

# Programs of Study Refresh



- Programs of study are coherent sequences of CTE courses within a career cluster that increase in rigor from Level 1 to Level 4; when completed, programs of study improve the level of preparation a student has to work in targeted occupations.
- Programs of study were first established in Texas in 2019, as a result of the federal reauthorization of the Perkins Strengthening Career and Technical Education for the 21st Century Act; implementation was first required in the 2020-21 school year.
- In 2019, Texas identified 14 career clusters and, within them, a total of 53 statewide programs of study.
- Texas adopted a plan under Perkins to update its programs of study once every four years.
- That update has taken place, and updated Programs of Study list is available for school districts to use starting with the 2024-25 school year.

## **TEAR Programs of Study Implementation Support Timelines**

#### **October 2023:**

- ✓ Announced that updates to the programs of study were complete
- ✓ Published a change crosswalk to support planning

#### December 2023:

 Published updated program of study alignment reports in the CTER application in TEAL

#### January – March 2024:

□ Conduct regional tour to field questions and inform resource development

We Are Here

Publish updated framework documents

#### Spring – Summer 2024:

□ Publish additional implementation resources and tools

## **TEAR** Summary of Programs of Study Refresh Changes

- Established a common Level 1 course across all programs of study in each career clusters
- Combined a few similar programs of study in Health Science career cluster
- Added new program of study to Business, Marketing and Finance
  - Real Estate
- Transitioned 2 regional programs of study to statewide
  - Industrial Maintenance
  - Pilots and Aviation

- Renamed STEM career cluster to Engineering
- Moved certain programs of study from the former STEM career cluster to more appropriate career cluster
  - Biomedical Science -> Health Science
  - Cybersecurity -> Information Technology
  - Programming and Software Development -> Information Technology
  - Renewable Energy -> Energy
- Adjusted & added new programs of study to Engineering career cluster
  - Engineering Foundations (Renamed)
  - Mechanical and Aerospace Engineering (New)
  - Electrical Engineering (New)
  - Civil Engineering (New)



Changes to programs of study are additive and should not negatively impact students who have already started a program of study.

- No programs or courses were eliminated through the refresh although some programs were combined or renamed.
- Changes will not affect the completer status of students who started a program of study prior to the refresh.
- All new programs of study will have at least one approved course at every level beginning in 2024-25.
- There are no changes to current teacher assignment rules because of the refresh.

### **TEAC Refreshed Program of Study Frameworks are now published on the TEA website**

#### 2024-2025 CTE Programs of Study

NEW Refreshed programs of study will be implemented beginning with the 2024-2025 school year. Changes to programs of study are additive and should not negatively impact students who have already started a program of study.

Framework documents for each refreshed statewide and regional program of study are posted below. They include comprehensive information about approved courses and aligned industry-based certifications. In addition, they provide examples of work-based learning opportunities, postsecondary training opportunities, and occupations aligned to the program of study. Frameworks related to the 2023-2024 school year can be found here.

https://tea.texas.gov/academics/collegecareer-and-military-prep/career-and-technicaleducation/2024-2025-cte-programs-of-study



## **Program of Study framework documents published on** the TEA website include comprehensive lists of options

### **Primary Framework Information**

- Career Cluster Description ٠
- Program of Study Description ٠
- Secondary Courses by Level ٠
- Work-Based Learning and Expanded • Learning Opportunities
- Aligned Industry-Based Certifications • and licenses attainable by high school students
- Postsecondary Opportunities
- Aligned Occupations •
- **Detailed Course Information**

	Education and Training	Career Cluster
	The Education and Training Career Cluster focuses on plann services and related learning support services. All parts of co careers available within the Education and Training Career C	ourses are designed to introduce learners to the various
Statewide P	Program of Study: Early Learning	
early elementary sch	ogram of Study focuses on early childhood education, which ( ool students in activities that promote social, physical, and int ure. This Program of Study introduces CTE learners to tasks n iildren.	ellectual growth as well as in basic elements of science
Second	lary Courses for High School Credit	
Level 1	Principles of Education and Training     Principles of Human Services	
Level 2	Child Development     Child Development Associate (CDA)     Foundations     Speech and Language Development	Example Postsecondary Opportunitie Apprenticeships •Teacher Apprentice
Level 3	Child Guidance     Speech and Communication Disorders	Associate Degrees •Teacher Education, Multiple Levels • <u>Child Care</u> Provider/Assistant
Level 4	Practicum in Early Learning     Practicum in Early Learning/Extended     Practicum in Early Learning     Career Preparation for Programs of Study     Career Preparation for Programs of     Study/Extended Career Preparation for     Programs of Study     Career and Technical Education Project-Based     Capatone	Bachelor's Degrees -Elementary Education and Teaching -Early Childhood and Family Studies Master's, Doctoral, and Professional Degrees -Educational Leadership and Administration, General -Education, General Additional Stackable IBCs/Licensures -Generalist, Grades IEC-4
Ali	gned Advanced Academic Courses	Generalist, Grades EC-4
IB courses not listed under	Dual credit offerings will vary by Local Educational Agency. to consider these course opportunities to enrich their preparation. AP or the Secondary Courses for High School Credit section of His framework ands Concentrator/Completer status for this Program of Study.	Example Aligned Occupations Childcare Workers Median Wage: 522,002 Annual Opening: 21,177 10-Year Growth: 5%
Work-Based Le	earning and Expanded Learning Opportunities	Preschool Teachers, Except
Work-Based Learning Activities Expanded Learning Opportunities	Teach a community education class     Volunteer as a traching assistant     Participate in Family, Career and Community Leaders of America (FCCLA)     Participate in Texas Association of Future Educators	Special Education Median Wage: \$28,920 Annual Openings: 5,995 10-Year Growth: 23%
Alig Child Development A: Early Childhood Educ: and Care - Advanced Early Childhood Educ:	Pre-Professional Certification in Early     Childhood Education	Elementary School Teachers, Except Special Education Median Wage: 560,851 Annual Openings: 12,940 10-Year Growth: 15%
	ampletion of the Early Learning Program of Study ฟฟฟี ก็ปฏิปี requirements : Service endorsement. Revised – October 2023	Data Kowcne Lightcant <sup>10</sup> , (2022), Occapation Table, Patriwed 9/27/2022. For more information visit: https://hos.tuxac.gov/academics/colleap-career-and- https://hos.tuxac.gov/academics/colleap-career-and- https://hos.tuxac.gov/academics/colleap-career-and-



**Education and Training Career Cluster** 

Statewide Program of Study: Early Learning

#### Course Information

Course	Prerequisites   Corequisites	Career Clusters
Principles of Education and Training* 13014200 (1 credit)	Prerequisites: None Corequisites: None	de.
Principles of Human Services 13024200 (1 credit)	Prerequisites: None Corequisites: None	the ste

Course	Prerequisites   Corequisites	Career Clusters
Child Development 13024700 (1 credit)	Prerequisites: None Corequisites: None	<b>\$</b>
Child Development Associate (CDA) Foundations N1300500 (1 credit)	Prerequisites: None Corequisites: None	the ste
Speech and Language Development N1302098 (1 credit)	Prerequisites: None Corequisites: None	<b>4</b> 20 🐼

	Course	Prerequisites   Corequisites	Career Clusters
Level 3	Child Guidance 13024800 (2 credits)	Prerequisites: None Corequisites: None	*
	Speech and Communication Disorders N1302099 (1 credit)	Prerequisites: None Corequisites: None	♣. ⊗
	* Indicates course is included in more than one	Program of Study.	
		information on the Education and Training Career Cluster, <a href="mailto:cte@tea.texas.gov/cte">cte@tea.texas.gov/cte</a>	
TE		soler, national origin, son, or disability in its programs or activities and provides equal access to the Box/S andle inpatien regarding the roadincrimination policies: (title), (address), (telephone namber), Jernell J Fo war and Technici Education Programs.	



## **Resources to Support Programs of Study Implementation**

## **TEA** 2024-25 Programs of Study Change Crosswalk

# In October 2023, TEA released a change crosswalk to serve districts in program planning for the refreshed programs of study.

2020-2021 through 2023-2024 Program of Study Title	2024-2025 Program of Study Title	al 2024-2025 Program of Study Status
Accounting and Financial Services	Accounting and Financial Services	No Name Change
Advanced Manufacturing and Machinery Mechanics	Robotics and Automation Technology	Name Change in 2024-2025
Agribusiness	Agriculture Business, Leadership, and Communications	Name Change in 2024-2025
Animal Science	Animal Science	No Name Change
Applied Agricultural Engineering	Agricultural Technology and Mechanical Systems	Name Change in 2024-2025
Architectural Design	Architectural Drafting and Design	Name Change in 2024-2025
Automotive	Automotive and Collision Repair	Name Change in 2024-2025
Aviation Maintenance	Aviation Maintenance	No Name Change
Bio-Medical Science	Bio-Medical Science	No Name Change
Business Management	Business Management	No Name Change
Carpentry	Carpentry	No Name Change
Cosmetology and Personal Care Services	Cosmetology and Personal Care Services	No Name Change
Culinary Arts	Culinary Arts	No Name Change
Cybersecurity	Cybersecurity	No Name Change
Diesel and Heavy Equipment	Diesel and Heavy Equipment Maintenance and Commercial Drivers	Name Change in 2024-2025
Digital Communications	Digital Communications	No Name Change
Distribution and Logistics	Distribution, Logistics, and Warehousing	Name Change in 2024-2025
Early Learning	Early Learning	No Name Change
Electrical	Electrical	No Name Change
Emergency Services	Fire Science	Name Change in 2024-2025
Engineering	Engineering Foundations	Name Change in 2024-2025

#### 2024-2025 Programs of Study Change Crosswalk

## Use the crosswalk to:

- Find courses for new programs of study
- Find name changes for programs of study
- Find new courses within a program of study
- Identify TBD courses in programs of study
- Find information on new career clusters
- Find course IDs and credit information

# **TEAR** Labor Market Information (LMI) Reports

# In December 2023, TEA published updated LMI reports for each Workforce Development Area in the state.

	Panhandle Workforce Development Area (1) Labor Market Information, 2021 - 2031										
State Career Cluster Arts, Audio Visual Technology and	Program of Stud ▼ Digital Communications	<b>SO(</b> ▼ 27-3011	Occupational Title Broadcast Announcers and Radio Disc Jockeys	Ŧ	Growth Rat(▼ 115%	Median Annual Wage ▼ \$74,910	Growth Wage Category V ABOVE/ABOVE		Annual Average Employment 2031 96	Total Annual Opening • 14	Competitive Education Requireme Bachelor's degree
Communication Arts, Audio Visual Technology and Communication	Graphic Design and Interactive Media	27-1014	Special Effects Artists and Animators		92%	\$77,686	ABOVE/ABOVE	55	106	16	Bachelor's degree
Arts, Audio Visual Technology and Communication	Graphic Design and Interactive Media	27-1022	Fashion Designers		65%	\$58,983	ABOVE/ABOVE	13	22	3	Bachelor's degree
Arts, Audio Visual Technology and Communication	Graphic Design and Interactive Media	15-1252	Software Developers		45%	\$102,062	ABOVE/ABOVE	413	600	53	Associate degree
Arts, Audio Visual Technology and Communication	Graphic Design and Interactive Media	27-1024	Graphic Designers		39%	\$41,459	ABOVE/ABOVE	161	225	25	Bachelor's degree

#### LWDA Labor Market Information and Resources

### Use these reports to:

- Determine if programs of study you currently offer are high-wage, high-growth and in-demand in your region.
- Assess whether you should offer different and/or additional programs of study to meet regional labor market needs.



- Apprenticeship Opportunities (where applicable)
- Related Military Occupations
- Texas Postsecondary Opportunities
- Editable Framework Templates (to help advertise options to families in your schools)
- Updated IBC -> Programs of Study Crosswalk
- Program-specific Implementation Support Docs



## Shifts in Programs of Study and IBC Timelines

## **Current requirements for meeting CCMR have multiple** variables by graduating class

IBCs & Programs of Study work together to ensure strong career preparation and reinforces an alignment of programs and credentials to labor market needs.

**Class of 2024 (2025 accountability)** will receive CCMR credit for earning (not failed, not passed) an IBC and at least one level 2 course in the career and technical education program of study aligned with that IBC.

Annual Graduates	Accountability Year	IBC List	Program of Study
Class of 2022	2023	2019-2022 list with sunsetting limit	
Class of 2023	2024	2019-2022 and 2022-2025 lists with sunsetting limit	
Class of 2024	2025	2019-2022 and 2022-2025 lists with sunsetting limit	1 course in aligned program of study <sup>1</sup>
Class of 2025	2026	2022-2025 list	Concentrator in aligned program of study <sup>2</sup>
Class of 2026	2027	2022-2025 and 2025-2030 list with sunsetting limit	Completer in aligned program of study <sup>3</sup>
Class of 2027	2028	2025-2030 list	Completer in aligned program of study

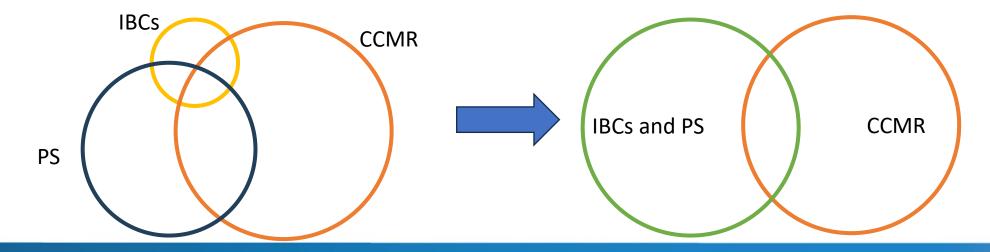


Three important cycles interact in CCMR:

- 1. The industry-based certification list is currently updated every <u>two</u> years
- 2. The programs of study are currently updated every <u>four</u> years
- 3. The accountability system is refreshed every <u>five</u> years

For future cycles we intend to adjust these timelines to enable a more coherent planning and implementation cycle for LEAs

- Move to 5-year cycle for both IBCs and Programs of Study
- Offset with CCMR's 5-year cycle.

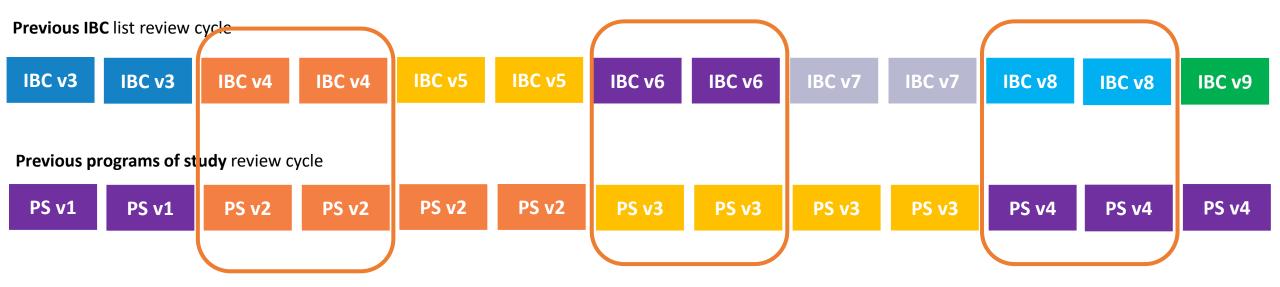




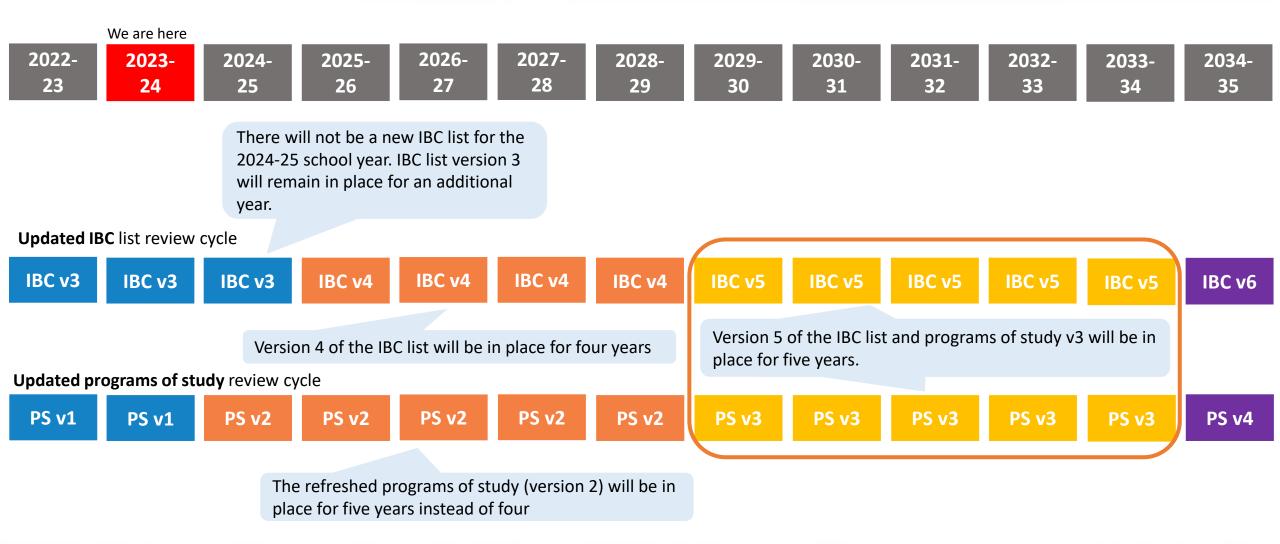
# Previously, the IBC list was scheduled to change every two years and new programs of study lists would update every four years.

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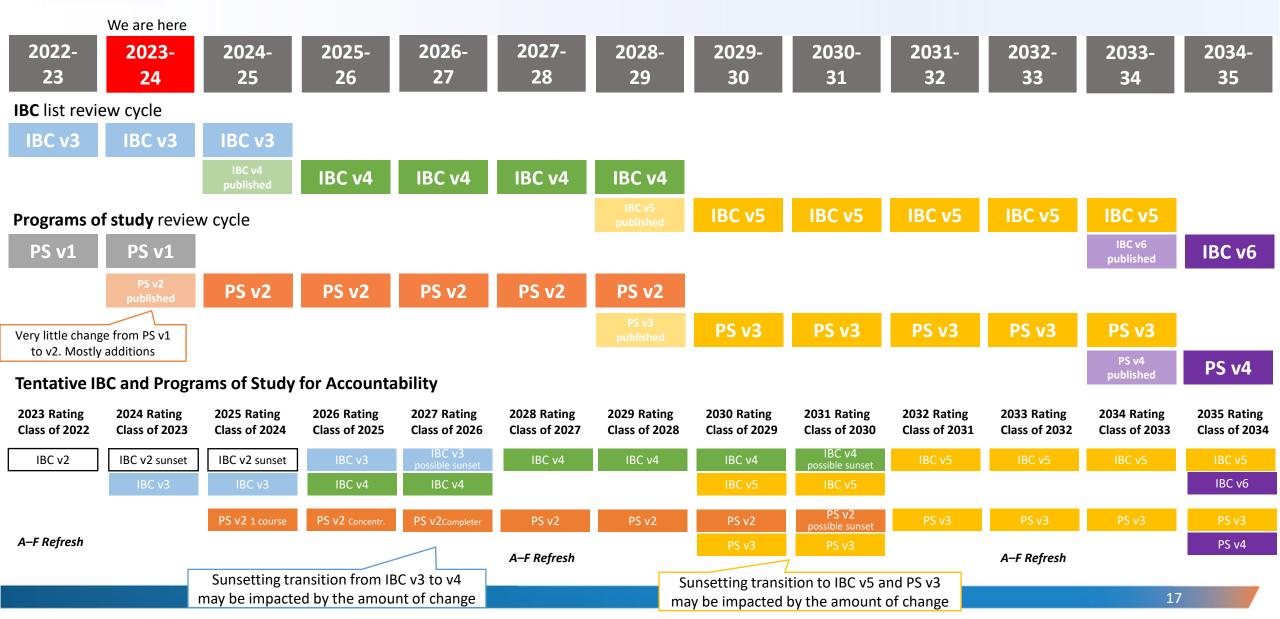
2022-	2023-	2024-	2025-	2026-	2027-	2028-	2029-	2030-	2031-	2032-	2033-	2034-
23	24	25	26	27	28	29	30	31	32	33	34	35



# Under the updated timeline, updates would be aligned every year beginning in 2029-2030.



## **TEXAS Education Agency** Updated IBC and programs of study review cycle aligns with accountability





## **CCMR Implications for Students who Change Programs of Study**

## **CCMR calculations &** Helping students prepare for careers of interest

- Being career ready means completing a significant study of the knowledge and skills required to work in a career, doing some work in the career, and obtaining an industry-based certification.
- Some students remain focused on a specific career path from an early age and go fully through a single path to obtain readiness.
- But many students refine or revise their career goals as they acquire knowledge and experiences. This is a good thing. Learning more about other career options and ruling out career options can often be just as important as obtaining readiness for a single career. But it isn't the same as obtaining readiness in a career.
- Programs of study have been designed to allow for career exploration. For example, Level 1 principles classes now work for all programs of study across a career cluster.
- Additionally, school system practices can help. For example, principles courses are often taught in grade 8 to help students with career exploration. Note: LEAs receive weighted CTE funding for students who complete a high school CTE course in grade 8.
- The following slides offer some illustration of how this can work.



#### Health Science

	Diagnostic and Therapeutic Services	Health Informatics	Nursing Science
Level	Principles of Health	Principles of Health	Principles of Health
1	Science	Science	Science
Level 2	Medical Terminology	Medical Terminology	Medical Terminology
Level 2	Pharmacy I		Science of Nursing
Level 3	Pharmacy II	Health Informatics	
Level	Health Science Theory +	Health Science Theory +	Health Science Theory +
3	Health Science Clinical	Health Science Clinical	Health Science Clinical
Level 3	Medical Microbiology		Medical Microbiology
Level	Career Prep for Programs	Career Prep for Programs	Career Prep for Programs
4	of Study	of Study	of Study
Level 4	Pathophysiology	Medical Billing and Coding	Pathophysiology
Level 4	Anatomy and Physiology		Anatomy and Physiology
Level 4	Pharmacology		Pharmacology
Level 4			Practicum in Nursing

Some career clusters offer considerable flexibility across programs of study.

#### Agriculture, Food, and Natural Resources

	Animal Science	Environmental and Natural Resources	Plant Science
Level	Principles of Agriculture,	Principles of Agriculture,	Principles of Agriculture,
1	Food and Natural	Food and Natural	Food and Natural
	Resources	Resources	Resources
Level	Equine Science	Wildlife, Fisheries, and	Landscape Design and
2	Equille Science	Ecology Management	Management
Level	Livestock Production	Range Ecology and	Viticulture
3		Management	viticulture
Level		Advanced Energy and	Advanced Plant and Soil
4	Advanced Animal Science	Natural Resource	Science
		Technology	Science
Level	Career Prep for Programs	Career Prep for Programs	Career Prep for Programs
4	of Study	of Study	of Study
Level	Scientific Research and	Scientific Research and	Scientific Research and
4	Design	Design	Design

	Common Course Key
Other career clusters require more linear	Level 1
course sequences to ensure proper skill	Level 2
development and students benefit.	Level 3
	Level 4

## **TEAR** Example of a Student Changing Career Clusters

### 9<sup>th</sup> Grade AFNR to 10<sup>th</sup> Grade Health Science

A student takes Principles of AFNR in grade 9\* with plans to complete the Animal Science program of study. In grade 10, the student decides to pursue the Diagnostic and Therapeutic Services program of study. The student can still easily demonstrate CCMR by completing the new program of study:

Grade 10: Pharmacy I (one credit)

Grade 11: Pharmacy II (one credit)

**Grade 12:** Health Science Theory + Health Science Clinical (two credits) and

Earn the pharmacy technician IBC to meet CCMR

\*Offering Principles courses in 8<sup>th</sup> grade offers additional flexibility for career exploration before committing to a program of study.

### 9<sup>th</sup> & 10<sup>th</sup> Grade AFNR to 11<sup>th</sup> Grade Health Science

The same student takes Principles of AFNR in grade 9, and Equine Management in grade 10. In grade 11, the student decides to pursue the Diagnostic and Therapeutic Services program of study in grade 11.

**Option A:** Meet CCMR by expediting the new program of study

Grade 11: Pharmacy I (one credit)

**Grade 12:** Pharmacy II (one credit) <u>and</u> Health Science Theory + Health Science Clinical (two credits) and

Earn the pharmacy technician IBC to meet CCMR

**Option B:** Pursue Concentrator status in CTE and meet CCMR through another indicator

Grade 11: Pharmacy I (one credit)

Grade 12: Pharmacy II (one credit) and

Meet TSIA, SAT, or ACT, dual credit, College Prep, or another requirement to meet CCMR