



STARTING THE PATH TO SUCCESS

A META-ANALYSIS OF TCC DUAL CREDIT STUDENTS

Reports Included:

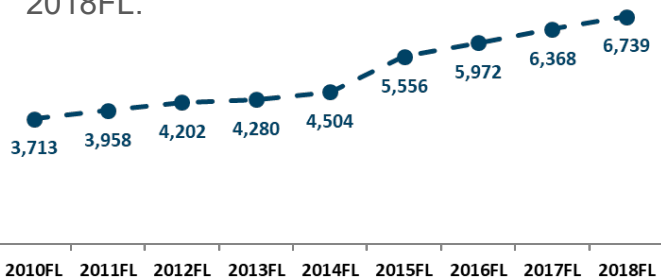
- 1) Summary of Dual Credit at TCC**
- 2) TCC Dual Credit Students Returning after Dual Credit Experience**
- 3) Success of TCC Dual Credit Students at 4-year Schools**

OFFICE OF INSTITUTIONAL RESEARCH, TARRANT COUNTY COLLEGE

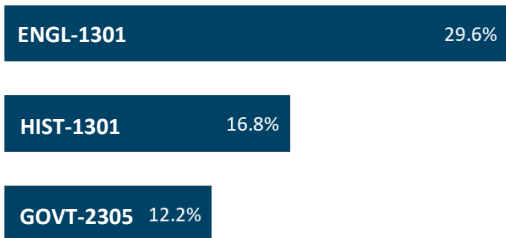
SUMMARY OF DUAL CREDIT AT TCC

Throughout the last several years, Tarrant County College's (TCC) dual credit and early collegiate high school offerings have expanded, policy changes have occurred, and multiple restructurings have taken place. A major restructure occurred in 2016FL when dual credit taught on high school campuses, which was part of TCC Connect Campus from 2014FL to 2016SU, transitioned back to the physical campuses. House Bill 505, a pivotal policy change fully implemented by 2015FL, stated that the THECB may *not* limit the number of dual credit courses or the grade level at which a high school student enrolls in dual credit. In addition, by 2014FL every physical campus had an early collegiate high school (5 total), and in 2018FL, eight early collegiate high schools served students. The aim of this report is to summarize the dual credit population.

- Growth:** The dual credit headcount at TCC increased approximately 80% from 3,700 students in 2010FL to 6,700 students in 2018FL.



- Percent of Total Population:** The dual credit population represented about 13% of the overall TCC population in 2018FL.
- Top Courses:** ENGL-1301, HIST-1301, and GOVT-2305 accounted for almost 60% of dual credit course enrollments in 2018FL.



- Campuses:** Almost 1 in 3 2018FL dual credit students were at Southeast campus.

- Top ISDs:** Mansfield, Keller, Fort Worth, and Arlington ISDs accounted for almost 55% of dual credit students in 2018FL with about 1 in 5 dual credit students coming from Mansfield ISD. In total, there were 17 ISDs in TCC's service area for 2018FL.
- Top High Schools:** Keller High School had the largest number of dual credit students in 2018FL (over 400) and was followed by Mansfield High, Mansfield Lake Ridge, Mansfield Legacy, and Carroll Senior High, respectively.
- Dual Credit Sections:** There were over 500 dual credit sections in 2018FL with about 45% taught by full-time faculty. The average class size was about 20 students.
- Success Rate:** The success rate for approximately 11,000 dual credit course enrollments in 2018FL was over 90%.



APPENDIX:

Summary of Dual Credit:

Term	ECHS			Dual Credit			Total		
	Headcount	Course Enrollment	Contact Hours	Headcount	Course Enrollment	Contact Hours	Headcount	Course Enrollment	Contact Hours
2010FL				3,713	5,874	287,368	3,713	5,874	287,368
2011FL	52	154	8,288	3,958	6,500	316,832	4,010	6,654	325,120
2012FL	201	412	23,648	4,202	7,174	347,024	4,403	7,586	370,672
2013FL	404	974	49,984	4,280	7,592	369,472	4,684	8,566	419,456
2014FL	940	2,183	109,760	4,504	8,049	394,680	5,444	10,232	504,440
2015FL	1,290	3,129	176,208	5,556	10,410	504,312	6,846	13,539	680,520
2016FL	1,575	4,195	240,624	5,972	10,086	500,080	7,547	14,281	740,704
2017FL	2,122	5,159	286,608	6,368	11,177	551,784	8,490	16,336	838,392
2018FL	2,352	5,916	333,280	6,739	11,582	574,656	9,091	17,498	907,936

Source: ST Student Enrollment Data and ST Gender and/or Ethnicity by Program

Dual credit students were defined as students with a program code of EHSE (or EHSE & EHDC prior to 2016FL). Early collegiate high school students are not considered dual credit students.

Total is the sum of the dual credit population and the early collegiate high school population.

Semester Hours Dual Credit:

	Semester Hours
2010FL	17,473
2011FL	19,324
2012FL	21,273
2013FL	22,554
2014FL	23,926
2015FL	30,579
2016FL	30,462
2017FL	33,577
2018FL	34,887

Source: ST Student Enrollment Data and ST Gender and/or Ethnicity by Program

TCC DUAL CREDIT STUDENTS RETURNING AFTER DUAL CREDIT EXPERIENCE

The aim of this report is to investigate whether dual credit students return to Tarrant County College (TCC) after their dual credit experience. Their final term as a dual credit student was used as a proxy for high school graduation. Students whose final dual credit term at TCC was in the spring or summer between 2011 and 2018 were tracked for six years to determine attendance and success at TCC. Each cohort tracked had roughly 3,500 students, on average.

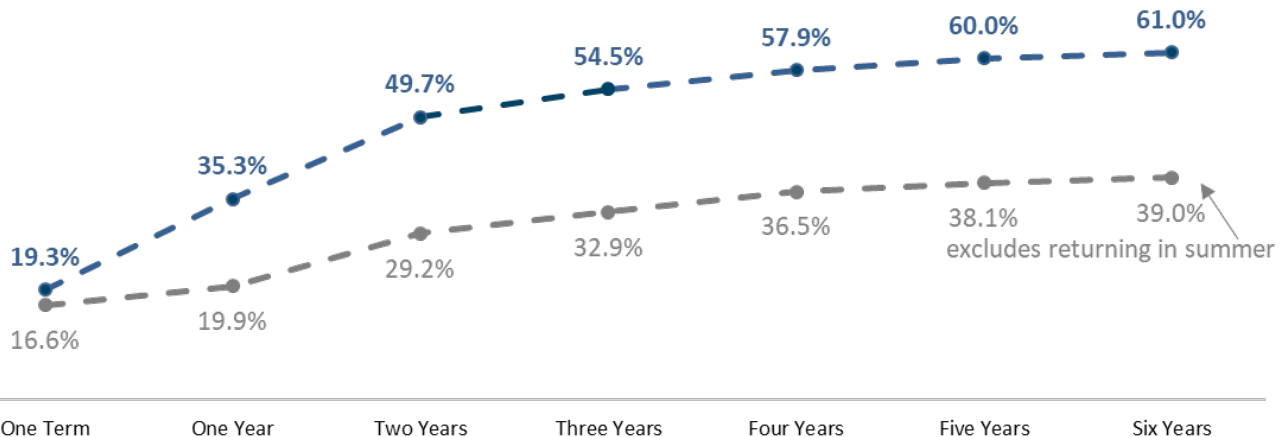
Returning to TCC

- Almost 20% of dual credit students returned to TCC within one term of their last dual credit term.
- Roughly 1 in 3 dual credit students returned to TCC within one year of their last dual credit term, and about 1 in 2 dual credit students returned to TCC within two years.
- Within four years almost 60% of dual credit students returned to TCC. (If a dual credit student hadn't returned to TCC within four years, they were unlikely to ever return to TCC.)
- If returning in the summer was excluded, the percentages of students who returned in one, two, three, four, five, or six years were roughly 15 to 20 percentage points lower.
- Dual credit students completed about 12 hours, on average, by the end of their last dual credit term.

Success at TCC

- The success rates decreased as more time passed between the course enrollment and the student's last dual credit term. The success rate for course enrollments taken within the first year after the student's last dual credit term was about 83%, whereas course enrollments taken within the second year (excludes year one) after the student's last dual credit term was about 79%. However, even in year three, the success rate was still fairly high - about 76%.
- About 8% of dual credit students earned a degree or certificate at TCC within four years of their last dual credit term, and about 10% earned a degree or certificate at TCC within six years of their last dual credit term.

Dual Credit Students who Returned to TCC



APPENDIX:

Dual Credit Students who Returned to TCC

Last Dual Credit Term	Number of Students	Within One Term		Within One Year		Within Two Years		Within Three Years		Within Four Years		Within Five Years		Within Six Years	
		Number of Students who Returned to TCC	Percent of Students who Returned to TCC	Number of Students who Returned to TCC	Percent of Students who Returned to TCC	Number of Students who Returned to TCC	Percent of Students who Returned to TCC	Number of Students who Returned to TCC	Percent of Students who Returned to TCC	Number of Students who Returned to TCC	Percent of Students who Returned to TCC	Number of Students who Returned to TCC	Percent of Students who Returned to TCC	Number of Students who Returned to TCC	Percent of Students who Returned to TCC
2011SP/2011SU	2,986	670	22.4%	1,194	40.0%	1,579	52.9%	1,733	58.0%	1,794	60.1%	1,832	61.4%	1,832	61.4%
2012SP/2012SU	3,376	666	19.7%	1,275	37.8%	1,768	52.4%	1,912	56.6%	1,978	58.6%	2,026	60.0%	2,050	60.7%
2013SP/2013SU	3,613	731	20.2%	1,337	37.0%	1,793	49.6%	1,986	55.0%	2,069	57.3%	2,124	58.8%		
2014SP/2014SU	3,801	782	20.6%	1,319	34.7%	1,854	48.8%	2,066	54.4%	2,140	56.3%				
2015SP/2015SU	3,056	364	11.9%	820	26.8%	1,294	42.3%	1,471	48.1%						
2016SP/2016SU	4,060	905	22.3%	1,542	38.0%	2,095	51.6%								
2017SP/2017SU	4,020	817	20.3%	1,308	32.5%										
2018SP/2018SU	4,487	738	16.4%												

Source: ST Student Enrollment Data and ST Gender and/or Ethnicity by Program

1) "Within One Term" was defined as students returning by the end of the fall term after their last dual credit term, which was either in Spring or Summer, and "Within One Year" was defined as students returning by the end of the summer term one year after their last dual credit term.

2) Dual credit students were defined as students with a program code of EHSE (or EHSE & EHDC prior to 2016FL). Early collegiate high school students are not considered dual credit students.

EX: There were 2,986 dual credit students whose last dual credit term at TCC was in 2011SP or 2011SU. Of these 2,986 students, 670 students (22.4%) returned to TCC by the end of 2011FL (within one term), and 1,194 students (40.0%) returned to TCC by the end of 2012SU (within one year).

Dual Credit Students who Returned to TCC (Excluding Summer Terms)

Last Dual Credit Term	Number of Students	Within One Term		Within One Year		Within Two Years		Within Three Years		Within Four Years		Within Five Years		Within Six Years	
		Number of Students who Returned to TCC	Percent of Students who Returned to TCC	Number of Students who Returned to TCC	Percent of Students who Returned to TCC	Number of Students who Returned to TCC	Percent of Students who Returned to TCC	Number of Students who Returned to TCC	Percent of Students who Returned to TCC	Number of Students who Returned to TCC	Percent of Students who Returned to TCC	Number of Students who Returned to TCC	Percent of Students who Returned to TCC	Number of Students who Returned to TCC	Percent of Students who Returned to TCC
2011SP/2011SU	2,986	567	19.0%	669	22.4%	932	31.2%	1,061	35.5%	1,130	37.8%	1,192	39.9%	1,192	39.9%
2012SP/2012SU	3,376	562	16.6%	658	19.5%	987	29.2%	1,105	32.7%	1,187	35.2%	1,254	37.1%	1,289	38.2%
2013SP/2013SU	3,613	597	16.5%	693	19.2%	1,021	28.3%	1,179	32.6%	1,271	35.2%	1,350	37.4%		
2014SP/2014SU	3,801	655	17.2%	780	20.5%	1,169	30.8%	1,349	35.5%	1,441	37.9%				
2015SP/2015SU	3,056	326	10.7%	381	12.5%	693	22.7%	851	27.8%						
2016SP/2016SU	4,060	784	19.3%	908	22.4%	1,299	32.0%								
2017SP/2017SU	4,020	735	18.3%	871	21.7%										
2018SP/2018SU	4,487	651	14.5%												

Source: ST Student Enrollment Data and ST Gender and/or Ethnicity by Program

Success Rate of Dual Credit Students who Returned

Last Dual Credit Term	First Term*			Year One			Year Two (Excluding Year One)			Year Three (Excluding Year One & Two)		
	Total Course Enrollments	Success (A, B, C, or CR)	Success Rate	Total Course Enrollments	Success (A, B, C, or CR)	Success Rate	Total Course Enrollments	Success (A, B, C, or CR)	Success Rate	Total Course Enrollments	Success (A, B, C, or CR)	Success Rate
2011SP/2011SU	2,589	2,048	79.1%	6,016	4,884	81.2%	5,350	4,121	77.0%	3,422	2,535	74.1%
2012SP/2012SU	2,657	2,256	84.9%	6,336	5,348	84.4%	5,639	4,468	79.2%	3,581	2,729	76.2%
2013SP/2013SU	2,689	2,212	82.3%	6,421	5,268	82.0%	5,621	4,433	78.9%	3,642	2,779	76.3%
2014SP/2014SU	2,895	2,348	81.1%	6,719	5,471	81.4%	6,338	5,098	80.4%	4,055	3,073	75.8%
2015SP/2015SU	1,418	1,214	85.6%	3,678	3,150	85.6%	4,107	3,257	79.3%	2,734	2,041	74.7%
2016SP/2016SU	3,461	2,858	82.6%	7,824	6,478	82.8%	6,339	5,063	79.9%			
2017SP/2017SU	2,910	2,419	83.1%	6,772	5,615	82.9%						
2018SP/2018SU	2,779	2,373	85.4%									

Source: ST Student Enrollment Data and ST Gender and/or Ethnicity by Program

*EX: There were 2,589 course enrollments in the first term by dual credit students whose last dual credit term at TCC was in 2011SP or 2011SU. The success rate for these course enrollments was 79.1%. There were 6,016 course enrollments in Year One by dual credit students whose last dual credit term at TCC was in 2011SP or 2011SU. The success rate for these course enrollments was 81.2%. There were 5,350 course enrollments in Year Two (Excluding Year One) by dual credit students whose last dual credit term at TCC was in 2011SP or 2011SU. The success rate for these course enrollments was 77.0% (Note: First Term = 2011FL (and 2011SU if last term was 2011SP), Year One = 2011FL, 2012SP, and 2012SU (and 2011SU if last term was 2011SP), Year Two (Excluding Year One) = 2012FL, 2013SP, and 2013SU).

SUCCESS OF TCC DUAL CREDIT STUDENTS AT 4-YEAR SCHOOLS

The aim of this report is to investigate the success of students following their dual credit experience at Tarrant County College (TCC). Their final term as a dual credit student was used as a proxy for high school graduation. Students whose final dual credit term at TCC was in the spring or summer between 2011 and 2018 were tracked for six years to determine attendance and graduation from a 4-year institution. Each cohort tracked had roughly 3,500 students, on average.

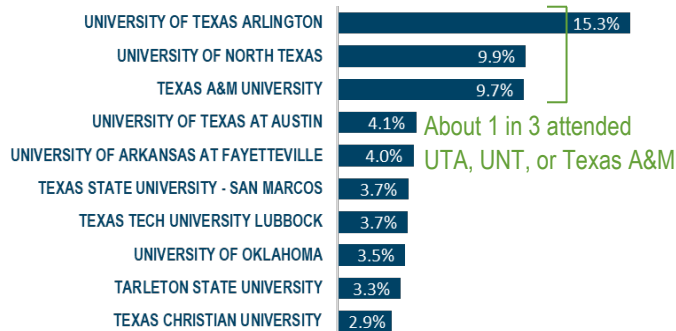
Continuing to 4-year University

Continuing First Fall Term after Dual Credit:

On average about 1 in 2 students attended a 4-year school the fall term following their last dual credit term at TCC.

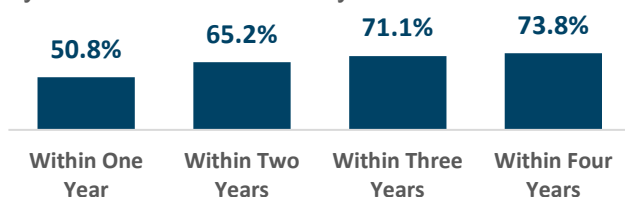
- Dual credit students completed 12 hours, on average, by the end of their last dual credit term. However, students who continued to a 4-year institution the first fall term after their dual credit completed 14 hours, on average. Thus, they entered the four year school with almost one semester completed.
- About 2 in 3 students attended TCC or a four-year school the following fall after their last dual credit term.

Top Schools: About 60% of dual credit students attended one of these schools the first fall term after their last dual credit term.



Continuing Within Four-years after Dual Credit:

On average about 65% of students attended a four year school within two years of their last dual credit term at TCC, and almost 75% had attended a 4-year school within four years.

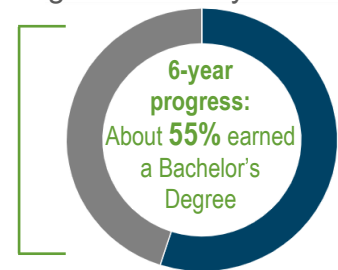


- Overall, about 90% of students attended TCC or a 4-year school within four years of their last dual credit term.

Bachelor's Degree in 6 Years

On average about 30% of dual credit students earned a Bachelor's degree within four years of their last dual credit term at TCC, and about 55% earned a Bachelor's degree within 6 years.

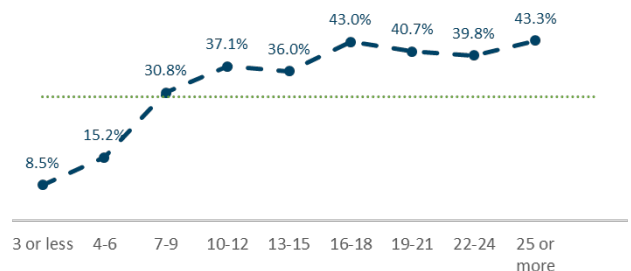
About 80% of students who attended a 4-year school the first fall term after dual credit at TCC earned a Bachelor's degree within six years.



- Of the students who attended a 4-year school, the first fall term following their last dual credit term, 55% earned a Bachelor's degree in four years, and almost 80% earned a Bachelor's degree in six years.
- Of the students who attended a 4-year school the first fall term following their last dual credit term, over 5% earned an advanced degree (Master's, Doctorate, etc.) within six years.
- Overall, almost 40% of students earned a degree/certificate at TCC or a Bachelor's degree within four years of their last dual credit term, and about 60% earned a degree/certificate at TCC or a Bachelor's degree within six years of their last dual credit term.

Relationship between Hours Earned through dual credit and earning a Bachelor's in 4 years:

Percent who Earned a Bachelor's Degree in 4 years by Hours Completed at the End of Last Dual Credit Term



- Once students completed about three or four dual credit courses, the likelihood of earning a Bachelor's degree in four years remained around 40%.

APPENDIX:

Dual Credit Students who continued at 4-Year School

Last Dual Credit Term	Number of Students	Within One Term		Within One Year		Within Two Years		Within Three Years		Within Four Years	
		N	%	N	%	N	%	N	%	N	%
2011SP/2011SU	2,986	1,399	46.9%	1,440	48.2%	1,874	62.8%	2,067	69.2%	2,180	73.0%
2012SP/2012SU	3,376	1,642	48.6%	1,681	49.8%	2,190	64.9%	2,401	71.1%	2,523	74.7%
2013SP/2013SU	3,613	1,767	48.9%	1,834	50.8%	2,320	64.2%	2,545	70.4%	2,666	73.8%
2014SP/2014SU	3,801	1,795	47.2%	1,848	48.6%	2,407	63.3%	2,657	69.9%	2,793	73.5%
2015SP/2015SU	3,056	1,638	53.6%	1,693	55.4%	2,129	69.7%	2,292	75.0%		
2016SP/2016SU	4,060	2,055	50.6%	2,122	52.3%	2,710	66.7%				
2017SP/2017SU	4,020	1,988	49.5%	2,034	50.6%						
2018SP/2018SU	4,487	2,182	48.6%								

Source: National Student Clearinghouse data and ST Gender and/or Ethnicity by Program

Dual Credit Students who earned a Bachelor's Degree at 4-Year School

Last Dual Credit Term	Number of Students	4 Years		6 Years	
		N	%	N	%
2011SP/2011SU	2,986	817	27.4%	1,593	53.3%
2012SP/2012SU	3,376	1,024	30.3%	1,876	55.6%
2013SP/2013SU	3,613	1,120	31.0%		
2014SP/2014SU	3,801	1,132	29.8%		

Source: National Student Clearinghouse data and ST Gender and/or Ethnicity by Program

Percent who Earned Bachelor's Degree in four years by Hours Completed

*2011SP/2011SU, 2012SP/2012SU, 2013SP/2013SU, and 2014SP/2014SU Combined

Hours Completed by End of Last Dual Credit Term	N*	Earned Bachelor's in 4 years	
		N	%
3 or less	1,286	109	8.5%
4-6	2,791	425	15.2%
7-9	2,197	676	30.8%
10-12	4,661	1,727	37.1%
13-15	616	222	36.0%
16-18	1,232	530	43.0%
19-21	297	121	40.7%
22-24	525	209	39.8%
25 or more	171	74	43.3%
Total	13,776	4,093	29.7%

Source: National Student Clearinghouse data, ST Gender and/or Ethnicity by Program, and IR Cum. GPA

DEFINITIONS:

Years: The time points for attending a 4-year school were defined as August 1st to July 31st one, two, three, and four years later. The four-year and six-year Bachelor's degree time points for graduation rates were defined as August 1st of the cohort's first term to August 31st four and six years later.

Please note that the NSC does not have information on every student, thus, missing data are expected. However, NSC-participating colleges and universities enroll over 99% of students in the U.S.; thus, NSC often provides the best overall estimates for student transfers, concurrent/previous enrollments, or degrees completed at outside institutions.

