Architectural Graphics– Grade Levels 10-12
TEKS Manager

Credit: ½

Place a check (√) in each column to show when TEKS taught.

	TEKS	1st 6 wks	2nd 6 wks	3rd 6 wks	4th 6 wks	5th 6 wks	6th 6 wks
(b) Introduction. In Technology Education, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems. Knowledge and skills in the proper application of technology, the design of technology, the efficient production of technology, and the assessment of the effects of technology prepare students for success in the modern world. The study of technology **allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings**. In addition to their general academic and technical knowledge and skills, students gain an understanding of career opportunities available in technology and what employers require to gain and maintain employment in these careers. (c) Knowledge and skills.							
(1) The student **applies** architectural graphics technology to practical problems. The student is expected to:	(A) **apply** architectural graphics technology to individual and community problems;						
	(B) **describe** the factors that affect the use of architectural graphics products and services; and						
	(C) **identify** and describe the roles of architectural graphics in business and industry.						
(2) The student **uses** the appropriate architectural graphic design processes and techniques to develop a variety of architectural drawings. The student is expected to:	(A) **develop** or improve architectural drawings that conform to industry standards; and						
	(B) **identify** areas where the quality and reliability of communication can be improved using architectural graphics technology.						
(3) The student **investigates** emerging and innovative architectural graphic	(A) **report** on emerging and innovative architectural graphic technologies; and						

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technologies. The student is expected to:	(B) **describe** the advantages and disadvantages of changes in architectural graphic technology.						
(4) The student **describes** quality and how it is measured in architectural graphics. The student is expected to:	(A) **use** different quality control applications in architectural graphics; and						
	(B) **apply** continuous quality improvement techniques to the production of architectural drawings.						
(5) The student **produces** a variety of architectural drawings using the appropriate tools, equipment, machines, materials, and processes. The student is expected to:	(A) **describe** the tools						
	(B) **use** a variety of architectural graphics tools						
(6) The student **works** safely with architectural graphics technology. The student is expected to:	(A) **master** relevant safety tests;						
	(B) **follow** safety manuals, instructions, and requirements;						
	(C) **identify** and classify hazardous materials and wastes; and						
	(D) **dispose** of hazardous materials and wastes appropriately.						
(7) The student **demonstrates** proper maintenance of architectural graphics tools, equipment, and machines. The student is expected to:	(A) **handle** and store tools and materials correctly;						
	(B) **locate** and perform manufacturers' maintenance procedures on selected tools, equipment, and machines; and						
	(C) **determine** when items may require service or replacement.						
(8) The student **manages** an architectural graphics technology project. The student is expected to:	(A) **develop** a plan for completing an architectural graphics technology project;						
	(B) **participate** in the organization and operation of a real or simulated architectural graphics project; and						
	(C) **determine** the resources needed to complete a project.						
(9) The student **applies** the appropriate codes, laws, standards, or regulations related to architectural graphics technology, such as Occupational Safety and Health Administration (OSHA), National Electrical	(A) **identify** areas where codes, laws, standards, or regulations may be required;						
	(B) **follow** the appropriate codes, laws, standards, or regulations; and						

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Code (NEC), American Society for Testing Materials (ASTM), standard symbols, and line weights. The student is expected to:	(C) **locate** and use the standards and conventions used in the architectural graphics industry.						
(10) The student **solves** problems, thinks critically, and makes decisions related to architectural graphics. The student is expected to:	(A) **develop** or improve a product by following a problem						
	(B) **apply** critical						
	(C) **apply** decision						
(11) The student describes the factors that influence the cost of producing architectural graphics drawings. The student is expected to:	(A) **develop** a budget for architectural graphics project; and						
	(B) **determine** the most effective strategies to minimize costs.						
(12) The student **applies** his/her communication, mathematics, and science knowledge and skills to architectural graphics activities. The student is expected to:	(A) **use** written, verbal, and visual communication techniques consistent with industry standards;						
	(B) **use** mathematics concepts in architectural graphics technology;						
	(C) **identify** and apply science principles used in architectural graphics technology; and						
	(D) **use** the appropriate scales for measuring.						
(13) The student **describes** the importance of teamwork, leadership, integrity, honesty, work habits, and organizational skills. The student is expected to:	(A) **describe** how teams function;						
	(B) **use** teamwork to solve problems;						
	(C) **distinguish** between the roles of team leaders and team members;						
	(D) **identify** characteristics of good leaders;						
	(E) **identify** employers' expectations and appropriate work habits;						
	(F) **define** discrimination, harassment, and equality;						
	(G) **use** time management techniques to develop and maintain work schedules and meet deadlines; and						
	(H) **complete** his/her work according to established criteria.						