

May 9, 2018

MEMORANDUM

TO: State Board of Regents
FROM: David L. Buhler
SUBJECT: USHE – Enrollment Forecasts

Issue

Annually, USHE institutions are asked to update their respective 10-year enrollment forecast estimates for Board review and approval. These estimates are prepared to help inform Regents and state-level policymakers about future enrollment levels at USHE institutions; assist in identifying capital development needs; and develop mid- to long-range operation plans.

Background

Each of the USHE institutions have developed a unique projection model to estimate future enrollments based on their distinct missions and respective enrollment management strategies. The enrollment projection models use state and institutional data sets that include (but are not limited to) variables such as: Utah population by age (Kem C. Gardner Policy Institute, Utah Population Committee) high school enrollments (Utah State Board of Education), and unemployment estimates (Bureau of Labor Statistics). The models use estimation methods such as Least Squared Regression, Bayesian Structural Time Series Analysis, Weighted Growth, and Trend Analysis to estimate future enrollments. The institution enrollment projection models are evaluated annually in an open, peer review forum of Institutional Research professionals from each of the eight USHE institutions. This year's discussion was held on April 18th, 2018. The data presented on behalf of each of the institutions was accepted as valid and being built on reasonable assumptions.

When comparing the 2017 enrollment projection to last years' actual reported data, the fall end-of-term 2017 headcount projections were understated by 541 students (difference of 0.3%); fall end-of-term FTE projections were overstated by 1,248 FTE (difference of 1%) and the 2015-16 annualized FTE projections were overstated by 2,611 FTE (a difference of 1.9%). Most of the significant differences between the projected and reported data in the 2017 FTE estimates can be attributed to specific enrollment data that did not meet projections from one or two of the institutions, depending on the metric. As a result, these institutions have revised their estimation models for the 2018 year projection data sets to try to more accurately project enrollment for the next year.

With regards to the enrollment performance as compared to the goals established in the 2025 Board of Regents Strategic Plan, USHE originally projected that it would grow by 50,000 students by the year 2025 (Utah: A State of Opportunity pg. 3), The new, adjusted projections, along with the growth of 12,151

students gained at USHE institutions since 2015, estimate that the USHE System will have approximately 49,000 additional students enrolled by 2025 and an estimated growth of over 57,000 students by 2027 compared to 2015.

While the projected increase is smaller than earlier projections, the more conservative estimates predict growth to approximately 231,000 students (162,000 FTE) by the fall 2027 semester, with an annualized enrollment of 172,500 full-time equivalent students for the 2027-28 academic year. These projections still represent an increase of 45,000 (40,000 FTE) students enrolled at USHE institutions over the next 10 years. This is more than the 2017 enrollment of the University of Utah and Southern Utah University combined.

The attached tables display these projections on an institution-by-institution basis. These estimates may be used in concert with additional data points when conducting mid to long-range planning.

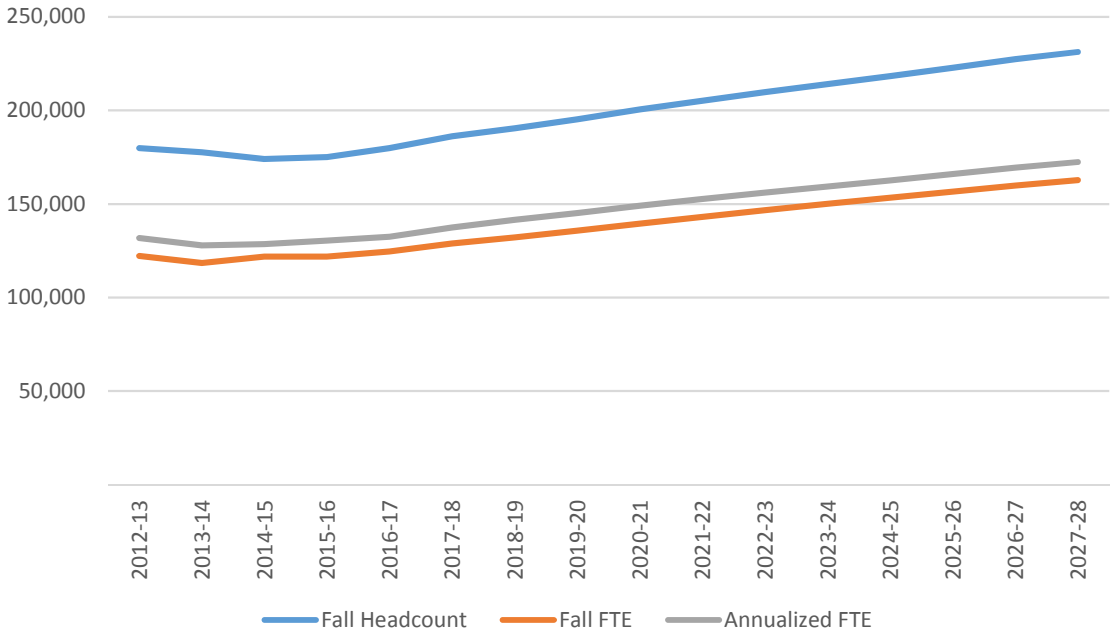
Commissioner's Recommendation

The Commissioner recommends the Board approve the 10-year enrollment projections for the Utah System of Higher Education.

David L. Buhler
Commissioner of Higher Education

DLB/KLH/JAC
Attachments

USHE Projections - System Totals



Enrollment Projections

Utah System of Higher Education

System Total Projections - Proposed to Board of Regents, May 2018

Institution	Fall (End of Term) Headcount											Growth Rate
	Actual 2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
University of Utah	33,153	34,024	34,892	35,619	36,179	36,643	37,055	37,442	37,830	38,130	38,333	
Annual Growth	2.2%	2.6%	2.6%	2.1%	1.6%	1.3%	1.1%	1.0%	1.0%	0.8%	0.5%	1.5%
Utah State University*	29,026	29,113	29,375	29,816	30,412	31,020	31,641	32,273	32,919	33,577	34,249	
Annual Growth	0.1%	0.3%	0.9%	1.5%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	1.7%
Weber State University	28,379	28,500	28,970	29,747	30,416	31,064	31,503	31,896	32,180	32,516	32,854	
Annual Growth	4.2%	0.4%	1.6%	2.7%	2.2%	2.1%	1.4%	1.2%	0.9%	1.0%	1.0%	1.5%
Southern Utah University	10,245	10,642	11,078	11,488	11,941	12,420	12,888	13,377	13,947	14,544	15,184	
Annual Growth	6.7%	3.9%	4.1%	3.7%	3.9%	4.0%	3.8%	3.8%	4.3%	4.3%	4.4%	4.0%
Snow College	5,589	5,744	5,956	6,184	6,410	6,627	6,859	7,074	7,278	7,482	7,687	
Annual Growth	3.2%	2.8%	3.7%	3.8%	3.7%	3.4%	3.5%	3.1%	2.9%	2.8%	2.7%	3.2%
Dixie State University	9,707	10,559	11,504	12,564	13,266	14,026	14,758	15,526	16,338	17,159	17,957	
Annual Growth	8.0%	8.8%	8.9%	9.2%	5.6%	5.7%	5.2%	5.2%	5.2%	5.0%	4.7%	6.3%
Utah Valley University	37,785	39,807	41,230	42,708	43,925	45,084	46,205	47,472	48,780	50,253	51,125	
Annual Growth	7.6%	5.4%	3.6%	3.6%	2.8%	2.6%	2.5%	2.7%	2.8%	3.0%	1.7%	3.1%
Salt Lake Community College	32,277	32,069	32,240	32,413	32,609	32,847	33,099	33,339	33,527	33,694	33,885	
Annual Growth	0.4%	- 0.6%	0.5%	0.5%	0.6%	0.7%	0.8%	0.7%	0.6%	0.5%	0.6%	0.5%
USHE Totals	186,161	190,458	195,244	200,539	205,159	209,732	214,008	218,399	222,800	227,355	231,274	
Annual Growth	3.5%	2.3%	2.5%	2.7%	2.3%	2.2%	2.0%	2.1%	2.0%	2.0%	1.7%	2.2%

Enrollment Projections

Utah System of Higher Education

System Total Projections - Proposed to Board of Regents, May 2018

Institution	Fall Semester (End-of-Term) Full Time Equivalent											Growth Rate
	Actual 2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
University of Utah	28,188	29,009	29,818	30,475	30,955	31,352	31,704	32,035	32,367	32,623	32,798	
Annual Growth	1.8%	2.9%	2.8%	2.2%	1.6%	1.3%	1.1%	1.0%	1.0%	0.8%	0.5%	1.5%
Utah State University*	22,813	23,041	23,272	23,621	24,093	24,575	25,066	25,568	26,079	26,601	27,133	
Annual Growth	1.9%	1.0%	1.0%	1.5%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	1.7%
Weber State University	17,221	17,258	17,516	18,041	18,538	18,994	19,305	19,595	19,822	20,078	20,323	
Annual Growth	4.0%	0.2%	1.5%	3.0%	2.8%	2.5%	1.6%	1.5%	1.2%	1.3%	1.2%	1.7%
Southern Utah University	7,761	8,077	8,392	8,705	9,076	9,441	9,821	10,193	10,623	11,074	11,568	
Annual Growth	4.9%	4.1%	3.9%	3.7%	4.3%	4.0%	4.0%	3.8%	4.2%	4.2%	4.5%	4.1%
Snow College	4,097	4,176	4,278	4,377	4,522	4,676	4,837	5,004	5,190	5,418	5,612	
Annual Growth	1.4%	1.9%	2.4%	2.3%	3.3%	3.4%	3.4%	3.4%	3.7%	4.4%	3.6%	3.2%
Dixie State University	7,398	7,919	8,628	9,423	9,949	10,520	11,068	11,644	12,253	12,869	13,468	
Annual Growth	8.0%	7.0%	8.9%	9.2%	5.6%	5.7%	5.2%	5.2%	5.2%	5.0%	4.7%	6.2%
Utah Valley University	25,198	26,449	27,426	28,442	29,515	30,564	31,501	32,430	33,274	34,126	34,725	
Annual Growth	6.0%	5.0%	3.7%	3.7%	3.8%	3.6%	3.1%	2.9%	2.6%	2.6%	1.8%	3.3%
Salt Lake Community College	16,297	16,260	16,347	16,435	16,534	16,654	16,782	16,904	17,000	17,084	17,181	
Annual Growth	2.5%	- 0.2%	0.5%	0.5%	0.6%	0.7%	0.8%	0.7%	0.6%	0.5%	0.6%	0.5%
USHE Totals	128,974	132,189	135,675	139,518	143,182	146,777	150,085	153,373	156,608	159,873	162,806	
Annual Growth	3.5%	2.5%	2.6%	2.8%	2.6%	2.5%	2.3%	2.2%	2.1%	2.1%	1.8%	2.4%

Enrollment Projections

Utah System of Higher Education

System Total Projections - Proposed to Board of Regents, May 2018

Annualized FTE - Academic Year													
Institution	Actuals 2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	Growth Rate
University of Utah	30,363	31,024	31,870	32,683	33,364	33,889	34,324	34,709	35,071	35,435	35,716	35,907	
Annual Growth	1.1%	2.2%	2.7%	2.6%	2.1%	1.6%	1.3%	1.1%	1.0%	1.0%	0.8%	0.5%	1.5%
Utah State University*	23,584	23,820	24,058	24,299	24,663	25,156	25,659	26,173	26,696	27,230	27,775	28,330	
Annual Growth	0.1%	1.0%	1.0%	1.0%	1.5%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	1.7%
Weber State University	17,434	17,687	17,987	18,194	18,716	19,242	19,709	20,025	20,329	20,576	20,848	21,100	
Annual Growth	1.1%	1.5%	1.7%	1.1%	2.9%	2.8%	2.4%	1.6%	1.5%	1.2%	1.3%	1.2%	1.7%
Southern Utah University	7,915	8,254	8,514	8,758	8,988	9,285	9,558	9,831	10,077	10,402	10,730	11,104	
Annual Growth	3.1%	4.3%	3.1%	2.9%	2.6%	3.3%	2.9%	2.9%	2.5%	3.2%	3.2%	3.5%	3.1%
Snow College	3,931	4,109	4,285	4,469	4,662	4,865	5,076	5,298	5,530	5,773	6,028	6,295	
Annual Growth	2.3%	4.5%	4.3%	4.3%	4.3%	4.3%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%
Dixie State University	6,806	7,286	8,025	8,743	9,549	10,082	10,660	11,216	11,800	12,417	13,041	13,647	
Annual Growth	6.5%	7.0%	10.1%	8.9%	9.2%	5.6%	5.7%	5.2%	5.2%	5.2%	5.0%	4.7%	6.5%
Utah Valley University	25,069	27,582	29,059	30,098	31,177	32,065	32,911	33,730	34,655	35,609	36,685	37,321	
Annual Growth	3.9%	10.0%	5.4%	3.6%	3.6%	2.8%	2.6%	2.5%	2.7%	2.8%	3.0%	1.7%	3.7%
Salt Lake Community College	17,430	17,645	17,740	17,834	17,930	18,039	18,170	18,309	18,442	18,547	18,638	18,744	
Annual Growth	- 1.2%	1.2%	0.5%	0.5%	0.5%	0.6%	0.7%	0.8%	0.7%	0.6%	0.5%	0.6%	0.7%
USHE Totals	132,531	137,406	141,538	145,077	149,049	152,623	156,068	159,290	162,599	165,988	169,460	172,448	
Annual Growth	1.6%	3.7%	3.0%	2.5%	2.7%	2.4%	2.3%	2.1%	2.1%	2.1%	2.1%	1.8%	2.4%

* Utah State projection data does not include enrollments at USUE-DWS campus

2017 Projections - Outcome Review

Fall 2017 EOT Headcount				Fall 2017 EOT FTE				2016-17 Annualized FTE			
Institution	Actual	Projected	Difference	Actual	Projected	Difference	Actual	Projected	Difference		
University of Utah	33,153	33,228	- 75	28,188	28,397	- 209	30,363	30,390	- 27		
Utah State University	29,026	28,986	40	22,813	22,614	199	23,584	23,550	34		
Weber State University	28,379	29,367	- 988	17,221	18,530	- 1,309	17,434	19,386	- 1,952		
Southern Utah University	10,245	9,905	340	7,761	7,610	151	7,915	7,964	- 49		
Snow College	5,589	5,604	- 15	4,097	4,385	- 288	3,931	3,895	36		
Dixie State University	9,707	9,798	- 91	7,398	7,349	49	6,806	6,785	21		
Utah Valley University	37,785	36,397	1,388	25,198	24,671	527	25,069	25,200	- 131		
Salt Lake Community College	32,277	32,335	- 58	16,297	16,665	- 368	17,430	17,973	- 543		
USHE Totals	186,161	185,620	541	128,973	130,221	- 1,248	132,532	135,143	- 2,611		
System Percentage Difference			0.3%						-1.9%		