

## TTUISD - TEKS Tracker

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Author _____Joyce Rowe_____	Submission Date ____/____/____					
Evaluator_____	Evaluation Date ____/____/____					
<b>TTUISD: Principles of Information Technology (PRINIT 1A) v.1.0, First Semester</b>						
<b>TEKS: §130.7272. Principles of Information Technology (One-Half to One Credit)</b>						
<b>TEKS Requirement (Secondary)</b>		<b>Sem A.</b>	<b>Lesson Number</b>	<b>Assignments</b>	<b>Bloom's Taxonomy</b>	
<b>§130.272. Principles of Information Technology (One-Half to One Credit).</b>				(No textbook used)		
(a) General requirements. This course is recommended for students in Grades 9-10.						
(b) Introduction. Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.						
(c) Knowledge and skills.						
<b>(1) The student demonstrates the necessary skills for career development, employability, and successful completion of course outcomes. The student is expected to:</b>						
(A) identify and demonstrate positive work behaviors that enhance employability and job advancement such as regular attendance, promptness, attention to proper attire, maintenance of a clean and safe work environment, appropriate voice, and pride in work;		A	Unit 1	1-1; 1-2	Apply	
(B) identify and demonstrate positive personal qualities such as flexibility, open-mindedness, initiative, listening attentively to speakers, and willingness to learn new knowledge and skills;		A	Unit 1	1-1; 1-2	Apply	
(C) employ effective reading and writing skills;		A	Unit 1	1-1; 1-2	Apply	
(D) employ effective verbal and nonverbal communication skill;		A	Unit 1	1-1; 1-2	Apply	
(E) solve problems and think critically;		A	Unit 1		Evaluate	
(F) demonstrate leadership skills and function effectively as a team member;		A	Unit 1		Apply	
(G) identify and implement proper safety procedures;		A	Unit 1		Apply	
(H) demonstrate an understanding of legal and ethical responsibilities in relation to the field of information technology; and		A	Unit 1		Understand	
(I) demonstrate planning and time-management skills such as project management and storyboarding.		A	Unit 1	Ethics essay	Apply	
<b>(2) The student identifies various employment opportunities in the information technology field. The student is expected to:</b>		A				
(A) identify job opportunities and accompanying job duties and tasks;		A	Unit 2		Remember	
(B) research careers of personal interest along with the education, job skills, and experience required to achieve personal career goals; and		A	Unit 2	2-1	Analyze	
(C) describe understanding of the functions of resumé's and portfolios.		A	Unit 2	2-2	Remember	
<b>(3) The student uses emerging technologies to exchange information. The student is expected to:</b>						
(A) identify and describe functions of various new and emerging technologies;		A			Remember	
(B) send and receive text information and file attachments using electronic methods such as email, electronic bulletin boards, and instant message services;		A	Throughout the course		Apply	
(C) demonstrate effective Internet search strategies, including keywords and Boolean logic using various available search engines;		A		3-1	Apply	
(D) dissect and identify the various components of a Uniform Resource Locator;		A	Unit 3		Remember	
(E) demonstrate ability to effectively test acquired information from the Internet for accuracy, relevance, and validity;		A	Unit 3	3-2	Apply	
(F) explain issues concerning Internet security protocols such as computer viruses, online predators, hacking, and identity theft;		A	Unit 3		Understand	
(G) define and identify unethical practices such as hacking, phone fraud, online piracy, and data vandalism; and		A	Unit 3		Remember	
(H) demonstrate ethical use of Internet and online resources, including citation of source.		A	Unit 3	3-2	Apply	
<b>(4) The student demonstrates knowledge of the hardware components associated with information systems. The student is expected to:</b>		A				

TEKS Requirement (Secondary)		Sem A.	Lesson Number	Assignments	Bloom's Taxonomy
(A) identify the different computer classifications such as minicomputer, mainframe, and microcomputer;		A	Unit 3		Remember
(B) identify major hardware components and their functions such as the central processor unit, input and output peripherals, and storage systems and devices;		A	Unit 3	3-1	Remember
(C) use available reference tools such as user manuals, both online and written, as appropriate;		A	Unit 3	3 Quiz	Apply
(D) demonstrate understanding of the process of connecting peripheral devices; and		A	Unit 3	3 Quiz	Apply
(E) demonstrate proficiency in the use of a variety of input devices such as mouse, keyboard, microphone, digital camera, printer, scanner, and optical disk reader.		A	Unit 3	3 Quiz	Apply
<b>(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:</b>					
(A) differentiate between systems and application software;		A	Units 1-6		Analyze
(B) identify and understand major operating system fundamentals and components;		A	Units 1-6		Understand
(C) identify the function and operation of compilers and interpreters;		A	Units 1-6		Remember
(D) identify various computer languages and how the languages are used in software development;		A	Units 1-6		Remember
(E) recognize data representation in software development such as string, numeric, character, integer, and date;		A	Units 1-6		Remember
(F) demonstrate understanding of file extensions and the purpose of file types across software products;		A	Units 1-6	all assignments	Apply
(G) recognize computer numbering systems and internal data representation;		A	Units 1-6		Remember
(H) identify appropriate use of application software;		A	Units 1-6	6-2	Apply
(I) identify new and emerging classes of software;		A	Units 1-6	6-2	Apply
(J) identify open source and proprietary licenses;		A	Units 1-6	6-2	Apply
(K) demonstrate proper use of system management tools; and		A	Units 1-6	6-2	Apply
(L) demonstrate proper file management techniques such as creating, naming, organizing, copying, moving, and deleting files.		A	Units 1-6	all assignments	Apply
<b>(6) The student analyzes network systems. The student is expected to:</b>					
(A) identify hardware associated with telecommunications and data networking such as servers, routers, switches, hubs, and network connectors;		A	Unit 3	3 Essay	Apply
(B) identify and describe various types of networks such as peer-to-peer, local area networks, wide area networks, wireless token ring, and Ethernet;		A	Unit 3	3 Quiz	Apply
(C) identify and describe functions of network operating systems; and		A	Unit 3	3 Quiz	Apply
(D) explain troubleshooting techniques for various network connection issues.		A			Understand
<b>(7) The student applies word-processing technology. The student is expected to:</b>		A			
(A) identify the terminology associated with word-processing software and its functions;		A	Units 4, 5		Remember
(B) improve the touch-system skill using the keyboard and keypad to input data;		A	Units 4, 5	4-1	Apply
(C) edit a variety of text documents using functions such as pagination, appropriate white space, tab settings, and font style, size, and color;		A	Units 4, 5	5-1, 5-2	Apply
(D) create professional letters using advanced word-processing features;		A	Units 4, 5		Create
(E) apply formatting techniques to a multipage research paper using approved publication standards such as American Psychological Association and Modern Language Association;		A	Unit 5	5-1, 5-2	Apply
(F) produce desktop publishing documents incorporating both text and graphics such as business cards, newsletters with mastheads, and advertisement flyers; and		A	Unit 6	4-2, 6-1, 6-2	Create
(G) demonstrate file protection and security.		A	Unit 6	6-2	Apply
<b>(8) The student applies spreadsheet technology. The student is expected to:</b>					
(A) identify the terminology associated with spreadsheet software and its functions;		A			Remember
(B) format and organize numerical content to perform mathematical processes such as addition, subtraction, multiplication, and division; percentages and decimals; and order of operations principle;		A			Apply
(C) employ both student-created formulas and preprogrammed functions to produce documents such as budget, payroll, statistical tables, and personal checkbook register;		A			Apply
(D) create and analyze spreadsheets incorporating advanced features such as lookup tables, nested IF statements, subtotals, cell protection conditional formatting, charts, and graphs; and		A			Create
(E) edit a variety of spreadsheets by performing data management procedures using simple and multiple search parameters to locate, sort, search, and filter data.		A			Apply
<b>(9) The student applies database technology. The student is expected to:</b>					
(A) identify the terminology associated with database software and its functions;		A			Remember

TEKS Requirement (Secondary)		Sem A.	Lesson Number	Assignments	Bloom's Taxonomy
(B) create, populate, edit, maintain, and save database files;		A			Create
(C) differentiate the nature and interrelationships of fields and records;		A			Analyze
(D) perform data management procedures such as locating, sorting, searching, querying, organizing, and outputting data;		A			Apply
(E) use data management procedures using multiple search parameters; and		A			Apply
(F) produce organized reports with calculated figures.		A			Create
<b>(10) The student applies presentation management technology. The student is expected to:</b>					
(A) identify the terminology associated with presentation software and its functions;		A			Remember
(B) create, save, edit, and produce presentations with appropriate handouts and speaker notes; and		A			Create
(C) create a non-linear presentation incorporating links, hyperlinks, audio, and graphics.		A			Create
<b>(11) The student applies design and web publishing techniques. The student is expected to:</b>					
(A) identify the terminology associated with web page editing software and its functions;		A			Remember
(B) identify the terminology associated with interactive media;		A			Remember
(C) identify and describe design principles such as contrast, repetition, alignment, and proximity;		A			Remember
(D) identify and describe types and styles of typeface used for publications such as serif and sans serif; and		A			Remember
(E) create a web page containing links, graphics, and text.		A			Create
<b>(12) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:</b>					
(A) demonstrate ethical use of online resources;		A			Apply
(B) adhere to copyright rules and regulations;		A			Apply
(C) differentiate between copyright and trademarks;		A			Analyze
(D) explain the concept of intellectual property;		A			Understand
(E) examine the consequences of plagiarism; and		A			Analyze
(F) describe the function of a non-disclosure agreement.		A			Remember
Source: The provisions of this §130.272 adopted to be effective August 23, 2010, 34 TexReg 5934.					