

Advanced Construction Overview

- **Academic Year:** 2025-2026
- **Periods:** 80 min daily
- **Total Weeks:** 36 (4 grading periods of 9 weeks each)
- **TEKS Abbreviations:** C2 = Construction II TEKS

Example: C2.1(A) = Construction II Strand 1, subskill A

GP	Wks	Unit & Focus	Major Learning Tasks & Assessments	Integrated TEKS	Extension Activities
1	1-2	Unit 1 – Advanced Employability & Safety	Jobsite safety audits, OSHA 30 prep, update training logs	• C2.1(A-E) • C2.2(A-D)	CTSO OSHA poster campaign, personal PPE evaluation
1	3-5	Unit 2 – Interpreting & Modifying Construction Plans	Project plan analysis, blueprint revisions, client spec integration	• C2.3(A-D) • C2.6(C) • C2.7(A-B)	Mock client reviews, sketch-up redline exercises
1	6-9	Unit 3 – Structural Systems: Framing Complex Structures	Advanced wall/roof/floor system builds, materials calculations	• C2.5(A-D), C2.4(A-B)	Geometry in framing, advanced truss design challenge
2	10-12	Unit 4 – Exterior Finishes & Openings	Install custom windows/doors, siding types, flashing and waterproofing	• C2.6(A-C)	Install guidebook design, vendor research
2	13-15	Unit 5 – Interior Finishes	Drywall, texture, paneling, molding, baseboards, trim installation	• C2.8(A-C)	Interior finishing style board, joint compound lab
2	16-17	Unit 6 – Stairs, Rails, and Specialty Framing	Construct small-scale stairs, install railings, ADA framing adaptations	• C2.5(B-D)	Accessibility standards study, railing code lab
2	18	Semester 1 Exams	Practical exam & written project plan critique	--	Group walkthrough, OSHA 30 quiz review

3	19-21	Unit 7 – Mechanical, Electrical, Plumbing (MEP)	Install MEP elements into framed structure, read system plans	• C2.9(A-E)	Guest tradespeople Q&A, mock permitting lab
3	22-24	Unit 8 – Sustainable & Energy-Efficient Construction	LEED research, radiant barriers, insulation types	• C2.10(A-B), • C2.7(C)	Eco-house design, material life cycle analysis
3	25-27	Unit 9 – Advanced Tools & Equipment	Equipment operations, maintenance procedures, specialty tool techniques	• C2.11(A-B)	Tool troubleshooting clinic, log sheet audits
4	28-30	Unit 10 – Pre-Construction & Site Planning	Surveying, zoning, staging, job costing, pre-site documentation	• C2.12(A-C)	Sample site plan creation, cost estimator software
4	31-33	Unit 11 – Capstone Project Build	Group build: interpret client plans, schedule, construct, document	Reinforced All	Client presentation checklist, daily build logs
4	34-35	Unit 12 – Capstone Reflection & Presentation	Project showcase, report writing, career portfolio updates	Reinforced All	Capstone portfolio, mock interview panel
4	36	Semester 2 Exams	Final exam (written + demonstration), tool skills test	--	Post-test review, certification prep

TEKS Coverage Checklist

Advanced Construction

TEKS Strand	YAG Unit(s)	TEKS Codes	Coverage Description
Employability Skills	Unit 1	C2.1(A–E)	Demonstrates leadership, communication, and professionalism in construction settings
Safety Practices	Unit 1	C2.2(A–D)	Applies jobsite safety, OSHA procedures, and PPE protocols
Construction Drawings	Units 2, 11	C2.3(A–D)	Interprets, modifies, and applies working plans, blueprints, and client revisions
Communication Skills	Units 2, 8	C2.7(A–C)	Communicates with clients and interprets project specs and environmental data
Construction Math & Materials	Unit 3	C2.4(A–B)	Uses construction math to determine materials, costs, and measurements
Framing Systems	Units 3, 6	C2.5(A–D)	Constructs complex framing, including stairs and specialty structures
Exterior & Interior Finishing	Units 4–5	C2.6(A–C), C2.8(A–C)	Installs openings, finishes, and trim using industry techniques
MEP Systems Integration	Unit 7	C2.9(A–E)	Demonstrates layout, install, and safety procedures for MEP systems
Sustainable Practices	Unit 8	C2.10(A–B)	Applies green building practices and energy efficiency strategies
Tools & Equipment Use	Unit 9	C2.11(A–B)	Operates and maintains construction tools and heavy equipment
Site Planning & Pre-Construction	Unit 10	C2.12(A–C)	Conducts preconstruction planning and site layout using surveys and software
Capstone Integration	Units 11–12	Reinforced All	Synthesizes learning through group builds, presentations, and portfolios

TEKS Coverage Checklist

Health Science Theory

TEKS Strand	YAG Unit(s)	TEKS Codes	Coverage Description
Employability Skills	Unit 1	T1	Demonstrates professionalism and soft skills in the healthcare workplace.
Customer Service	Unit 2	T2	Communicates medical info with empathy and clarity.
Academic Foundations	Units 3, 5–6, 11–13	T3	Applies academics across healthcare situations.
Communication	Unit 4	T4	Displays effective communication in diverse healthcare contexts.
Relationships	Unit 4	T5	Uses communication skills to support workplace relationships.
Health Records	Units 7, 11, 13	T6	Prepares and documents accurate patient records.
Career Preparation	Unit 1	T7	Explores health science careers and employment protocols.
Decision Making	Units 12, 15	T8	Solves healthcare problems using decision-making frameworks.
Clinical Skills	Units 6–12	T9	Demonstrates clinical competencies in simulations or settings.
Legal and Ethical	Units 5, 13	T10	Evaluates professional responsibilities and ethical codes.
Leadership	Units 1, 15	T11	Practices leadership within collaborative healthcare teams.
Safety	Units 3, 5, 13	T12	Implements workplace safety and infection protocols.
Wellness & Prevention	Units 6, 9	T13	Promotes wellness and explores alternative practices.