



UTAH SYSTEM OF  
HIGHER EDUCATION

# LEGISLATIVE BRIEF

November 2022

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## Career and Technical Education Annual Report, 2022

The Career and Technical Education (CTE) programs offered at Utah System of Higher Education institutions provide students with the necessary skills to contribute to Utah’s economy. USHE CTE programs serve Utah students and employers by preparing students to enter the workforce in high-demand, high-paying jobs.

### Secondary Students

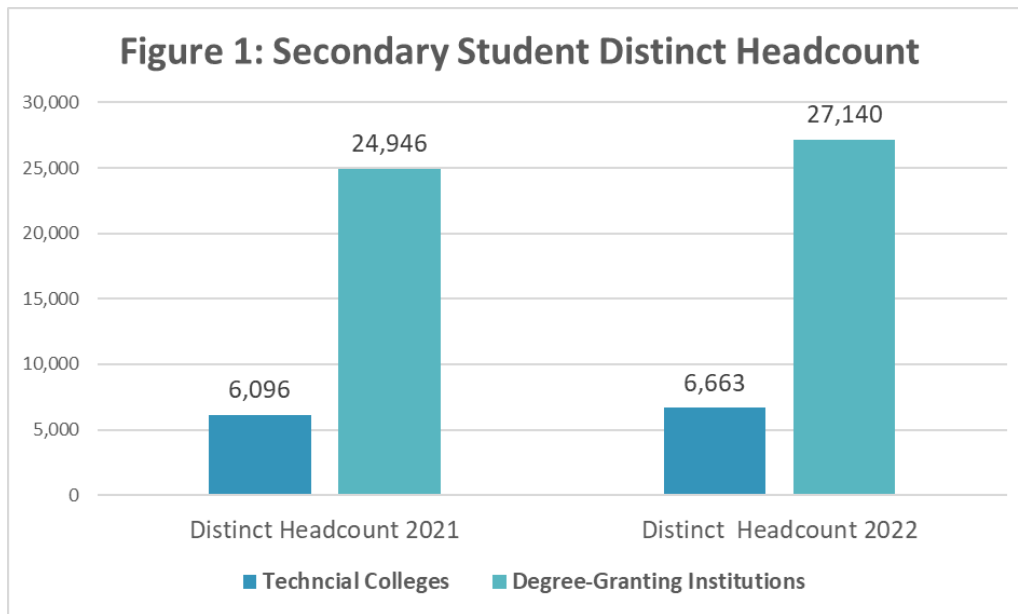
To help high school students embark on meaningful career paths, USHE provides opportunities for students enrolled in Utah high schools to take postsecondary CTE courses. Thirteen of the 15 participating USHE institutions demonstrated growth in at least one of three metrics from the previous school year.

Table 1: FY22 Concurrent Enrollment

College/University	Headcount	Headcount Growth	Credits or Equivalent*	Credits or Equivalent Growth	Completions	Completion Growth
Bridgerland Technical College	108	1.9%	754.9	2.8%	107	0.9%
Davis Technical College	1,803	-5.3%	15,519.6	2.5%	280	3.3%
Dixie Technical College	184	14.3%	1,756.4	13.0%	76	11.8%
Mountainland Technical College	1,351	6.0%	17,285.3	15.7%	631	6.4%
Ogden-Weber Technical College	1,116	23.2%	8,403.8	41.7%	169	42.0%
Salt Lake Community College	5,684	23.2%	27,763.0	-27.1%	7	0.0%
Snow College	885	-6.1%	3,731.0	48.0%	72	0.0%
Southern Utah University	515	46.3%	2,145.0	-17.2%		--
Southwest Technical College	415	23.1%	1,676.7	28.6%	50	-26.5%
Tooele Technical College	350	23.2%	2,376.5	0.0%	35	52.2%
Uintah Basin Technical College	1,336	18.9%	7,010.6	0.0%	241	-16.3%
Utah State University	1,693	17.0%	7,631.0	0.0%		--
Utah Tech University	1,927	-11.6%	6,377.0	0.0%	30	-26.8%
Utah Valley University	6,647	6.4%	26,810.0	0.0%		--
Weber State University	9,789	6.8%	47,814.0	38.9%	25	47.1%
<b>USHE TOTAL</b>	<b>33,803</b>	<b>8.9%</b>	<b>177,054.8</b>	<b>14.8%</b>	<b>1,723</b>	<b>3.0%</b>

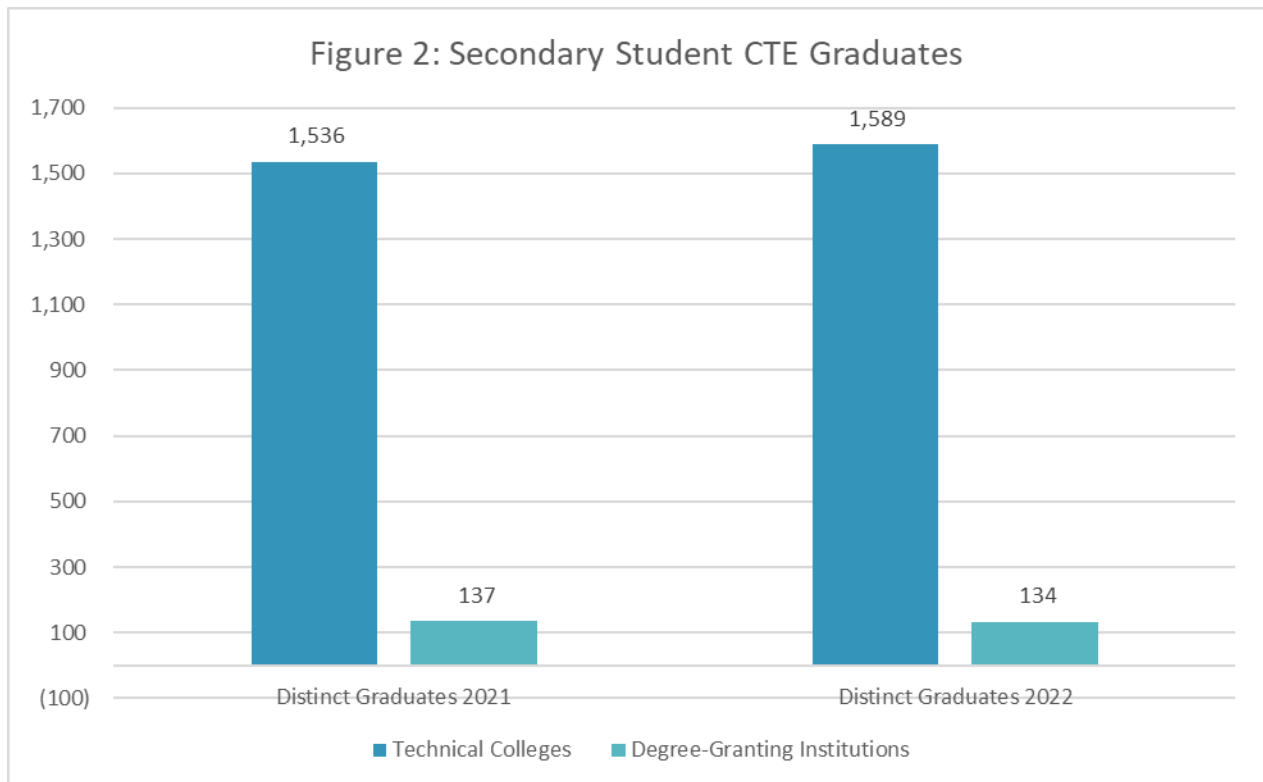
### A. Headcount:

USHE institutions enrolled 33,803 secondary students in CTE courses during the 2021-22 school year. CTE enrollment grew by 8.9% from 2021 to 2022. Technical colleges’ enrollment grew by 9.3% and degree-granting institutions’ enrollment grew by 8.8%. Twelve of the 15 participating USHE institutions showed enrollment growth (see Table 1).



**B. Completions:**

For the 2021-22 academic year, USHE reported 1,723 secondary students received one or more postsecondary CTE certificates or awards. Technical college completions represented 92.0% (n = 1,589), and degree-granting institutions represented 8.0% (n = 134) of all completions. Technical college completions grew by 3.5% while degree-granting institution completions decreased by 2.2% over the prior year. Systemwide CTE secondary student completions increased by 3.0%.

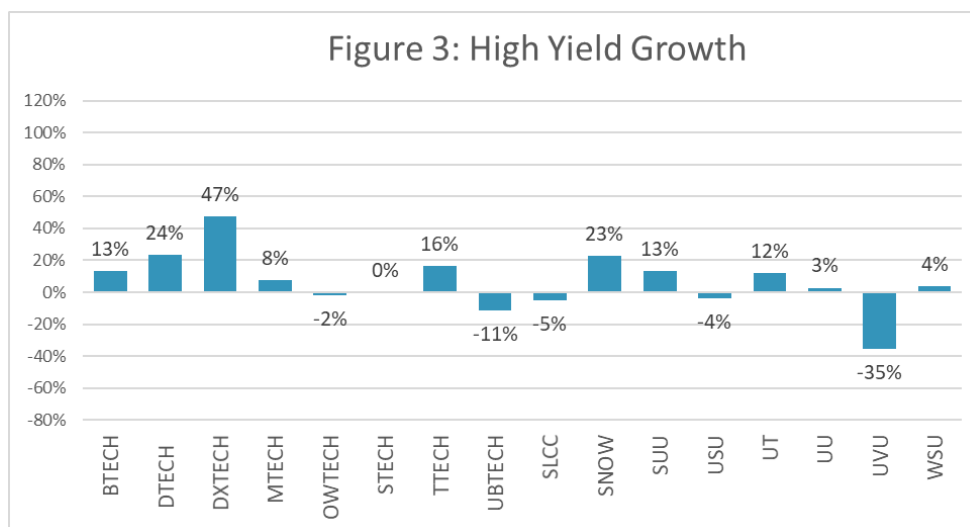


## High-Yield Jobs

The Department of Workforce Services (DWS) categorizes 4- and 5-star jobs as high-wage and high-demand occupations. USHE has classified programs at each USHE institution that align with these jobs as high-yield programs. Table 3 shows the number of high-yield CTE awards earned in 2022. Technical college certificates represented 13.0% of all high-yield awards. Degree-granting associate degrees and certificates represented 87.0% of all high-yield awards.

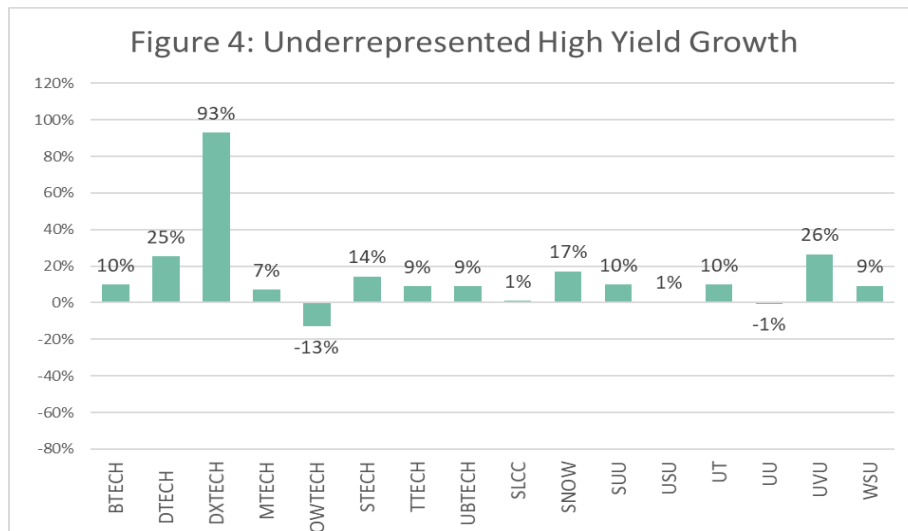
Institution Type	Awards
Technical Colleges	3,438
Degree-Granting Institutions	22,974
USHE Total	26,412

Figure 3 shows the high-yield enrollment growth for all students, and Figure 4 shows the high-yield enrollment growth for underrepresented students.<sup>1</sup> Ten of USHE's 16 institutions showed growth in total student high-yield completions. Overall, high-yield growth increased by 11.0% for technical colleges but decreased by 5.0% for degree-granting institutions. Notable high-yield completion growth occurred at Dixie Technical College (up 47%), Davis Technical College (up 24%), and Snow College (up 23%).



All but two USHE institutions increased underrepresented high-yield completions. Underrepresented high-yield completions increased by 13.0% at technical colleges and 7.0% at degree-granting institutions. Notably, Dixie Technical College increased high-yield underrepresented graduates by 93%, followed by Utah Valley University (up 26%) and Davis Technical College (up 25%).

<sup>1</sup> Underrepresented students are Hispanic students, American Indian/Alaska Native, Black/African American, Native Hawaiian/Pacific Islander, Multiracial, Asian, OR Female.

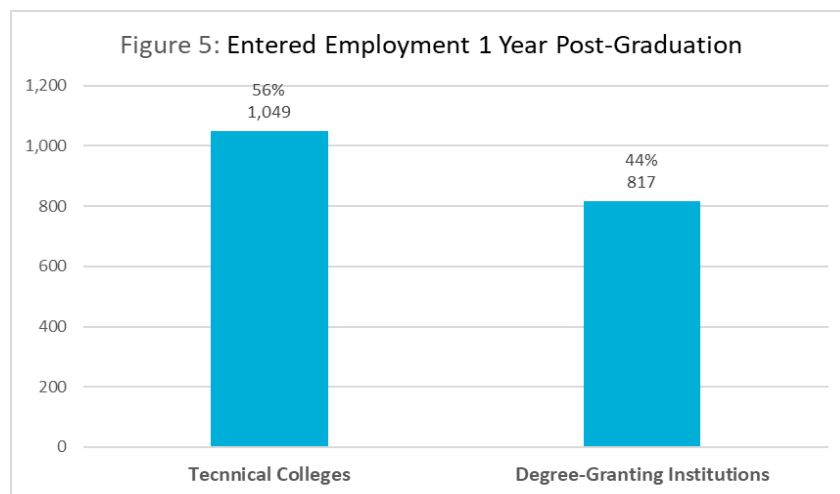


### Performance Outcomes

Data matching with DWS<sup>2</sup> provides USHE an opportunity to examine the immediate and long-term workforce outcomes of its CTE graduates. The following information provides insight into the number of CTE graduates who entered employment, who retained employment, and those graduates’ median employment earnings.<sup>3</sup>

#### A. Entered Employment:

For 2022, data matching indicated that 1,866 USHE CTE graduates participated in Utah’s workforce within one year of graduation. Technical college graduates represented 56.0%, and degree-granting institution graduates comprised 44.0% of one-year post-graduation employment. Of these immediately employed graduates, 30.0% completed associate degrees, and 70.0% earned certificates.

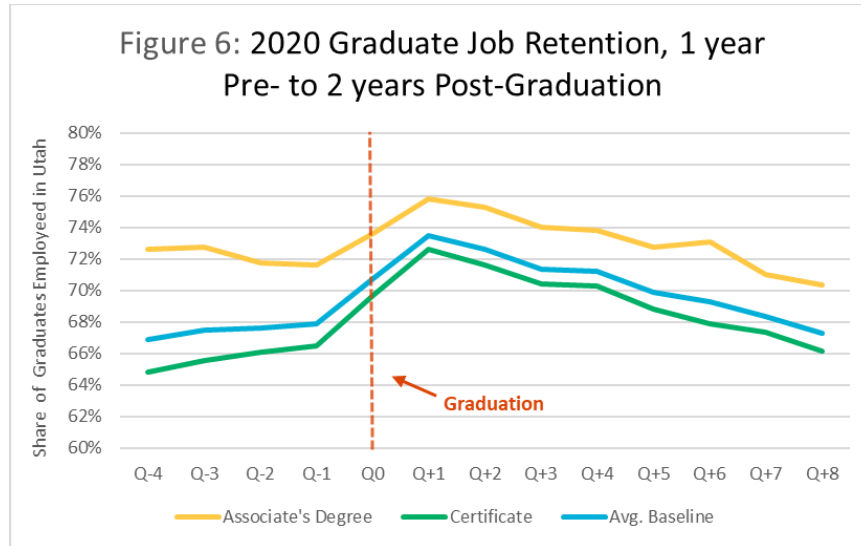


<sup>2</sup> Note: federal, non-profit, and self-employed graduates are not reported in DWS wage data.

<sup>3</sup> Graduates’ aggregate wages are calculated based on only those individuals with wage records from each of the four quarters (Q+1 through Q+4) immediately following the student’s quarter of graduation (Q0). If a graduate has wage records for three or fewer quarters, he/she is excluded from the analysis. Graduates earning below \$15,080 per annum are excluded. Graduates are also excluded from the analysis if they are found enrolled at a USHE institution during the four quarters immediately following the specified graduation (potentially depressing wage growth due to ongoing education) or if they received a subsequent award before the end of the fourth quarter after graduating with the credential in question (potentially inflating wage growth associated with the credential in question).

## B. Job Retention:

Job retention compares graduates' wage information from one year pre-graduation to two years post-graduation. Figure 6 details how CTE graduates found employment quickly in the first quarter after graduation but struggled to maintain employment through the seven quarters post-graduation.



## C. Earnings:

Salary information for CTE graduates was measured from one year pre-graduation to one year post-graduation. Average wage growth during this time for CTE graduates at all USHE institutions was 42.0%, which means that CTE graduates experienced a 42.0% salary increase within the first year of their postsecondary completion. Positive salary increases were consistent for all technical college and degree-granting graduates. The wage percentage increase was higher for graduates from degree-granting institutions (58%) than technical college graduates (36%). Earning differences were highest for degree-seeking graduates at Utah Technical University (87%), Weber State University (76%), and Snow College (61%). Earning differences were highest for technical college graduates at Uintah Basin Technical College (49%), Bridgerland Technical College (38%), and Dixie Technical College (32%).

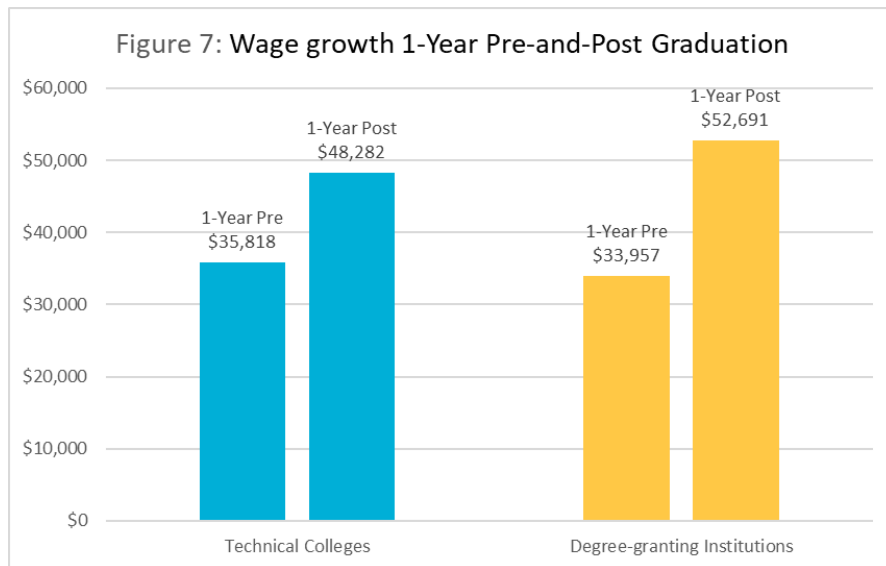
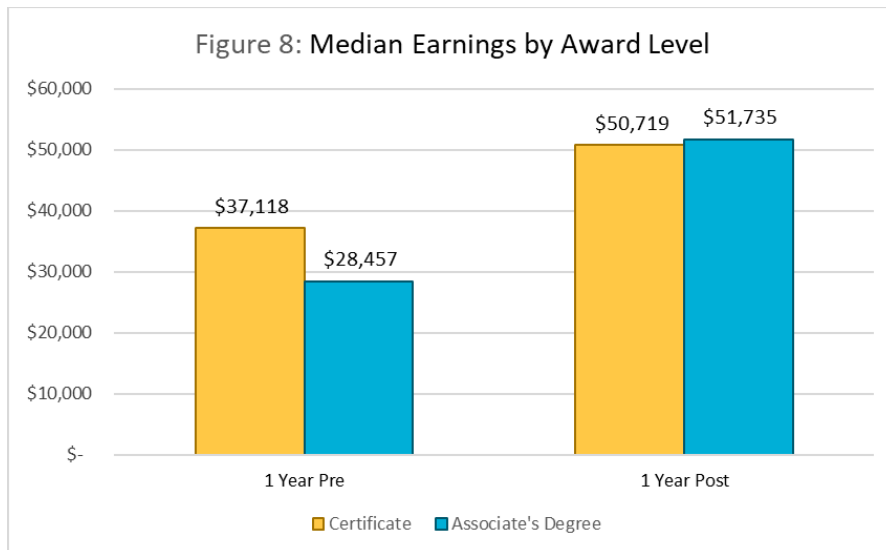


Figure 8 shows the median wage distribution by the classification of award levels of CTE graduates. Associate degrees returned the largest one-year pre-graduation to one-year post-graduation median earnings growth.



## Tuition and Fees

Table 6 outlines the annualized in-state tuition and fee rates for programs at USHE institutions. These rates are categorized by full-time equivalent (FTE)<sup>4</sup> credit/hours for single and full-time credit loads. Technical colleges are required to offer free tuition to secondary students in CTE programs, although some programs may require additional costs depending on the specific program of study.

Table 6: Tuition and Fees			
College/ University	Annual Tuition 21-22 (Per FTE Credit/Hour)	Annual Tuition and Fees 21-22 (Per FTE Credit/Hour)	Annual Tuition and Fees (Per FTE)
BTC	\$ 2.00	\$ 2.00	\$ 1,800.00
DTC	\$ 2.10	\$ 2.10	\$ 1,890.00
DXTC	\$ 2.25	\$ 2.25	\$ 2,025.00
MTC	\$ 2.10	\$ 2.10	\$ 1,890.00
OWTC	\$ 2.00	\$ 2.00	\$ 1,800.00
STC	\$ 2.00	\$ 2.00	\$ 1,800.00
TTC	\$ 2.00	\$ 2.00	\$ 1,800.00
UBTC	\$ 2.00	\$ 2.00	\$ 1,800.00
SLCC	\$ 242.13	\$ 272.40	\$ 4,086.00
Snow	\$ 241.07	\$ 266.67	\$ 4,000.00
SUU	\$ 400.40	\$ 448.40	\$ 6,726.00
UU	\$ 575.20	\$ 654.47	\$ 9,817.00
USU	\$ 475.80	\$ 537.00	\$ 8,055.00
UT	\$ 337.60	\$ 390.80	\$ 5,862.00
UVU	\$ 357.87	\$ 400.67	\$ 6,010.00
WSU	\$ 355.27	\$ 415.27	\$ 6,229.00

<sup>4</sup> Note: One full-time equivalent (FTE) student of two semesters at 15 credit hours for degree-granting institutions and 900 membership hours for technical colleges, and all info is pulled for in-state tuition.