

<b>Subject</b>	<b>Chapter 130. Career and Technical Education, Subchapter K. Information Technology</b>
<b>Course Title</b>	<b>§130.302 Principles of Information Technology (One Credit), Adopted 2015</b>
<p>(a) <b>General Requirements.</b> This course is recommended for students in Grades 9 and 10. Students shall be awarded one credit for successful completion of this course.</p>	
<p>(b) <b>Introduction.</b></p>	
<p>(1) Career and technical education instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions.</p> <p>(2) The Information Technology (IT) Career Cluster focuses on Building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia and systems integration services.</p> <p>(3) In Principles of Information Technology, students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will 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.</p> <p>(4) Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.</p> <p>(5) Statements that contain the word "including" reference content that must be mastered, while those containing the phrase "such as" are intended as possible illustrative examples.</p>	

(c) Knowledge and Skills.		
Knowledge and Skill Statement	Student Expectation	Breakout
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(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	(i) identify work behaviors that enhance employability
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(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	(ii) identify work behaviors that enhance job advancement
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(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	(iii) identify qualities that enhance employability
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(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	(iv) identify qualities that enhance job advancement

Knowledge and Skill Statement	Student Expectation	Breakout
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(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	(v) demonstrate work behaviors that enhance employability
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(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	(vi) demonstrate work behaviors that enhance job advancement
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(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	(vii) demonstrate qualities that enhance employability
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(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	(viii) demonstrate qualities that enhance job advancement
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(B) employ effective verbal and nonverbal communication skills	(i) employ effective verbal communication skills

Knowledge and Skill Statement	Student Expectation	Breakout
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(B) employ effective verbal and nonverbal communication skills	(ii) employ effective nonverbal communication skills
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(C) employ effective reading and writing skills	(i) employ effective reading skills
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(C) employ effective reading and writing skills	(ii) employ effective writing skills
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(D) solve problems and think critically	(i) solve problems
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(D) solve problems and think critically	(ii) think critically
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(E) demonstrate leadership skills and function effectively as a team member	(i) demonstrate leadership skills
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(E) demonstrate leadership skills and function effectively as a team member	(ii) function effectively as a team member

Knowledge and Skill Statement	Student Expectation	Breakout
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(F) identify and implement proper safety procedures	(i) identify proper safety procedures
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(F) identify and implement proper safety procedures	(ii) implement proper safety procedures
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(G) demonstrate planning and time-management skills such as storyboarding and project management, including initiating, planning, executing, monitoring and controlling, and closing a project	(i) demonstrate planning skills
(1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:	(G) demonstrate planning and time-management skills such as storyboarding and project management, including initiating, planning, executing, monitoring and controlling, and closing a project	(ii) demonstrate time-management skills
(2) The student identifies various employment opportunities in the IT field. The student is expected to:	(A) identify job opportunities and accompanying job duties and tasks	(i) identify job opportunities
(2) The student identifies various employment opportunities in the IT field. The student is expected to:	(A) identify job opportunities and accompanying job duties and tasks	(ii) identify [job opportunities] accompanying job duties

Knowledge and Skill Statement	Student Expectation	Breakout
(2) The student identifies various employment opportunities in the IT field. The student is expected to:	(A) identify job opportunities and accompanying job duties and tasks	(iii) identify [job opportunities'] accompanying job tasks
(2) The student identifies various employment opportunities in the IT field. The student is expected to:	(B) research careers of personal interest along with the education, job skills, and experience required to achieve personal career goals	(i) research careers of personal interest
(2) The student identifies various employment opportunities in the IT field. The student is expected to:	(B) research careers of personal interest along with the education, job skills, and experience required to achieve personal career goals	(ii) research the education required to achieve personal career goals
(2) The student identifies various employment opportunities in the IT field. The student is expected to:	(B) research careers of personal interest along with the education, job skills, and experience required to achieve personal career goals	(iii) research the job skills required to achieve personal career goals
(2) The student identifies various employment opportunities in the IT field. The student is expected to:	(B) research careers of personal interest along with the education, job skills, and experience required to achieve personal career goals	(iv) research the experience required to achieve personal career goals
(2) The student identifies various employment opportunities in the IT field. The student is expected to:	(C) describe the functions of resumes and portfolios	(i) describe the functions of resumes
(2) The student identifies various employment opportunities in the IT field. The student is expected to:	(C) describe the functions of resumes and portfolios	(ii) describe the functions of portfolios

Knowledge and Skill Statement	Student Expectation	Breakout
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(A) identify and describe functions of various evolving and emerging technologies	(i) identify functions of various evolving technologies
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(A) identify and describe functions of various evolving and emerging technologies	(ii) identify functions of various emerging technologies
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(A) identify and describe functions of various evolving and emerging technologies	(iii) describe functions of various evolving technologies
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(A) identify and describe functions of various evolving and emerging technologies	(iv) describe functions of various emerging technologies
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(B) send and receive text information and file attachments using electronic methods such as email, electronic bulletin boards, and instant message services	(i) send text information using electronic methods
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(B) send and receive text information and file attachments using electronic methods such as email, electronic bulletin boards, and instant message services	(ii) send file attachments using electronic methods

Knowledge and Skill Statement	Student Expectation	Breakout
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(B) send and receive text information and file attachments using electronic methods such as email, electronic bulletin boards, and instant message services	(iii) receive text information using electronic methods
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(B) send and receive text information and file attachments using electronic methods such as email, electronic bulletin boards, and instant message services	(iv) receive file attachments using electronic methods
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(C) demonstrate effective Internet search strategies, including keywords and Boolean logic, using various available search engines	(i) demonstrate effective Internet search strategies, including keywords, using various available search engines
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(C) demonstrate effective Internet search strategies, including keywords and Boolean logic, using various available search engines	(ii) demonstrate effective Internet search strategies, including Boolean logic, using various available search engines
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(D) identify the various components of a Uniform Resource Locator	(i) identify the various components of a Uniform Resource Locator
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(E) demonstrate ability to effectively test acquired information from the Internet for accuracy, relevance, and validity	(i) demonstrate ability to effectively test acquired information from the Internet for accuracy



Knowledge and Skill Statement	Student Expectation	Breakout
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(E) demonstrate ability to effectively test acquired information from the Internet for accuracy, relevance, and validity	(ii) demonstrate ability to effectively test acquired information from the Internet for relevance
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(E) demonstrate ability to effectively test acquired information from the Internet for accuracy, relevance, and validity	(iii) demonstrate ability to effectively test acquired information from the Internet for validity
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(F) explain issues concerning computer-based threats such as computer viruses, malware, and hacking	(i) explain issues concerning computer-based threats
(3) The student uses evolving and emerging technologies to exchange information. The student is expected to:	(G) explain issues concerning Internet safety such as identity theft, online predators, cyber-bullying, and phishing	(i) explain issues concerning Internet safety
(4) The student demonstrates knowledge of the hardware components associated with information systems. The student is expected to:	(A) identify major hardware components and their functions	(i) identify major hardware components
(4) The student demonstrates knowledge of the hardware components associated with information systems. The student is expected to:	(A) identify major hardware components and their functions	(ii) identify [major hardware components'] functions
(4) The student demonstrates knowledge of the hardware components associated with information systems. The student is expected to:	(B) use available reference tools as appropriate	(i) use available reference tools as appropriate

Knowledge and Skill Statement	Student Expectation	Breakout
(4) The student demonstrates knowledge of the hardware components associated with information systems. The student is expected to:	(C) connect and use a variety of peripheral devices such as mouse, keyboard, microphone, digital camera, and printer	(i) connect a variety of peripheral devices
(4) The student demonstrates knowledge of the hardware components associated with information systems. The student is expected to:	(C) connect and use a variety of peripheral devices such as mouse, keyboard, microphone, digital camera, and printer	(ii) use a variety of peripheral devices
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(A) differentiate between systems and application software	(i) differentiate between systems and application software
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(B) identify and explain major operating system fundamentals and components such as disk operations, graphical user interface components, and hardware drivers	(i) identify major operating system fundamentals
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(B) identify and explain major operating system fundamentals and components such as disk operations, graphical user interface components, and hardware drivers	(ii) identify major operating system components
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(B) identify and explain major operating system fundamentals and components such as disk operations, graphical user interface components, and hardware drivers	(iii) explain major operating system fundamentals

Knowledge and Skill Statement	Student Expectation	Breakout
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(B) identify and explain major operating system fundamentals and components such as disk operations, graphical user interface components, and hardware drivers	(iv) explain major operating system components
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(C) explain the purpose of file types across software products	(i) explain the purpose of file types across software products
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(D) demonstrate use of computer numbering systems and internal data representation such as identifying the hexadecimal value of a color	(i) demonstrate use of computer numbering systems
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(D) demonstrate use of computer numbering systems and internal data representation such as identifying the hexadecimal value of a color	(ii) demonstrate use of internal data representation
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(E) compare and contrast open source and proprietary software	(i) compare and contrast open source and proprietary software
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(F) explain use of system management tools	(i) explain use of system management tools
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(G) apply proper file management techniques such as creating, naming, organizing, copying, moving, and deleting files	(i) apply proper file management techniques

Knowledge and Skill Statement	Student Expectation	Breakout
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(H) use appropriate file protection and security	(i) use appropriate file protection
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(H) use appropriate file protection and security	(ii) use appropriate file security
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(I) explain the process for discovering, quarantining, and removing viruses from a computer system	(i) explain the process for discovering viruses
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(I) explain the process for discovering, quarantining, and removing viruses from a computer system	(ii) explain the process for quarantining viruses
(5) The student demonstrates knowledge of the different software associated with information systems. The student is expected to:	(I) explain the process for discovering, quarantining, and removing viruses from a computer system	(iii) explain the process for removing viruses from a computer system
(6) The student analyzes network systems. The student is expected to:	(A) identify hardware associated with telecommunications and data networking such as servers, routers, switches, and network connectors	(i) identify hardware associated with telecommunications
(6) The student analyzes network systems. The student is expected to:	(A) identify hardware associated with telecommunications and data networking such as servers, routers, switches, and network connectors	(ii) identify hardware associated with data networking

Knowledge and Skill Statement	Student Expectation	Breakout
(6) The student analyzes network systems. The student is expected to:	(B) identify and describe various types of networks such as peer-to-peer, local area networks, wide area networks, wireless and Ethernet	(i) identify various types of networks
(6) The student analyzes network systems. The student is expected to:	(B) identify and describe various types of networks such as peer-to-peer, local area networks, wide area networks, wireless and Ethernet	(ii) describe various types of networks
(6) The student analyzes network systems. The student is expected to:	(C) identify functions of network operating systems	(i) identify functions of network operating systems
(6) The student analyzes network systems. The student is expected to:	(D) explain troubleshooting techniques for various network connection issues	(i) explain troubleshooting techniques for various network connection issues
(7) The student applies word-processing technology. The student is expected to:	(A) identify the terminology associated with word-processing software	(i) identify the terminology associated with word-processing software
(7) The student applies word-processing technology. The student is expected to:	(B) edit a variety of text documents using functions such as pagination, appropriate white space, tab settings, and font style, size, and color	(i) edit a variety of text documents using functions
(7) The student applies word-processing technology. The student is expected to:	(C) create professional documents such as memorandums, technical manuals, or proposals using advanced word-processing features	(i) create professional documents using advanced word-processing features
(8) The student applies spreadsheet technology. The student is expected to:	(A) identify the terminology associated with spreadsheet software	(i) identify the terminology associated with spreadsheet software

Knowledge and Skill Statement	Student Expectation	Breakout
(8) The student applies spreadsheet technology. The student is expected to:	(B) use numerical content to perform mathematical calculations	(i) use numerical content to perform mathematical calculations
(8) The student applies spreadsheet technology. The student is expected to:	(C) use student-created and preprogrammed functions to produce documents such as budget, payroll, statistical tables, and personal checkbook register	(i) use student-created functions to produce documents
(8) The student applies spreadsheet technology. The student is expected to:	(C) use student-created and preprogrammed functions to produce documents such as budget, payroll, statistical tables, and personal checkbook register	(ii) use preprogrammed functions to produce documents
(8) The student applies spreadsheet technology. The student is expected to:	(D) identify, generate, and describe the function of comma separated value files	(i) identify comma separated value files
(8) The student applies spreadsheet technology. The student is expected to:	(D) identify, generate, and describe the function of comma separated value files	(ii) generate comma separated value files
(8) The student applies spreadsheet technology. The student is expected to:	(D) identify, generate, and describe the function of comma separated value files	(iii) describe the function of comma separated value files
(8) The student applies spreadsheet technology. The student is expected to:	(E) create and analyze spreadsheets incorporating advanced features such as lookup tables, nested IF statements, subtotals, cell protection conditional formatting, charts, and graphs	(i) create spreadsheets incorporating advanced features

Knowledge and Skill Statement	Student Expectation	Breakout
(8) The student applies spreadsheet technology. The student is expected to:	(E) create and analyze spreadsheets incorporating advanced features such as lookup tables, nested IF statements, subtotals, cell protection conditional formatting, charts, and graphs	(ii) analyze spreadsheets incorporating advanced features
(8) The student applies spreadsheet technology. The student is expected to:	(F) perform sorting, searching, and data filtering in documents	(i) perform sorting in documents
(8) The student applies spreadsheet technology. The student is expected to:	(F) perform sorting, searching, and data filtering in documents	(ii) perform searching in documents
(8) The student applies spreadsheet technology. The student is expected to:	(F) perform sorting, searching, and data filtering in documents	(iii) perform data filtering in documents
(9) The student explores computer programming concepts. The student is expected to:	(A) identify the function of compilers and interpreters	(i) identify the function of compilers
(9) The student explores computer programming concepts. The student is expected to:	(A) identify the function of compilers and interpreters	(ii) identify the function of interpreters
(9) The student explores computer programming concepts. The student is expected to:	(B) explain the difference between the operation of compilers and interpreters	(i) explain the difference between the operation of compilers and interpreters
(9) The student explores computer programming concepts. The student is expected to:	(C) identify various computer languages and how the languages are used in software development	(i) identify various computer languages

Knowledge and Skill Statement	Student Expectation	Breakout
(9) The student explores computer programming concepts. The student is expected to:	(C) identify various computer languages and how the languages are used in software development	(ii) identify how the [computer] languages are used in software development
(9) The student explores computer programming concepts. The student is expected to:	(D) recognize data representation in software development such as string, numeric, character, integer, and date	(i) recognize data representation in software development
(9) The student explores computer programming concepts. The student is expected to:	(E) identify and explain the concept of algorithms	(i) identify algorithms
(9) The student explores computer programming concepts. The student is expected to:	(E) identify and explain the concept of algorithms	(ii) explain the concept of algorithms
(9) The student explores computer programming concepts. The student is expected to:	(F) describe the flow of a structured algorithm, including linear and iterative instructions such as using a flow chart	(i) describe the flow of a structured algorithm, including linear instructions
(9) The student explores computer programming concepts. The student is expected to:	(F) describe the flow of a structured algorithm, including linear and iterative instructions such as using a flow chart	(ii) describe the flow of a structured algorithm, including iterative instructions
(10) The student explores database technology. The student is expected to:	(A) identify the terminology associated with database software and database functions	(i) identify the terminology associated with database software
(10) The student explores database technology. The student is expected to:	(A) identify the terminology associated with database software and database functions	(ii) identify the terminology associated with database functions



Knowledge and Skill Statement	Student Expectation	Breakout
(10) The student explores database technology. The student is expected to:	(B) explore the application of databases	(i) explore the application of databases
(10) The student explores database technology. The student is expected to:	(C) identify and explain the purpose and elements of a query language	(i) identify the purpose of a query language
(10) The student explores database technology. The student is expected to:	(C) identify and explain the purpose and elements of a query language	(ii) identify the elements of a query language
(10) The student explores database technology. The student is expected to:	(C) identify and explain the purpose and elements of a query language	(iii) explain the purpose of a query language
(10) The student explores database technology. The student is expected to:	(C) identify and explain the purpose and elements of a query language	(iv) explain the elements of a query language
(10) The student explores database technology. The student is expected to:	(D) identify and explain the purpose of fields and records	(i) identify the purpose of fields
(10) The student explores database technology. The student is expected to:	(D) identify and explain the purpose of fields and records	(ii) identify the purpose of records
(10) The student explores database technology. The student is expected to:	(D) identify and explain the purpose of fields and records	(iii) explain the purpose of fields
(10) The student explores database technology. The student is expected to:	(D) identify and explain the purpose of fields and records	(iv) explain the purpose of records

Knowledge and Skill Statement	Student Expectation	Breakout
(10) The student explores database technology. The student is expected to:	(E) describe the process of constructing a query, including multiple search parameters	(i) describe the process of constructing a query, including multiple search parameters
(11) The student applies presentation management technology. The student is expected to:	(A) identify the terminology and functions of presentation software	(i) identify the terminology of presentation software
(11) The student applies presentation management technology. The student is expected to:	(A) identify the terminology and functions of presentation software	(ii) identify the functions of presentation software
(11) The student applies presentation management technology. The student is expected to:	(B) create, save, edit, and produce presentations incorporating advanced features such as links, hyperlinks, audio, and graphics	(i) create presentations incorporating advanced features
(11) The student applies presentation management technology. The student is expected to:	(B) create, save, edit, and produce presentations incorporating advanced features such as links, hyperlinks, audio, and graphics	(ii) save presentations incorporating advanced features
(11) The student applies presentation management technology. The student is expected to:	(B) create, save, edit, and produce presentations incorporating advanced features such as links, hyperlinks, audio, and graphics	(iii) edit presentations incorporating advanced features
(11) The student applies presentation management technology. The student is expected to:	(B) create, save, edit, and produce presentations incorporating advanced features such as links, hyperlinks, audio, and graphics	(iv) produce presentations incorporating advanced features
(12) The student applies design and web publishing techniques. The student is expected to:	(A) identify the terminology associated with web page development and interactive media	(i) identify the terminology associated with web page development

Knowledge and Skill Statement	Student Expectation	Breakout
(12) The student applies design and web publishing techniques. The student is expected to:	(A) identify the terminology associated with web page development and interactive media	(ii) identify the terminology associated with interactive media
(12) The student applies design and web publishing techniques. The student is expected to:	(B) identify and explain design elements such as typeface, color, shape, texture, space, and form	(i) identify design elements
(12) The student applies design and web publishing techniques. The student is expected to:	(B) identify and explain design elements such as typeface, color, shape, texture, space, and form	(ii) explain design elements
(12) The student applies design and web publishing techniques. The student is expected to:	(C) identify and explain design principles such as unity, harmony, balance, scale, and contrast	(i) identify design principles
(12) The student applies design and web publishing techniques. The student is expected to:	(C) identify and explain design principles such as unity, harmony, balance, scale, and contrast	(ii) explain design principles
(12) The student applies design and web publishing techniques. The student is expected to:	(D) identify and explain common elements of Hyper Text Markup Language (HTML) such as tags, stylesheets, and hyperlinks	(i) identify common elements of Hyper Text Markup Language (HTML)
(12) The student applies design and web publishing techniques. The student is expected to:	(D) identify and explain common elements of Hyper Text Markup Language (HTML) such as tags, stylesheets, and hyperlinks	(ii) explain common elements of Hyper Text Markup Language (HTML)
(12) The student applies design and web publishing techniques. The student is expected to:	(E) create a web page containing links, graphics, and text using appropriate design principles	(i) create a web page containing links, graphics, and text using appropriate design principles

Knowledge and Skill Statement	Student Expectation	Breakout
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(A) explain and demonstrate ethical use of technology and online resources	(i) explain ethical use of technology
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(A) explain and demonstrate ethical use of technology and online resources	(ii) explain ethical use of online resources
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(A) explain and demonstrate ethical use of technology and online resources	(iii) demonstrate ethical use of technology
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(A) explain and demonstrate ethical use of technology and online resources	(iv) demonstrate ethical use of online resources
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(B) adhere to intellectual property laws	(i) adhere to intellectual property laws
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(C) explain the concept of intellectual property laws, including copyright, trademarks, and patents and consequences of violating each type of law	(i) explain the concept of intellectual property laws, including copyright
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(C) explain the concept of intellectual property laws, including copyright, trademarks, and patents and consequences of violating each type of law	(ii) explain the concept of intellectual property laws including, trademarks

Knowledge and Skill Statement	Student Expectation	Breakout
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(C) explain the concept of intellectual property laws, including copyright, trademarks, and patents and consequences of violating each type of law	(iii) explain the concept of intellectual property laws, including patents
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(C) explain the concept of intellectual property laws, including copyright, trademarks, and patents and consequences of violating each type of law	(iv) explain the consequences of violating [copyright] law
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(C) explain the concept of intellectual property laws, including copyright, trademarks, and patents and consequences of violating each type of law	(v) explain the consequences of violating [trademark] law
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(C) explain the concept of intellectual property laws, including copyright, trademarks, and patents and consequences of violating each type of law	(vi) explain the consequences of violating [patent] law
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(D) examine the consequences of plagiarism	(i) examine the consequences of plagiarism
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(E) identify and explain unethical practices such as hacking, online piracy, and data vandalism	(i) identify unethical practices
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(E) identify and explain unethical practices such as hacking, online piracy, and data vandalism	(ii) explain unethical practices

Knowledge and Skill Statement	Student Expectation	Breakout
(13) The student understands and demonstrates legal and ethical procedures as they apply to the use of information technology. The student is expected to:	(F) demonstrate ethical use of online resources, including citation of source	(i) demonstrate ethical use of online resources, including citation of source