

## **DEEP Partnership Workshop**





TEACHERS COLLEGE, COLUMBIA UNIVERSITY

June 2, 2023



Texas Association of Community Colleges

Dedicated to social and economic mobility, we advocate for state policy and support community college reform strategies that will empower Texans to rise out of poverty and achieve better life outcomes.



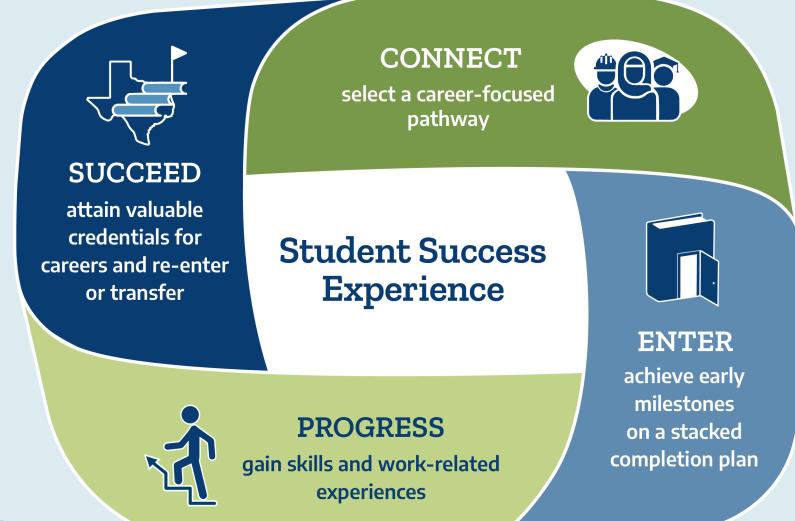
### **Texas Success Center Grounding Principles**

Texas Pathways is not the next in a long line of discrete reforms, but rather a framework that unifies a variety of career- and equity-focused reform elements around a single centralized statewide strategy.

All Texas colleges' program redesigns systemically address the entire student experience, rather than to just one segment of it (such as developmental education or advising).

The redesign process starts with student end career goals and "backward maps" stacked programs and supports to ensure that students thrive in employment and education at the next level with no excess credit or time.

### **Talent Strong Texas Pathways Framework**



Talent Strong Texas Pathways



### **Talent Strong Texas Pathways** Four Pillars of Essential Practices

Map pathways to student end goals

Employer-informed maps from multiple entry & reentry points to completion, transfer, & valuable careers Help students choose and enter a pathway

Academic and social integration & careerfocused onboarding to promote college-level success in the 1st year Keep students on their pathway

Proactive supports to improve completion & transfer, enhance belongingness, & address students' basic needs

### Ensure students are learning

Active & work-based learning with culturally responsive teaching aligned with careers & further education

# Welcome

**Christine Bailie, Ed.D.** Director of Institutional Strategy, Texas Success Center

**Kristina Flores, Ph.D.** Director of Research and Evaluation, Texas Success Center

> Sway Youngston Program Manager, Texas Success Center

**Nour Hammoudeh** Events Planner, Texas Success Center John Fink Senior Research Associate and Program Lead, Community College Research Center

**Davis Jenkins, Ph.D.** Senior Research Scholar, Community College Research Center

Maggie P Fay, Ph.D. Senior Research Associate, Community College Research Center

**Tatiana Velasco** Research Associate, Community College Research Center

**Sarah Griffin** Research Associate, Community College Research Center

**Aurely Garcia-Tulloch** Research Assistant, Community College Research Center







### **Josie Brunner**

Data Strategist, College Career, Military Preparation, Texas Education Agency

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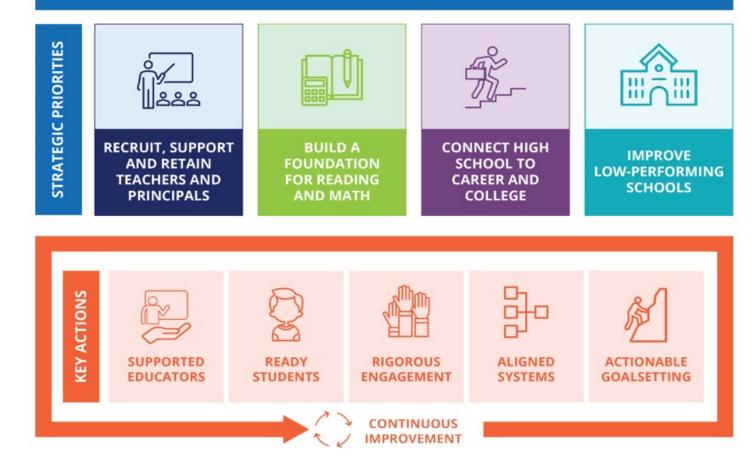
### CTE Program of Study and Advance Academics

### **TEA's Strategic Plan is Focused on Continuous** Improvement

### **Agency Mission**

The Texas Education Agency will improve outcomes for all public-school students in the state by providing leadership, guidance, and support to school systems.

### EVERY CHILD, PREPARED FOR SUCCESS IN COLLEGE, CAREER, OR THE MILITARY

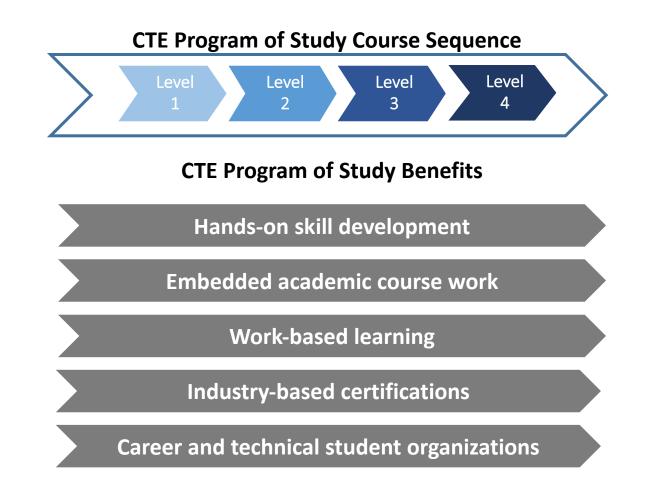




### **CTE Programs of Study**

Programs of study are course sequences that prepare students with the knowledge and skills necessary for success in their chosen careers.

These sequences embed relevant, real-world experiences and connect to pathways that culminate in one or more postsecondary credentials.

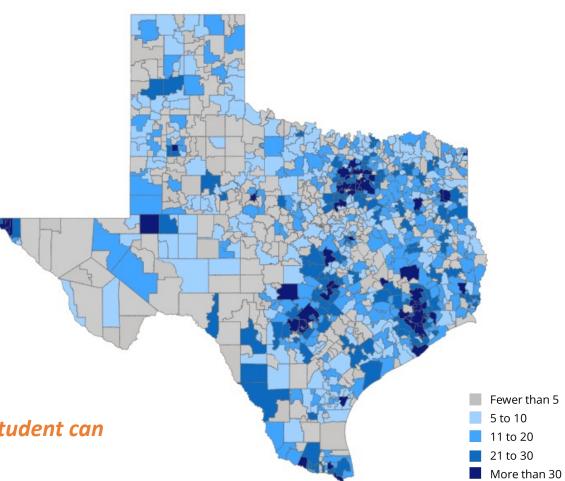




Median Programs of Study offered by a district. 9

Source: PEIMS, SY 2021-22

There is wide variability in the number of programs a student can choose from, based on where the student lives.



## **TEA** Opportunity: Integrate Advanced Academics

2021 Graduates Successfully Completing Any Dual Credit, AP, or IB Course, by **Program of Study (Completer Status)** 89% 100% Students completing any advanced course by graduation varied greatly by 75% program of study. 50% 16% 25% 0% Government and Public. Networking Systems Medical Therapy Geospatial Engineering and Nursing Science Healthcare Diagnostics Advanced Manufacturing and Web Development Marketing and Sales Law Enforcement Accounting and Financial Teaching and Training **Business Management** Lodging and Resort Environmental and Natural. Culinary Arts Construction Management. Health and Wellness Plumbing and Pipefitting **Bio-Medical Science** Engineering Renewable Energy Healthcare Therapeutic nformation Technology Legal Studies Architectural Design **Aviation Maintenance** Emergency Services Health Informatics Digital Communications Graphic Design and Entrepreneurship Distribution and Logistics Food Science and Technology Manufacturing Technology Masonry Printing and Imaging Travel, Tourism, and **Cosmetology and Personal** Electrical Family and Community Diesel and Heavy Equipment Agribusiness Early Learning Applied Agricultural Welding Programming and Software Cybersecurity Drone (Unmanned Flight) Animal Science Science HVAC and Sheet Metal Carpentry Automotive Exercise Science and Wellness Plant

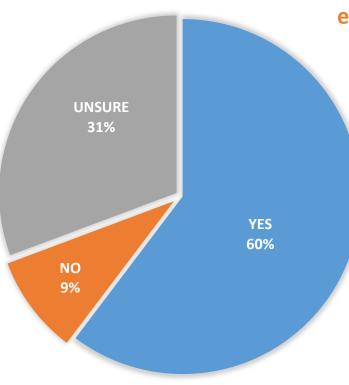
### **Opportunity: Integrate Advanced Academics Key Findings**

**LEA:** If you offer the advanced academics courses in the CTE studies, could they be offered as electives? I can see how they could be used to continue the student's education post high school.

**INDUSTRY:** If they are part of the occupation, it makes sense. If not, it might keep a student from entering a course that is high demand and would not be necessary.

**LEA:** Students should be enrolled in pure CTE courses. I feel you would be substituting CTE courses with non CTE courses.

**INDUSTRY:** No, it's not necessary.



### Should advanced academics courses be embedded in programs of study?

**LEA:** It allows us to streamline courses for students to give them more opportunities in their schedule. There should also be the option for students who don't want to take the advanced course to still be able to complete the program of study.

**INDUSTRY:** It puts CTE on PAR with college prep classes. Recognizes students for taking on the increased rigor in their field of study.

**PARENTS:** Yes, because I want my kids to have options.

Strengthening Dual Credit as a Trailhead to **Career** Path Jobs: Workshop Agenda



**Texas Success Center** 

Part 1 - Aligning on a Shared Vision for Dual Credit		
12:00 PM - 12:10 PM	Welcome and Context Setting	
12:10 PM - 12:30 PM	Rethinking Dual Credit as a Trailhead to Career Path Jobs	
12:30 PM - 1:00 PM	Partnership Team Time: Aligning on a Shared Vision for Dual Credit	
Part 2 - Identification of Pa	rtnership Strengths, Challenges, and Opportunities	
Part 2 - Identification of Par	thersing Strengths, chanenges, and Opportunities	
1:00 PM - 1:20 PM	Dual Credit Data DEEP Dive	
1:20 PM - 1:50 PM	Partnership Team Time: Identifying Strengths, Challenges, and Opportunities	
Part 3 - Examples from the Field: Guidance on Design and Planning to Plan		
1:50 PM - 2:10 PM	Research-Based Guidance on Effective Program Design	
2:10 PM - 2:40 PM	Partnership Team Time: Prioritizing Areas for Improvement and Planning Next Steps	
2:40 PM - 2:50 PM	Workshop assessment survey	
2:50 PM - 3:00 PM	ISD/College Partnership Share-out and Wrap-up	

# Aligning on a Shared Vision for Dual Credit



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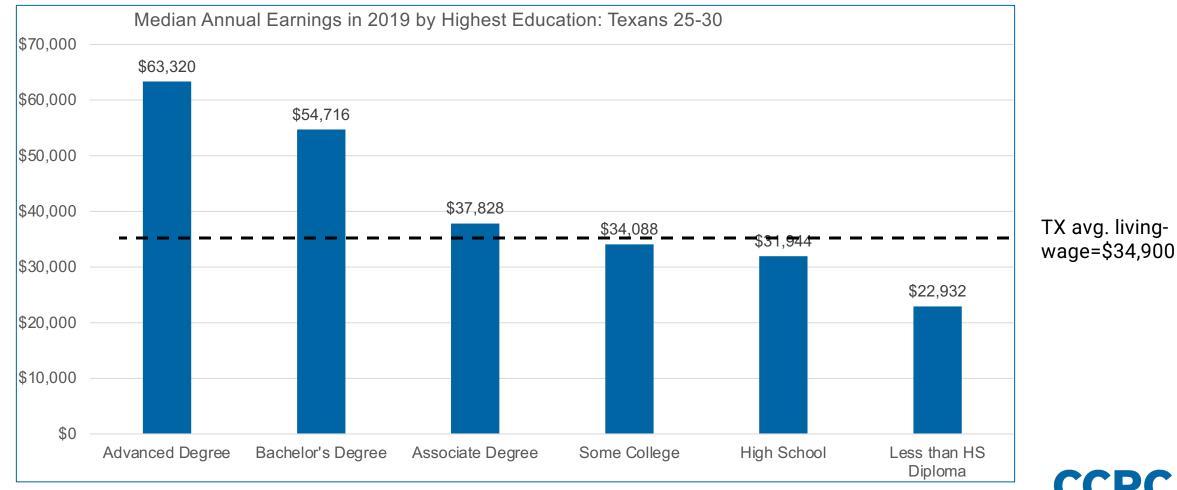
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# Rethinking Dual Credit As a Trailhead to Talent Strong Texas Pathways

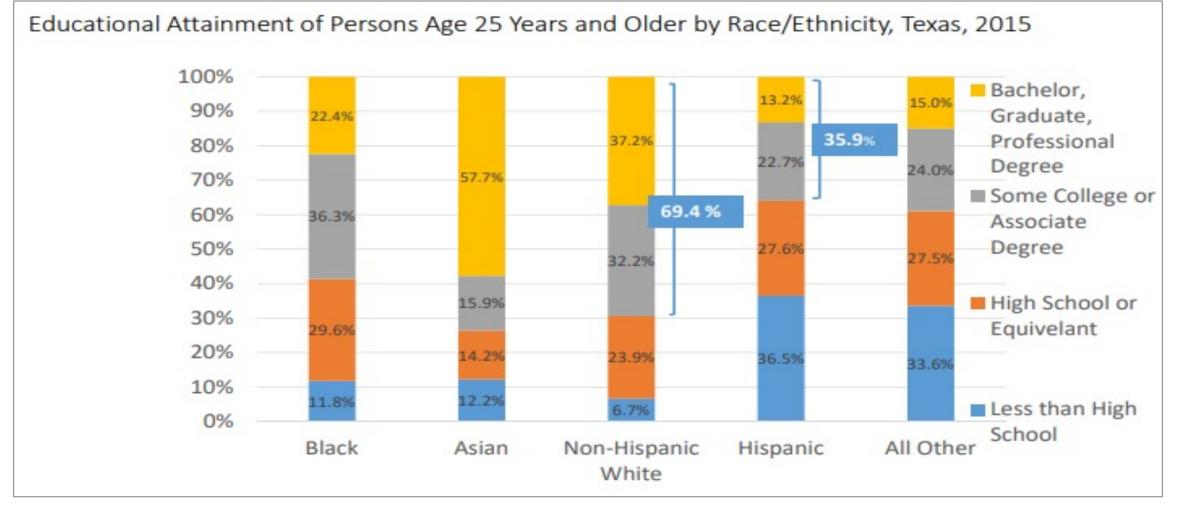
**Davis Jenkins** Senior Research Scholar TSC-CCRC DEEP Partnership Workshop June 2, 2023

### Texas employers in many industries are seeking diverse talent to fill entry-level career-path jobs. These jobs pay living-wages and benefits to start and provide opportunities for career advancement through on-the-job learning and employersupported training and education.

# Many entry-level, career-path jobs require at least an AAS, if not a bachelor's degree.



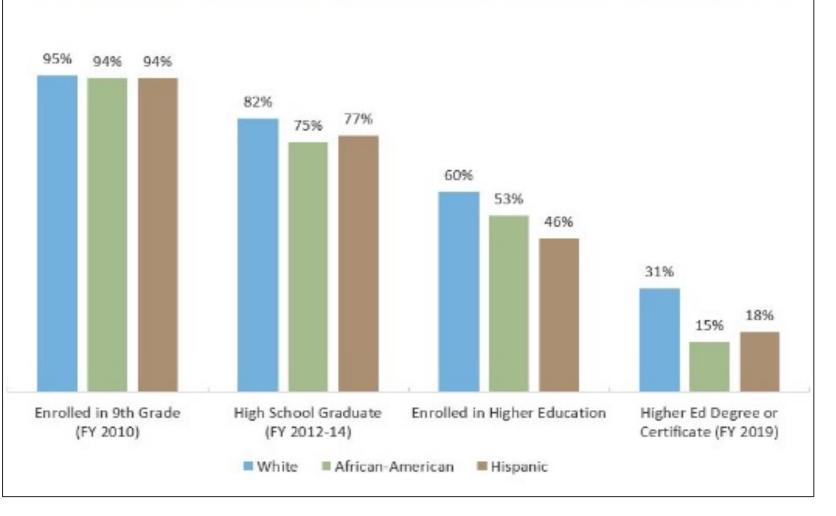
### Where is the greatest opportunity to build talent for Texas?



Source: Texas Association of State Senior College and University Business Officers, 2021. <u>https://demographics.texas.gov/Resources/Presentations/OSD/2021/2021\_01\_26\_TexasAssociationofStateSeniorCollegeandUniversity.pdf</u>



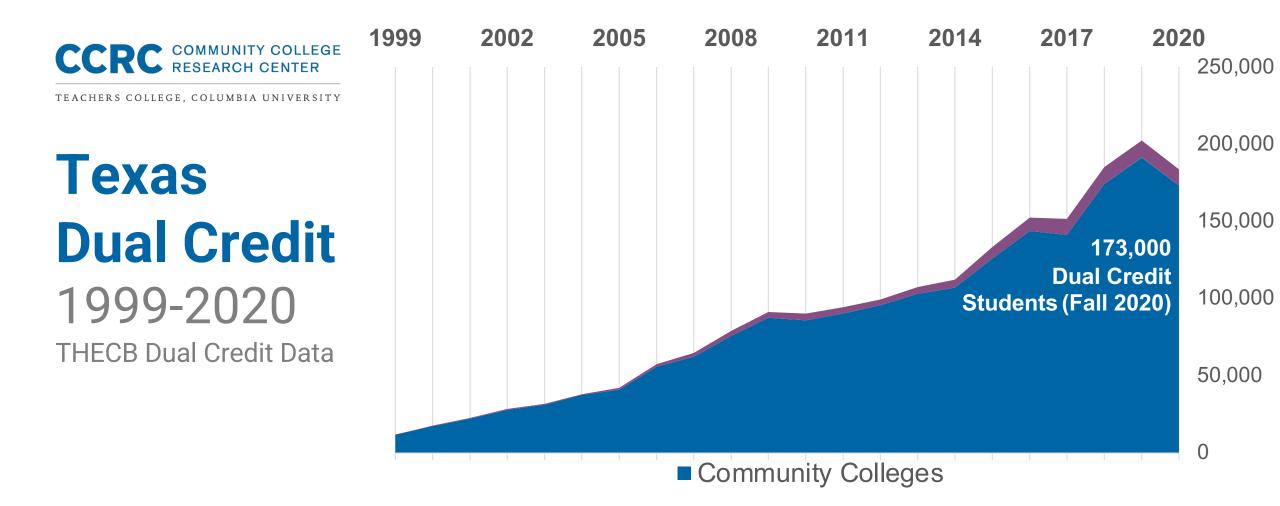
Too many Texas students from underrepresented groups are lost in the transition from high school to college. Fixing that leaky pipeline would substantially increase the supply of talent for Texas's future (and build new enrollments for colleges).



Source: Trellis Company, State of Student Aid in Texas - 2021. https://www.trelliscompany.org/state-of-student-aid-2021/section-8-texas-college-attainment/

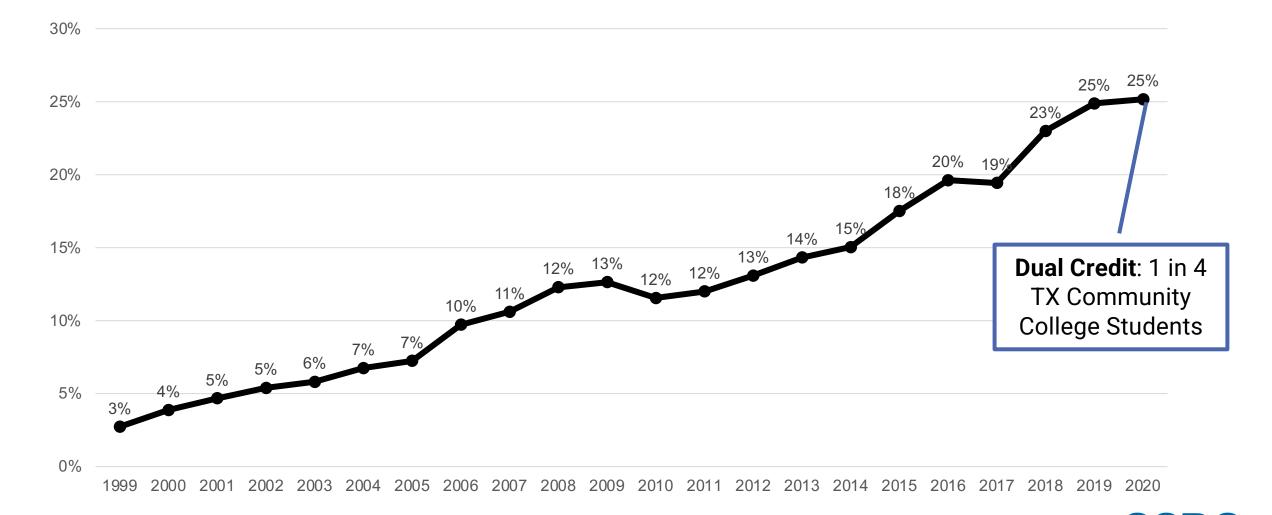
Texas Student Pipeline by Race/Ethnicity, Transition Rates from 8th Grade to College Completion

# The growth of dual credit in Texas creates an opportunity to build "trailheads" to postsecondary programs leading to career-path jobs in high-demand fields for students from underrepresented groups.

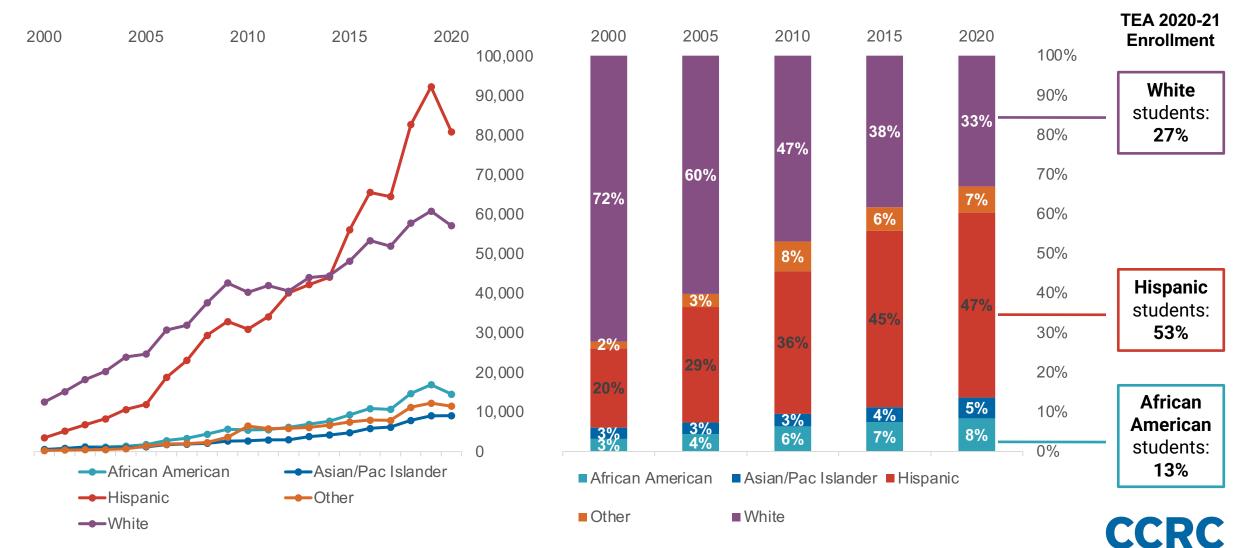


# Expansion of dual credit in Texas concentrated at community colleges.

# Dual Credit makes up a growing proportion of Texas community college enrollment.

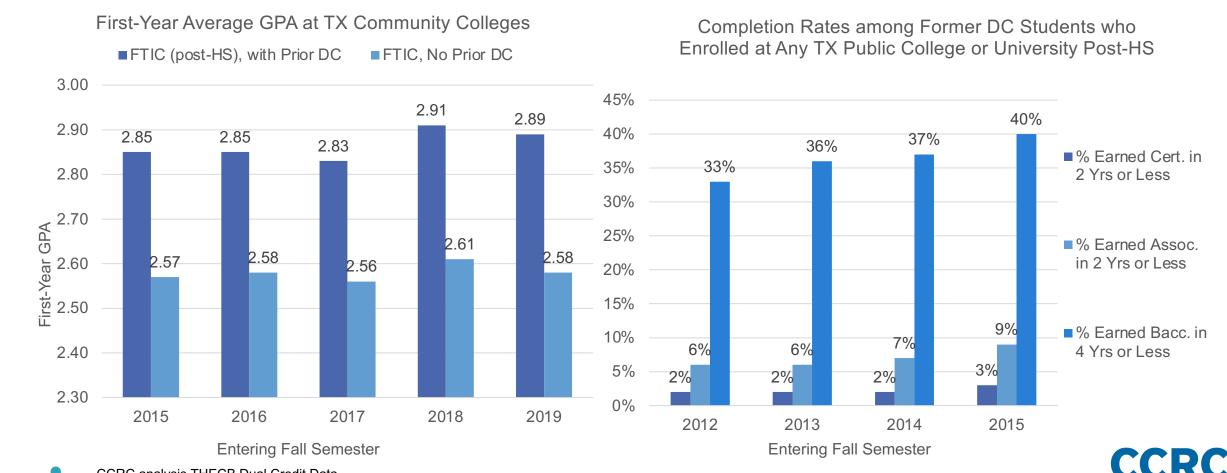


# As Dual Credit has grown, it has better reflected TX's racial/ethnic diversity, but there is still room for improvement.



CCRC analysis THECB Dual Credit Data, TEA Enrollment, https://rptsvr1.tea.texas.gov/adhocrpt/adste.html

# Former Texas DC students increasingly do well in college after high school, but more could be earning degrees.

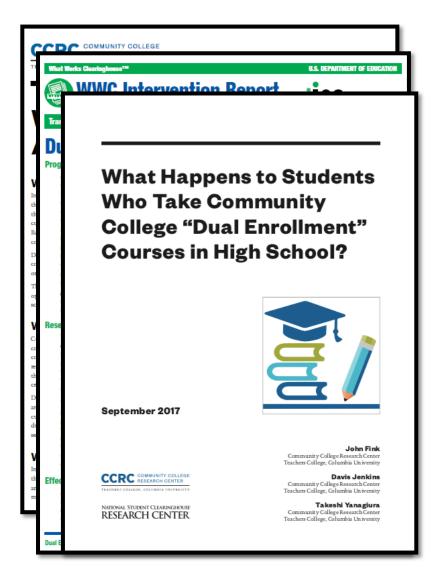


CCRC analysis THECB Dual Credit Data,

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### **Research Evidence on the Benefits of HS Dual Enrollment**

- Accumulation of descriptive and quasiexperimental evidence for dual enrollment, stronger experimental evidence on effects of ECHS and P-TECHs
- ✓ WWC Report: Positive effects of taking college courses in HS include stronger HS grades, more HS completion, more college enrollment, more credit accumulation, more degree completion.
- Yet, there is substantial state and institutional variation in post-HS college outcomes among former DE students



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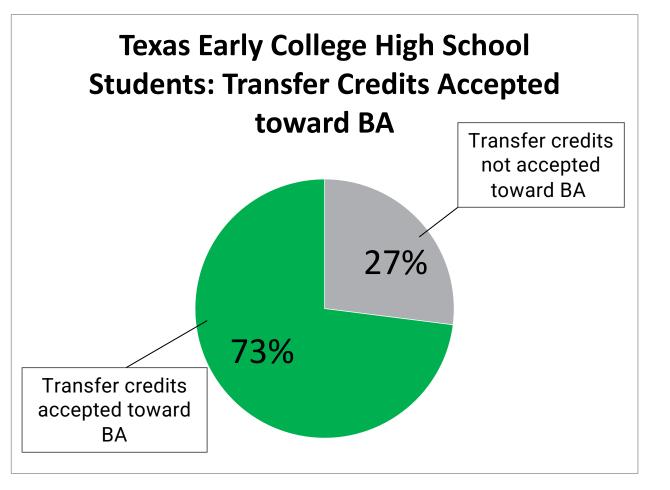
# Recent quasi-experimental studies highlight the potential of DC course-taking for increasing equity in college success.

- ✓ Dual Enrollment can benefit students who are falling behind in HS (Lee & Villarreal, 2022)
- ✓ Dual Enrollment math can boost Black & Hispanic student entrance and persistence in STEM (Minaya, 2021)



- Many students who earn AAs through
   ECHSs are not able to apply DC credits to a bachelor's in their desired major.
- P-TECHs do prepare for career-path employment, and Texas is growing them, but there are only 30K Texas P-TECH students currently and most students don't want to earn associate in high school.
- Most DC in Texas is "random acts" gen ed core course-taking with limited advising, which is not well designed to help guide and prepare students without clear college plans to pursue a career-pathway program after high school.

### **Texas ECHS Transfer Credit Loss**

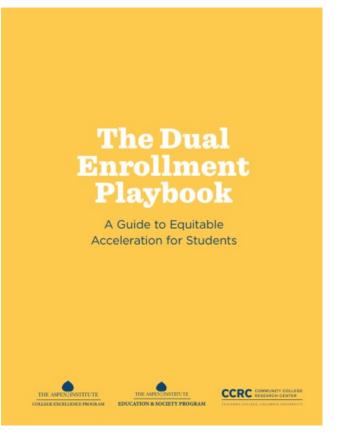


Source: Greater Texas Foundation, 2015.

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What can be learned from high schools and colleges that are more effective in serving students of color through dual enrollment?



### **DE Playbook Resources**



Highlights from the Dual Enrollment Playbook: A Guide to Equitable Acceleration for Students



A Guide to Getting Started for Institutional Leaders



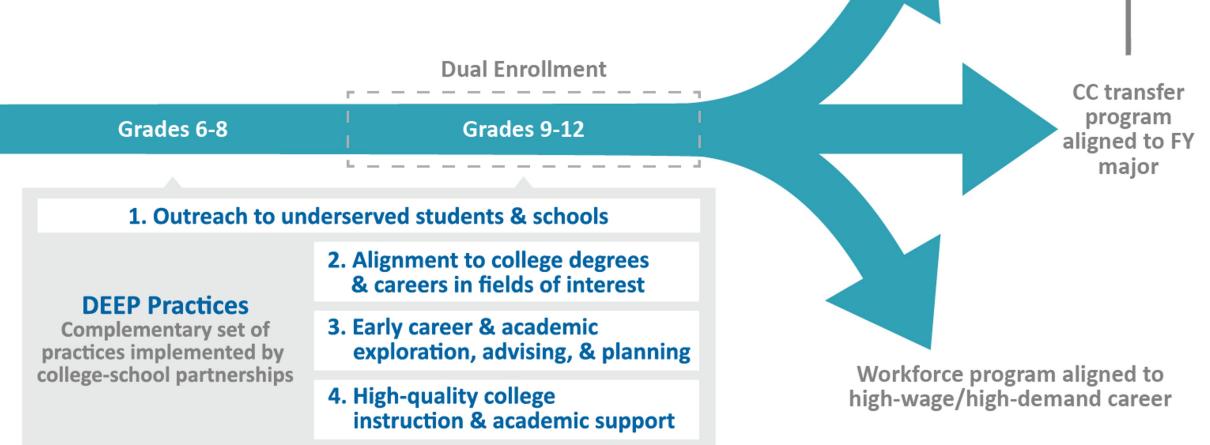
Tool for Evaluating Equitable Practices at Community Colleges



Tool for Evaluating Equitable Practices at High Schools

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### DEEP: Extending Guided Pathways to Dual Enrollment with an Outcome and Equity Focus



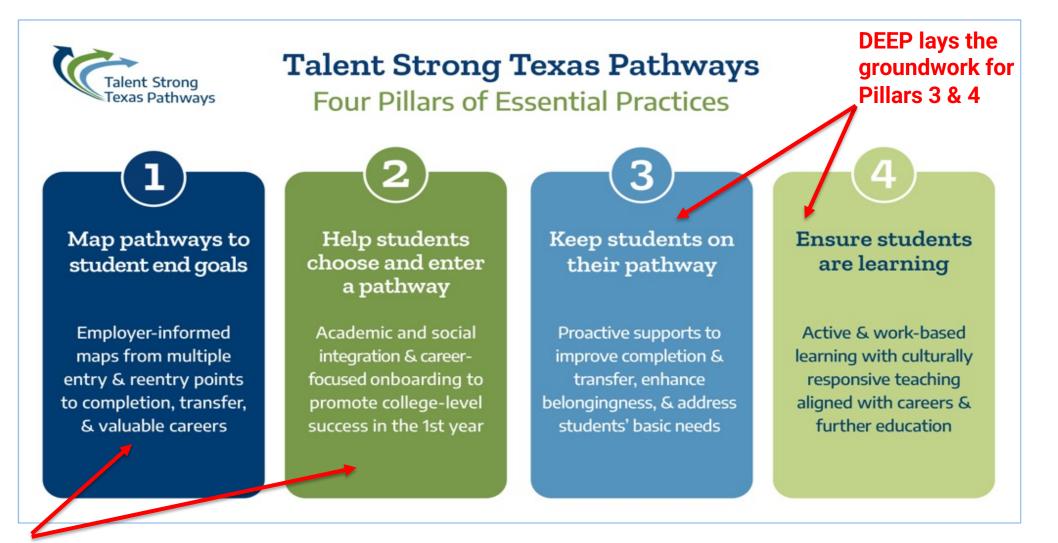
Entry into baccalaureate major

at four-year (FY) institution

### From 'Random Acts' and 'Programs of Privilege' to DEEP

Programs of Privilege, Random Acts	Dual Enrollment Equity Pathways (DEEP)
DE courses <b>made available</b> to students who are already "college-bound"	Active outreach and support for underrepresented students and families starting in middle school
Focus is mainly on strengthening students' <b>academic preparedness for college</b>	Focus also on building <b>motivation for college</b> by helping students explore interests and begin to develop a plan tied to college programs and careers in a field of interest
Colleges and schools mainly emphasize general education courses	Colleges and schools introduce students to high-opportunity postsecondary pathways through <b>program foundation courses</b>
Focus on achievement of <b>academic content</b> standards	Added focus on helping students become <b>confident college learners</b> through active teaching/learning
High school career technical education focused mainly on <b>immediate post-HS employment</b>	High school career technical education students readily able to <b>apply</b> <b>HS CTE credits toward college degree programs</b> in high- opportunity fields

### **Extending Guided Pathways Practices to Dual Credit**



**DEEP focuses on Guided Pillars 1 & 2** 

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### Scaling DEEP in Florida and Texas: Project Summary



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- 1. Implementation Study
  - What do DEEP practices look like across different institutional contexts?
- 2. Costs and Incentives Study
  - What are the costs, incentives, and disincentives for K-12 and college leaders to invest in and adopt DEEP practices?
- 3. Metrics Study
  - What metrics and data tools can best catalyze and inform DEEP reforms?

Based on this research, we will produce a practitioner guide, data tools and workshops on scaling trailheads to postsecondary college and career pathways for students from underrepresented groups.

# HB 8 Financial Aid for Swift Transfer and 15-credit pathways would provide resources to expand DC "trailheads" to postsecondary talent pathways after high school.

# **Team Time 1: Aligning on a Shared** Vision for Dual Credit **Fexas Success Center**



\* Select your College

# Identification of Partnership Strengths, Challenges, & Opportunities



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## Dual Credit Dashboard Overview

- Access to DC
- DC Course Location and Modality
- DC Course Pass Rates
- DC Credit and Gateway Course Momentum
- Post-HS College Enrollments and Persistence

#### **Examine and Benchmark Texas Community College Dual Credit Metrics** Texas Public High School Students, Classes of 2019 and 2020

#### **Dual Credit Participation and Outcomes**

Select a College Paris Junior College

Select Outcome Type DC Outcomes Post-HS Disaggregate by Race/ethnicity

All HS Partners

Paris Junior College & All HS Partners (1,926 dual credit students)

 DC Outcomes Post-HS: College enrollment among former dual credit students, 1-year after high school

 Outcome Name
 All
 Asian
 Black
 Hispanic
 Other ra..
 White

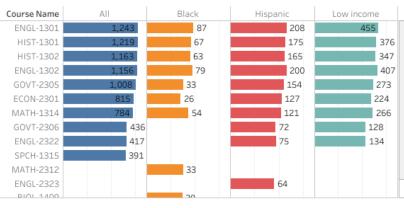
 Attended any college post-HS
 73%
 82%
 69%
 69%
 71%
 75%

College persistance in first year.	87%	≥99%	86%	90%	84%	86%
Re-enrolled at dual credit college	33%	18%	40%	32%	27%	33%

Top Courses & Colleges: Highlight Results
All
Black

Hispanic Low income

#### Top 10 Dual Credit Courses Taken (If blank, not in top 10 for this group) 1,926 students from All HS Partners who took a dual credit course at Paris Junior College



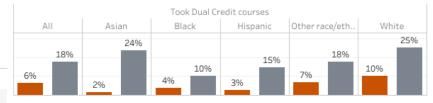
### Outcomes Benchmark to other Texas Colleges by State Geography Select High School Partners with 5+ DC students Select Outcome to Benchmark Benchmark Region Benchmark Locale

Select Outcome to Benchmark	Benchmark Region	Benchmark Locale
Took Dual Credit courses	Statewide	All Settings

Benchmark Colleges

Selected Benchmark: Statewide, All Colleges

Selected College



Dual Credit Student College Attendence 1-year After High School Texas Public Postsecondary Institutions

Top 10 First College Destinations, 1,926 Paris Junior College dual credit students from All HS Partners

33.2%									
	12.3%	3.7%	3.6%	3.1%	3.0%	1.9%	1.9%	1.7%	1.7%
Paris	Texas	Texas	Universit	Tyler J	Texas	Stephen	Universit	Universi	Texas
Junio	A&M Un	A&M Un	y of Nor	unior	Tech Uni	F. Austi	y of Texa		Stat

### Top 10 College Majors, Paris Junior College dual credit students from All HS Partners (N=1,926)





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## **Dual Credit Data Sources & Definitions**

- Statewide, longitudinal, student-level data from the Texas Education Research Center
- Analytic sample includes traditional high school entrants in fall 2015 and 2016 who participated in dual credit at community colleges through spring 2019 and 2020
- P-TECHs and Early College High Schools Excluded (by name)
- Masking requirements for privacy suppression (some values will display blank or with a specific masking code)
- Results disaggregated by student race/ethnicity, gender, and income (FRPL), with a focus on Black, Hispanic, and lower-income students

## CCRC ·

## **Clarifying Numerators and Denominators**

- Access Outcomes
  - Numerator: Number of students who took a dual credit course in the HS-CC pair
  - Denominator: Number of high school students enrolled at the HS in the HS-CC pair
- Dual Credit Student Outcomes
  - **Numerator**: Number of dual credit students in the HS-CC pair that met the outcome definition (e.g., number of dual credit students who completed 9+ credits through dual credit)
  - **Denominator**: Number of dual credit students in the HS-CC pair

**Data Definitions** 

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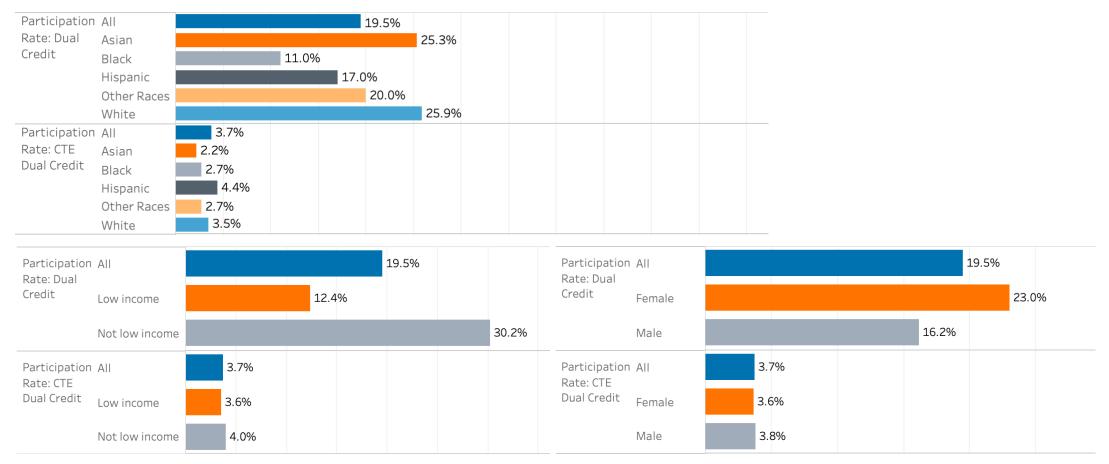
Definition	F
Number of students ever enrolled at the HS within 4 years from HS entrance	
(2015-2016 HS freshman cohort)	C
Percent of students—in the HS cohort—who attempted any dual credit (DC) courses through the HS-CC pairing within 4 years from HS entrance	E C N
Percent of students—in the HS cohort—who attempted any CTE DC courses through the HS-CC pairing within 4 years from HS entrance	A F A C
Percent of students—in the HS cohort—who attempted any AP, IB, or DC courses through the HS-CC pairing within 4 years from HS entrance	F c C F
DC credits attempted at the college, high school, or another location (e.g., multi- institution teaching center) as a percent of DC credits attempted through the HS-CC pairing	ך נ ר א
	Number of students ever enrolled at the HS within 4 years from HS entrance (2015-2016 HS freshman cohort) Percent of students—in the HS cohort—who attempted any dual credit (DC) courses through the HS-CC pairing within 4 years from HS entrance Percent of students—in the HS cohort—who attempted any CTE DC courses through the HS-CC pairing within 4 years from HS entrance Percent of students—in the HS cohort—who attempted any AP, IB, or DC courses through the HS-CC pairing within 4 years from HS entrance DC credits attempted at the college, high school, or another location (e.g., multi- institution teaching center) as a percent of DC credits attempted through the HS-CC

### Among students who took DC courses via the HS-CC pairing:

DC Course Pass Rates	Percent of DC courses completed (Pass, C, or above) among DC courses attempted via the HS-CC pairing
Completed 9+ CL Credits in DC	Percent of high school students who took any DC who completed 9 or more college-level DC credits in the HS-CC pairing prior to HS graduation
Completed CL English in DC	Percent of high school students who took any DC who completed a college-level English DC course in the HS-CC pairing prior to HS graduation
Completed CL Math in DC	Percent of high school students who took any DC who completed a college-level math DC course in the HS-CC pairing prior to HS graduation
Avg. Credits Attempted in DC per Student	Average number of DC credits attempted via the HS-CC pairing per student in the HS-CC pairing
Attended any college post-HS	Percent of high school students who took any DC via the HS-CC pairing who enrolled at any postsecondary institution after HS by the end of the first academic year
Re-enrolled at DC college	Percent of high school students who took any DC via the HS-CC pairing who enrolled at the same DC college by the end of the first academic year after HS graduation
College persistence in first year	Percent of college-going high school students who took any DC via the HS-CC pairing who continued enrolling in through the end of the first academic year after HS graduation
Top College Destinations	Top colleges that high school students who took any DC via the HS-CC pairing enrolled at during the first academic year after HS graduation
Top College Majors	Top majors that high school students who took any DC via the HS-CC pairing enrolled in during the first academic year after HS graduation

## **Underrepresented in Dual Credit:** Black, Hispanic, Low-Income, and Men

At What Rates do High School Students Participate in Dual Credit and other Advanced Coursework?

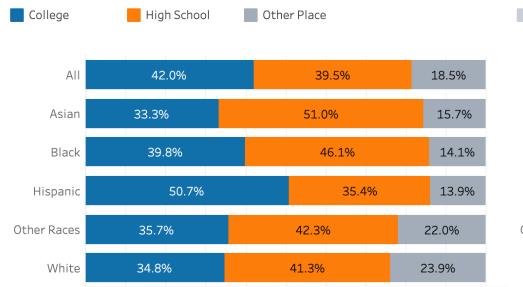


### Statewide Results: <u>https://tinyurl.com/CCRC-UT-DCDashboard-Statewide</u>

**Dual Credit Course Location** 

## **Dual Credit Courses Types & Course Pass Rates**

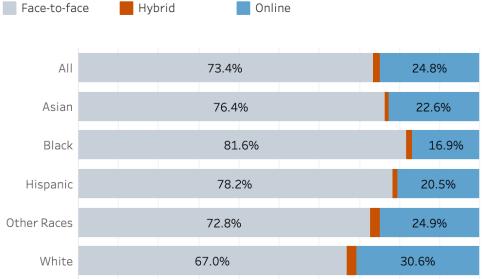
Dual Credit Course Modality



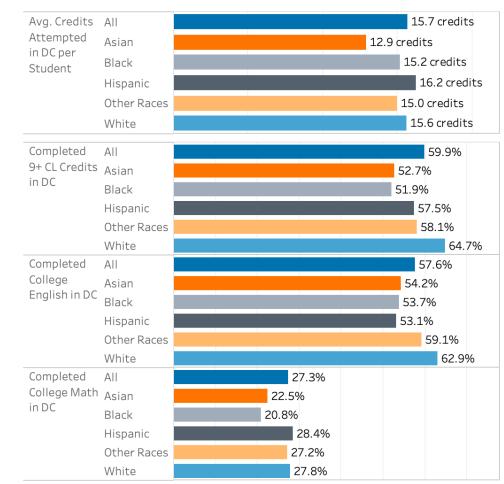
Dual Credit Course Pass Rates by Course Location and Modality

	All	Asian	Black	Hispanic	Other Races	White
Overall DC Course Pass Rate	89.9%	94.5%	84.4%	88.2%	90.3%	92.1%
Location: College (DC Pass Rate)	87.6%	93.3%	80.3%	86.4%	88.0%	90.3%
Location: High School (DC Pass Rate)	93.0%	96.2%	88.9%	91.6%	93.0%	94.6%
Location: Other Place (DC Pass Rate)	88.5%	91.4%	81.2%	86.0%	88.9%	90.5%
Modality: Face-to-face (DC Pass Rate)	90.8%	95.3%	85.5%	89.2%	91.4%	93.4%
Modality: Hybrid: (DC Pass Rate)	90.0%	96.4%	83.0%	88.1%	86.6%	91.7%
Modality: Online (DC Pass Rate)	87.2%	91.9%	79.1%	84.6%	87.3%	89.5%





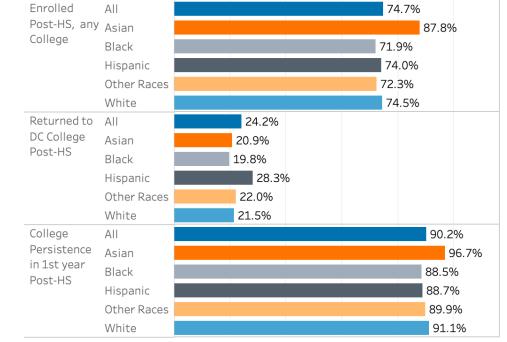
## **Dual Credit Outcomes:** Momentum Gained and College Enrollment Post-HS



### Dual Credit Momentum

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### College Enrollment & Persistence, 1-year Post-HS



### Statewide Results: <u>https://tinyurl.com/CCRC-UT-DCDashboard-Statewide</u>

Team Time 2: Identifying Strengths, Challenges, and Opportunities



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\* Select your College

## Examples from the Field: Guidance on Design and Planning to Plan



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### **Dr. Maggie Fay** Senior Research Associate, CCRC

## Field Research Site Selection Methodology

- Use student unit record data to identify "high 1) performing" partnerships.
- 2) Focus on effective partnerships with Title 1 comprehensive and technical high schools.
- 3) Select 3 high-performing partnerships representing diverse institutional contexts and populations.

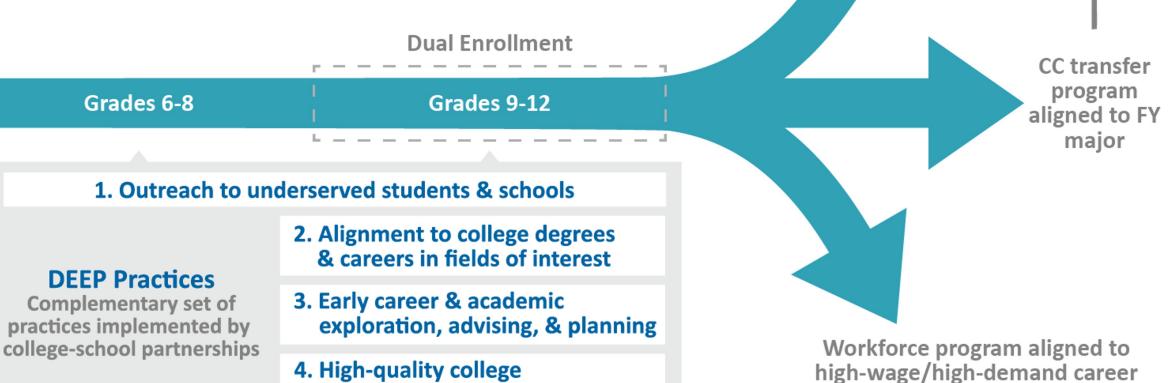




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## DEEP: Extending Guided Pathways to Dual Enrollment with an Outcome and Equity Focus



Entry into baccalaureate major

at four-year (FY) institution

instruction & academic support

## **CCRC** Field Research

### **Texas DE partnerships**:

- Lee College (2 schools)
- Navarro College (2 schools)
- San Jacinto College (1 school)

### Florida DE partnerships:

- Chipola College (1 school)
- Tallahassee Community College (1 school)
- Miami-Dade College (4 campuses, 5 schools)

Number of Participants	Stakeholder Group
College stakeholders	98
K-12 stakeholders	71
DE students	120
Total participants	291

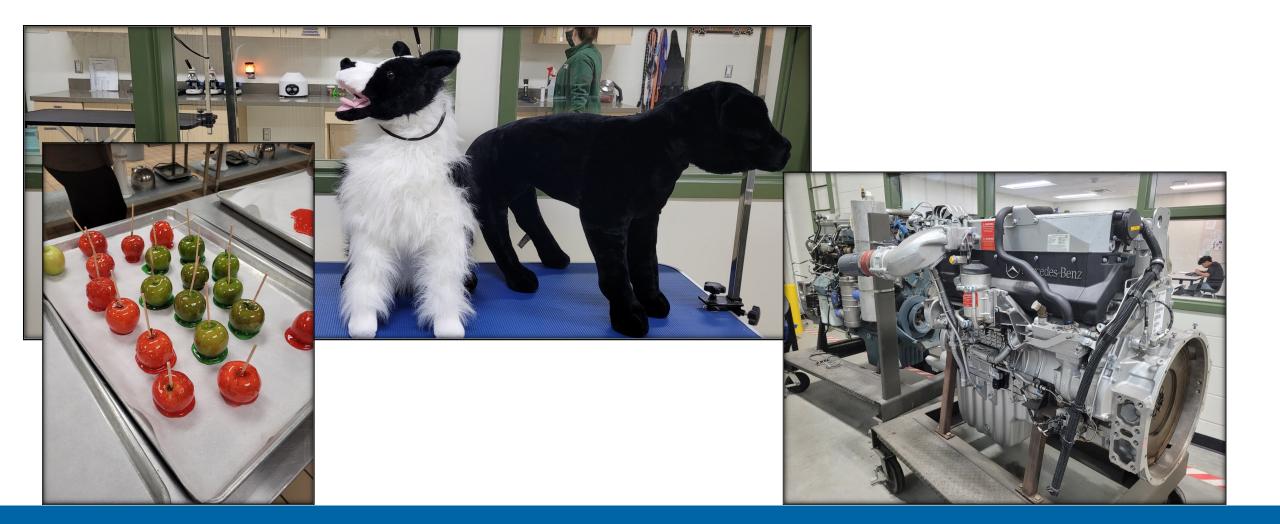


## **Key Takeaways from Implementation Field Research**

- 1) Across the colleges, we saw promising practices that together can transform *"random acts" DC into an trailhead career-path programs after high school.* 
  - Outreach
    - Prioritizing underserved schools and students; educating students, parents, school leaders starting early on, removing eligibility barriers
  - Alignment
    - Mapping HS academies to college AS and pre-major transfer programs; clear and efficient transcripting of credit
  - Early Career/College Exploration, Advising, and Planning
    - Cross-training counselors; shared advising; advising students and parents on nuances of major-specific transfer; required education plans and checkpoint advising
  - Instruction and Academic Support
    - Scaffolding of courses and instruction, structured support for online DC; intentional selection and professional development for training; consistent quality control

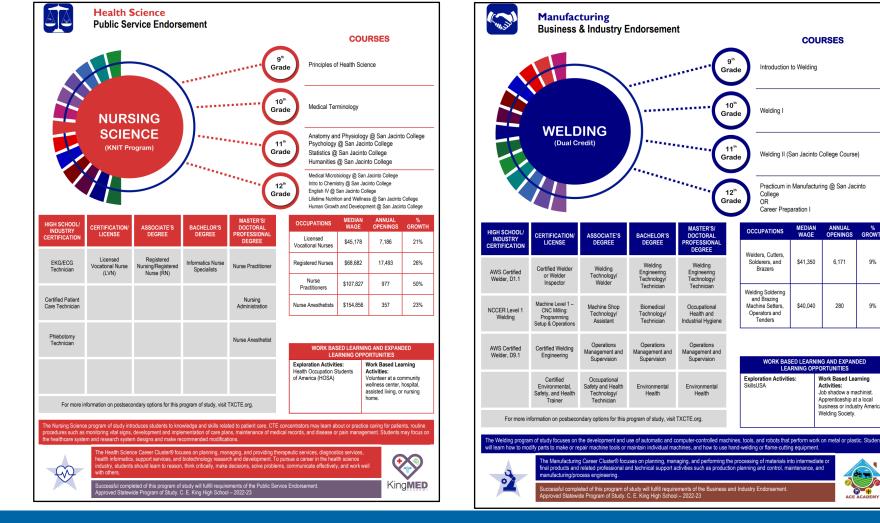


# Outreach to Underserved Students and Schools



## Alignment of DC Courses to Degrees and Career Fields

### Example program maps aligning DC offerings in HS academies to career-path degrees and credentials



COURSES

MEDIAN WAGE

\$41 350

\$40,040

WORK BASED | FARNING AND EXPANDED

LEARNING OPPORTUNITIES

ANNUAL OPENINGS

6.171

280

Work Based Learning

Job shadow a machinist

Apprenticeship at a local

business or industry America Welding Society.

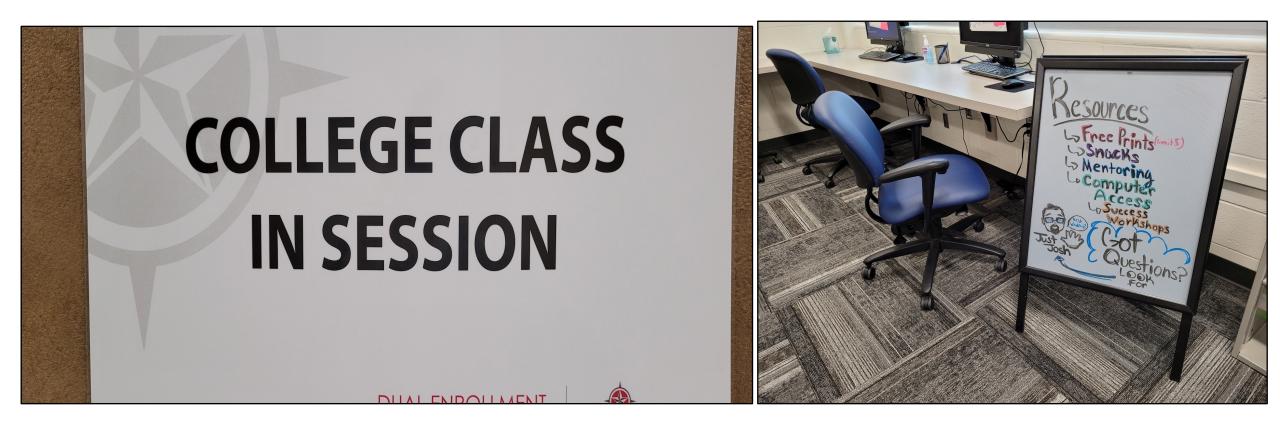
ctivities

GROWTH

9%

9%

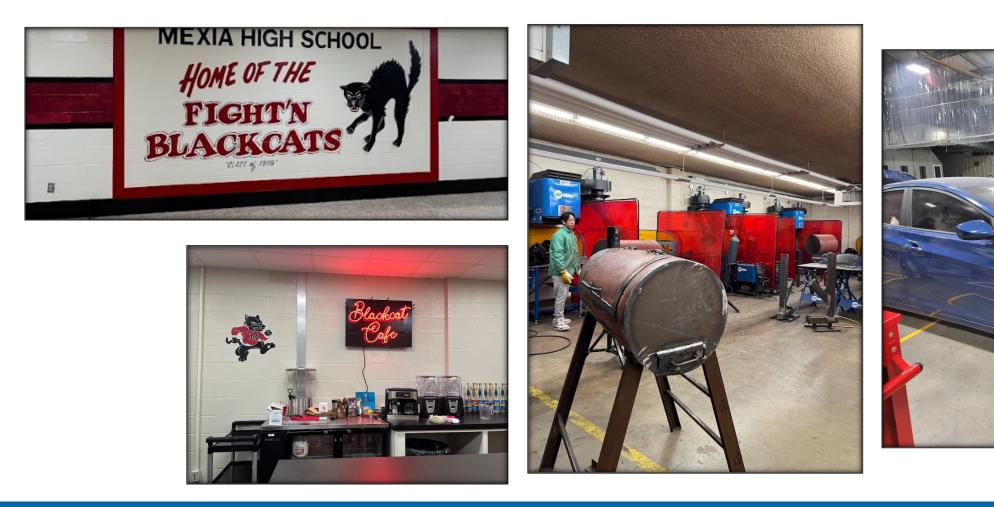
Early Career/College Exploration, Advising, and Planning



## Instruction and Academic Support

## Implementation Field Research: Key Takeaways

- 2) Texas Title 1 schools have laid the groundwork for colleges to scale talent pathways by embedding career-path program foundation courses and advising in high school career academies.
  - Career academy strategy is scalable, avoids tracking, and can help motivate students to pursue postsecondary education
  - Title 1 schools motivated to take this approach by need to attract students in "open choice" policy environment
  - Students, families, communities, schools want "dual credit with a purpose"
  - Strong demand from rural schools to embed DC in CTE programs





## Implementation Field Research: Key Takeaways

- 3) Community colleges see benefits of rethinking dual credit as trailhead to career-path degree programs, but still mainly aspirational work in progress.
  - Most colleges have not extended guided pathways practices to DC offerings and students
  - Most academic DC still gen ed with little career and college exploration and planning
    - Exceptions: San Jacinto and Paris Junior help DC students connect with program areas and develop individualized educational plans
  - Student experience with instructional quality varies; colleges and schools exploring how to ensuring access to effective instruction

## Implementation Field Research: Key Takeaways

- 4) We observed a shift in mindset across college and K-12 partners implementing DEEP practices.
  - Shared vision of DC as tool for talent development and expanding college enrollment
  - Change in DC focus from "random acts" course taking in AA in liberal/general studies degrees to trailheads to AAS or structured pre-major bachelor's transfer programs in high-opportunity fields
  - Requiring students to choose an endorsement in high school can be designed to help them explore interests and develop a sense of purpose
  - Shifting mindsets about which students will be successful in DC
  - High school grades and other evidence of motivation are better measures of readiness for DC than standardized tests



Team Time 3: Prioritizing Areas for Improvement and Planning Next Steps





\* Select your College



## We Value Your Input

Please complete this anonymous evaluation survey.

Thank you for helping to make our events better!



Link: <u>https://www.surveymonkey.com/r/DEEP1</u>



## **Thank you!**





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