

For discussion: A comprehensive update to CTE courses and materials

There are currently **323** unique TEKS-based CTE courses and **117** CTE innovative courses.

To best support students who pursue career preparation in high school, schools should have access to 100% of the courses and materials required in the refreshed programs of study as quickly as feasible. This can be done if the SBOE takes action over the next **36 months** to

- (1)** adopt new courses,
- (2)** adopt innovative courses as TEKS-based courses,
- (3)** amend existing courses (if needed), and
- (4)** approve CTE materials through the Instructional Materials Review & Approval process.

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| 2024 | Adopt new and amended TEKS for a set of CTE courses
Prepare for CTE Batch 1 IMRA 2025. |
| 2025 | Adopt new and amended TEKS for a second set of CTE courses to prepare for CTE Batch 2 IMRA 2026.

Conduct CTE Batch 1 IMRA 2025. Batch 1 would include all CTE courses that have been adopted, amended, or determined not to need changes by November 2024. |
| 2026 | Adopt new and amended TEKS for a final set of CTE courses to prepare for CTE Batch 3 IMRA 2027.

Conduct CTE Batch 2 IMRA 2026. Batch 2 would include all CTE courses for which TEKS have been adopted or amended by November 2025. |
| 2027 | Conduct CTE Batch 3 IMRA 2027. Batch 3 would include all CTE courses for which TEKS have been adopted or amended by November 2026. |

Number of CTE courses by program of study

Career Cluster	Program of Study	Existing TEKS-based Courses	Courses that require SBOE action	
			New courses needed	Innovative Courses
Agriculture, Food, and Natural Resources	Agriculture Business, Leadership, and Communications	13	0	1
	Animal Science	16	0	0
	Agricultural Technology and Mechanical Systems	15	1	1
	Environmental and Natural Resources	17	1	1
	Food Science and Technology	12	1	0
	Plant Science	18	0	2
Architecture and Construction	Architectural Drafting and Design	15	0	2
	Carpentry	11	0	0
	Construction Management and Inspection	12	0	0
	Electrical	10	0	0
	HVAC and Sheet Metal	10	0	1
	Masonry	12	0	0
	Plumbing and Pipefitting	12	0	4
Arts, Audio Visual Technology and Communications	Graphic Design and Interactive Media	35	1	4
	Digital Communications	17	1	1
	Printing and Imaging (regional)	13	0	0
Business, Marketing, and Finance	Accounting and Financial Services	17	0	0
	Business Management	17	0	0
	Entrepreneurship	14	0	1
	Marketing and Sales	17	0	4
	Real Estate (new)	13	1	2
	Retail Management (regional)	7	0	2

Number of CTE courses by program of study

Career Cluster	Program of Study	Existing TEKS-based Courses	Courses that require SBOE action	
			New courses needed	Innovative Courses
Education and Training	Early Learning	9	0	3
	Teaching and Training	10	0	1
Energy	Oil and Gas Exploration and Production	9	0	3
	Refining and Chemical Processes	8	0	3
	Renewable Energy	16	0	2
Health Science	Exercise Science, Wellness and Restoration	14	0	14
	Health Informatics	16	1	2
	Diagnostic and Therapeutic Services	17	1	16
	Nursing Science	14	0	3
	Biomedical Science	16	0	6
Hospitality and Tourism	Culinary Arts	15	0	4
	Lodging and Resort Management	10	0	3
	Travel, Tourism and Attractions	13	0	3
Human Services	Family and Community Services	16	0	3
	Health and Wellness	15	0	2
	Cosmetology and Personal Care Services (regional)	10	0	5
Information Technology	Information Technology Support and Services	13	0	7
	Networking Systems	15	0	3
	Web Development	16	0	2
	Cybersecurity	24	0	4
	Programming and Software Development	26	0	2

Number of CTE courses by program of study

Career Cluster	Program of Study	Existing TEKS-based Courses	Courses that require SBOE action	
			New courses needed	Innovative Courses
Law and Public Service	Fire Science	10	4	2
	Government and Public Administration	12	0	1
	Law Enforcement	12	1	1
	Legal Studies	10	1	3
Manufacturing	Robotics and Automation Technology	11	0	4
	Manufacturing Technology	13	0	5
	Welding	11	0	2
	Industrial Maintenance	10	2	1
Engineering (new)	Engineering Foundations	19	7	7
	Mechanical and Aerospace Engineering (new)	15	5	5
	Electrical Engineering (new)	21	1	6
	Civil Engineering (new)	14	6	4
	Geospatial Engineering and Land Surveying (regional)	9	0	2
	Drone (Unmanned Vehicle) (regional)	10	0	2
Transportation, Distribution, and Logistics	Automotive and Collision Repair	20	1	1
	Aviation Maintenance	10	3	1
	Diesel and Heavy Equipment Maintenance and Commercial Drivers	12	1	1
	Distribution, Logistics, and Warehousing	10	1	4
	Aviation (Pilots)	7	1	4
	Maritime (regional)	6	0	6
Varies	**Courses not in a program of study	19	0	9

Recall: Changes to programs of study resulted in the need for development of 35 new courses

New TEKS are needed for **35** new courses in **8** different career clusters representing **20** programs of study.

3 agriculture, food, and natural resources courses are needed:

- Conservation and Natural Resources Management
- Meat Processing/Lab
- Advanced Agriculture Power System

2 arts, audio visual technology and communications courses are needed:

- AI Video Editing
- Virtual Production

1 business, marketing, and finance course is needed:

- Commercial Lending and Real Estate

15 engineering courses are needed:

- Introduction to Fluids
- Introduction to Mechanics of Materials
- Introduction to Statics
- Engineering Design Process
- Programming for Engineers
- Construction Engineering
- Construction Engineering and Management
- Civil Engineering I
- Civil Engineering II
- Aerospace Design I
- Aerospace Design II
- Mechanical Design I
- Mechanical Design II
- Surveying
- Practicum in Engineering

2 health science courses are needed:

- Public Health
- Sterile Processing

5 law and public service courses are needed:

- Fundamentals of Fire Protection
- Fire Prevention and Protection Systems
- Fire Prevention Codes and Inspections
- Crisis Care
- Civil Law and Procedures

2 manufacturing courses are needed:

- Industrial Maintenance
- Mechanical Maintenance

5 transportation, distribution, and logistics courses are needed:

- Nondestructive Testing/Nondestructive Inspection Technology/Lab
- Advanced Transportation Systems/Lab
- Aircraft Avionics Technology
- Instructor Ground School
- Customer Service Representative

Availability of instructional materials for the new courses will be particularly important for **new** courses.