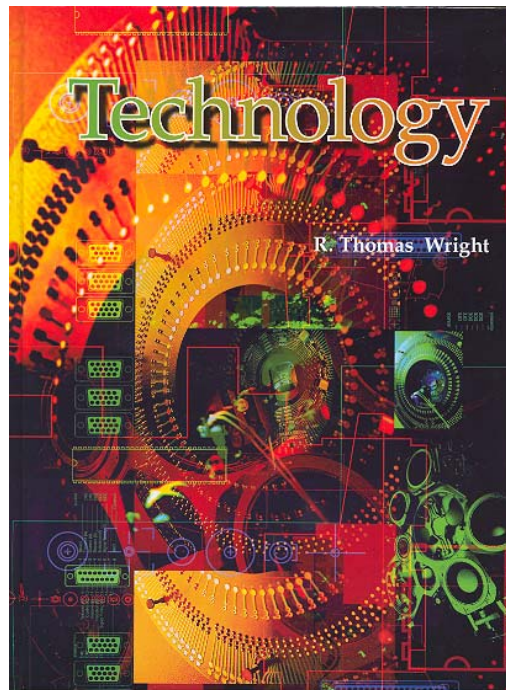




Goodheart-Willcox Publisher

**Florida Department of Education
State Standards Correlation**

Subject Area: Technology Education, 6-12
Course: 8600510 Technology Studies I
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GRADE(S):

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OUTCOME NUMBER	BENCHMARK NUMBER	INTENDED OUTCOME/BENCHMARK DESCRIPTION	PAGE(S) OR LOCATION(S) WHERE TAUGHT IN MAJOR TOOL	I/M*
1		DEMONSTRATE AN UNDERSTANDING OF THE CHARACTERISTICS AND SCOPE OF TECHNOLOGY.-- The student will be able to:		
	1.01	Discuss the nature and development of technological knowledge and processes. STL.1.J, LA.B.2.4, LA.C.3.4, SC.H.3.4	49-53, 85-98	I
	1.02	Explain the rapid increase in the rate of technological development and diffusion. STL.1.K, LA.B.2.4, LA.D.2.4, MA.B.1.4	19, 60-79	I
	1.03	Conduct specific goal-directed research related to inventions and innovations. STL.1.L, LA.A.1.4, LA.A.2.4, LA.B.2.4	60-79, 178-187	I
	1.04	Discuss current technological developments that are/were driven by profit motive and the market. STL.1.M, SS.D.1.4	17-18, 46-48, 82, 640-641	I
2		DEMONSTRATE AN UNDERSTANDING OF THE CORE CONCEPTS OF TECHNOLOGY.--The student will be able to:		
	2.01	Identify systems thinking logic and creativity with appropriate compromises in complex real-life problems. STL.2.W	190-190, 206-214	I
	2.02	Define technological systems, which are the building blocks of technology and are embedded within larger technological, social, and environmental systems. STL.2.X, LA.D.2.4	190-191	I
	2.03	Identify the stability of a technological system and its influence by all of the components in the system, especially those in the feedback loop. STL.2.Y	31-40	I

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	2.04	Identify resources involving trade-offs between competing values, such as availability, cost, desirability, and waste. STL.2.Z, SS.D.1.4	192	I
	2.05	Identify the criteria and constraints of a product or system and then determine how they affect the final design and development. STL.2.AA, MA.A.5.4, MA.B.1.4, MA.B.3.4, MA.B.4.4, MA.E.3.4, SC.H.1.4	82-83, 178-187, 192	I
	2.06	List strategies for optimizing a technological process or methodology of designing or making a product, dependent on criteria and constraints. STL.2.BB	210-211, 218	I
	2.07	Identify new technologies that create new processes. STL.2.CC	19	I
	2.08	Describe a quality control process to ensure that a product, service or system meets established criteria. STL.2.DD	109-111, 168-170, 661-663	I
	2.09	Define a management system as the process of planning, organizing, and controlling work. STL.2.EE	38, 99, 641-644	I
	2.1	Outline complex systems that have many layers of controls and feedback loops to provide information. STL.2.FF	40, 109-118	I
3		DEMONSTRATE AN UNDERSTANDING OF THE RELATIONSHIPS AMONG TECHNOLOGIES AND THE CONNECTION BETWEEN TECHNOLOGY AND OTHER FIELDS OF STUDY. --The student will be able to:		
	3.01	Identify technology transfer occurring when a new user applies an existing innovation developed for one purpose in a different function. STL.3.G, SC.H.3.4	60-79	I

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	3.02	Identify technological innovation resulting when ideas, knowledge, or skills are shared within a technology, among technologies, or across other fields. STL.3.H, SC.H.3.4	21-22, 60-79	I
	3.03	Outline the process of patenting to protect a technological idea. STL.3.I	61-63	I
	3.04	Identify technological progresses that promote the advancement of science and mathematics. STL.3.J, LA.A.1.4, LA.B.1.4, SC.H.3.4	34, 52, 73, 108, 117, 171, 198, 213-214, 251, 265, 277, 353, 368, 389, 405, 423-424, 442-443, 471, 501, 515, 558, 607, 621-627, 668	I
4		DEMONSTRATE AN UNDERSTANDING OF THE CULTURAL, SOCIAL, ECONOMIC, AND POLITICAL EFFECTS OF TECHNOLOGY.--The student will be able to:		
	4.01	Identify changes caused by the use of technology ranging from gradual to rapid and from subtle to obvious. STL.4.H	44-46, 107-109, 692-695, 718-719	I
	4.02	Classify the use of technology involving weighing the trade-offs between the positive and the negative effects. STL.4.I, LA.B.2.4	20-21, 105-107, 644-645, 690-705, 716-718	I
	4.03	Identify ethical considerations important in the development, selection, and use of technologies. STL.4.J, SC.H.1.4, SS.C.2.4	185-187	I
	4.04	List the cultural, social, economic, and political changes caused by the transfer of a technology from one society to another. STL.4.K, LA.B.2.4, LA.E.1.4, SC.H.3.4	17-18	I
5		DEMONSTRATE AN UNDERSTANDING OF THE EFFECTS OF TECHNOLOGY ON THE ENVIRONMENT.--The student will be able to:		

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	5.01	Select technologies to conserve water, soil, and energy through such techniques as reusing, reducing and recycling. STL.5.G, SC.G.1.4, SC.G.2.4, SS.B.2.4	352-354	I
	5.02	List trade-offs of developing technologies to reduce the use of resources. STL.5.H, SC.G.2.4, SS.D.1.4	627-629, 697-699	I
	5.03	Identify technology to monitor the environment and provide information as a basis for decision-making. STL.5.I, SC.H.3.4	111-113, 496-498, 696-700	I
	5.04	Compare and contrast the alignment of technological processes with natural processes to maximize performance and reduce negative impacts on the environment. STL.5.J, SC.G.2.4, SS.B.2.4	20-21, 352-354, 543-544	I
	5.05	Identify technologies devised to reduce the negative consequences of other technologies. STL.5.K	352-354	I
	5.06	Discuss the implementation of technologies involving the weighing of trade-offs between predicted positive and negative effects on the environment. STL.5.L, SC.G.2.4, SC.H.3.4	20-21, 699-700, 716-718	I
6		DEMONSTRATE AN UNDERSTANDING OF THE ROLE OF SOCIETY IN THE DEVELOPMENT AND USE OF TECHNOLOGY.--The student will be able to:		
	6.01	Investigate how different cultures develop their own technologies to satisfy their individual and shared needs, wants, and values. STL.6.H, LA.D.2.4, SS.B.2.4	104, 706-710	I
	6.02	Collect societal opinions and demands, as well as corporate cultures to use as a basis for deciding whether or not to develop a technology. STL.6.I	30-43, 61-63	I

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	6.03	Identify a number of different factors, such as advertising, the strength of the economy, the goals of a company, and the latest fads as contributors to shaping the design of and demand for various technologies. STL.6.J, LA.D.2.4, SS.A.1.4, SS.D.2.4	61-63, 75-76, 429, 664-665, 671, 692, 700-702	I
7		DEMONSTRATE AN UNDERSTANDING OF THE INFLUENCE OF TECHNOLOGY ON HISTORY.--The student will be able to:		
	7.01	Research how the evolution of civilization has been directly affected by, and has in turn affected, the development and use of tools and materials. STL.7.H, LA.A.1.4, LA.A.2.4, LA.B.2.4, SC.H.3.4, SS.A.2.4	19, 24-27, 32-34, 63-72, 127-139, 165-168	I
	7.02	Define the history of technology as a powerful force in reshaping the social, cultural, political, and economic landscape. STL.7.I, LA.D.2.4, SS.A.2.4	17-19, 24-27, 60-63, 75-76, 692-695	I
	7.03	Discuss that early in the history of technology, the development of many tools and machines was based not on scientific knowledge but on technological know-how. STL.7.J, SS.A.1.4	24, 374	I
	7.04	Define the Iron Age as the use of iron and steel as the primary materials for tools. STL.7.K	24-25, 540-542	I
	7.05	Define the Middle Ages and its development of many technological devices that produced long-lasting effects on technology and society. STL.7.L, SS.A.2.4	25, 146, 542	I
	7.06	Define the Renaissance, a time of rebirth of the arts and humanities, as an important development in the history of technology. STL.7.M, SS.A.3.4	26	I

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	7.07	Define the Industrial Revolution and the development of continuous manufacturing, sophisticated transportation and communication systems, advanced construction practices, and improved education and leisure time. STL.7.N, SS.A.5.4	26-27, 134, 140-142, 144-148, 224, 423-424, 492, 708-709	I
	7.08	Define the Information Age and its placement of emphasis on the processing and exchange of information. STL.7.O, SS.A.5.4	27, 709-710	I
8		DEMONSTRATE AN UNDERSTANDING OF THE ATTRIBUTES OF DESIGN.--The student will be able to:		
	8.01	Recognize the design process; including defining a problem, brainstorming, researching and generating ideas, identifying criteria and specifying constraints, exploring possibilities, selecting an approach, developing a design proposal, making a model or prototype, testing and evaluating the design using specifications, refining the design, creating or making it, and communicating processes and results. STL.8.H	36-37, 82-84, 179-182, 192-202, 206-214, 224-240	I
	8.02	Restate design problems that are seldom presented in a clearly defined form. STL.8.I, LA.D.1.4, LA.D.2.4	82-83, 183-187	I
	8.03	Check and critique a design continually, and improve and revise the idea of the design as needed. STL.8.J, SC.H.1.4	83-84, 195-196, 214-218	I
	8.04	List competing requirements of a design, such as criteria, constraints, and efficiency. STL.8.K, MA.A.3.4, MA.B.1.4, MA.B.3.4, MA.B.4.4, MA.D.1.4, MA.D.2.4, MA.E.1.4	82-83, 192	I

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9		DEMONSTRATE AN UNDERSTANDING OF ENGINEERING DESIGN.--The student will be able to:		
	9.01	Identify design principles used to evaluate existing designs, to collect data, and to guide the design process. STL.9.I	231, 374-398	I
	9.02	Describe the influence of personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly on the Engineering Design process. STL.9.J, LA.D.1.4, SC.H.1.4	36-37, 82-84, 178-187, 224-242	I
	9.03	Construct a prototype or a working model used to test a design concept by making actual observations and necessary adjustments. STL.9.K, MA.B.1.4, SC.H.1.4, SC.H.3.4	84, 212-213	I
	9.04	Identify factors taken into account in the process of engineering. STL.9.L	214-218	I
10		DEMONSTRATE AN UNDERSTANDING OF THE ROLE OF TROUBLESHOOTING, RESEARCH AND DEVELOPMENT, INVENTION AND INNOVATION, AND EXPERIMENTATION IN PROBLEM SOLVING.--The student will be able to:		
	10.01	Define research and development as a specific problem solving approach that is used intensively in business and industry to prepare devices and systems for the marketplace. STL.10.I	46-48, 654-658	I
	10.02	Identify research needed to solve technological problems. STL.10.J, LA.A.1.4, LA.A.2.4	179, 182, 185-187	I

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	10.03	Differentiate between technological and non-technological problems, and identify which problems can be solved using technology. STL.10.K, SC.H.1.4	179	I
	10.04	Utilize a multidisciplinary approach to solving technological problems. STL.10.L, MA.A.1.4, MA.A.3.4, MA.B.1.4, MA.B.3.4, MA.B.4.4, MA.E.1.4, MA.E.3.4, SC.H.1.4, SC.H.3.4	178-187	I
11		DEMONSTRATE THE ABILITIES TO APPLY THE DESIGN PROCESS.--The student will be able to:		
	11.01	Identify the design problem to solve and decide whether or not to address it. STL.11.M, SC.H.1.4	82-83, 183-187, 194	I
	11.02	List criteria and constraints and determine how these will affect the design process. STL.11.N, MA.A.3.4, MA.B.1.4, MA.B.3.4, MA.B.4.4, MA.D.1.4, MA.D.2.4, MA.E.1.4, SC.H.1.4, SC.H.3.4	82-83, 182, 184-185	I
	11.03	Refine a design by using prototypes and modeling to ensure quality, efficiency, and productivity of the final product. STL.11.O, SC.H.3.4	83-84	I
	11.04	Evaluate the design solution using conceptual, physical, and mathematical models at various intervals of the design process in order to check for proper design and to note areas where improvements are needed. STL.11.P, MA.A.4.4, MA.B.1.4, MA.B.3.4, MA.B.4.4, SC.H.1.4, SC.H.3.4	84	I
	11.05	Develop a product or system using a design process. STL.11.Q	190-205, 242-243, 396-399, 416-417, 438-440, 460-461	I

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	11.06	Evaluate final solutions and communicate observations, processes, and results of the entire design process, using verbal, graphic, quantitative, virtual, and written means, in addition to three-dimensional models. STL.11.R, LA.B.2.4, LA.C.3.4, MA.B.4.4, MA.D.2.4, MA.E.1.4, MA.E.2.4, MA.E.3.4, SC.H.1.4, SC.H.3.4	84, 224-242	I
12		DEMONSTRATE THE ABILITIES TO USE AND MAINTAIN TECHNOLOGICAL PRODUCTS AND SYSTEMS.--The student will be able to:		
	12.01	Document processes and procedures and communicate them to different audiences using appropriate oral and written techniques. STL.12.L, LA.B.2.4, LA.B.1.4, LA.C.3.4	239	I
	12.02	Diagnose a system that is malfunctioning and use tools, materials, machines, and knowledge to repair it. STL.12.M	250-252, 347-350, 677-679	I
	12.03	Troubleshoot, analyze, and maintain systems to ensure safe and proper function and precision. STL.12.N	126-151, 347-350, 515-516	I
	12.04	Operate systems so that they function in the way they were designed. STL.12.O	151-153, 155	I
	12.05	Use computers and calculators to access, retrieve, organize, process, maintain, interpret, and evaluate data and information in order to communicate. STL.12.P, LA.A.2.4, MA.E.1.4	221-222, 240-241, 398-399, 460-461, 634-635	I
13		DEMONSTRATE THE ABILITIES TO ASSESS THE IMPACT OF PRODUCTS AND SYSTEMS.--The student will be able to:		
	13.01	Collect information and evaluate its quality. STL.13.J, LA.A.2.4, SC.H.1.4	634-635	I

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	13.02	Synthesize data, analyze trends, and draw conclusions regarding the effect of technology on the individual, society, and the environment. STL.13.K, LA.A.2.4, SC.G.1.4, SC.G.2.4, SC.H.1.4	634-635	I
	13.03	Define assessment techniques, such as trend analysis and experimentation to make decisions about the future development of technology. STL.13.L, LA.A.2.4, MA.E.1.4, MA.E.2.4, MA.E.3.4	674-684, 692-695	I
	13.04	Identify forecasting techniques to evaluate the results of altering natural systems. STL.13.M, MA.E.3.4, SC.G.2.4	344-356, 674-684	I
14		DEMONSTRATE AN UNDERSTANDING OF AND BE ABLE TO SELECT AND USE MEDICAL TECHNOLOGIES. -The student will be able to:		
	14.01	Classify medical technologies including prevention and rehabilitation, vaccines and pharmaceuticals, medical and surgical procedures, genetic engineering, and the systems within which health is protected and maintained. (STL 14.K)	95, 614-636	I
	14.02	Discuss telemedicine and its convergence of technological advances in a number of fields, including medicine, virtual presence, computer engineering, informatics, artificial intelligence, robotics, materials science, and perceptual psychology. (STL 14.L)	614-636	I
	14.03	Explain how the sciences of biochemistry and molecular biology have made it possible to manipulate the genetic information found in living creatures. (STL 14.M)	15, 52	I

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15		DEMONSTRATE AN UNDERSTANDING OF AND BE ABLE TO SELECT AND USE AGRICULTURAL AND RELATED BIOTECHNOLOGIES.--The student will be able to:		
	15.01	Define agriculture, including a combination of businesses that use a wide array of products and systems to produce, process, and distribute food, fiber, fuel, chemical, and other useful products. STL.15.K	567-586	I
	15.02	Identify biotechnology applications in such areas as agriculture, pharmaceuticals, food and beverages, medicine, energy, the environment, and genetic engineering. STL.15.L	15, 52, 565, 586-587, 592-607, 620-631	I
	15.03	Define conservation as the process of controlling soil erosion, reducing sediment in waterways, and improving water quality. STL.15.M	16-24, 690-705	I
	15.04	Apply engineering design processes to management of agricultural systems requiring knowledge of artificial ecosystems and the effects of technological development on flora and fauna. STL.15.N	689	I
16		DEMONSTRATE AN UNDERSTANDING OF AND BE ABLE TO SELECT AND USE ENERGY AND POWER TECHNOLOGIES.--The student will be able to:		
	16.01	Discuss how energy cannot be created nor destroyed; however, it can be converted from one form to another. STL.16.J	92, 139-145, 531, 539-555	I
	16.02	Categorize types of energy into major forms: thermal, radiant, electrical, mechanical, chemical, nuclear, and others. STL.16.K	74-75, 91-92, 285, 529-531	I

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	16.03	Explain impossibility of building an engine to perform work that does not exhaust thermal energy to the surroundings. STL.16.L	526-534, 538-562	I
	16.04	Classify energy resources as renewable or nonrenewable. STL.16.M	70, 532-534, 538-562	I
	16.05	Construct a power system having a source of energy, a process, and loads. STL.16.N	91-92, 556-559	I
17		DEMONSTRATE AN UNDERSTANDING OF AND BE ABLE TO SELECT AND USE INFORMATION AND COMMUNICATION TECHNOLOGIES.--The student will be able to:		
	17.01	Discuss information and communication technologies including the inputs, processes, and outputs associated with sending and receiving information. STL.17.L	86-88, 145-151	I
	17.02	Classify information and communication systems that allow information to be transferred as human to human, human to machine, machine to human, or machine to machine. STL.17.M	365-366	I
	17.03	Use information and communication systems to inform, persuade, entertain, control, manage, and educate. STL.17.N	364, 418-429	I
	17.04	Identify components of a communications system, including source, encoder, transmitter, receiver, decoder, storage, retrieval, and destination. STL.17.O	86-88, 364-365, 418-429	I
	17.05	Identify many ways to communicate information, such as graphic and electronic means. STL.17.P	86-88, 361, 366-370, 374-398, 403-413, 420-434	I

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	17.06	Communicate technological knowledge and processes using symbols, measurement, conventions, icons, graphic images, and languages that incorporate a variety of visual, auditory, and tactile stimuli. STL.17.Q	418-429	I
18		DEMONSTRATE AN UNDERSTANDING OF AND BE ABLE TO SELECT AND USE TRANSPORTATION TECHNOLOGIES.--The student will be able to:		
	18.01	Analyze the vital role played by transportation in the operation of other technologies, such as manufacturing, construction, communication, health and safety, and agriculture. STL.18.J	467-468, 506-522	I
	18.02	Define intermodalism as the use of different modes of transportation, such as highways, railways, and waterways as part of an interconnected system that can move people and goods easily from one mode to another. STL.18.K	466-473	I
	18.03	Discuss how transportation services and methods have led to a population that is regularly on the move. STL.18.L	465, 466-473, 512-514	I
	18.04	Identify processes and innovative techniques involved in the design of intelligent and nonintelligent transportation systems. STL.18.M	468-473, 476-479, 508-512, 517	I
19		DEMONSTRATE AN UNDERSTANDING OF AND BE ABLE TO SELECT AND USE MANUFACTURING TECHNOLOGIES.--The student will be able to:		
	19.01	Service products to keep them in good operating condition. STL.19.L	250-252, 347-350	I
	19.02	Classify materials based on their qualities as natural, synthetic, or mixed. STL.19.M	60-79, 254-265	I

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	19.03	Classify goods as durable goods designed to operate for a long period of time, or non-durable goods designed to operate for a short period of time. STL.19.N	246-252	I
	19.04	Identify and classify manufacturing systems into types, such as customized production, batch production, and continuous production. STL.19.0	134, 658-663	I
	19.05	Discuss the interchangeability of parts to increase the effectiveness of manufacturing processes. STL.19.P	16-24, 224, 708-709	I
	19.06	Identify chemical technologies providing a means for humans to alter or modify materials and to produce chemical products. STL.19.Q	270-289	I
	19.07	Employ marketing techniques involving establishing a product's identity, conducting research on its potential, advertising it, distributing it, and selling it. STL.19.R	664-665	I
20		DEMONSTRATE AN UNDERSTANDING OF AND BE ABLE TO SELECT AND USE CONSTRUCTION TECHNOLOGIES.--The student will be able to:		
	20.01	Define infrastructure as the underlying base or basic framework of a system. STL.20.J	318-342	I
	20.02	Identify a variety of processes and procedures used in constructing structures. STL.20.K	88-91, 678	I
	20.03	Identify requirements involved in the design of structures. STL.20.L	318-342	I
	20.04	Recommend maintenance, alterations, or renovations to improve a structure or alter its intended use. STL.20.M	91, 246-252, 347-351	I
	20.05	Identify prefabricated materials used in some structures. STL.20.N	318-342	I

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21		DEMONSTRATE THE ABILITY TO WORK SAFELY WITH A VARIETY OF TECHNOLOGIES--The student will be able to:		
	21.01	Select appropriate tools, procedures, and/or equipment needed to produce a product.	126-155	I
	21.02	Demonstrate the safe usage of appropriate tools, procedures, and operation of equipment needed to produce a product.	126-155	I
	21.03	Demonstrate knowledge required to maintain and troubleshoot equipment used in a variety of technological systems.	126-155	I
	21.04	Follow laboratory safety rules and procedures.	56-57, 122-123, 151-153, 174-175, 221-222, 240-243, 293, 302-303, 312, 342-343, 356-359, 396-399, 411, 416-417, 438-440, 460-463, 520-523, 562-563, 590-591, 634-637, 684-686, 722-723	I
	21.05	Demonstrate good housekeeping at work station within total laboratory.	56-57, 122-123, 174-175, 221-222, 240-243, 342-343, 356-359, 396-399, 416-417, 438-440, 460-463, 520-523, 562-563, 590-591, 634-637, 684-686, 722-723	I
	21.06	Identify color-coding safety standards.		
	21.07	Explain fire prevention and safety precautions and practices for extinguishing fires.		
	21.08	Identify harmful effects/potential dangers of familiar hazardous substances/devices to people and the environment.	20-21, 111-113, 352-354, 496-498, 543-544, 627-629, 691-692, 696-700, 716-718	I
22		DEMONSTRATE INTERPERSONAL SKILLS AS THEY RELATE TO THE WORKPLACE--The student will be able to:		
	22.01	Perform roles in a student personnel system or in the Florida Technology Student Association (FL-TSA).		

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	22.02	Participate as a member of a team.	711-713	I
	22.03	Teach others new skills.	713	I
	22.04	Identify skills needed to serve clients/customers.	713	I
	22.05	Demonstrate leadership skills.	711-713	I
	22.06	Describe strategies necessary for negotiating agreements.	665-669	I
	22.07	Demonstrate the application of skills necessary to work with people of diverse backgrounds.	61-63, 665-669	I
	22.08	Form an understanding and appreciation for work after listening to or observing technology workers.	61-63	I
	22.09	Form an understanding and appreciation for work after participating in a simulated technology group project in the laboratory.	56-57, 122-123, 174-175, 221-222, 240-243, 342-343, 356-359, 396-399, 416-417, 438-440, 460-463, 520-523, 562-563, 590-591, 634-637, 684-686, 722-723	I
	22.1	Form an understanding and appreciation for the roles and work of co-workers.	61-63, 711-712	I
23		IDENTIFY AND APPLY METHODS OF INFORMATION ACQUISITION AND UTILIZATION--The student will be able to:		
	23.01	Define terms related to computers.	86-88, 145-151, 307, 442-459	I
	23.02	Identify and describe methods of information acquisition and evaluation.	634-635	I
	23.03	Discuss advantages and disadvantages in the application of technologies.	20-21, 352-354, 627-629, 680-682, 695-700, 716-718	I
	23.04	Produce a plan to organize and maintain information relevant to emerging technologies.	692-695	I
	23.05	Comprehend and communicate information relevant to emerging technologies.	692-695	I

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	23.06	Demonstrate the use of computers to process information.	86–88, 145–151, 221–222, 240–241, 365–366, 398–399, 442–461, 634–635	I
24		APPLY BASIC SKILLS IN COMMUNICATIONS, MATHEMATICS, AND SCIENCE APPROPRIATE TO TECHNOLOGICAL CONTENT AND LEARNING ACTIVITIES--The student will be able to:		
	24.01	Identify and explain the main and subordinate ideas in a written work.		
	24.02	Distinguish different purposes and methods of writing, identify a writer's point of view and tone, and interpret a writer's meaning.		
	24.03	Define unfamiliar words by use of structural analysis, decoding, contextual clues, or by using a dictionary.		
	24.04	Distinguish fact from opinion.		
	24.05	Read critically by asking pertinent questions, by recognizing assumptions and implications, and by evaluating ideas.		
	24.06	Select, relate, and organize, ideas using outlining and/or graphic organizers and develop the ideas in coherent paragraphs.	239	I
	24.07	Improve one's own writing by restructuring, correcting errors, and rewriting.		
	24.08	Gather and organize information from primary and secondary sources; write a report using this research; quote, paraphrase, and summarize accurately; and cite sources properly.	42, 155, 174, 269, 589–591, 634–635, 651, 673, 704, 721	I
	24.09	Vary one's writing style, including vocabulary and sentence structure, for different readers and purposes.	373, 398–399, 437–440, 460–463, 520–522, 673, 685	I

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	24.1	Write logical and understandable statements, or phrases, to accurately fill out commonly used forms.		
	24.11	Compose unified and coherent correspondence, directions, descriptions, explanations and reports.	42, 155, 220, 269, 475, 505, 520–521, 561, 563, 590–591, 634–635, 651, 673, 685, 721	I
	24.12	Participate critically and constructively in the exchange of ideas, particularly during class discussions and conferences with instructors.	57, 175	I
	24.13	Conceive and develop ideas about a topic for the purpose of speaking to a group; choose and organize related ideas; present them clearly in Standard English; and evaluate similar presentations by others.	73, 171, 198, 277, 389, 437–440, 501, 515, 590–591, 634–635, 668, 686, 722–723	I
	24.14	Use the mathematics of:		
	-	integers, fractions, and decimals;	73, 171, 198, 277, 389, 501, 515, 668	I
	-	ratios, proportions, and percentages;	73, 171, 198, 277, 389, 501, 515, 668	I
	-	roots and powers;	73, 171, 198, 277, 389, 501, 515, 668	I
	-	algebra;	73, 171, 198, 277, 389, 501, 515, 668	I
	-	geometry.	73, 171, 198, 277, 389, 501, 515, 668	I
	24.15	Make estimates and approximations, and judge the reasonableness of a result.		
	24.16	Use elementary concepts of probability and statistics.		
	24.17	Draw, read, and analyze graphs, charts, and tables.	209–210	I
	24.18	Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solutions of such questions through familiarity with laboratory and field work.	46–48, 179, 182, 185–187, 654–658	I
	24.19	Organize and communicate the results obtained by observation and experimentation.	46–48, 179, 182, 185–187, 654–658	I

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	24.2	Apply the basic principles of biology, physics, and chemistry (properties of matter; structure of compounds; concepts of motion; temperature, pressure and volume; work, power, force and energy; machines; human cell structure).	34–35, 50, 53, 56, 65, 72, 74–75, 91–92, 122, 129–130, 144–145, 160–163, 235–236, 271–272, 298, 301–304, 471, 479, 480–481, 486–488, 502, 526–535, 538–540, 553–554, 556–560	I
	24.21	Identify problems rooted in basic biology, physics, or chemistry (effects of hazardous materials on health and safety, effects of drugs on health, trouble shooting problems on a machine).	692, 695–702, 716–718	I
25		DEMONSTRATE AND APPLY DESIGN/PROBLEM-SOLVING PROCESSES--The student will be able to:		
	25.01	Describe and explain steps in the design/problem-solving process.	36–37, 82–84, 179–182, 192–202, 206–214, 224–241	I
	25.02	Propose solutions to given problems.	82–84, 179–182, 192–202	I
	25.03	Design and implement the optimal solution to a given problem.	36–37, 82–84, 179–182, 192–202, 206–214, 224–241	I
	25.04	Document each step of the design/problem-solving process.	36–37, 82–84, 179–182, 192–202, 206–214, 224–241	I
	25.05	Demonstrate "brainstorming" as a process to solve problems.	83, 182, 194	I
	25.06	Define "critical thinking" and its value in the problem-solving process.	193	I
26		EXPRESS AN UNDERSTANDING OF TECHNOLOGICAL SYSTEMS AND THEIR COMPLEX INTERRELATIONSHIPS--The student will be able to:		
	26.01	Demonstrate knowledge of how social, organizational, and technological systems work.	31–40, 80–102, 190–191	I

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	26.02	Explore methods used to monitor and correct performance of technological systems.	31–40, 109–119, 169–170, 661–663	I
	26.03	Design and implement an optimal solution to a given problem.	36–37, 82–84, 179–182, 192–202, 206–214, 224–241	I
	26.04	Outline major historical technological developments or events.	17–20, 24–27, 32–34, 60–72, 75–76, 97, 127–142, 144–148, 157–160, 165–168, 187, 224, 374, 413, 423–424, 451, 492, 530, 540–542, 584, 656–657, 692–695, 706–710	I
	26.05	Identify recent advances in technology.	27, 709–710	I
	26.06	Explain problem-solving roles of technology.	46–48, 178–187, 190–191, 206–214, 654–658	I
	26.07	Forecast a technological development or event.	49–53, 85–89	I
	26.08	Define technology.	16–27, 30–40	I
27		DEMONSTRATE THE ABILITY TO PROPERLY IDENTIFY, ORGANIZE, PLAN, AND ALLOCATE RESOURCES--The student will be able to:		
	27.01	Demonstrate the ability to select goal-relevant activities, rank them, allocate time, and prepare and follow schedules.	76	I
	27.02	Use or prepare budgets, make forecasts, keep records, and make adjustments to meet objectives.	669–670	I
	27.03	Demonstrate the ability to acquire, store, allocate, and use materials or space efficiently.	261–267	I
	27.04	Display a knowledge of the efficient use of human resources.	665–669	I
28		DISCUSS INDIVIDUAL INTERESTS AND APTITUDES AS THEY RELATE TO A CAREER--The student will be able to:		

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	28.01	Describe individual strengths and weaknesses.	178–189, 214–218	I
	28.02	Discuss individual interests related to a career.	185–187	I
	28.03	Identify careers within specific areas of technology.		
	28.04	Explore careers within specific areas of interest.		
29		DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:		
	29.01	Conduct a job search.	712	I
	29.02	Secure information about a career.	712	I
	29.03	Identify documents that may be required when applying for a job interview.	712	I
	29.04	Complete a job application form correctly.	712	I
	29.05	Demonstrate competence in job interview techniques.	712	I
	29.06	Prepare a resume for a job.	712	I
30		DEMONSTRATE AN UNDERSTANDING OF ENTREPRENEURSHIP--The student will be able to:		
	30.01	Define entrepreneurship.	62, 640-641	I
	30.02	Describe the importance of entrepreneurship to the American economy.	640-651	I
	30.03	List the advantages and disadvantages of business ownership.	640-651	I
	30.04	Identify the risks involved in ownership of a business.	640-651	I
	30.05	Identify the necessary personal characteristics of a successful entrepreneur.	640-651	I
	30.06	Identify the business skills needed to operate a small business efficiently and effectively.	640-651	I
31		MAKE AN INFORMED AND MEANINGFUL CAREER CHOICE--The student will be able to:		

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	31.01	Make a tentative occupational choice based on the information learned and interest developed in this course.	640-651	I
	31.02	Review tentative occupational choices based on the information learned and interest developed in this course.	640-651	I
32		IDENTIFY EVOLVING TECHNOLOGIES IN OUR TECHNOLOGICAL WORLD--The student will be able to:		
	32.01	List five technologies that did not exist five years ago.	Throughout text	I
	32.02	Use the problem-solving process to generate three potential improvements to a recent or evolving technology.	Throughout text	I
33		DEMONSTRATE KNOWLEDGE OF THE BASIC PRINCIPLES OF TECHNOLOGY, THE BASIC ELEMENTS OF ALL SYSTEMS, AND THE COMPONENTS OF EACH BASIC ELEMENT--The student will be able to:		
	33.01	Define the six basic principles of technology: force, work, rate, resistance, energy, and power.	34-35, 50, 53, 56, 65, 72, 74-75, 91-92, 122, 129-130, 144-145, 160-163, 235-236, 271-272, 298, 301-304, 471, 479, 480-481, 486-488, 502, 526-535, 538-540, 553-554, 556-560	I
	33.02	Name and define the three basic elements of all systems.	34-35, 50, 53, 56, 65, 72, 74-75, 91-92, 122, 129-130, 144-145, 160-163, 235-236, 271-272, 298, 301-304, 471, 479, 480-481, 486-488, 502, 526-535, 538-540, 553-554, 556-560	I

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	33.03	Name components of the three basic elements of a system.	34–35, 50, 53, 56, 65, 72, 74–75, 91–92, 122, 129–130, 144–145, 160–163, 235–236, 271–272, 298, 301–304, 471, 479, 480–481, 486–488, 502, 526–535, 538–540, 553–554, 556–560	I
	33.04	Name the six basic parts of the energy system.	34–35, 50, 53, 56, 65, 72, 74–75, 91–92, 122, 129–130, 144–145, 160–163, 235–236, 271–272, 298, 301–304, 471, 479, 480–481, 486–488, 502, 526–535, 538–540, 553–554, 556–560	I
	33.05	State the function of each of the basic parts of the energy system.	34–35, 50, 53, 56, 65, 72, 74–75, 91–92, 122, 129–130, 144–145, 160–163, 235–236, 271–272, 298, 301–304, 471, 479, 480–481, 486–488, 502, 526–535, 538–540, 553–554, 556–560	I
	33.06	Name and explain the functions of the four common working energy systems: mechanical, electrical, fluid, and thermal.	34–35, 50, 53, 56, 65, 72, 74–75, 91–92, 122, 129–130, 144–145, 160–163, 235–236, 271–272, 298, 301–304, 471, 479, 480–481, 486–488, 502, 526–535, 538–540, 553–554, 556–560	I
34		DEMONSTRATE KNOWLEDGE AND PERFORM SPECIAL SKILLS UNIQUE TO THE PHYSICAL TECHNOLOGIES--The student will be able to:		
	34.01	Define the function of construction technology, energy and power technology, manufacturing technology, and transportation technology.	Throughout text	I
	34.02	Describe three careers for each of the physical technologies identified in 14.01.	614-634	I
	34.03	Identify and demonstrate the tools, processes, and materials used in construction technology.	63,69,318-342	I

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	34.04	Identify and demonstrate the equipment, processes, and materials used in energy and power technology for converting and transmitting power.	525-562	I
	34.05	Identify and demonstrate the tools, processes, and materials used in manufacturing technology to perform computer-aided manufacturing.	290-313	I
	34.06	Identify and demonstrate various ways that people and goods are transported.	465-473	I
	34.07	Demonstrate problem-solving skills relative to the physical technologies utilizing the techniques learned in this course.	36-37, 80, 82-84, 178-188	I
35		DEMONSTRATE KNOWLEDGE AND PERFORM SPECIAL SKILLS UNIQUE TO THE INFORMATION/COMMUNICATION TECHNOLOGIES--The student will be able to:		
	35.01	Define the function of information processing technology, graphic communication technology, and electronic communication technology.	361-462	I
	35.02	Describe three careers for each of the communications technologies identified in 15.01.	361-371	I
	35.03	Identify and demonstrate the tools, processes and materials used in the information/communication technologies.	361-371	I
	35.04	Compare and contrast different processes of communication technologies.	361-371	I
	35.05	Demonstrate modern communication systems using sound and speech, symbols and codes, printed words, drawing and pictures.	361-371	I

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	35.06	Identify the function of information processing technology, graphic communication technology, and electronic communication technology.	361-371	I
	35.07	Identify several telecommunication services.	361-371	I
	35.08	Demonstrate problem-solving skills relative to the information communication technologies utilizing the techniques learned in this course.	361-371	I
36		DEMONSTRATE KNOWLEDGE AND PERFORM SPECIAL SKILLS UNIQUE TO THE BIOTECHNOLOGIES-- The student will be able to:		
	36.01	Define the function of biotechnology, medical technology, food production technology, and agriculture technology.	565-636	I
	36.02	Describe three careers for each of the technology areas in 16.01.	565-636	I
	36.03	Explain the three areas into which modern biotechnology is divided.	565-636	I
	36.04	Contrast the seven resources for biotechnology with other technologies.	566-636	I
	36.05	Identify several impacts of biotechnology on society and the environment.	566-636	I
	36.06	Identify the role of biotechnology in agriculture, food production, and medicine.	566-636	I
	36.07	Identify and describe the processes used in biotechnology and the related areas of produce outputs.	566-636	I
	36.08	Identify several outputs of biotechnology and their related biotechnologies.	566-636	I

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	36.09	Demonstrate problem solving skills relative to biotechnology, or a related biotechnology utilizing the techniques learned in this course.	566-636	I