

Course Overview	Advanced Engineering Design and Presentation II is a continuation of the knowledge and skills learned in Engineering Design and Presentation. Students enrolled in this course will demonstrate advanced knowledge and skills in the system design process as it applies to engineering fields and project management, using the software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will expand on the use of a variety of computer hardware and software applications to complete assignments and projects. Through the implementation of a system design process, students will transfer advanced academic skills to component designs and engineering systems. Emphasis will be placed on transdisciplinary and integrative approaches, drawing on skills in ideation, prototyping, and project management.
Course Standards	Rule §127.405 Advanced Engineering Design and Presentation

Scope & Sequence

Units/Modules & Instructional Days		Assessments & Scanning Deadlines	Standards
Unit 1: Engineering Sketching Production Drawing 20 days		TX_CTE_11thAEDNP_F26_UE1 Scanning Deadline: September 21, 2026	Unit Standards
Unit 2: Computer-Aided Design and Drafting 21 days		TX_CTE_11thAEDNP_F26_UE2 Scanning Deadline: October 23, 2026	
Unit 3: Prototyping 21 days		TX_CTE_11thAEDNP_F26_UE3 Scanning Deadline: November 30, 2026	
Unit 4: Project Management & Systems Engineering 23 days		TX_CTE_11thAEDNP_S27_UE4 Scanning Deadline: January 27, 2027	
Unit 5: Advanced Engineering Solutions and Presentation 23 days		TX_CTE_11thAEDNP_S27_UE5 Scanning Deadline: March 3, 2027	
Unit 6: Ethics, Diversity, & Workplace Safety 13 days		TX_CTE_11thAEDNP_S27_UE6 Scanning Deadline: March 31, 2027	
Unit 7: Professionalism, Communication, & Teamwork 10 days		TX_CTE_11thAEDNP_S27_UE7 Scanning Deadline: April 14, 2027	
Final Exam Windows			
Region	Exam Window	Scanning Deadline	
Dallas – Fort Worth (DFW)	May 17 – 21, 2027	May 21, 2027	
El Paso (EP)	May 10 – 14, 2027	May 14, 2027	
Permian Basin (PB)	May 17 – 21, 2027	May 21, 2027	
San Antonio (SA)	May 12 – 18, 2027	May 18, 2027	
Rio Grande Valley (RGV)	May 17 - 21, 2027	May 21, 2027	

TEKS Alignment

Instruction in this course is aligned to the Texas Essential Knowledge and Skills (TEKS) as adopted by the State Board of Education and implemented in accordance with Texas Education Code Chapter 28.

Instructional Materials

Primary Texts (if applicable)

Supplemental instructional materials may be used to support instruction. Supplemental materials do not replace board-approved core instructional materials.

Additional information regarding instructional programs, assessments, and parent access to instructional materials is available on the district website.

Instructional Expectations

Instruction is delivered using board-approved instructional materials and aligned to the scope and sequence outlined above. Teachers are expected to ensure all required standards are taught within the course timeframe.

Assessment Overview

Student learning is monitored through formative and summative assessments aligned to course standards. Assessment results are used to inform instruction and student supports. Students participate in required state assessments when applicable.