter 8, Lesson 1 Chapter 24, Lesson 3
(1.G) demonstrate planning and time-management skills such as storyboarding and project management, including initiating, planning, executing, monitoring and controlling, and closing a project	Chapter 13, Lesson 2 Chapters 14 and 25 (Team Projects)

Knowledge and Skills Statement: (2) The student identifies various employment opportunities in the IT field. The student is expected to:	
Student Expectation	**Citation(s)**
(2.A) identify job opportunities and accompanying job duties and tasks	Chapter 24, Lesson 1 Supplemental Chapter 3, Lesson 2
(2.B) research careers of personal interest along with the education, job skills, and experience required to achieve personal career goals	Chapter 24, Lesson 1 Supplemental Chapter 3, Lesson 2
(2.C) describe the functions of resumes and portfolios	Chapter 24, Lesson 1

Knowledge and Skills Statement: (3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	
Student Expectation	**Citation(s)**
(3.A) identify and describe functions of various evolving and emerging technologies	Chapter 2, Lesson 5 Supplemental Chapter 1, Lesson 4
(3.B) send and receive text information and file attachments using electronic methods such as email, electronic bulletin boards, and instant message services	Chapter 16, Lessons 1, 2 Students also download lesson and project files and upload digital artifacts to our online system in most chapters
(3.C) demonstrate effective Internet search strategies, including keywords and Boolean logic, using various available search engines	Chapter 7, Lesson 1
(3.D) identify the various components of a Uniform Resource Locator	Chapter 6, Lesson 5 Chapter 21, Lesson 1
(3.E) demonstrate ability to effectively test acquired information from the Internet for accuracy, relevance, and validity	Chapter 7, Lesson 3
(3.F) explain issues concerning computer-based threats such as computer viruses, malware, and hacking	Chapter 8, Lessons 1, 2
(3.G) explain issues concerning Internet safety such as identity theft, online predators, cyber-bullying, and phishing	Chapter 8, Lesson 1 Chapter 18, Lesson 4

Knowledge and Skills Statement: (4) The student demonstrates knowledge of the hardware components associated with information systems. The student is expected to:

Student Expectation	Citation(s)
(4.A) identify major hardware components and their functions	Chapter 1, Lessons 2, 3
(4.B) use available reference tools as appropriate	Chapter 1, Lessons 3, 4
(4.C) connect and use a variety of peripheral devices such as mouse, keyboard, microphone, digital camera, and printer	Chapter 1, Lesson 3 Students will use a mouse, keyboard, and monitor to access all online course material.

Knowledge and Skills Statement: (5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:

Student Expectation	Citation(s)
(5.A) differentiate between systems and application software	Chapter 2, Lesson 1
(5.B) identify and explain major operating system fundamentals and components such as disk operations, graphical user interface components, and hardware drivers	Chapter 3, Lessons 1, 2
(5.C) explain the purpose of file types across software products	Chapter 4, Lesson 1 Chapter 9, Lesson 1 Chapter 10, Lesson 1
(5.D) demonstrate use of computer numbering systems and internal data representation such as identifying the hexadecimal value of a color	Chapter 20, Lesson 2 Chapter 23, Lesson 1 Supplemental Chapter 2, Lesson 1
(5.E) compare and contrast open source and proprietary software	Chapter 2, Lesson 2
(5.F) explain use of system management tools	Chapter 3, Lesson 2 Chapter 4, Lesson 2
(5.G) apply proper file management techniques such as creating, naming, organizing, copying, moving, and deleting files	Chapter 4, Lessons 2, 3
(5.H) use appropriate file protection and security	Chapter 9, Lesson 2
(5.I) explain the process for discovering, quarantining, and removing viruses from a computer system	Chapter 8, Lesson 1

Knowledge and Skills Statement: (6) The student analyzes network systems. The student is expected to:

Student Expectation	Citation(s)
(6.A) identify hardware associated with telecommunications and data networking such as servers, routers, switches, and network connectors	Chapter 6, Lesson 1

(6.B) identify and describe various types of networks such as peer-to-peer, local area networks, wide area networks, wireless and Ethernet	Chapter 6, Lessons 2, 4
(6.C) identify functions of network operating systems	Chapter 6, Lesson 2
(6.D) explain troubleshooting techniques for various network connection issues	Chapter 6, Lesson 4

Knowledge and Skills Statement: (7) The student applies word-processing technology. The student is expected to:

Student Expectation	Citation(s)
(7.A) identify the terminology associated with word-processing software	Chapter 9, Lessons 1, 2, 3
(7.B) edit a variety of text documents using functions such as pagination, appropriate white space, tab settings, and font style, size, and color	Chapter 9, Lessons 2, 3
(7.C) create professional documents such as memorandums, technical manuals, or proposals using advanced word-processing features	Chapter 9, Lessons 4, 5

Knowledge and Skills Statement: (8) The student applies spreadsheet technology. The student is expected to:

Student Expectation	Citation(s)
(8.A) identify the terminology associated with spreadsheet software	Chapter 10, Lessons 1, 2, 3
(8.B) use numerical content to perform mathematical calculations	Chapter 10, Lesson 6
(8.C) use student-created and preprogrammed functions to produce documents such as budget, payroll, statistical tables, and personal checkbook register	Chapter 10, Lesson 6
(8.D) identify, generate, and describe the function of comma separated value files	Chapter 10, Lesson 2
(8.E) create and analyze spreadsheets incorporating advanced features such as lookup tables, nested IF statements, subtotals, cell protection conditional formatting, charts, and graphs	Chapter 10, Lessons 6, 7
(8.F) perform sorting, searching, and data filtering in documents	Chapter 10, Lesson 5

Knowledge and Skills Statement: (9) The student explores computer programming concepts. The student is expected to:

Student Expectation	Citation(s)
(9.A) identify the function of compilers and interpreters	Chapter 22, Lesson 1

(9.B) explain the difference between the operation of compilers and interpreters	Chapter 22, Lesson 1
(9.C) identify various computer languages and how the languages are used in software development	Chapter 22, Lesson 1
(9.D) recognize data representation in software development such as string, numeric, character, integer, and date	Chapter 23, Lesson 1
(9.E) identify and explain the concept of algorithms	Chapter 22, Lesson 3
(9.F) describe the flow of a structured algorithm, including linear and iterative instructions such as using a flow chart	Chapter 22, Lessons 2, 3

Knowledge and Skills Statement: (10) The student explores database technology. The student is expected to:	
Student Expectation	**Citation(s)**
(10.A) identify the terminology associated with database software and database functions	Chapter 12, Lessons 1, 2, 4, 5
(10.B) explore the application of databases	Chapter 12, Lessons 1, 2
(10.C) identify and explain the purpose and elements of a query language	Chapter 12, Lesson 3
(10.D) identify and explain the purpose of fields and records	Chapter 12, Lessons 2, 4
(10.E) describe the process of constructing a query, including multiple search parameters	Chapter 12, Lesson 4

Knowledge and Skills Statement: (11) The student applies presentation management technology. The student is expected to:	
Student Expectation	**Citation(s)**
(11.A) identify the terminology and functions of presentation software	Chapter 11, Lessons 1, 2, 3
(11.B) create, save, edit, and produce presentations incorporating advanced features such as links, hyperlinks, audio, and graphics	Chapter 11, Lessons 4, 5

Knowledge and Skills Statement: (12) The student applies design and web publishing techniques. The student is expected to:	
Student Expectation	**Citation(s)**
(12.A) identify the terminology associated with web page development and interactive media	Chapter 19, Lessons 1, 2 Chapter 21, Lesson 3
(12.B) identify and explain design elements such as typeface, color, shape, texture, space, and form	Chapter 20, Lesson 3
(12.C) identify and explain design principles such as unity, harmony, balance, scale, and contrast	Chapter 20, Lesson 3

(12.D) identify and explain common elements of Hyper Text Markup Language (HTML) such as tags, stylesheets, and hyperlinks	Chapter 19, Lessons 1, 2
(12.E) create a web page containing links, graphics, and text using appropriate design principles	Chapter 20, Lessons 1, 2

Knowledge and Skills Statement: (13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	
Student Expectation	**Citation(s)**
(13.A) explain and demonstrate ethical use of technology and online resources	Chapter 8, Lesson 4
(13.B) adhere to intellectual property laws	Chapter 8, Lesson 5 Chapter 21, Lesson 2
(13.C) explain the concept of intellectual property laws, including copyright, trademarks, and patents and consequences of violating each type of law	Chapter 8, Lesson 5 Chapter 21, Lesson 2
(13.D) examine the consequences of plagiarism	Chapter 8, Lessons 4, 5
(13.F) demonstrate ethical use of online resources, including citation of source	Chapter 7, Lesson 3