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UTAH SYSTEM OF HIGHER EDUCATION Higher Education Space Standards Study



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ABOUT THE CONSULTANTS

Daniel K. Paulien founded Paulien & Associates in 1979. The firm provides space needs analyses and pre-architectural programing for colleges and universities across the country and internationally. Paulien & Associates has provided space consulting for over 500 campuses. Prior to opening Paulien & Associates, Dan served as Coordinator of Facilities Planning and Research for the Colorado Commission on Higher Education and as Director of Planning and Student Auxiliary Services for the Auraria Higher Education Center in Denver.

Yvonne M. Thibodeau has been with Paulien & Associates for 15 years. During this time she has performed space analyses and benchmarking studies for multiple higher education entities. Yvonne has analyzed campus space utilization and applied normative guidelines. She has interpreted and updated state-mandated space standards to calculate space needs.

Paulien & Associates has developed space guidelines for state and regional higher education systems. Paulien & Associates developed Higher Education Space Standards for the State of Utah in 1996, providing a space utilization and standards study resulting in a space model that could be used in executive budgeting.

The Kentucky Council of Postsecondary Education contracted with Paulien & Associates for a study of higher education space standards for 39 campuses and a nationwide peer survey of all 50 state systems' space and utilization standards. The study involved all sectors of higher education from the University of Kentucky and the University of Louisville through the state universities and including the community colleges and the technical colleges which had just recently been added to the Council on Postsecondary Education responsibilities. This project resulted in a space utilization model that the Kentucky Council of Postsecondary Education can use to determine space needs.

Paulien & Associates developed a district-wide space and utilization standards for the Pima Community College District in Tucson, Arizona. All of the comprehensive campuses in the Pima Community College District were analyzed and a district-wide set of space and utilization standards was developed for eleven categories of space including classrooms, laboratories, offices, library, and student centers.

The Minnesota State Colleges and Universities (MnSCU) contracted with Paulien & Associates to perform a space utilization study of all of the system's 36 institutions, which are comprised of 53 campuses and include state universities, community colleges, and technical colleges. The study had three components: to inventory the academic space on all of the campuses by function, size, and capacity; to analyze existing academic space utilization data and produce findings for the entire system as well as findings for each institution; and to develop system-wide protocols for the space inventories, data collection and analysis, and space utilization standards.

Paulien & Associates has provided space analysis for all four campuses in the Connecticut State University System. For the Wyoming Community College Commission, the firm created a model to help the Commission rank and score capital projects at each of the institutions.

Recently the City University of New York has hired Paulien & Associates to review and update their space standards that have been in place since 1972. CUNY is comprised of 24 colleges in the five boroughs of New York City.

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Executive Summary

Higher Education Space Standards Study for the Utah System of Higher Education

*Prepared by
Paulien & Associates, Inc.*

December 2011

EXECUTIVE SUMMARY

The Utah System of Higher Education desired system-wide space information about the physical facilities used by all the public institutions of higher education in the State of Utah. A Space Standards Study for the institutions in Utah was initiated to provide the Utah System of Higher Education (USHE) with objective space information and guidelines to be used for decision making in operating and capital budgeting. Paulien & Associates, Inc. of Denver, Colorado, was contracted to provide the study.

USHE initiated this study to provide a review of space data definitions, an up-to-date and audited inventory of space, an examination of space standards currently used in determining space needs, information about the current mix of space compared with projected needs, and comparisons of space standards of systems of higher education in other states. This study is intended to provide a space model which can be used to evaluate current space and to analyze space needs for future growth.

It is important to point out that the analysis included in this study is a quantitative analysis only. It addresses only the amount of space in the existing inventories of the institutions and the potential space requirements based solely on enrollment estimates and related staffing increases. Existing space is counted regardless of its physical condition, functional viability, and programmatic relevance. The additional needs to review physical condition, functional viability, and programmatic relevance were consistently brought to the attention of the consultant on site visits and other discussions with the Office of the Commissioner of Higher Education (OCHE) and USHE institutional staff members during the course of the study. While consideration of these additional needs was beyond the scope of this study, they clearly

must be taken into account in any evaluation that involves prioritization of future space needs.

The space model developed for this study is intended to be a macro level estimate of space needs providing insight into the adequacy of space at the institution level. The space model developed here is not intended to create design standards, but to make a reasonably calculated estimate of space needs. It is to be used to illustrate the overall need for physical resources at institutions, not to design specific buildings.

While USHE has current standards and guidelines it is utilizing, the System has identified areas that need more updated analysis and review. The development of updated space guidelines for USHE was intended to focus on seven areas:

1. The scope of work outlined for the study included a review of the utilization and the space at each institution. The consultant gathered the facilities inventory data for all of the institutions. The facilities data for all the institutions was then compiled into one database for comparison. The facilities data was reviewed with campus representatives during visits to each of the campuses. The consultant made overall comparisons of the average square feet per student for eleven categories of space. As part of the previous study in which Paulien & Associates developed Higher Education Space Standards for the State of Utah in 1996, the consultant reviewed utilization of instructional space. In this study, since the institutions decided that gathering the course data from all of the institutions was time consuming and would delay the overall study, a utilization analysis was not performed to illustrate the weekly use or time of day use of instructional spaces.
2. The consultant was provided with demographic information on the current enrollment and with future enrollment estimates for each of the institutions. The future enrollment estimates provided to the consultant were developed by the USHE institutions and OCHE Institutional Research staff. They have been approved by OCHE for use in this analysis and communicated to the Regents for their information. Because the future enrollments cannot be estimated with certainty, the future year space needs were calculated to show a range of findings using a low and a high enrollment estimate. The low and high estimates of space needs were calculated using 10% below and 10% above the estimated future student FTE. The consultant was also provided with

faculty and staff numbers for each of the institutions. This demographic information was used to calculate the average square feet per student or average square feet per faculty and staff of existing space. Estimated future space was calculated by adding space that is in the "pipeline" in planning stages or under construction to the existing space. This allowed the consultant to apply the future demographic and space estimates to analyze the anticipated future square feet per student or staff and compare the current and future space needs for each of the institutions.

3. The consultant analyzed the facilities mix at each institution. Using the facilities data, the consultant created tables and charts to illustrate the amount of classroom, laboratory, office, library, physical education, special use, general use, and support space at each institution so that the relative mix of the types of space on the campuses can be evaluated.
4. The enrollment and facilities data provided was reviewed and compared and used to develop a space needs model. The model was based not only on the USHE data collected but also on the consultant's experience in developing space models for other state and regional systems, including the Minnesota State Colleges and Universities and the Kentucky Council of Postsecondary Education. This research on previous studies provided background on utilization targets and space guidelines for use in analyzing and comparing the mix of space on the Utah campuses and developing a space model for USHE.
5. The opportunities that may be available for alternative educational delivery systems including branch and satellite campuses, utilization of technology, and distance education delivery methods to achieve more efficient use of facilities were reviewed. The branch and satellite campuses vary greatly from single delivery sites in outlying communities to campuses that are evolving into comprehensive campuses. The uniqueness of each of the delivery sites and branch campuses creates challenges in generalizing about the opportunities available. Each delivery site or branch campus has its own unique opportunities. The use of technology to deliver courses is an important aspect of future opportunities and the use of space on the campuses. Students enrolled in distance learning programs vary from students who live on campus and opt to take a course on-line to students who live away from campus and take all courses that comprise their

academic programs remotely. As with the uniqueness of branch and satellite campuses, the opportunities that exist for the use of technology are unique for each type of delivery.

6. The impact that the type of delivery has on the space needs per student at the various institutions was reviewed. The impact distance education and on-line programs have on the need for space on campuses is a challenging and complex issue. Some remote students do not attend classes on the campuses and as a result the institutions do not need to provide classrooms, residence halls, or parking spaces for these students. On the other hand, it is still necessary for the campuses to provide faculty to teach the courses and academic support personnel, including admissions, financial aid, student accounts, information technology, and advising staff. Office and office service space, technology, libraries, and parking will be needed on campus for the faculty and academic support personnel. Some on-line students are essentially campus-based and are taking only an occasional on-line course. These students require a full range of campus facilities and services. In order to assess in detail the impact that the type of delivery has on the space needs per student it is necessary to identify those students who take courses on campus and require associated facilities and those who will not be on campus and do not require campus facilities, although they will require academic support services and access to the support personnel who provide those services.
7. The final area addressed in this study was to provide recommended alternative approaches to maximize the use of existing space while maintaining a quality educational system. The development of space guidelines is intended to provide USHE with a model for space assessment that can be used to determine comparative space needs for the institutions within the state. Because the USHE space guidelines developed here will be used for decision making for capital development projects, it is desirable to recommend an approach that is fairly aggregated, is not complex, and takes into account the real and important differences in the types of institutions for the amount of space that is needed to conduct the activities on the campuses. The recommended space model provides differentiation by type or mission of the institution. The guidelines separate Community Colleges, Baccalaureate/Masters Degree granting institutions, and Research Universities. The guidelines were also developed to

provide differentiation for the size of the campus, to reflect the economy of scale that can be achieved on a campus with greater enrollment.

Key Findings and Outcomes

Documentation of Existing and Projected Space

During the project, and at meetings held on the campuses, the facilities data was reviewed. Data was clarified and, in some instances updated or corrected, resulting in more accurate and facilities data for use by USHE and the campuses. The review of the space and facilities data with the institutions' representatives allowed the campus participants to increase their understanding of the space coding system and to update facilities inventories in a more consistent manner.

Space used for this analysis excluded the medical school at the University of Utah, some of the space in the Sevier Valley Center in Richfield, most of the space in the Adams Memorial Theatre and Randall L. Jones Theatre at Southern Utah University, auxiliary space, hospitals, farms, public daycare centers, student health clinics, airport hangers, and leased out space.

The consultant used the data and information provided to document existing space by institution, to summarize assignable square feet per full-time equivalent student (ASF/FTE), and to compare existing ASF/FTE at the various institutions with normative expectations based on the consultant's prior experience developing space guidelines in Utah, Minnesota, and Kentucky.

To apply and verify the developed guidelines to future projections the space that is in the "pipeline", that will change the inventory which includes: (a) space under construction; (b) space in the planning stage for which funding has been approved; (c) major renovations that will change the use of existing space; (d) known purchases or acquisitions of facilities; and (e) planned disposal of owned and leased facilities, was added to the existing space to estimate the space that will exist in the future.

It should be noted that the analysis is a quantitative analysis only. No analysis was done on the utilization of space or of programmatic needs. No analysis was done of functionality or quality of space. Existing space is included and counted regardless of its quality or condition.

The consultant summarized the space analyzed by institution and by type of space and calculated the ASF/FTE for each institution.

UTAH SYSTEM OF HIGHER EDUCATION

	2010		
	Fall 2010 Student FTE	Existing ASF/ FTE	Existing ASF
SYSTEM TOTAL			
Institution			
Dixie State College	6,267	65	404,854
Salt Lake Community College	18,326	70	1,278,389
Snow College	3,415	131	447,451
Southern Utah University	6,609	95	624,879
University of Utah	25,879	128	3,311,839
Utah State University	18,689	132	2,474,229
Utah State University - CEU	1,772	162	287,771
Utah Valley University	21,825	56	1,226,774
Weber State University	15,555	75	1,168,055
TOTAL	118,337	95	11,224,241

ASF = Assignable Square Feet

The ASF per student FTE was also summarized by type of space. The classroom comparison is below. Similar tables that were developed for other categories of space can be found in Section 5.

UTAH SYSTEM OF HIGHER EDUCATION

	2010		
	Fall 2010 Student FTE	Existing ASF/ FTE	Existing ASF
Classroom Space			
Institution			
Dixie State College	6,267	11	67,332
Salt Lake Community College	18,326	12	212,052
Snow College	3,415	13	45,423
Southern Utah University	6,609	11	70,873
University of Utah	25,879	9	220,708
Utah State University	18,689	11	207,897
Utah State University - CEU	1,772	28	49,049
Utah Valley University	21,825	6	140,117
Weber State University	15,555	11	174,253
TOTAL	118,337	10	1,187,704

ASF = Assignable Square Feet

For research and office space categories the ASF was not calculated per student. For research space the ASF/FTE was

calculated using full-time equivalent faculty rather than FTE students. It was only applied to the two research universities and Weber State University, as these are the only three institutions with existing research space. For office and office service spaces the FTE used was full-time equivalent faculty and staff. The office and office service space comparison is below.

UTAH SYSTEM OF HIGHER EDUCATION

Office & Service Space	2010		
	Fall 2010 Faculty and Staff FTE	Existing ASF/ FTE	Existing ASF
Institution			
Dixie State College	409	223	91,334
Salt Lake Community College	1,743	142	247,453
Snow College	256	286	73,334
Southern Utah University	825	151	124,220
University of Utah	5,219	216	1,128,241
Utah State University	3,597	191	688,599
Utah State University - CEU	238	205	48,746
Utah Valley University	2,056	152	312,629
Weber State University	1,624	169	274,176
TOTAL	15,967	187	2,988,732

ASF = Assignable Square Feet

Development of Space Needs Model

Since the USHE space guidelines will be used in prioritization of capital development projects, it is desirable to recommend an approach that is fairly aggregated and does not have a great deal of complexity, yet takes into account that there are real differences by type of institution in terms of amounts of space that are needed to conduct the activities of the programs.

The facilities inventory files from the institutions allowed the calculation of ASF/FTE by type of space for all of the institutions. The space guidelines recommended are based on assignable square feet per full-time equivalent student (ASF/FTE) for most types of space. For the research space guidelines full-time equivalent faculty was used. For office and office service space guidelines full-time equivalent faculty and staff were used.

Once the ASF/FTE was calculated, the consultant reviewed the information and compared the findings to normative expectations, using data from previous state studies and benchmark studies the consultant has performed. The consultant reviewed data available from the studies in which the consultant created an inventory of the academic space on all of the campuses in the Minnesota State

Colleges and Universities and the Kentucky Council of Postsecondary Education campuses and reviewed the ASF/FTE calculations for type of space and type of institution, including universities, community colleges, and technical colleges.

The space guidelines were refined to provide differentiation by type or mission of the institution. In the consultant's experience, a differentiation is seen in space needed for different categories of space depending on the type or mission of the institution. For this reason, the guidelines separate Community Colleges, Baccalaureate/Masters Degree granting institutions, and Research Universities. This provides some differences by type of institution providing additional laboratory space for those institutions with extensive vocational/technical instruction, providing research laboratories for the research intensive universities, and differentiating office space and library space by type of institution. This also provides some flexibility as institutions and campuses change their mission or focus over time, and it may be most appropriate, for example, to use the Community College guideline for laboratories, but the Baccalaureate/Masters guideline for the library at a campus in transition from a two-year focus college to a four-year institution.

In addition, the guidelines were developed to provide differentiation for the size of the campus, to reflect the economy of scale that can be achieved on a campus with greater enrollment.

**Utah System of Higher Education
Institution Mission and Size**

Main Campus	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Community College	USU-CEU	Snow	Snow	SLCC
Baccalaureate/Masters		USU-CEU	Dixie SUU	Dixie UVU Weber
Research University				U of U USU

Orange indicates future year

**Utah System of Higher Education
Space Planning Guidelines**

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Classrooms and Service Community College Baccalaureate/Masters Research University	applied to Non Dist Ed FTE 13 ASF/FTE student 12 ASF/FTE student 11 ASF/FTE student	applied to Non Dist Ed FTE 13 ASF/FTE student 12 ASF/FTE student 11 ASF/FTE student	applied to Non Dist Ed FTE 12 ASF/FTE student 11 ASF/FTE student 10 ASF/FTE student	applied to Non Dist Ed FTE 12 ASF/FTE student 11 ASF/FTE student 10 ASF/FTE student
Teaching Laboratories and Service General Academic Instruction Community College Baccalaureate/Masters Research University	applied to Non Dist Ed FTE 16 ASF/FTE student 15 ASF/FTE student 14 ASF/FTE student	applied to Non Dist Ed FTE 16 ASF/FTE student 15 ASF/FTE student 13 ASF/FTE student	applied to Non Dist Ed FTE 15 ASF/FTE student 13 ASF/FTE student 12 ASF/FTE student	applied to Non Dist Ed FTE 15 ASF/FTE student 12 ASF/FTE student 11 ASF/FTE student
Teaching Laboratories and Service Auto/Construct Trades Instruction Community College Baccalaureate/Masters	applied to Non Dist Ed FTE 6 ASF/FTE student 5 ASF/FTE student	applied to Non Dist Ed FTE 6 ASF/FTE student 5 ASF/FTE student	applied to Non Dist Ed FTE 5 ASF/FTE student 4 ASF/FTE student	applied to Non Dist Ed FTE 5 ASF/FTE student 4 ASF/FTE student
Open Laboratories and Service Community College Baccalaureate/Masters Research University	8 ASF/FTE student 8 ASF/FTE student 8 ASF/FTE student	7 ASF/FTE student 7 ASF/FTE student 8 ASF/FTE student	6 ASF/FTE student 6 ASF/FTE student 8 ASF/FTE student	5 ASF/FTE student 5 ASF/FTE student 8 ASF/FTE student
Research Laboratories and Service Baccalaureate/Masters Research University	35 ASF/FTE faculty 475 ASF/FTE faculty	35 ASF/FTE faculty 475 ASF/FTE faculty	35 ASF/FTE faculty 475 ASF/FTE faculty	35 ASF/FTE faculty 475 ASF/FTE faculty
Office and Office Service Community College Baccalaureate/Masters Research University	150 ASF/FTE employee 170 ASF/FTE employee 195 ASF/FTE employee	150 ASF/FTE employee 170 ASF/FTE employee 195 ASF/FTE employee	150 ASF/FTE employee 170 ASF/FTE employee 195 ASF/FTE employee	150 ASF/FTE employee 170 ASF/FTE employee 195 ASF/FTE employee
Libraries Community College Baccalaureate/Masters Research University	15,000 ASF minimum 7 ASF/FTE student 9 ASF/FTE student 14 ASF/FTE student	6 ASF/FTE student 9 ASF/FTE student 14 ASF/FTE student	5 ASF/FTE student 7 ASF/FTE student 14 ASF/FTE student	4 ASF/FTE student 7 ASF/FTE student 12 ASF/FTE student
Special Use Space Community College Baccalaureate/Masters Research University	3 ASF/FTE student 3 ASF/FTE student 3 ASF/FTE student	3 ASF/FTE student 3 ASF/FTE student 3 ASF/FTE student	3 ASF/FTE student 3 ASF/FTE student 3 ASF/FTE student	3 ASF/FTE student 3 ASF/FTE student 3 ASF/FTE student
Physical Education Community College Baccalaureate/Masters Research University	35,000 ASF minimum 35,000 ASF minimum 35,000 ASF minimum	35,000 ASF minimum 35,000 ASF minimum 35,000 ASF minimum	35,000 ASF minimum 4 ASF/FTE student 4 ASF/FTE student 4 ASF/FTE student	3 ASF/FTE student 3 ASF/FTE student 3 ASF/FTE student
General Use Space Community College Baccalaureate/Masters Research University	15 ASF/FTE student 15 ASF/FTE student 15 ASF/FTE student	13 ASF/FTE student 13 ASF/FTE student 13 ASF/FTE student	11 ASF/FTE student 11 ASF/FTE student 11 ASF/FTE student	10 ASF/FTE student 10 ASF/FTE student 10 ASF/FTE student
Support Space Community College Baccalaureate/Masters Research University Land Grant Mission Addition	4 ASF/FTE student 6 ASF/FTE student 8 ASF/FTE student +6 ASF/FTE student	4 ASF/FTE student 6 ASF/FTE student 8 ASF/FTE student +6 ASF/FTE student	4 ASF/FTE student 6 ASF/FTE student 8 ASF/FTE student +6 ASF/FTE student	4 ASF/FTE student 6 ASF/FTE student 8 ASF/FTE student +6 ASF/FTE student

ASF- Assignable square feet

FTE- Full-time equivalent

Application of Space Needs Model

Once the consultant developed an initial space model, the guidelines were applied to each type of space for each of the institutions. The details showing the application of guidelines for each institution are shown in Section 6.

Findings show a third of the campuses needing space at the current time and most needing additional space in the future. It should be noted that the space guidelines developed here are a model to be used for the calculation of objective space needs and as a means to help USHE to prioritize the planning of capital projects. The calculations resulting from the model are not a substitute for campus master planning and program planning nor are they an entitlement for the individual institutions.

**UTAH SYSTEM OF HIGHER EDUCATION
Space Needs Analysis**

SYSTEM TOTAL	Fall 2010 Student FTE	Existing ASF/ FTE	Existing ASF	2010		ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
				ASF/FTE from Guideline	Guideline ASF		
Institution							
Dixie State College	6,267	65	404,854	71	445,204	(40,350)	(10%)
Salt Lake Community College	18,326	70	1,278,389	71	1,303,100	(24,711)	(2%)
Snow College	3,415	131	447,451	88	300,839	146,612	33%
Southern Utah University	6,609	95	624,879	81	532,929	91,950	15%
University of Utah	25,879	128	3,311,839	124	3,210,898	100,941	3%
Utah State University	18,689	132	2,474,229	129	2,416,866	57,363	2%
Utah State University - CEU	1,772	162	287,771	108	190,957	96,814	34%
Utah Valley University	21,825	56	1,226,774	71	1,549,895	(323,121)	(26%)
Weber State University	15,555	75	1,168,055	75	1,160,946	7,109	1%
TOTAL	118,337	95	11,224,241	94	11,111,634	112,607	1%

ASF = Assignable Square Feet

Because the future enrollments can't be estimated with certainty, the future year space needs were calculated to show a range of findings. Two calculations showing a low estimate and a high estimate of space needs were made. The two calculations are shown in the tables below.

UTAH SYSTEM OF HIGHER EDUCATION

Space Needs Analysis LOW Range Enrollment Estimate

	2020						
	LOW Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	ASF/FTE from Guideline	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
SYSTEM TOTAL							
Institution							
Dixie State College	9,800	54	530,416	63	620,211	(89,795)	(17%)
Salt Lake Community College	21,700	60	1,307,701	70	1,510,595	(202,894)	(16%)
Snow College	5,600	87	489,926	74	415,075	74,851	15%
Southern Utah University	8,000	83	660,213	78	621,396	38,817	6%
University of Utah	26,200	135	3,527,394	123	3,229,306	298,088	8%
Utah State University	18,400	139	2,552,291	129	2,375,668	176,623	7%
Utah State University - CEU	2,900	99	287,771	96	277,431	10,340	4%
Utah Valley University	31,400	43	1,358,261	67	2,116,024	(757,763)	(56%)
Weber State University	20,100	63	1,259,276	72	1,450,473	(191,197)	(15%)
TOTAL	144,100	83	11,973,249	88	12,616,179	(642,930)	(5%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Space Needs Analysis HIGH Range Enrollment Estimate

	2020						
	HIGH Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	ASF/FTE from Guideline	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
SYSTEM TOTAL							
Institution							
Dixie State College	12,000	44	530,416	63	754,729	(224,313)	(42%)
Salt Lake Community College	26,600	49	1,307,701	69	1,828,970	(521,269)	(40%)
Snow College	6,900	71	489,926	73	500,922	(10,996)	(2%)
Southern Utah University	9,800	67	660,213	76	742,032	(81,819)	(12%)
University of Utah	32,000	110	3,527,394	121	3,856,495	(329,101)	(9%)
Utah State University	22,500	113	2,552,291	127	2,848,781	(296,490)	(12%)
Utah State University - CEU	3,500	82	287,771	93	324,916	(37,145)	(13%)
Utah Valley University	38,400	35	1,358,261	67	2,558,625	(1,200,364)	(88%)
Weber State University	24,500	51	1,259,276	71	1,746,424	(487,148)	(39%)
TOTAL	176,200	68	11,973,249	86	15,161,893	(3,188,644)	(27%)

ASF = Assignable Square Feet



Process & Planning Assumptions

SECTION 1 PROCESS AND PLANNING ASSUMPTIONS

Process

In order to undertake the update of space guidelines, Paulien & Associates requested data on enrollment, faculty, staffing, and room-by-room data on facilities. The consultant was provided with full-time equivalent (FTE) enrollment numbers from the third week of the Fall 2010 term, Fall 2010 facilities data, and the USHE full-time equivalent (FTE) staffing count.

Paulien & Associates met with the project Steering Committee in November 2010 to initiate the study. In March 2011, the consultant met with the Steering Committee to review project work to that date and also met with the project Working Committee to prepare for the site visit phase of the study. Site visits to all of the institutions were made in April and May 2011. During the site visits the consultant met with campus and project leaders to discuss capital planning issues, review facilities data, and tour the campuses. An additional trip in October 2011 to the USHE offices was made to review the draft findings.

To facilitate the site visits the consultant prepared spreadsheets summarizing the space for each institution by campus and by space type.

Using the information gathered during the site visits and meetings on the campuses, the data provided, and knowledge of higher education standards nationwide, the consultant reviewed the existing guidelines and identified updated space guidelines for USHE.

Planning Assumptions

Institution Mission

The Utah System of Higher Education Capital Development Prioritization classifies the institutions within the state as Research University, Baccalaureate/Masters Degree Granting institution, or Community College. For purposes of this analysis the consultant has utilized these classifications.

The institutions in the State of Utah are very dynamic. Utah State University is growing its branch campuses. Weber State University maintains its Community College mission while growing its Baccalaureate mission. Dixie State College is evolving from a college to a university. Utah Valley University is adding programs at the university level to its community college offerings. In

addition, many institutions are expanding distance education and hybrid distance education/face-to-face offerings.

For this analysis, the two Research Universities in the state are the University of Utah and Utah State University. Southern Utah University is a Baccalaureate/Masters Degree granting institution. Weber State University and Utah Valley University are both Baccalaureate/Masters Degree granting institutions, although both retain strong Associate Degree programs. Dixie State College, like Weber State University and Utah Valley University, is a Baccalaureate/Masters Degree granting institution. It differs from Weber State University and Utah Valley University in that it remains a dominantly Associate Degree granting institution. For this analysis Dixie State College has been classified as a Community College.

Snow College and Salt Lake Community College are classified as Community Colleges. For purposes of this analysis Utah State University College of Eastern Utah has been classified separately from Utah State University and classified as a Community College although its affiliation with Utah State University provides USU courses on the CEU campus and CEU has become an institution that offers Baccalaureate offerings. For the application of the space guidelines at the future year CEU is classified as a Baccalaureate/Masters Degree granting institution.

**Utah System of Higher Education
Institution Mission and Size**

Main Campus	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Community College	USU-CEU	Snow	Snow	SLCC
Baccalaureate/Masters		USU-CEU	Dixie SUU	Dixie UVU Weber
Research University				U of U USU

Orange indicates future year

The designation of Research University, Baccalaureate/Masters Degree Granting institution, or Community College has been used in the development of space guidelines that take into consideration the mission of each of the institutions. While the categorization of the institutional mission is helpful, it also allows some flexibility or interpretation of the guidelines to meet the needs of the various institutions as they change their mission or focus over time, allowing a campus in transition from a two-year focus to a four-year focus to use the Community College guideline

for one type of space while using the Baccalaureate/Masters guideline for another type of space.

Enrollment Assumptions

The consultant was provided with a spreadsheet summarizing full-time equivalent (FTE) enrollment at each institution. The spreadsheet identified the FTE enrollment for main campuses, branch campuses, and other sites. The spreadsheet also identified the enrollment as Face-to-Face, Correspondence or electronic copy, Broadcast, Interactive Audio/Video, Technology-Enhanced, Electronic Media, or On-line. Using the data provided, the consultant calculated the percentage of FTE that is offered in these distance education formats.

The consultant was provided with estimated future enrollment on an institution level. The future enrollment estimates provided to the consultant were developed by the USHE institutions and OCHE Institutional Research staff. They have been approved by OCHE for use in this analysis and communicated to the Regents for their information. Because the future enrollments cannot be estimated with certainty, the future year space needs were calculated to show a range of findings using a low and a high enrollment estimate. The low and high estimates of space needs were calculated using 10% below and 10% above the estimated future student FTE.

Faculty and Staffing Assumptions

The consultant was provided with full-time equivalent faculty and staff numbers for the institutions. To calculate future year faculty and staff levels, these numbers were increased at a rate that corresponds to the estimated enrollment increase for each institution. Faculty increases were calculated at the same rate as enrollment growth. Staff increases were calculated at half of the enrollment growth rate.

Space Assumptions

Detailed room-by-room facilities inventories from each institution were sent to the consultant.

Spaces excluded for this analysis were the medical school at the University of Utah, auxiliary space, hospitals, farms, public daycare centers, student health clinics, airport hangers, and leased out space. The spaces with room use codes of 500 or above in the Sevier Valley Center were also excluded, as were the spaces coded 600 and above in the Randall L. Jones Theatre and

the Adams Memorial Theatre. The spaces to be excluded were Element R-07 field values B, C, G, M, N, O, and Z. Only the spaces identified by the field values A, D, E, F, H, I, J, K, and L in the USHE Data Element Dictionary Space Utilization Room Grouping Codes Element R-07 were included.

The *Postsecondary Education Facilities Inventory and Classification Manual (FICM): 2006 Edition* space categories 100-700 space use codes were included in the development of space guidelines for this analysis. Spaces coded 800-900 were excluded.

The space use code categories are briefly defined as:

Space Use Categories
100 Classroom Facilities
200 Laboratory Facilities
210 Class/Teaching Laboratory
220 Open Laboratory
250 Research Laboratory
300 Office and Office Service Facilities
400 Study Facilities
500 Special Use Facilities
600 General Use Facilities
700 Support Facilities
800 Health Care Facilities
900 Residential Facilities

All space in this analysis is shown in assignable square footage (ASF) which is defined as the usable space contained within classrooms, laboratories, offices, etc. It does not include circulation and building service space, nor does it include the thickness of walls or structural components like building columns.

It should be noted that the analysis is a quantitative analysis only. No analysis was done of functionality or quality of space. Existing space is included and counted regardless of its quality.

It should also be noted that this analysis was performed without any data from a utilization study. It is recommended that a utilization study be performed, as the utilization would document the use of existing classrooms and teaching laboratories. This documented use would help define the space requirements for instructional space as well as identify underutilized spaces.

For application of space guidelines at the future year, the space in the planning and construction “pipeline” was added to the current existing square footage to estimate the space that will exist on the campuses in the future.

Pipeline space, which includes construction, renovation, and demolition that was added to, adjusted, or removed from the existing space to estimate the future space includes:

University of Utah

- David Eccles School of Business
- Sorenson Arts and Education
- L.S. Skaggs Pharmacy Expansion
- Thatcher Chemistry

Utah State University

- Business Building Addition/Remodel
- College of Agriculture Classroom Replacement Building
- UBC Community Education Building

Weber State University

- Acquisition of Existing Building adjacent to Davis Campus
- Training & Learning Center
- Davis Campus Building 3
- Stansbury Hall demolition
- Wasatch Hall demolition
- Residential Life Building 1
- Residential Life Building 2
- Residential Life Building 3
- FM Storage Building

Utah Valley University

- Sciences/Health Science Building Addition
- Business Resource Center
- Health Professions Building

Southern Utah University

- Science Center Addition
- Bulloch Building
- ADB Bank Building

Dixie State College

- Jeffrey R. Holland Centennial Commons
- North Plaza Building
- Larkin Property

Salt Lake Community College

- Center for New Media
- Instructional and Administrative Complex

Snow College

- Lucy Phillips Library Remodel
- Karen Huntsman Library



Existing Space

SECTION 2 EXISTING SPACE

The facility inventory files from the institutions provided the base information by space type. The existing space in the facilities inventories for all of the institutions was summarized.

For this analysis only the spaces in the USHE Data Element Dictionary Space Utilization Room Grouping Codes Element R-07 identified by the field values A, D, E, F, H, I, J, K, and L were included.

Space used for this analysis excluded the medical school at the University of Utah, some of the space in the Sevier Valley Center in Richfield, space in the Randall L. Jones Theatre and the Adams Memorial Theatre, auxiliary space, hospitals, farms, public daycare centers, student health clinics, airport hangers, and leased out space. The spaces to be excluded were identified using the USHE Data Element Dictionary Space Utilization Room Grouping Codes Element R-07. The excluded spaces were identified as Element R-07 field values B, C, G, M, N, O, and Z.

The campus visits and meetings with campus representatives helped the project participants at the institutions clarify their understanding of the categorization of space and to simplify their facilities inventories.

The suggestion was made that the working group develop a listserve so the people on campus responsible for maintaining facilities data can communicate regularly to increase the accuracy and consistency of the data across the USHE.

For the two research universities the space that is included in this analysis is less than half of the space on campus. For the University of Utah, the analyzed space is only 38% of the institution's space. For Utah State University, the analyzed space is 50% of the institution's space. The space included in this analysis for the other institutions ranges from 57% to 89% of the institutions' space.

For review of space guidelines at the future year, the existing space on the campuses was increased to include space in the "pipeline".

The space analyzed for each institution was summarized by type of space. Detailed information on the space by campus, including both analyzed space and excluded space can be found in the Appendices.

It should again be noted that the space data included in the development of the space model and comparing applied space guidelines to existing space does not take into consideration quality or educational adequacy of space. For example, the consultant saw music rooms and student lounges created from old welding labs. These music rooms are categorized in the same manner as a music room that is acoustically designed and constructed for music. It is recommended that a means of understanding and documenting quality or functional adequacy of existing space be included in the prioritization of capital projects, as quantity of space alone does not tell the whole story.

It should also be noted that existing spaces on the campuses includes leased space. This can be misleading if the space has been leased because of a shortage of built space on campus. Including the leased space in the existing space category may mask an actual deficit of space. It is recommended that leased space be clearly identified in the institutional space inventories for future analysis.

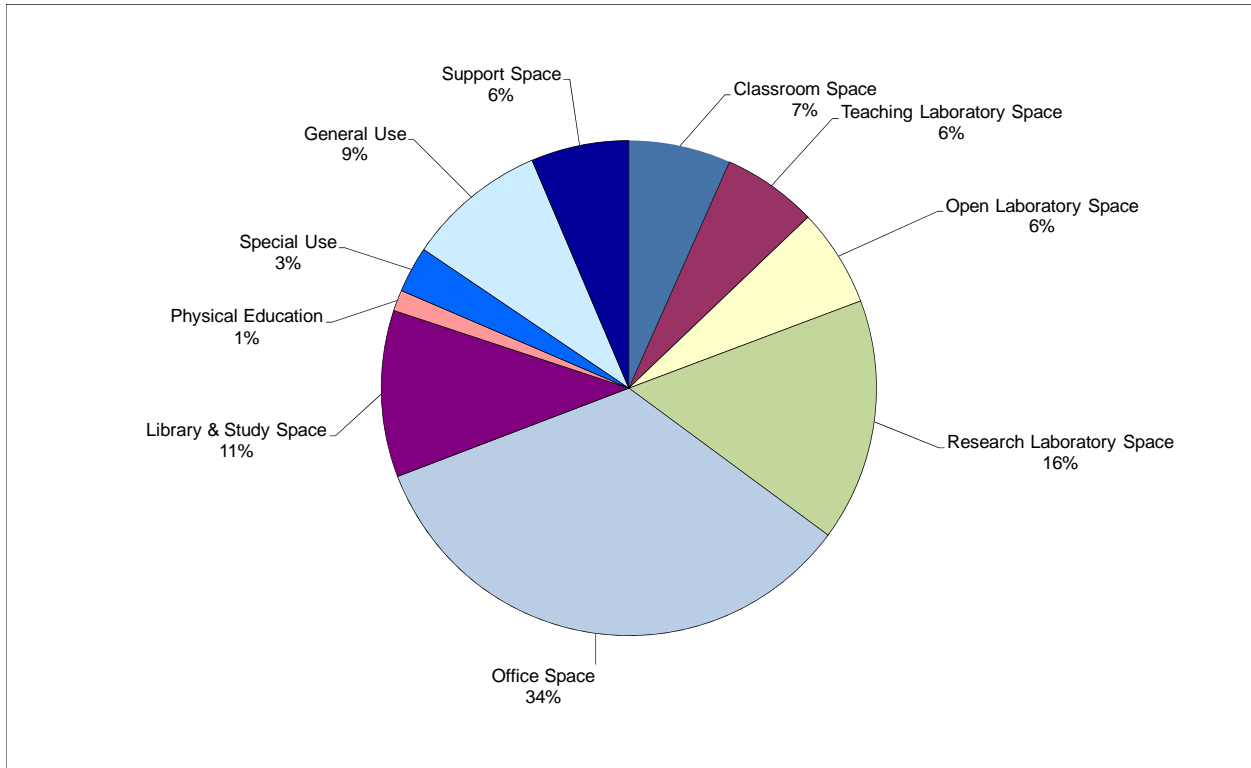
The following tables and pie charts summarize existing space analyzed on the campuses. Each campus pie chart reflects the percentage of space on campus by space category.

UNIVERSITY OF UTAH 2010

Space Category	Total Existing ASF	Percent of Total ASF
Classroom Space	220,708	7%
Teaching Laboratory Space	205,407	6%
Open Laboratory Space	212,079	6%
Research Laboratory Space	524,923	16%
Office Space	1,128,241	34%
Library & Study Space	360,703	11%
Physical Education	45,454	1%
Special Use	99,814	3%
General Use	302,976	9%
Support Space	211,534	6%
TOTAL	3,311,839	100%

ASF = Assignable Square Feet

Percent of Total

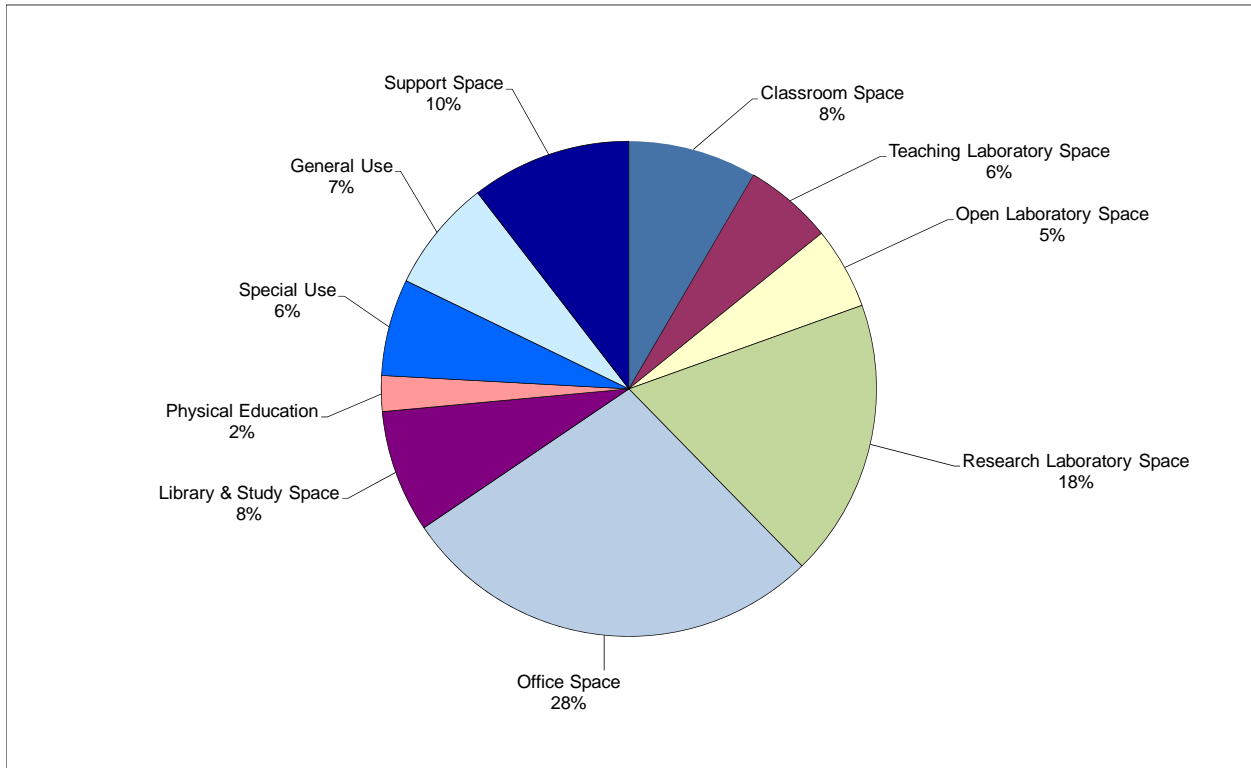


UTAH STATE UNIVERSITY 2010

Space Category	Total Existing ASF	Percent of Total ASF
Classroom Space	207,897	8%
Teaching Laboratory Space	143,148	6%
Open Laboratory Space	131,996	5%
Research Laboratory Space	449,378	18%
Office Space	688,599	28%
Library & Study Space	198,239	8%
Physical Education	57,698	2%
Special Use	156,811	6%
General Use	181,670	7%
Support Space	258,793	10%
TOTAL	2,474,229	100%

ASF = Assignable Square Feet

Percent of Total

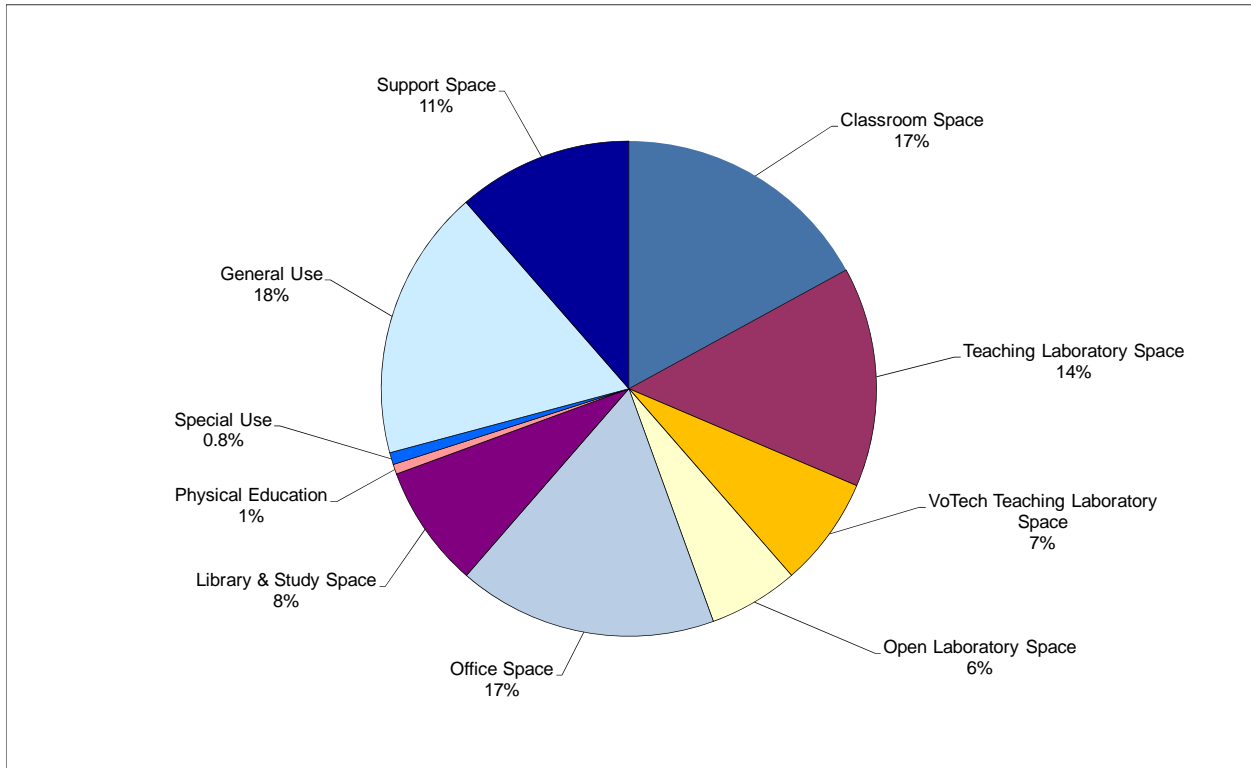


**UTAH STATE UNIVERSITY
COLLEGE OF EASTERN UTAH 2010**

Space Category	Total Existing ASF	Percent of Total ASF
Classroom Space	49,049	17%
Teaching Laboratory Space	41,331	14%
VoTech Teaching Laboratory Space	20,693	7%
Open Laboratory Space	16,858	6%
Office Space	48,746	17%
Library & Study Space	23,031	8%
Physical Education	1,855	1%
Special Use	2,270	0.8%
General Use	51,066	18%
Support Space	32,872	11%
TOTAL	287,771	100%

ASF = Assignable Square Feet

Percent of Total

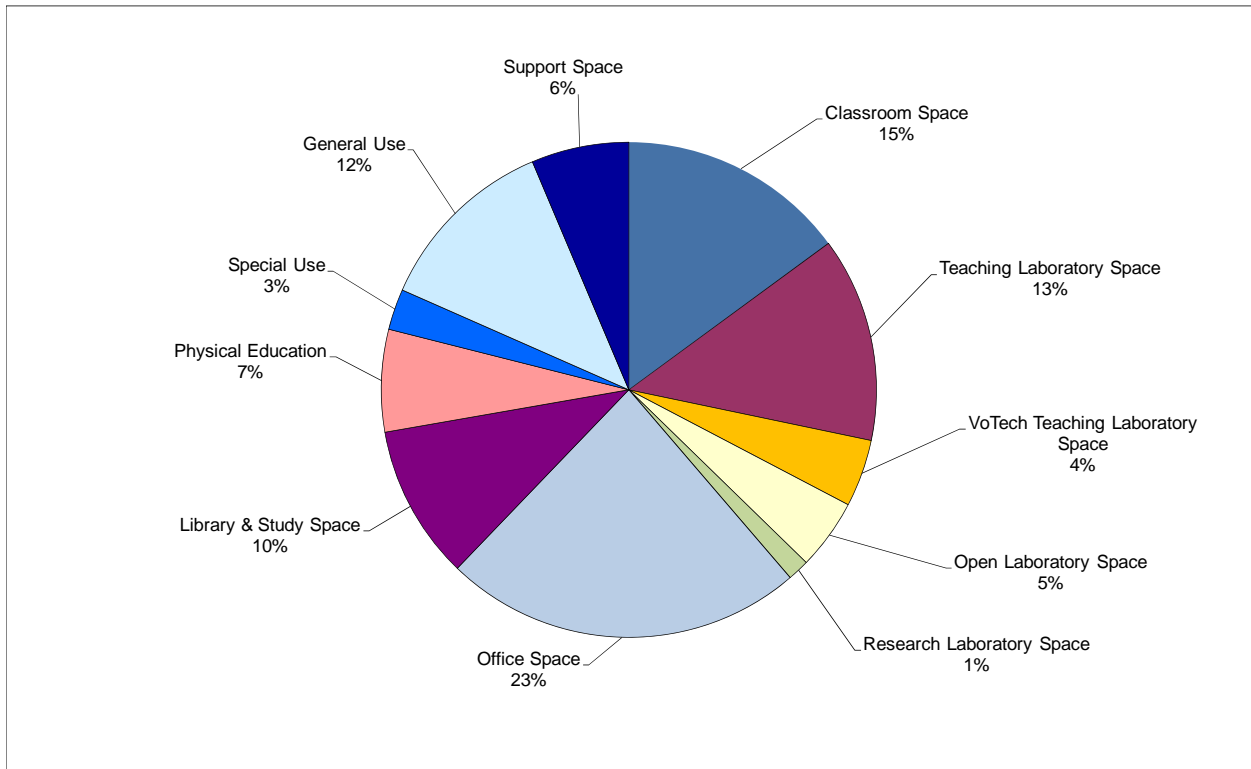


WEBER STATE UNIVERSITY 2010

Space Category	Total Existing ASF	Percent of Total ASF
Classroom Space	174,253	15%
Teaching Laboratory Space	156,157	13%
VoTech Teaching Laboratory Space	51,386	4%
Open Laboratory Space	53,755	5%
Research Laboratory Space	16,594	1%
Office Space	274,176	23%
Library & Study Space	117,696	10%
Physical Education	77,942	7%
Special Use	31,216	3%
General Use	140,481	12%
Support Space	74,399	6%
TOTAL	1,168,055	100%

ASF = Assignable Square Feet

Percent of Total

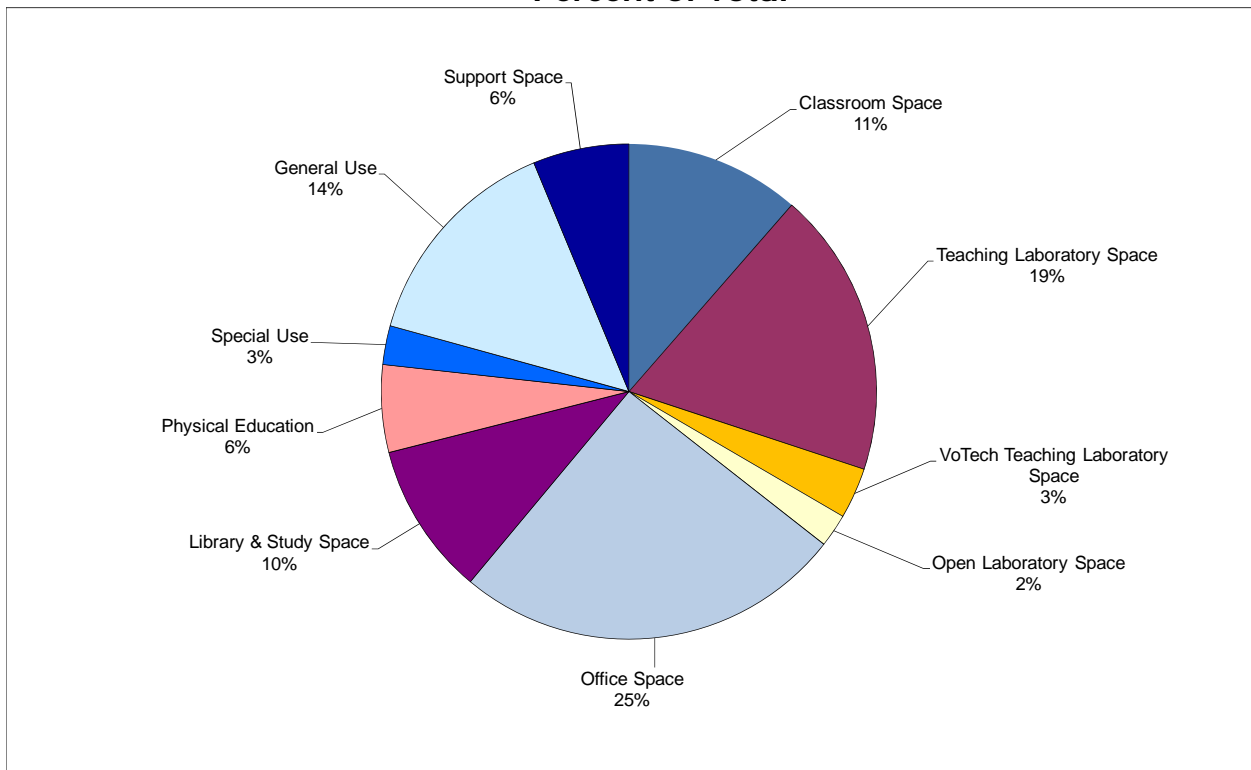


UTAH VALLEY UNIVERSITY 2010

Space Category	Total Existing ASF	Percent of Total ASF
Classroom Space	140,117	11%
Teaching Laboratory Space	228,889	19%
VoTech Teaching Laboratory Space	40,831	3%
Open Laboratory Space	26,624	2%
Office Space	312,629	25%
Library & Study Space	122,429	10%
Physical Education	70,018	6%
Special Use	31,044	3%
General Use	177,291	14%
Support Space	76,902	6%
TOTAL	1,226,774	100%

ASF = Assignable Square Feet

Percent of Total

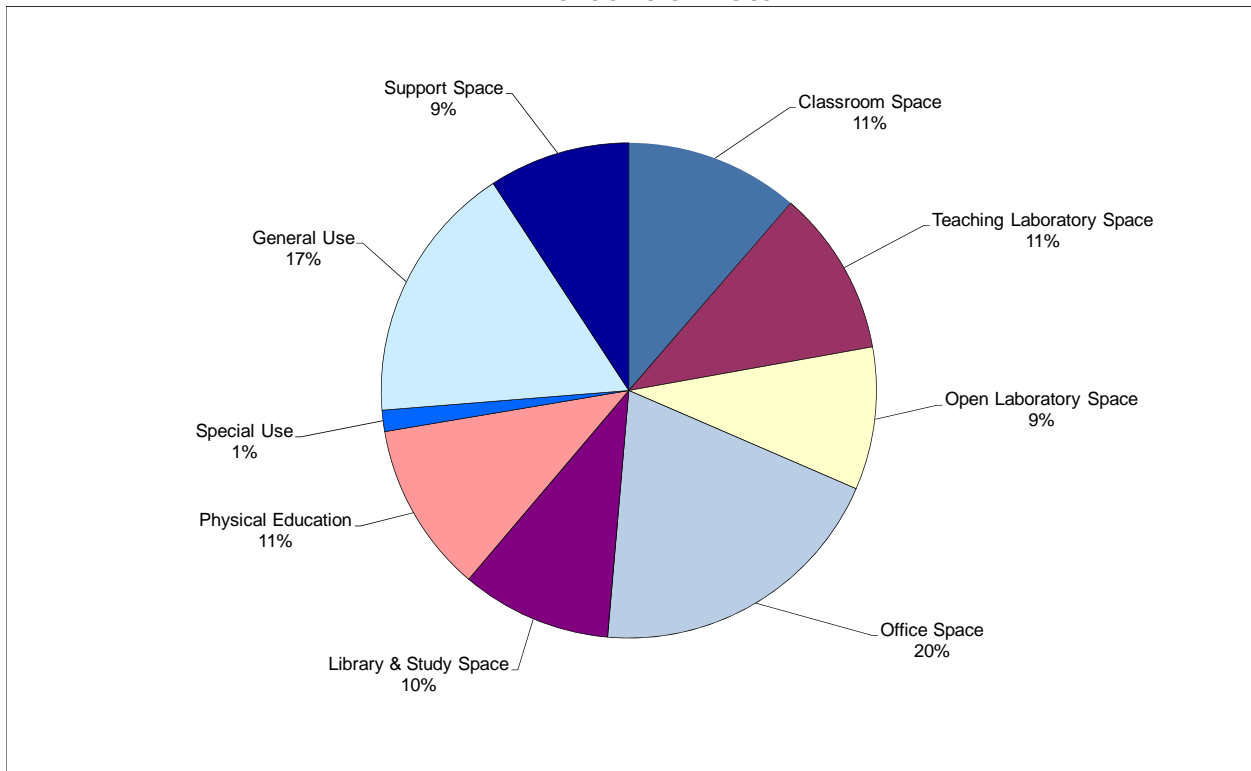


SOUTHERN UTAH UNIVERSITY 2010

Space Category	Total Existing ASF	Percent of Total ASF
Classroom Space	70,873	11%
Teaching Laboratory Space	67,711	11%
Open Laboratory Space	58,219	9%
Office Space	124,220	20%
Library & Study Space	61,403	10%
Physical Education	69,611	11%
Special Use	8,689	1%
General Use	106,507	17%
Support Space	57,646	9%
TOTAL	624,879	100%

ASF = Assignable Square Feet

Percent of Total

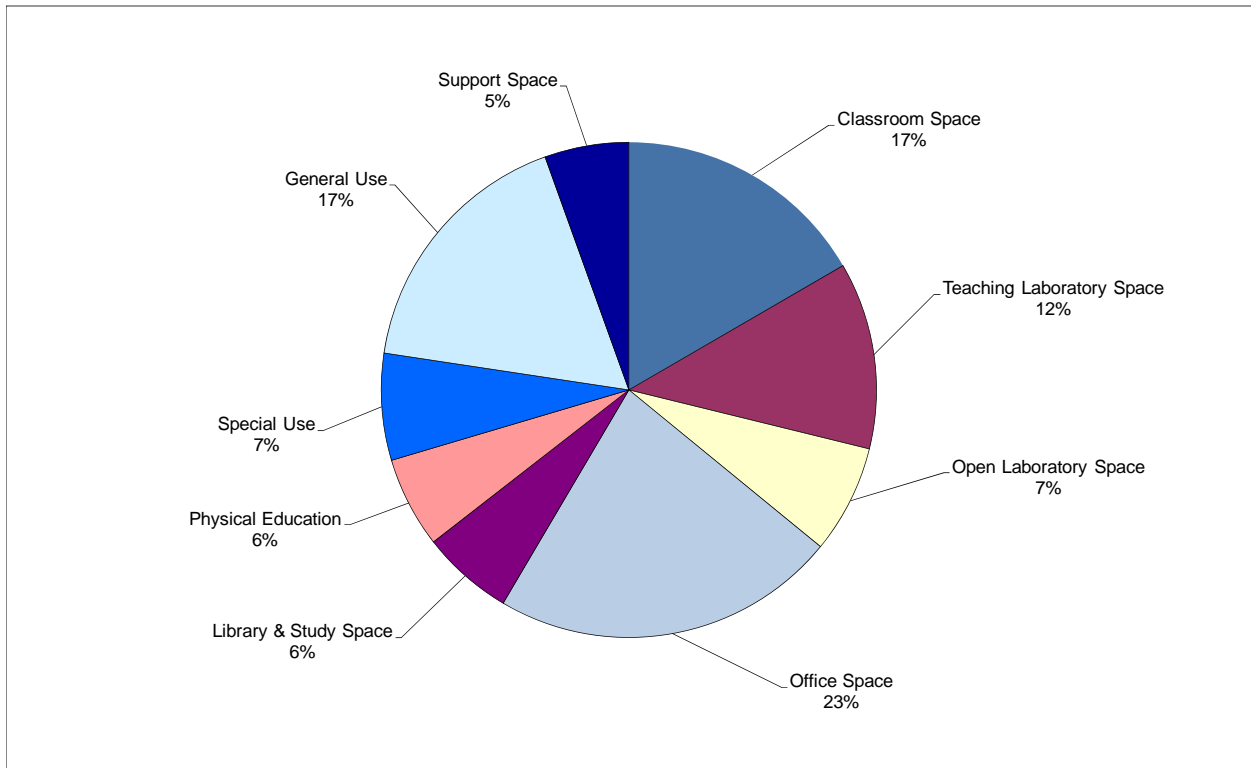


DIXIE STATE COLLEGE 2010

Space Category	Total Existing ASF	Percent of Total ASF
Classroom Space	67,332	17%
Teaching Laboratory Space	49,412	12%
Open Laboratory Space	28,668	7%
Office Space	91,334	23%
Library & Study Space	24,272	6%
Physical Education	24,015	6%
Special Use	28,252	7%
General Use	69,341	17%
Support Space	22,228	5%
TOTAL	404,854	100%

ASF = Assignable Square Feet

Percent of Total

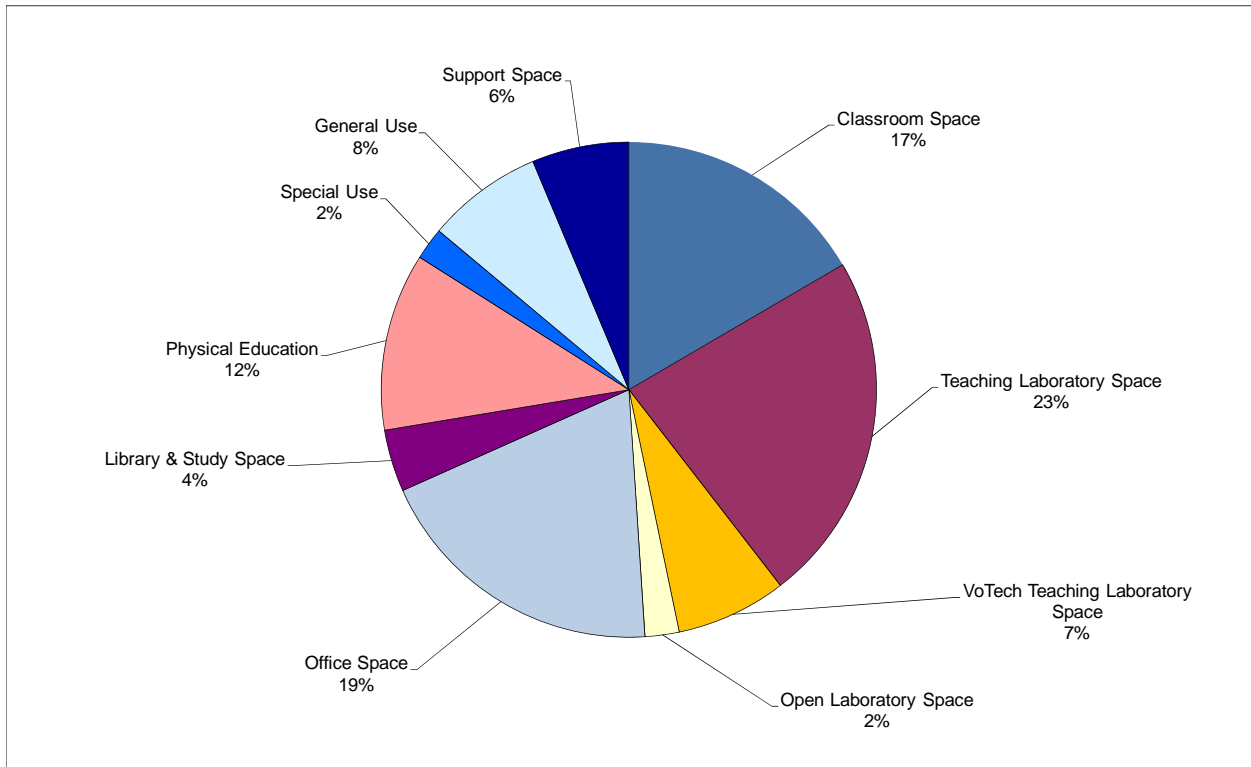


SALT LAKE COMMUNITY COLLEGE 2010

Space Category	Total Existing ASF	Percent of Total ASF
Classroom Space	212,052	17%
Teaching Laboratory Space	293,153	23%
VoTech Teaching Laboratory Space	92,229	7%
Open Laboratory Space	28,551	2%
Office Space	247,453	19%
Library & Study Space	51,878	4%
Physical Education	148,357	12%
Special Use	26,830	2%
General Use	96,963	8%
Support Space	80,923	6%
TOTAL	1,278,389	100%

ASF = Assignable Square Feet

Percent of Total

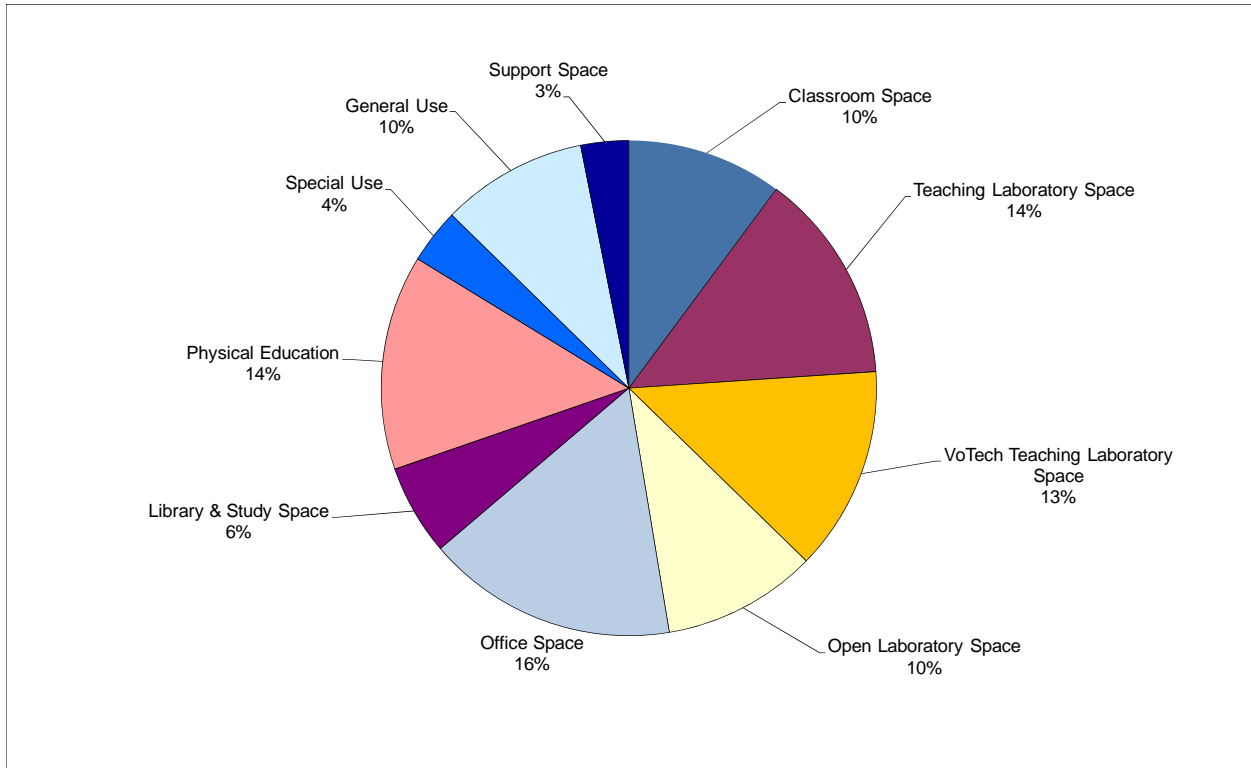


SNOW COLLEGE 2010

Space Category	Total Existing ASF	Percent of Total ASF
Classroom Space	45,423	10%
Teaching Laboratory Space	61,689	14%
VoTech Teaching Laboratory Space	59,745	13%
Open Laboratory Space	45,179	10%
Office Space	73,334	16%
Library & Study Space	26,507	6%
Physical Education	62,827	14%
Special Use	16,052	4%
General Use	42,700	10%
Support Space	13,995	3%
TOTAL	447,451	100%

ASF = Assignable Square Feet

Percent of Total





Space Needs Model

SECTION 3 DEVELOPMENT OF SPACE NEEDS MODEL

Using the information gathered during the site visits and meetings on the campuses, the data provided, experience with the data and findings from previous statewide studies for the Minnesota State Colleges and Universities and Kentucky Council of Postsecondary Education, and benchmark studies the consultant has performed, as well as knowledge of higher education guidelines nationwide gained from a survey of the 50 state standards conducted by the consultant, the consultant reviewed the existing guidelines, compared the existing guidelines and existing spaces to normative expectations, and developed recommendations for a space needs model for use by the Utah System of Higher Education.

The space guidelines recommended are based on assignable square feet per full-time equivalent student or, in some instances, the ASF per faculty and staff. The space guidelines were refined to provide differentiation by type or mission of the institution. The guidelines separate Research Universities, Community Colleges, and Baccalaureate/Masters institutions. This provides some differences by type of institution providing additional laboratory space for those institutions with extensive vocational/technical instruction, providing research laboratories for the research intensive universities, and differentiating office and office service space and library space by type of institution. This also provides some flexibility as institutions and campuses change their mission or focus over time, and it may be most appropriate, for example, to use the Community College guideline for laboratories, but the Baccalaureate/Masters guideline for the library at a campus in transition from a two-year focus to a four-year institution. It may also be appropriate to use the Community College guideline for some types of space at Weber State University or Utah Valley University as they still have a large percentage of offerings that serve the Community College mission.

**Utah System of Higher Education
Institution Mission and Size**

Main Campus	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Community College	USU-CEU	Snow	Snow	SLCC
Baccalaureate/Masters		USU-CEU	Dixie SUU	Dixie UVU Weber
Research University				U of U USU

Orange indicates future year

In addition, the guidelines provide differentiation for the size of the campus, to reflect the economy of scale that can be achieved on a campus with greater enrollment.

The consultant was provided with a copy of the Utah System of Higher Education Capital Development Prioritization R741 document. The consultant reviewed the space standards described in the document. It should be noted that the Utah System of Higher Education Capital Development Prioritization R741 model includes only spaces coded as classrooms in the 100s, as laboratories in the 200s, as office and office service space in the 300s, as study or library space in the 400s, and the physical education part of the special use 500 codes. The Utah System of Higher Education Capital Development Prioritization R741 model does not include spaces coded above 600.

For this analysis the consultant has included assembly, exhibit, food venue, merchandising, and lounge spaces coded as general spaces in the 600s and shop, physical plant, and warehouse coded as support spaces in the 700s. The spaces coded as health care facilities in the 800s and those coded as residential spaces in the 900s have not been included.

The space use code categories are briefly defined as:

Space Use Categories

100 Classroom Facilities

200 Laboratory Facilities

210 Class/Teaching Laboratory

220 Open Laboratory

250 Research Laboratory

300 Office and Office Service Facilities

400 Study Facilities

500 Special Use Facilities

600 General Use Facilities

700 Support Facilities

800 Health Care Facilities

900 Residential Facilities

Classroom Facilities

Classroom facilities include general purpose classrooms, lecture halls, seminar rooms, and other rooms used primarily for scheduled non-laboratory instruction. The total space in classroom facilities also includes any support rooms that serve classroom activities. Classrooms are generally coded with the space use code 110. Classroom support spaces are coded 115.

The Utah System of Higher Education Capital Development Prioritization R741 Appendix A Section 2.3 describes space standards to be used for several room types, including classrooms. The Capital Development Prioritization standards for classroom facilities include factors that can be used to calculate the assignable square feet per full-time equivalent (ASF/FTE).

R741 Capital Development Prioritization
Classroom Utilization Standards Table

Type of Institution	ASF/N	RUR	SOR	WSCH/FTE
Research University	18.0	33.75	0.667	12.5
Baccalaureate/Masters Degree Granting	18.75	33.75	0.667	13.0
Community College	19.5	33.75	0.667	13.5

ASF/N-Assignable square feet per station

RUR-Room utilization rate (hours of scheduled use per week)

SOR-Station occupancy rate (proportion of stations used when scheduled)

WSCH/FTE-Weekly student contact hours per full-time equivalent student

The numbers in the Classroom Utilization Standards Table can be used to calculate the ASF/FTE student recommended in the R741 Capital Development Prioritization classroom space standards. The formulas are as follows:

$$\text{ASF/WSCH} = (\text{ASF/N}) / [(\text{RUR}) * (\text{SOR})]$$

$$\text{ASF/FTE} = (\text{ASF/WSCH}) * (\text{WSCH/FTE})$$

R741 Capital Development Prioritization
Classroom ASF/FTE Standards

Type of Institution	ASF/FTE
Research University	10.00
Baccalaureate/Masters Degree Granting	10.83
Community College	11.69

The consultant's experience has shown that trends in classroom ASF/FTE are impacted by two conflicting priorities. One priority is a move toward more efficient scheduling and utilization of

classrooms which results in a need for less classroom space. The other priority is toward more active learning and group participation and away from a strict lecture format, which results in a need for more space per student in classrooms and a need for more classroom space.

In several recent statewide and systemwide studies, like those conducted by the consultant in Minnesota and Kentucky, the consultant has found classroom space can vary from 9 ASF/FTE to more than 20 ASF/FTE student. Campuses with higher enrollment generally require less ASF/FTE student since they are able to schedule classrooms for more hours per week and gain an economy of scale. For the states where the consultant has analyzed space, experience has shown that technical colleges and community colleges require more ASF/FTE student than research universities, with Baccalaureate/Masters Degree granting institutions ASF/FTE student falling in the middle of these two.

The consultant’s recommendation for classroom space for USHE ranges from 10 ASF/FTE student to 13 ASF/FTE student. The 10 ASF/FTE is recommended for Research Universities with enrollment greater than 6,000 students. The 13 ASF/FTE is recommended for smaller Community Colleges with fewer than 6,000 students. Campuses with greater enrollment can benefit from an economy of scale.

The use of distance education to offer courses to remote or place-bound students can result in a need for less classroom space as technology use can provide services that are no longer face-to-face delivery of course content. In order to take the distance education offerings into consideration, the recommended space guidelines are applied only to the percentage of students who are actually on campus in face-to-face delivery.

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Classrooms and Service	applied to Non Dist Ed FTE	applied to Non Dist Ed FTE	applied to Non Dist Ed FTE	applied to Non Dist Ed FTE
Community College	13 ASF/FTE student	13 ASF/FTE student	12 ASF/FTE student	12 ASF/FTE student
Baccalaureate/Masters	12 ASF/FTE student	12 ASF/FTE student	11 ASF/FTE student	11 ASF/FTE student
Research University	11 ASF/FTE student	11 ASF/FTE student	10 ASF/FTE student	10 ASF/FTE student

Teaching Laboratory Facilities

Teaching laboratory facilities include rooms that have special purpose equipment or space configuration that limits instructional activities to a particular discipline. These discipline-specific rooms are used primarily for scheduled instruction. The total space in teaching laboratory facilities also includes any support rooms that serve laboratory activities such as preparation rooms, storage, instrumentation rooms, and cold rooms. Teaching laboratories are generally coded with the space use code 210. Teaching laboratory support spaces are coded 215.

The space in teaching laboratories varies substantially. The teaching lab space is much more intensive in Community Colleges than in the other types on institutions.

As with the classroom facilities, the USHE Capital Development Prioritization R741 Appendix A Section 2.3 describes space standards to be used for laboratories including factors that can be used to calculate the ASF/FTE student.

R741 Capital Development Prioritization
Laboratory Utilization Standards Table

Type of Institution	ASF/N	RUR	SOR	WSCH/FTE
Research University	65	22.5	0.80	4.5
Baccalaureate/Masters Degree Granting	65	22.5	0.80	5.0
Community College	65	22.5	0.80	6.0

ASF/N-Assignable square feet per station

RUR-Room utilization rate (hours of scheduled use per week)

SOR-Station occupancy rate (proportion of stations used when scheduled)

WSCH/FTE-Weekly student contact hours per full-time equivalent student

The formulas for calculating the ASF/FTE student using the factors in the Laboratory Utilization Standards Table are the same as those used above for classroom calculations.

$$\text{ASF/WSCH} = (\text{ASF/N}) / [(\text{RUR}) * (\text{SOR})]$$

$$\text{ASF/FTE} = (\text{ASF/WSCH}) * (\text{WSCH/FTE})$$

R741 Capital Development Prioritization
Laboratory ASF/FTE Standards

Type of Institution	ASF/FTE
Research University	16.25
Baccalaureate/Masters Degree Granting	18.06
Community College	21.67

It should be noted that the Capital Development Prioritization standards for laboratories include both teaching laboratories and open laboratories. Due to the trend toward group study and the use of student commons spaces on campuses, the consultant has analyzed teaching and open laboratories separately.

The Capital Development Prioritization standards are also the same for general academic instruction and for vocational/technical instruction in the automotive and construction trades. Because some campuses have both general education and automotive and construction trades laboratories, and in many instances the general education laboratory activities are increasing while the use of automotive and construction trades activities are decreasing, the consultant has developed separate guidelines for general academic instructional laboratories and for automotive and construction trades laboratories.

While participating in site visits of all the institutions, the consultant became aware that some campuses that are now Community Colleges or Baccalaureate/Masters institutions have significant amounts of laboratory spaces for vocational/technical programs in the automotive and construction trades that were built when the institutions were applied technology colleges. These large spaces, which are still used in many cases, when combined with general academic instruction laboratory spaces overwhelm the analysis of need for general academic instruction laboratories. In other words, campuses that have a need for general academic instructional laboratories, like science laboratories or band and choral rooms for music programs, do not show a need for laboratory space because the institutions have such large amounts of automotive and construction trades laboratories that were constructed for the institutions when they were applied technology colleges.

For this reason, the consultant has separated the guidelines for general academic teaching laboratory space from guidelines for vocational/technical laboratory space guidelines for the automotive and construction trades. The space guidelines recommended can then better serve campuses that have been two-year institutions as they transition and grow into Baccalaureate/Masters Degree granting institutions, allowing the campuses in transition to compute the need for general academic laboratories in a manner that isolates academic laboratory need so that need can be seen without being masked by the large amounts of vocational/technical laboratories for the automotive and construction trades.

The consultant was provided with data separating the automotive and construction trades laboratories from the general academic teaching laboratory space for Weber State University, Snow College, Utah State University College of Eastern Utah, Utah Valley University, and Salt Lake Community College. The space included in the automotive and construction trades laboratory data includes only those spaces over 1,000 ASF. Using this data, supplied by the Assistant Commissioner for Facilities Planning at USHE, the consultant separated the existing automotive and construction trades laboratories from the general academic instruction laboratories.

The amount of space required for teaching laboratories can vary widely depending on the disciplines and program mix. The assignable square feet per station can range from a low of 30 ASF per station for computer-based instructional laboratories up to 160 ASF per station for some engineering or technical laboratories. While it would be ideal to create a space model that is more sensitive to program offerings, a discipline-specific approach is more complex and requires more detailed analysis than this statewide level analysis allows. The ASF/FTE student approach separating laboratory guidelines into general academic laboratories and automotive and construction trades laboratories is sufficient for a statewide analysis.

In recent studies performed by the consultant, existing space for teaching laboratories on campuses ranges from 5 ASF/FTE to 60 ASF/FTE student. Space guidelines for teaching laboratories are seen to range from 8 ASF/FTE to 50 ASF/FTE student. The facilities data provided to the consultant showed that the teaching laboratory space at the USHE institutions ranges from 8 ASF/FTE to 23 ASF/FTE. As with other types of space, campuses with higher enrollment generally require less ASF/FTE student due to the ability to schedule the rooms for more hours per week resulting in an economy of scale.

The consultant's recommendation for teaching laboratory space for general academic instruction space ranges from 11 ASF/FTE to 16 ASF/FTE student.

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Teaching Laboratories and Service General Academic Instruction	applied to Non Dist Ed FTE	applied to Non Dist Ed FTE	applied to Non Dist Ed FTE	applied to Non Dist Ed FTE
Community College	16 ASF/FTE student	16 ASF/FTE student	15 ASF/FTE student	15 ASF/FTE student
Baccalaureate/Masters	15 ASF/FTE student	15 ASF/FTE student	13 ASF/FTE student	12 ASF/FTE student
Research University	14 ASF/FTE student	13 ASF/FTE student	12 ASF/FTE student	11 ASF/FTE student

The use of distance education to offer courses to remote or place-bound students can result in a need for less teaching laboratory space as the remote students do not occupy teaching laboratories. In order to take the distance education offerings into consideration, the recommended space guidelines for general academic teaching laboratories are applied only to the percentage of students who are actually on campus in face-to-face delivery.

The consultant's recommendation for teaching laboratory space for vocational/technical instruction space for the automotive and construction trades ranges from 4 ASF/FTE to 6 ASF/FTE with the smaller ASF/FTE applied to campuses with less or decreasing vocational/technical instruction like those at Baccalaureate/Masters Degree granting institutions and slightly higher ASF/FTE applied to Community Colleges with ongoing vocational programs. For campuses that are not increasing automotive and construction trades programs, the existing ASF/FTE student is the recommended guideline. For campuses that have discontinued their allied technology programs the existing automotive and construction trades laboratories should be considered for reuse and renovation.

As with teaching laboratories for general academic instruction, the recommended space guidelines for auto and construction trades instruction are applied only to the percentage of students who are actually on campus in face-to-face delivery.

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Teaching Laboratories and Service Auto/Construct Trades Instruction	applied to Non Dist Ed FTE	applied to Non Dist Ed FTE	applied to Non Dist Ed FTE	applied to Non Dist Ed FTE
Community College	6 ASF/FTE student	6 ASF/FTE student	5 ASF/FTE student	5 ASF/FTE student
Baccalaureate/Masters	5 ASF/FTE student	5 ASF/FTE student	4 ASF/FTE student	4 ASF/FTE student

Open Laboratory Facilities

Open laboratory facilities include laboratory facilities that are used primarily for individual or group instruction that is unscheduled, informally scheduled, or open. Students may work in open laboratories on a self-paced basis. The total space in open laboratory facilities also includes any support rooms that serve the laboratory activities. Open laboratories are generally coded with the space use code 220. Open laboratory support spaces are coded 225.

The Capital Development Prioritization standards for laboratories include both teaching laboratories and open laboratories. For this analysis of space guidelines, open laboratories have been separated.

Other states have used standards that allocate seven or eight assignable square feet per full-time equivalent student. In other modeling studies conducted by the consultant, a low of 5 ASF/FTE and as much as 8 ASF/FTE per student have been recommended.

The recommendation for open laboratory space for USHE institutions ranges from 5 ASF/FTE to 8 ASF/FTE student.

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Open Laboratories and Service				
Community College	8 ASF/FTE student	7 ASF/FTE student	6 ASF/FTE student	5 ASF/FTE student
Baccalaureate/Masters	8 ASF/FTE student	7 ASF/FTE student	6 ASF/FTE student	5 ASF/FTE student
Research University	8 ASF/FTE student	8 ASF/FTE student	8 ASF/FTE student	8 ASF/FTE student

Research Laboratory Facilities

Research laboratory facilities include laboratory facilities that are used primarily for experimentation, research, or training in research methods, professional research and observation, or for sponsored research. The total space in research laboratory facilities also includes any support rooms that serve the laboratory activities. Research laboratories are generally coded with the space use code 250. Research laboratory support spaces are coded 255.

Three of the campuses in this study currently have research space: The University of Utah, Utah State University, and Weber State University. The University of Utah and Utah State University have extensive research programs.

Space guidelines for sponsored research programs are generally calculated using square feet per research dollars. These guidelines are generally applied at research intensive institutions and include research space that has been excluded in this study as well as the space that has been included for analysis in this study.

Guidelines can also be used that calculate space using square feet per faculty or research active faculty. The range of ASF per faculty can vary widely in these guidelines. The USHE Capital

Development Prioritization R741 Appendix A Section 2.3 outlines space standards to be used for research laboratories based on ASF per FTE faculty. The ASF per faculty in the USHE Capital Development Prioritization ranges from 50 ASF/FTE faculty in Architecture, Social Work, and Education to 1,000 ASF/FTE faculty in Engineering, Natural Science, and Pharmacy.

It should be noted that space guidelines outlining ASF/FTE faculty normally take into consideration the proportion of faculty engaged in research as well as the range of space per faculty in required in different academic disciplines.

Taking into account these factors, as well as noting that this study excluded some research space from the analysis, the consultant recommends using an ASF/FTE faculty method for calculating research space rather than using an ASF per dollar calculation. The consultant’s recommended space guideline for research laboratories is 475 ASF/FTE faculty for the research universities. Since research is not a major thrust at the Baccalaureate/Masters Degree granting institutions, but noting that there is a desire and need for space for unique scholarly activity and undergraduate research activities, 35 ASF/FTE faculty is recommended for the Baccalaureate/Masters institutions engaged in these types of research activity.

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Research Laboratories and Service Baccalaureate/Masters Research University	35 ASF/FTE faculty 475 ASF/FTE faculty	35 ASF/FTE faculty 475 ASF/FTE faculty	35 ASF/FTE faculty 475 ASF/FTE faculty	35 ASF/FTE faculty 475 ASF/FTE faculty

It should be noted that these guidelines are applied at an institution level. The 475 ASF per faculty would not preclude one researcher from having a 1,100 ASF research space while another has 300 ASF, and another only 25 ASF. Other faculty would not need any research laboratories because their scholarship consists of non-laboratory activities. The 475 ASF is an average for the institution, not a limit or entitlement for any individual researcher.

Office and Office Service Space

The office and office service space category includes offices and conference rooms as well as office service space. Office service space includes work rooms, supply rooms, reception areas, file rooms, copy rooms, and kitchenettes that serve office functions and staff. Office and office service space is categorized with the space use codes 310 through 355.

The most appropriate statewide space guidelines for office and office service are calculated on a space per full-time equivalent employee basis. The ASF/FTE employee used in the calculations includes both office and office service space, and **is not meant to represent an actual office size**. The number of FTE employees includes people such as operations and maintenance workers who do not have offices, staff who have shared offices, and faculty and administrators who require private offices. The recommended space per FTE employee used to calculate office and office service space needs on a statewide or campuswide level takes all these factors into consideration.

Space guidelines for office and office service space in other states range from 140 ASF/FTE employee to 195 ASF/FTE employee. The 195 ASF could represent 140 ASF for an office, 20 ASF for conference room space, and 35 ASF for office service space. **None of these numbers represents an actual room**, but are amounts of space recommended for the office, conference, and service functions. The office and conference facilities standard outlined in the USHE Capital Development Prioritization R741 Appendix A Section 2.3 is 170 ASF/FTE staff member which represents 130 ASF for office space and 40 ASF for service and conference space.

A number of states make distinctions by type of institution, using a higher ASF/FTE employee at research universities, a slightly lower ASF/FTE employee at four-year institutions, and less again for community colleges. The consultant reviewed the existing ASF/FTE employee at the Utah institutions and found a distinction by type of institution. The consultant, therefore, recommends a differential method to more accurately reflect the complex office and office service space needs of different types of institutions. The consultant did not see an economy of scale in office facilities spaces for larger institutions.

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Office and Office Service				
Community College	150 ASF/FTE employee	150 ASF/FTE employee	150 ASF/FTE employee	150 ASF/FTE employee
Baccalaureate/Masters	170 ASF/FTE employee	170 ASF/FTE employee	170 ASF/FTE employee	170 ASF/FTE employee
Research University	195 ASF/FTE employee	195 ASF/FTE employee	195 ASF/FTE employee	195 ASF/FTE employee

The recommendation for office and office service space is 195 ASF/FTE employee for Research Universities, 170 ASF/FTE for the Baccalaureate/Masters Degree granting institutions, and 150

ASF/FTE employee at the Community Colleges. This analysis, using employee FTE, may understate need at complex institutions like the University of Utah, where office space is assigned to a portion of part time employees, active emeriti, or staff requiring two offices, such as staff with both administrative and teaching responsibilities or teaching and research institute responsibilities.

Libraries

Library facilities include space for study, collections, processing materials, and other service areas. Libraries are generally coded with the space use codes 410 through 455.

Library guidelines most frequently used calculate space for collections, reader station space based on the percentage of the student body to be served, and for service functions to accommodate library staff and operate the library. The USHE Capital Development Prioritization standards for library study facilities outlines guidelines for the size of collections, the space required to house the collections, and reader study station space.

The needs for library facilities can vary greatly by type of institution. Graduate programs require more library resources than undergraduate programs, and four-year undergraduate programs require more library collections per student than community college programs, particularly those in vocational and technical fields. On the other hand, trends in library use show libraries less as storage for collections and more as a place for access to information in electronic format. Libraries are now often used as student commons areas for individual and group study, complete with coffee shop/snack food venues. Traditional guidelines for libraries are becoming more difficult to apply.

For a statewide level analysis of library space guidelines, and lacking the detail of collection sizes and reader stations required, the recommended space guideline for libraries used here reflects the model used for the other categories of space and is based on ASF/FTE student.

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Libraries	15,000 ASF minimum			
Community College	7 ASF/FTE student	6 ASF/FTE student	5 ASF/FTE student	4 ASF/FTE student
Baccalaureate/Masters	9 ASF/FTE student	9 ASF/FTE student	7 ASF/FTE student	7 ASF/FTE student
Research University	14 ASF/FTE student	14 ASF/FTE student	14 ASF/FTE student	12 ASF/FTE student

In recent benchmarking studies of public universities the consultant found existing ASF/FTE in libraries to average 13 ASF/FTE to 16 ASF/FTE student. The full range seen in these studies was from 7 ASF/FTE student to 20 ASF/FTE student.

Special Use Facilities

This category of space includes several space categories that are specialized enough in function to merit a unique space code. Special use facilities include armory spaces (510) and armory support spaces (515); media production and service (530 and 535); clinic and clinic service facilities that have as their primary purpose instruction, research, or public service (540 and 545); field buildings (560); animal facilities and animal facilities service spaces (570 and 575); greenhouse and service spaces (580 and 585); and all-purpose spaces (590), a category used for those spaces that cannot be described by other codes. For the purpose of this analysis we have not included physical education and athletics facilities (520 and 525) under special use facilities, but have developed a separate standard for these spaces.

The USHE Capital Development Prioritization standards mention special use facilities but do not propose a formula for including these spaces in the standards. The consultant has found that the amount of space in this category varies widely from campus to campus and from state to state because they are influenced by specific local conditions. In this instance, the space model is influenced by the fact that some space in this category has been excluded from analysis in this study. Therefore, the recommendations for the special use space category are primarily based on the analysis of existing amounts included space at the Utah institutions.

The space in this category at the USHE institutions ranges from one to eight ASF/FTE student. The consultant recommends a guideline of three ASF/FTE for this type of space.

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Special Use Space				
Community College	3 ASF/FTE student	3 ASF/FTE student	3 ASF/FTE student	3 ASF/FTE student
Baccalaureate/Masters	3 ASF/FTE student	3 ASF/FTE student	3 ASF/FTE student	3 ASF/FTE student
Research University	3 ASF/FTE student	3 ASF/FTE student	3 ASF/FTE student	3 ASF/FTE student

Physical Education/Recreation/Athletics

Physical education, recreation, and athletics facilities include gymnasias, basketball courts, handball courts, volleyball courts, wrestling rooms, weight rooms, indoor swimming pools, and the locker rooms and equipment rooms that support these facilities. Physical education and athletic spaces are generally coded with the space use code 520. Seating and support spaces are coded 523 and 525, respectively.

Looking at physical education, recreation, and athletic spaces at other institutions, the consultant found the range of ASF/FTE student to be from 6 ASF/FTE to 15 ASF/FTE student. The USHE Capital Development Prioritization standards are a minimum of 35,000 ASF plus 6 ASF per FTE beyond the first 1,000 FTE students. The 6 ASF would be applied to all physical education and athletics space, not just the space included in this study. For this reason a lower guideline is recommended here to be applied only to the included space.

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Physical Education			35,000 ASF minimum	
Community College	35,000 ASF minimum	35,000 ASF minimum	4 ASF/FTE student	3 ASF/FTE student
Baccalaureate/Masters	35,000 ASF minimum	35,000 ASF minimum	4 ASF/FTE student	3 ASF/FTE student
Research University	35,000 ASF minimum	35,000 ASF minimum	4 ASF/FTE student	3 ASF/FTE student

There is clearly a minimum amount of space needed to provide physical education and athletics spaces. A gymnasium with lockers and other related spaces, a swimming pool, and other spaces for racquetball or fitness equipment would easily require 35,000 ASF. This amount of space for physical education and athletics facilities would be needed even if a campus has very few students.

It is important to remember that this analysis of space includes physical education, recreation, and athletics facilities but excludes facilities that are classified as auxiliary space. In summarizing the spaces and applying the guidelines the consultant noted that Salt Lake Community College has no physical education, recreation, or athletics space that is classified as auxiliary, so all of its 520, 523, and 525 coded spaces have been included for this analysis. On the other end of the spectrum, Utah State University College of Eastern Utah has categorized most of the physical education, recreation, and athletics space on its campus as auxiliary space,

resulting in only a token amount of space in this category included for analysis. About half of the campuses have most of the physical education, recreation, and athletics space included, while the other half of the campuses have most of the physical education, recreation, and athletics space excluded.

During meetings on the campuses, the consultant inquired about the athletics, recreation, and physical education spaces in an effort to understand the categorization of space included in the study and the classification of other space as auxiliary due to its funding by intercollegiate activities, auxiliary funds, or student fees. From information gathered during meetings on campus and from reviewing facilities data from the institutions, it appears the classification of physical education, recreation, and athletics space as auxiliary or non-auxiliary has not been applied in a consistent manner from institution to institution. This results in inconsistent findings when the space model is applied.

There was sufficient question during this analysis about the classification of physical education, recreation, and athletics spaces that the consultant recommends further review of the classification of the 520, 523, and 525 spaces as auxiliary or non-auxiliary space. That review is outside the scope of this study.

General Use Space

General use spaces are those facilities that are available to a broad group of people in the institutional and community populations for assembly, exhibition, dining, merchandising, relaxation, and general meetings. These facilities include auditoria (610 and 615); museums (620 and 625); food venues (630 and 635); day care centers (640 and 645); lounges (650 and 655); merchandising such as bookstores, (660 and 665); and recreation, such as billiards and game rooms (670 and 675); and meeting rooms (680 and 685).

Along with special use spaces, the USHE Capital Development Prioritization standards mention general use facilities but do not propose a formula for including special use facilities in the standards. Also as with special use facilities, the consultant has found that the amount of space in this category varies widely from campus to campus and from state to state. The space model is influenced in this study by the fact that some space in this category might be excluded from this study. Therefore, the recommendations for the general use space category are primarily based on the analysis of existing amounts of included space at the Utah institutions.

The space in this category at the USHE institutions ranges from five to 29 ASF/FTE student. The consultant recommends a range of guidelines from ten to 15 ASF/FTE for this type of space.

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
General Use Space				
Community College	15 ASF/FTE student	13 ASF/FTE student	11 ASF/FTE student	10 ASF/FTE student
Baccalaureate/Masters	15 ASF/FTE student	13 ASF/FTE student	11 ASF/FTE student	10 ASF/FTE student
Research University	15 ASF/FTE student	13 ASF/FTE student	11 ASF/FTE student	10 ASF/FTE student

Support Space

Support facilities provide centralized space for the services that keep the institutional programs and activities operating. These include centralized areas for computers and telecommunications (710 and 715); shops for maintenance and repair of campus facilities and equipment (720 and 725); centralized storage for equipment and materials that serve multiple organizational units or buildings (730 and 735); vehicle storage (740 and 745); central service spaces used for campus wide support service such as mail facilities or central shipping and receiving (750 and 755); centralized hazardous material storage (760); and centralized hazardous waste storage (770 and 775).

As with special use and general use spaces, the USHE Capital Development Prioritization standards mention support space facilities but do not propose a formula for including support space in the standards.

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Support Space				
Community College	4 ASF/FTE student	4 ASF/FTE student	4 ASF/FTE student	4 ASF/FTE student
Baccalaureate/Masters	6 ASF/FTE student	6 ASF/FTE student	6 ASF/FTE student	6 ASF/FTE student
Research University	8 ASF/FTE student	8 ASF/FTE student	8 ASF/FTE student	8 ASF/FTE student
Land Grant Mission Addition	+6 ASF/FTE student	+6 ASF/FTE student	+6 ASF/FTE student	+6 ASF/FTE student

It should be noted that parking garages are excluded from the study if they are classified as auxiliary spaces. Parking for service vehicles is included.

The recommendations for this space category are primarily based on the analysis of existing amounts of space at the Utah institutions. The space in this category at the USHE institutions

ranges from four to 19 ASF/FTE student. The consultant recommends a guideline of four to eight ASF/FTE for this type of space with an additional six ASF for the land grant impact.

Space Excluded from this Analysis

Health care facilities which are commonly coded 800 and residential facilities coded 900 were excluded from this analysis. Also excluded from this analysis were the medical school at the University of Utah, auxiliary space, hospitals, farms, public daycare centers, student health clinics, airport hangers, and leased out space. The spaces in the Sevier Valley Center with room use codes of 500 and above were also excluded. Spaces in the Randall L. Jones Theatre and the Adams Memorial Theatre with room use codes above 600 were excluded. The spaces to be excluded were Element R-07 field values B, C, G, M, N, O, and Z. Only the spaces identified by the field values A, D, E, F, H, I, J, K, and L in the USHE Data Element Dictionary Space Utilization Room Grouping Codes Element R-07 were included.

Distance Education

The consultant reviewed distance education and considered its impact on space on campuses. The distance education offerings in Utah include Correspondence or electronic copy, Broadcast, Interactive Audio/Video, Technology-Enhanced, Electronic Media, or On-line delivery methods.

Distance education and the use of technology to deliver courses is an important aspect of future use of space and space requirements on the campuses. Students enrolled in distance learning programs vary from students who live on campus and are electing to take a course or two on-line, to students who live far from campus and take all courses that comprise their academic programs remotely, and to students on campuses around the state attending classes through the use of a synchronous Utah Education Network (EdNet) broadcast.

The impact distance education and on-line programs have on the need for space on campuses is a challenging and complex issue. The space impacts of the use of distance education are unique for each type of delivery.

The remote students who do not attend classes on the campuses do not need space in classrooms or residence halls. While these students reduce the need for classroom space, it is still necessary for the campuses to provide faculty to teach the courses and

academic support personnel, including admissions, financial aid, student accounts, advising staff, and information technology support. Office and office service space, technology support space, libraries, and parking are still needed on campus for the faculty and academic support personnel.

Some on-line students are essentially campus-based and are taking only an occasional on-line course. These students require a full range of campus facilities and services. There is no significant reduction in space required on campus, other than classroom space, for these students.

While visiting the Utah campuses for this study the consultant observed students attending courses through the use of synchronous EdNet broadcasts. In these instances one or two students were seen in classrooms designed for 20 or 30 students. While the use of the EdNet broadcast allows remote students to gain access to faculty and programs on campuses many miles away, the use of a large classroom for only one or two students does not reduce classroom space requirements on the campus receiving the broadcast.

In order to assess the impact that the type of delivery has on the space needs per student it is necessary to identify those students who take courses on campus and require associated facilities and those who will not be on campus and don't require campus facilities, although they will require academic support services and access to the support personnel who provide those services.

For many of these distance education offerings the space required on campus is not reduced in significant amounts. Most space categories, with the exception of classrooms and teaching laboratories, will still be needed on campus. Faculty will still require offices and research space. Open laboratories are needed for testing and assessment for distance education students. Physical space is needed for the technology to support the distance education offerings. Office space is needed for the personnel who recruit, enroll, and register students for distance education courses. Service and support spaces are still needed to operate the existing campus facilities.

The use of distance education to offer courses to remote or place-bound students can result in a need for less classroom space as technology use can provide services that no longer require classroom space for face-to-face delivery of course content. However physical facilities are needed to house and operate the technology.

For the development of the space model in this analysis the consultant used the categories of Correspondence or electronic copy, Broadcast, Interactive Audio/Video, Technology-Enhanced, Electronic Media, or On-line delivery methods provided in the enrollment data to calculate the percentage of FTE that is offered in these distance education formats, then recommended the space guidelines for classrooms and teaching laboratories be applied only to the percentage of students who are actually on campus receiving face-to-face instructional delivery.

Because developing guidelines for the other types of space remains a complex and challenging issue, the other space guidelines were developed assuming that all FTE students, both distance education and on-campus students, should be included in the calculations of space needs.

Branch Campuses

The branch and satellite campuses in Utah vary greatly from single delivery sites in outlying communities to branch campuses that are evolving into comprehensive campuses. The uniqueness of each of the delivery sites and branch campuses creates challenges in generalizing about the application of space guidelines. Each delivery site or branch campus has its own unique space requirements depending on what courses or services are offered for students to the rate and level of development of the delivery site.

Data supplied to the consultant included all space on the main campuses, branch campuses, centers, and other delivery sites. Data used in this study to compare campus spaces and develop the space guidelines was the data from the entire institution, including branch campuses and delivery sites.

Branch Campus	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Community College	Snow-Richfield CEU-San Juan			
Baccalaureate/Masters	Weber-Davis Dixie-Hurricane UVU-Wasatch			
Research University	USU-Brigham City USU-Uintah Basin USU-Tooele			

In developing the space guidelines to provide differentiation by type or mission of the institution, because the branch campuses are analyzed here with the main campus, they are classified the same way as the main campuses separating them into Research Universities, Community Colleges, and Baccalaureate/Masters institutions. The consultant also categorized the satellite centers and branch campuses by size. In illustrating mission and size of the branch campuses, it is clear that they are all smaller sites.

While the guidelines are applicable in a general sense when looking at the entire institution, they are more specifically applicable to main campuses and branch campuses that are sufficiently large and comprehensive to warrant their application.

For many small delivery sites, a program level analysis of space needs is necessary if the site is analyzed separately from the main campus, since application of statewide space guidelines does not effectively lend itself to determining the spaces needed at small sites. For many delivery sites, the basic needs are for classrooms and administrative office spaces. As delivery sites grow and become comprehensive campuses, the need emerges for student support spaces such as open laboratories, as well as student lounges and gathering spaces.

The development of space guidelines is intended to allow some flexibility or interpretation of the guidelines to meet the needs of the various institutions as they change their mission or focus over time. Similarly the guidelines could be applied to a branch campus separate from the main campus if the branch campus has attributes like a main campus and is evolving into a comprehensive campus. It is likely that the guidelines do not apply to other delivery sites if applied separately from the main campus due to their unique situation or needs.

Summary of Space Planning Guidelines

The table that follows summarizes the space guidelines discussed above.

**Utah System of Higher Education
Space Planning Guidelines**

Space Type Institution Mission	FTE Enrollment			
	Fewer than 3,000 students	3,000 to 6,000 students	6,000 to 10,000 students	Greater than 10,000 students
Classrooms and Service Community College Baccalaureate/Masters Research University	applied to Non Dist Ed FTE 13 ASF/FTE student 12 ASF/FTE student 11 ASF/FTE student	applied to Non Dist Ed FTE 13 ASF/FTE student 12 ASF/FTE student 11 ASF/FTE student	applied to Non Dist Ed FTE 12 ASF/FTE student 11 ASF/FTE student 10 ASF/FTE student	applied to Non Dist Ed FTE 12 ASF/FTE student 11 ASF/FTE student 10 ASF/FTE student
Teaching Laboratories and Service General Academic Instruction Community College Baccalaureate/Masters Research University	applied to Non Dist Ed FTE 16 ASF/FTE student 15 ASF/FTE student 14 ASF/FTE student	applied to Non Dist Ed FTE 16 ASF/FTE student 15 ASF/FTE student 13 ASF/FTE student	applied to Non Dist Ed FTE 15 ASF/FTE student 13 ASF/FTE student 12 ASF/FTE student	applied to Non Dist Ed FTE 15 ASF/FTE student 12 ASF/FTE student 11 ASF/FTE student
Teaching Laboratories and Service Auto/Construct Trades Instruction Community College Baccalaureate/Masters	applied to Non Dist Ed FTE 6 ASF/FTE student 5 ASF/FTE student	applied to Non Dist Ed FTE 6 ASF/FTE student 5 ASF/FTE student	applied to Non Dist Ed FTE 5 ASF/FTE student 4 ASF/FTE student	applied to Non Dist Ed FTE 5 ASF/FTE student 4 ASF/FTE student
Open Laboratories and Service Community College Baccalaureate/Masters Research University	8 ASF/FTE student 8 ASF/FTE student 8 ASF/FTE student	7 ASF/FTE student 7 ASF/FTE student 8 ASF/FTE student	6 ASF/FTE student 6 ASF/FTE student 8 ASF/FTE student	5 ASF/FTE student 5 ASF/FTE student 8 ASF/FTE student
Research Laboratories and Service Baccalaureate/Masters Research University	35 ASF/FTE faculty 475 ASF/FTE faculty	35 ASF/FTE faculty 475 ASF/FTE faculty	35 ASF/FTE faculty 475 ASF/FTE faculty	35 ASF/FTE faculty 475 ASF/FTE faculty
Office and Office Service Community College Baccalaureate/Masters Research University	150 ASF/FTE employee 170 ASF/FTE employee 195 ASF/FTE employee	150 ASF/FTE employee 170 ASF/FTE employee 195 ASF/FTE employee	150 ASF/FTE employee 170 ASF/FTE employee 195 ASF/FTE employee	150 ASF/FTE employee 170 ASF/FTE employee 195 ASF/FTE employee
Libraries Community College Baccalaureate/Masters Research University	15,000 ASF minimum 7 ASF/FTE student 9 ASF/FTE student 14 ASF/FTE student	6 ASF/FTE student 9 ASF/FTE student 14 ASF/FTE student	5 ASF/FTE student 7 ASF/FTE student 14 ASF/FTE student	4 ASF/FTE student 7 ASF/FTE student 12 ASF/FTE student
Special Use Space Community College Baccalaureate/Masters Research University	3 ASF/FTE student 3 ASF/FTE student 3 ASF/FTE student	3 ASF/FTE student 3 ASF/FTE student 3 ASF/FTE student	3 ASF/FTE student 3 ASF/FTE student 3 ASF/FTE student	3 ASF/FTE student 3 ASF/FTE student 3 ASF/FTE student
Physical Education Community College Baccalaureate/Masters Research University	35,000 ASF minimum 35,000 ASF minimum 35,000 ASF minimum	35,000 ASF minimum 35,000 ASF minimum 35,000 ASF minimum	35,000 ASF minimum 4 ASF/FTE student 4 ASF/FTE student 4 ASF/FTE student	3 ASF/FTE student 3 ASF/FTE student 3 ASF/FTE student
General Use Space Community College Baccalaureate/Masters Research University	15 ASF/FTE student 15 ASF/FTE student 15 ASF/FTE student	13 ASF/FTE student 13 ASF/FTE student 13 ASF/FTE student	11 ASF/FTE student 11 ASF/FTE student 11 ASF/FTE student	10 ASF/FTE student 10 ASF/FTE student 10 ASF/FTE student
Support Space Community College Baccalaureate/Masters Research University Land Grant Mission Addition	4 ASF/FTE student 6 ASF/FTE student 8 ASF/FTE student +6 ASF/FTE student	4 ASF/FTE student 6 ASF/FTE student 8 ASF/FTE student +6 ASF/FTE student	4 ASF/FTE student 6 ASF/FTE student 8 ASF/FTE student +6 ASF/FTE student	4 ASF/FTE student 6 ASF/FTE student 8 ASF/FTE student +6 ASF/FTE student

ASF- Assignable square feet
FTE- Full-time equivalent



Application of Space Needs Model

SECTION 4 APPLICATION OF SPACE NEEDS MODEL

Once developed, the space guidelines for each category of space were applied using current and estimated student and staff FTE.

The space guidelines developed for each category of space for each type of institution were applied and totaled to calculate the guideline ASF at both the current and two future year enrollment estimates.

The application of the space needs model projecting future space needs utilized enrollment estimates provided by the institutions and approved by the Board of Regents. The enrollment estimates, because they are just estimates, and not developed using an approved analytical model to project enrollment have been applied using a low estimate and a high estimate of enrollment growth. Two tables have been shown for the future year to apply the guidelines to both the high and low enrollment estimates.

The guidelines applied for each category of space are shown in Section 5. The details for each institution are shown in Section 6.

UTAH SYSTEM OF HIGHER EDUCATION
Space Needs Analysis

SYSTEM TOTAL	2010						
	Fall 2010 Student FTE	Existing ASF/ FTE	Existing ASF	ASF/FTE from Guideline	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	6,267	65	404,854	71	445,204	(40,350)	(10%)
Salt Lake Community College	18,326	70	1,278,389	71	1,303,100	(24,711)	(2%)
Snow College	3,415	131	447,451	88	300,839	146,612	33%
Southern Utah University	6,609	95	624,879	81	532,929	91,950	15%
University of Utah	25,879	128	3,311,839	124	3,210,898	100,941	3%
Utah State University	18,689	132	2,474,229	129	2,416,866	57,363	2%
Utah State University - CEU	1,772	162	287,771	108	190,957	96,814	34%
Utah Valley University	21,825	56	1,226,774	71	1,549,895	(323,121)	(26%)
Weber State University	15,555	75	1,168,055	75	1,160,946	7,109	1%
TOTAL	118,337	95	11,224,241	94	11,111,634	112,607	1%

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION
Space Needs Analysis LOW Range Enrollment Estimate

SYSTEM TOTAL	2020						
	LOW Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	ASF/FTE from Guideline	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	9,800	54	530,416	63	620,211	(89,795)	(17%)
Salt Lake Community College	21,700	60	1,307,701	70	1,510,595	(202,894)	(16%)
Snow College	5,600	87	489,926	74	415,075	74,851	15%
Southern Utah University	8,000	83	660,213	78	621,396	38,817	6%
University of Utah	26,200	135	3,527,394	123	3,229,306	298,088	8%
Utah State University	18,400	139	2,552,291	129	2,375,668	176,623	7%
Utah State University - CEU	2,900	99	287,771	96	277,431	10,340	4%
Utah Valley University	31,400	43	1,358,261	67	2,116,024	(757,763)	(56%)
Weber State University	20,100	63	1,259,276	72	1,450,473	(191,197)	(15%)
TOTAL	144,100	83	11,973,249	88	12,616,179	(642,930)	(5%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION
Space Needs Analysis HIGH Range Enrollment Estimate

SYSTEM TOTAL	2020						
	HIGH Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	ASF/FTE from Guideline	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	12,000	44	530,416	63	754,729	(224,313)	(42%)
Salt Lake Community College	26,600	49	1,307,701	69	1,828,970	(521,269)	(40%)
Snow College	6,900	71	489,926	73	500,922	(10,996)	(2%)
Southern Utah University	9,800	67	660,213	76	742,032	(81,819)	(12%)
University of Utah	32,000	110	3,527,394	121	3,856,495	(329,101)	(9%)
Utah State University	22,500	113	2,552,291	127	2,848,781	(296,490)	(12%)
Utah State University - CEU	3,500	82	287,771	93	324,916	(37,145)	(13%)
Utah Valley University	38,400	35	1,358,261	67	2,558,625	(1,200,364)	(88%)
Weber State University	24,500	51	1,259,276	71	1,746,424	(487,148)	(39%)
TOTAL	176,200	68	11,973,249	86	15,161,893	(3,188,644)	(27%)

ASF = Assignable Square Feet



Space Analysis by Space Category

SECTION 5 APPLICATION OF SPACE NEEDS MODEL BY SPACE CATEGORY

The consultant applied the recommended guidelines to each of the categories of space to calculate space requirements. The space needs were calculated for the existing space in 2010 and again for future space needs using the high and low estimates of the range of student enrollment growth, faculty and staff increases, and planned pipeline space adjustments.

Classroom & Service

UTAH SYSTEM OF HIGHER EDUCATION

Classroom 100 Space Needs Analysis

Classroom Space	2010						
	Fall 2010 Student FTE	Existing ASF/ FTE	Existing ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	6,267	11	67,332	11	61,354	5,978	9%
Salt Lake Community College	18,326	12	212,052	12	191,323	20,729	10%
Snow College	3,415	13	45,423	13	42,619	2,804	6%
Southern Utah University	6,609	11	70,873	11	63,975	6,898	10%
University of Utah	25,879	9	220,708	10	240,675	(19,967)	(9%)
Utah State University	18,689	11	207,897	10	143,905	63,992	31%
Utah State University - CEU	1,772	28	49,049	13	19,350	29,699	61%
Utah Valley University	21,825	6	140,117	11	201,663	(61,546)	(44%)
Weber State University	15,555	11	174,253	11	143,728	30,525	18%
TOTAL	118,337	10	1,187,704		1,108,593	79,111	7%

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Classroom 100 Space Needs Analysis

Classroom Space	2020						
	LOW Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	9,800	11	105,963	11	86,240	19,723	19%
Salt Lake Community College	21,700	11	236,619	12	221,340	15,279	6%
Snow College	5,600	11	61,229	12	60,480	749	1%
Southern Utah University	8,000	9	70,873	11	74,800	(3,927)	(6%)
University of Utah	26,200	10	269,563	10	235,800	33,763	13%
Utah State University	18,400	12	228,340	10	138,000	90,340	40%
Utah State University - CEU	2,900	17	49,049	12	27,840	21,209	43%
Utah Valley University	31,400	6	173,010	11	276,320	(103,310)	(60%)
Weber State University	20,100	9	190,582	11	176,880	13,702	7%
TOTAL	144,100	10	1,385,228		1,297,700	87,528	6%

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Classroom 100 Space Needs Analysis

Classroom Space	2020						
	HIGH Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	12,000	9	105,963	11	105,600	363	0%
Salt Lake Community College	26,600	9	236,619	12	271,320	(34,701)	(15%)
Snow College	6,900	9	61,229	12	74,520	(13,291)	(22%)
Southern Utah University	9,800	7	70,873	11	91,630	(20,757)	(29%)
University of Utah	32,000	8	269,563	10	288,000	(18,437)	(7%)
Utah State University	22,500	10	228,340	10	168,750	59,590	26%
Utah State University - CEU	3,500	14	49,049	12	33,600	15,449	31%
Utah Valley University	38,400	5	173,010	11	337,920	(164,910)	(95%)
Weber State University	24,500	8	190,582	11	215,600	(25,018)	(13%)
TOTAL	176,200	8	1,385,228		1,586,940	(201,712)	(15%)

ASF = Assignable Square Feet

General Education Teaching Laboratories & Service

UTAH SYSTEM OF HIGHER EDUCATION

Teaching Laboratory 210 (Gen Ed) Space Needs Analysis

Teaching Laboratory	2010						
	Fall 2010 Student FTE	Existing ASF/ FTE	Existing ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	6,267	8	49,412	13	72,509	(23,097)	(47%)
Salt Lake Community College	18,326	16	293,153	15	239,154	53,999	18%
Snow College	3,415	18	61,689	16	52,454	9,235	15%
Southern Utah University	6,609	10	67,711	13	75,607	(7,896)	(12%)
University of Utah	25,879	8	205,407	11	264,742	(59,335)	(29%)
Utah State University	18,689	8	143,148	11	158,296	(15,148)	(11%)
Utah State University - CEU	1,772	23	41,331	16	23,816	17,515	42%
Utah Valley University	21,825	10	228,889	12	219,996	8,893	4%
Weber State University	15,555	10	156,157	12	156,794	(637)	(0%)
TOTAL	118,337	11	1,246,897		1,263,369	(16,472)	(1%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Teaching Laboratory 210 (Gen Ed) Space Needs Analysis

Teaching Laboratory	2020						
	LOW Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	9,800	7	68,716	12	94,080	(25,364)	(37%)
Salt Lake Community College	21,700	14	297,480	15	276,675	20,805	7%
Snow College	5,600	12	68,018	15	75,600	(7,582)	(11%)
Southern Utah University	8,000	11	90,952	13	88,400	2,552	3%
University of Utah	26,200	9	229,835	11	259,380	(29,545)	(13%)
Utah State University	18,400	8	149,708	11	151,800	(2,092)	(1%)
Utah State University - CEU	2,900	14	41,331	15	34,800	6,531	16%
Utah Valley University	31,400	9	290,281	12	301,440	(11,159)	(4%)
Weber State University	20,100	9	172,598	12	192,960	(20,362)	(12%)
TOTAL	144,100	10	1,408,919		1,475,135	(66,216)	(5%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Teaching Laboratory 210 (Gen Ed) Space Needs Analysis

Teaching Laboratory	2020						
	HIGH Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	12,000	6	68,716	12	115,200	(46,484)	(68%)
Salt Lake Community College	26,600	11	297,480	15	339,150	(41,670)	(14%)
Snow College	6,900	10	68,018	15	93,150	(25,132)	(37%)
Southern Utah University	9,800	9	90,952	13	108,290	(17,338)	(19%)
University of Utah	32,000	7	229,835	11	316,800	(86,965)	(38%)
Utah State University	22,500	7	149,708	11	185,625	(35,917)	(24%)
Utah State University - CEU	3,500	12	41,331	15	42,000	(669)	(2%)
Utah Valley University	38,400	8	290,281	12	368,640	(78,359)	(27%)
Weber State University	24,500	7	172,598	12	235,200	(62,602)	(36%)
TOTAL	176,200	8	1,408,919		1,804,055	(395,136)	(28%)

ASF = Assignable Square Feet

Automotive and Construction Trades Vocational/Technical Teaching Laboratories & Service

UTAH SYSTEM OF HIGHER EDUCATION

Teaching Laboratory 210 (Auto/Construction) Space Needs Analysis

Auto/Const Laboratory	Fall 2010 Student FTE	Existing ASF/ FTE	Existing ASF	2010		ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
				Guideline ASF/FTE Applied	Guideline ASF		
Institution							
Salt Lake Community College	18,326	5	92,229	5	79,718	12,511	14%
Snow College	3,415	17	59,745	6	19,670	40,075	67%
Utah State University - CEU	1,772	12	20,693	6	8,931	11,762	57%
Utah Valley University	21,825	2	40,831	2	36,666	4,165	10%
Weber State University	15,555	3	51,386	3	39,199	12,187	24%
TOTAL	118,337	2	264,884		184,184	80,700	30%

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Teaching Laboratory 210 (Auto/Construction) Space Needs Analysis

Auto/Const Laboratory	LOW Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	2020		ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
				Guideline ASF/FTE Applied	Guideline ASF		
Institution							
Salt Lake Community College	21,700	4	92,229	5	92,225	4	0%
Snow College	5,600	11	59,745	5	25,200	34,545	58%
Utah State University - CEU	2,900	7	20,693	5	11,600	9,093	44%
Utah Valley University	31,400	1	40,831	1	25,120	15,711	38%
Weber State University	20,100	3	51,386	3	48,240	3,146	6%
TOTAL	144,100	2	264,884		202,385	62,499	24%

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Teaching Laboratory 210 (Auto/Construction) Space Needs Analysis

Auto/Const Laboratory	HIGH Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	2020		ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
				Guideline ASF/FTE Applied	Guideline ASF		
Institution							
Salt Lake Community College	26,600	3	92,229	5	113,050	(20,821)	(23%)
Snow College	6,900	9	59,745	5	31,050	28,695	48%
Utah State University - CEU	3,500	6	20,693	5	14,000	6,693	32%
Utah Valley University	38,400	1	40,831	1	30,720	10,111	25%
Weber State University	24,500	2	51,386	3	58,800	(7,414)	(14%)
TOTAL	176,200	2	264,884		247,620	17,264	7%

ASF = Assignable Square Feet

Open Laboratories & Service

UTAH SYSTEM OF HIGHER EDUCATION

Open Laboratory 220 Space Needs Analysis

Open Laboratory	Fall 2010 Student FTE	Existing ASF/ FTE	Existing ASF	2010		ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
				Guideline ASF/FTE Applied	Guideline ASF		
Institution							
Dixie State College	6,267	5	28,668	6	37,602	(8,934)	(31%)
Salt Lake Community College	18,326	2	28,551	5	91,630	(63,079)	(221%)
Snow College	3,415	13	45,179	7	23,905	21,274	47%
Southern Utah University	6,609	9	58,219	6	39,654	18,565	32%
University of Utah	25,879	8	212,079	8	207,032	5,047	2%
Utah State University	18,689	7	131,996	8	149,512	(17,516)	(13%)
Utah State University - CEU	1,772	10	16,858	8	14,176	2,682	16%
Utah Valley University	21,825	1	26,624	5	109,125	(82,501)	(310%)
Weber State University	15,555	3	53,755	5	77,775	(24,020)	(45%)
TOTAL	118,337	5	601,929		750,411	(148,482)	(25%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Open Laboratory 220 Space Needs Analysis

Open Laboratory	LOW Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	2020		ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
				Guideline ASF/FTE Applied	Guideline ASF		
Institution							
Dixie State College	9,800	3	26,714	5	49,000	(22,286)	(83%)
Salt Lake Community College	21,700	1	24,921	5	108,500	(83,579)	(335%)
Snow College	5,600	9	52,179	6	33,600	18,579	36%
Southern Utah University	8,000	7	58,219	6	48,000	10,219	18%
University of Utah	26,200	8	212,079	8	209,600	2,479	1%
Utah State University	18,400	7	131,753	8	147,200	(15,447)	(12%)
Utah State University - CEU	2,900	6	16,858	7	20,300	(3,442)	(20%)
Utah Valley University	31,400	1	25,824	5	157,000	(131,176)	(508%)
Weber State University	20,100	3	53,755	5	100,500	(46,745)	(87%)
TOTAL	144,100	4	602,302		873,700	(271,398)	(45%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Open Laboratory 220 Space Needs Analysis

Open Laboratory	HIGH Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	2020		ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
				Guideline ASF/FTE Applied	Guideline ASF		
Institution							
Dixie State College	12,000	2	26,714	5	60,000	(33,286)	(125%)
Salt Lake Community College	26,600	1	24,921	5	133,000	(108,079)	(434%)
Snow College	6,900	8	52,179	6	41,400	10,779	21%
Southern Utah University	9,800	6	58,219	6	58,800	(581)	(1%)
University of Utah	32,000	7	212,079	8	256,000	(43,921)	(21%)
Utah State University	22,500	6	131,753	8	180,000	(48,247)	(37%)
Utah State University - CEU	3,500	5	16,858	7	24,500	(7,642)	(45%)
Utah Valley University	38,400	1	25,824	5	192,000	(166,176)	(643%)
Weber State University	24,500	2	53,755	5	122,500	(68,745)	(128%)
TOTAL	176,200	3	602,302		1,068,200	(465,898)	(77%)

ASF = Assignable Square Feet

Research Laboratories & Service

UTAH SYSTEM OF HIGHER EDUCATION

Research Laboratory 250 Space Needs Analysis

Research Laboratory	2010						
	Fall 2010 Faculty FTE	Existing ASF/ FTE	Existing ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
University of Utah	1,156	454	524,923	475	549,100	(24,177)	(5%)
Utah State University	1,008	446	449,378	475	478,800	(29,422)	(7%)
Weber State University	465	36	16,594	35	16,275	319	2%
TOTAL	4,150	239	990,895		1,044,175	(53,280)	(5%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Research Laboratory 250 Space Needs Analysis

Research Laboratory	2020						
	LOW Estimated 2020 Faculty FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
University of Utah	1,170	505	591,316	475	555,911	35,405	6%
Utah State University	992	462	458,137	475	471,396	(13,259)	(3%)
Weber State University	601	28	16,594	35	21,030	(4,436)	(27%)
TOTAL	4,858	219	1,066,047		1,048,337	17,710	2%

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Research Laboratory 250 Space Needs Analysis

Research Laboratory	2020						
	HIGH Estimated 2020 Faculty FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
University of Utah	1,429	414	591,316	475	678,975	(87,659)	(15%)
Utah State University	1,214	378	458,137	475	576,435	(118,298)	(26%)
Weber State University	732	23	16,594	35	25,634	(9,040)	(54%)
TOTAL	5,938	180	1,066,047		1,281,045	(214,998)	(20%)

ASF = Assignable Square Feet

Office & Service

UTAH SYSTEM OF HIGHER EDUCATION

Office and Service 300 Space Needs Analysis

Office & Service Space	Fall 2010 Faculty and Staff FTE	Existing ASF/ FTE	2010				ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
			Existing ASF	Guideline ASF/FTE Applied	Guideline ASF			
Institution								
Dixie State College	409	223	91,334	170	69,530	21,804	24%	
Salt Lake Community College	1,743	142	247,453	150	261,450	(13,997)	(6%)	
Snow College	256	286	73,334	150	38,400	34,934	48%	
Southern Utah University	825	151	124,220	170	140,250	(16,030)	(13%)	
University of Utah	5,219	216	1,128,241	195	1,017,705	110,536	10%	
Utah State University	3,597	191	688,599	195	701,415	(12,816)	(2%)	
Utah State University - CEU	238	205	48,746	150	35,700	13,046	27%	
Utah Valley University	2,056	152	312,629	170	349,520	(36,891)	(12%)	
Weber State University	1,624	169	274,176	170	276,080	(1,904)	(1%)	
TOTAL	15,967	187	2,988,732		2,890,050	98,682	3%	

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Office and Service 300 Space Needs Analysis

Office & Service Space	LOW Estimated 2020 Faculty and Staff FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	2020		ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	
				Guideline ASF/FTE Applied	Guideline ASF			
Institution								
Dixie State College	570	206	117,131	170	96,891	20,240	17%	
Salt Lake Community College	1,940	137	265,343	150	291,055	(25,712)	(10%)	
Snow College	376	202	75,837	150	56,395	19,442	26%	
Southern Utah University	936	143	134,123	170	159,196	(25,073)	(19%)	
University of Utah	5,259	224	1,179,855	195	1,025,415	154,440	13%	
Utah State University	3,561	198	705,202	195	694,472	10,730	2%	
Utah State University - CEU	341	143	48,746	170	57,991	(9,245)	(19%)	
Utah Valley University	2,621	129	336,967	170	445,544	(108,577)	(32%)	
Weber State University	1,929	149	288,065	170	327,963	(39,898)	(14%)	
TOTAL	17,534	180	3,151,269		3,154,922	(3,653)	(0%)	

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Office and Service 300 Space Needs Analysis

Office & Service Space	HIGH Estimated 2020 Faculty and Staff FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	2020		ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	
				Guideline ASF/FTE Applied	Guideline ASF			
Institution								
Dixie State College	670	175	117,131	170	113,929	3,202	3%	
Salt Lake Community College	2,227	119	265,343	150	334,050	(68,707)	(26%)	
Snow College	447	170	75,837	150	67,102	8,735	12%	
Southern Utah University	1,081	124	134,123	170	183,712	(49,589)	(37%)	
University of Utah	5,973	198	1,179,855	195	1,164,719	15,136	1%	
Utah State University	4,067	173	705,202	195	792,971	(87,769)	(12%)	
Utah State University - CEU	396	123	48,746	170	67,316	(18,570)	(38%)	
Utah Valley University	3,034	111	336,967	170	515,745	(178,778)	(53%)	
Weber State University	2,225	129	288,065	170	378,190	(90,125)	(31%)	
TOTAL	20,119	157	3,151,269		3,617,733	(466,464)	(15%)	

ASF = Assignable Square Feet

Library & Study

UTAH SYSTEM OF HIGHER EDUCATION

Library and Study 400 Space Needs Analysis

Library and Study	2010						
	Fall 2010 Student FTE	Existing ASF/ FTE	Existing ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	6,267	4	24,272	7	43,869	(19,597)	(81%)
Salt Lake Community College	18,326	3	51,878	4	73,304	(21,426)	(41%)
Snow College	3,415	8	26,507	6	20,490	6,017	23%
Southern Utah University	6,609	9	61,403	7	46,263	15,140	25%
University of Utah	25,879	14	360,703	12	310,548	50,155	14%
Utah State University	18,689	11	198,239	12	224,268	(26,029)	(13%)
Utah State University - CEU	1,772	13	23,031	7	15,000	8,031	35%
Utah Valley University	21,825	6	122,429	7	152,775	(30,346)	(25%)
Weber State University	15,555	8	117,696	7	108,885	8,811	7%
TOTAL	118,337	8	986,158		995,402	(9,244)	(1%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Library and Study 400 Space Needs Analysis

Library and Study	2020						
	LOW Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	9,800	5	53,700	7	68,600	(14,900)	(28%)
Salt Lake Community College	21,700	2	47,018	4	86,800	(39,782)	(85%)
Snow College	5,600	4	24,963	5	28,000	(3,037)	(12%)
Southern Utah University	8,000	8	61,713	7	56,000	5,713	9%
University of Utah	26,200	14	365,041	12	314,400	50,641	14%
Utah State University	18,400	12	214,054	12	220,800	(6,746)	(3%)
Utah State University - CEU	2,900	8	23,031	9	26,100	(3,069)	(13%)
Utah Valley University	31,400	4	127,429	7	219,800	(92,371)	(72%)
Weber State University	20,100	6	118,207	7	140,700	(22,493)	(19%)
TOTAL	144,100	7	1,035,156		1,161,200	(126,044)	(12%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Library and Study 400 Space Needs Analysis

Library and Study	2020						
	HIGH Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	12,000	4	53,700	7	84,000	(30,300)	(56%)
Salt Lake Community College	26,600	2	47,018	4	106,400	(59,382)	(126%)
Snow College	6,900	4	24,963	5	34,500	(9,537)	(38%)
Southern Utah University	9,800	6	61,713	7	68,600	(6,887)	(11%)
University of Utah	32,000	11	365,041	12	384,000	(18,959)	(5%)
Utah State University	22,500	10	214,054	12	270,000	(55,946)	(26%)
Utah State University - CEU	3,500	7	23,031	9	31,500	(8,469)	(37%)
Utah Valley University	38,400	3	127,429	7	268,800	(141,371)	(111%)
Weber State University	24,500	5	118,207	7	171,500	(53,293)	(45%)
TOTAL	176,200	6	1,035,156		1,419,300	(384,144)	(37%)

ASF = Assignable Square Feet

Physical Education/Recreation/Athletics

UTAH SYSTEM OF HIGHER EDUCATION

Physical Education 520 Space Needs Analysis

Physical Education	2010					
	Fall 2010 Student FTE	Existing ASF/FTE	Existing ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline
Institution						
Dixie State College	6,267	4	24,015	4	35,000	(10,985)
Salt Lake Community College	18,326	8	148,357	3	54,978	93,379
Snow College	3,415	18	62,827	4	35,000	27,827
Southern Utah University	6,609	11	69,611	4	35,000	34,611
University of Utah	25,879	2	45,454	3	77,637	(32,183)
Utah State University	18,689	3	57,698	3	56,067	1,631
Utah State University - CEU	1,772	1	1,855	4	35,000	(33,145)
Utah Valley University	21,825	3	70,018	3	65,475	4,543
Weber State University	15,555	5	77,942	3	46,665	31,277
TOTAL	118,337	5	557,777		440,822	116,955

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Physical Education 520 Space Needs Analysis

Physical Education	2020					
	LOW Estimated 2020 Student FTE	Estimated ASF/FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline
Institution						
Dixie State College	9,800	2	24,015	4	39,200	(15,185)
Salt Lake Community College	21,700	5	110,043	3	65,100	44,943
Snow College	5,600	11	62,827	4	35,000	27,827
Southern Utah University	8,000	9	69,611	4	35,000	34,611
University of Utah	26,200	2	45,454	3	78,600	(33,146)
Utah State University	18,400	3	57,698	3	55,200	2,498
Utah State University - CEU	2,900	1	1,855	4	35,000	(33,145)
Utah Valley University	31,400	2	70,018	3	94,200	(24,182)
Weber State University	20,100	4	79,942	3	60,300	19,642
TOTAL	144,100	4	521,463		497,600	23,863

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION

Physical Education 520 Space Needs Analysis

Physical Education	2020					
	HIGH Estimated 2020 Student FTE	Estimated ASF/FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline
Institution						
Dixie State College	12,000	2	24,015	4	48,000	(23,985)
Salt Lake Community College	26,600	4	110,043	3	79,800	30,243
Snow College	6,900	9	62,827	4	35,000	27,827
Southern Utah University	9,800	7	69,611	4	35,000	34,611
University of Utah	32,000	1	45,454	3	96,000	(50,546)
Utah State University	22,500	3	57,698	3	67,500	(9,802)
Utah State University - CEU	3,500	1	1,855	4	35,000	(33,145)
Utah Valley University	38,400	2	70,018	3	115,200	(45,182)
Weber State University	24,500	3	79,942	3	73,500	6,442
TOTAL	176,200	3	521,463		585,000	(63,537)

ASF = Assignable Square Feet

Note: The right hand columns showing percent over/under guideline have been removed. See Section 3.

Special Use Facilities

UTAH SYSTEM OF HIGHER EDUCATION Special Use 500 Space Needs Analysis

Special Use	2010						
	Fall 2010 Student FTE	Existing ASF/ FTE	Existing ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	6,267	5	28,252	3	18,801	9,451	33%
Salt Lake Community College	18,326	1	26,830	3	54,978	(28,148)	(105%)
Snow College	3,415	5	16,052	3	10,245	5,807	36%
Southern Utah University	6,609	1	8,689	3	19,827	(11,138)	(128%)
University of Utah	25,879	4	99,814	3	77,637	22,177	22%
Utah State University	18,689	8	156,811	3	56,067	100,744	64%
Utah State University - CEU	1,772	1	2,270	3	5,316	(3,046)	(134%)
Utah Valley University	21,825	1	31,044	3	65,475	(34,431)	(111%)
Weber State University	15,555	2	31,216	3	46,665	(15,449)	(49%)
TOTAL	118,337	3	400,978		355,011	45,967	11%

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION Special Use 500 Space Needs Analysis

Special Use	2020						
	LOW Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	9,800	4	37,711	3	29,400	8,311	22%
Salt Lake Community College	21,700	1	27,341	3	65,100	(37,759)	(138%)
Snow College	5,600	3	19,223	3	16,800	2,423	13%
Southern Utah University	8,000	1	8,689	3	24,000	(15,311)	(176%)
University of Utah	26,200	4	113,016	3	78,600	34,416	30%
Utah State University	18,400	9	156,811	3	55,200	101,611	65%
Utah State University - CEU	2,900	1	2,270	3	8,700	(6,430)	(283%)
Utah Valley University	31,400	1	36,906	3	94,200	(57,294)	(155%)
Weber State University	20,100	3	57,440	3	60,300	(2,860)	(5%)
TOTAL	144,100	3	459,407		432,300	27,107	6%

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION Special Use 500 Space Needs Analysis

Special Use	2020						
	HIGH Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	12,000	3	37,711	3	36,000	1,711	5%
Salt Lake Community College	26,600	1	27,341	3	79,800	(52,459)	(192%)
Snow College	6,900	3	19,223	3	20,700	(1,477)	(8%)
Southern Utah University	9,800	1	8,689	3	29,400	(20,711)	(238%)
University of Utah	32,000	4	113,016	3	96,000	17,016	15%
Utah State University	22,500	7	156,811	3	67,500	89,311	57%
Utah State University - CEU	3,500	1	2,270	3	10,500	(8,230)	(363%)
Utah Valley University	38,400	1	36,906	3	115,200	(78,294)	(212%)
Weber State University	24,500	2	57,440	3	73,500	(16,060)	(28%)
TOTAL	176,200	3	459,407		528,600	(69,193)	(15%)

ASF = Assignable Square Feet

General Use Facilities

UTAH SYSTEM OF HIGHER EDUCATION General Use 600 Space Needs Analysis

General Use	2010						
	Fall 2010 Student FTE	Existing ASF/ FTE	Existing ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	6,267	11	69,341	11	68,937	404	1%
Salt Lake Community College	18,326	5	96,963	10	183,260	(86,297)	(89%)
Snow College	3,415	13	42,700	13	44,395	(1,695)	(4%)
Southern Utah University	6,609	16	106,507	11	72,699	33,808	32%
University of Utah	25,879	12	302,976	10	258,790	44,186	15%
Utah State University	18,689	10	181,670	10	186,890	(5,220)	(3%)
Utah State University - CEU	1,772	29	51,066	15	26,580	24,486	48%
Utah Valley University	21,825	8	177,291	10	218,250	(40,959)	(23%)
Weber State University	15,555	9	140,481	10	155,550	(15,069)	(11%)
TOTAL	118,337	10	1,168,995		1,215,351	(46,356)	(4%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION General Use 600 Space Needs Analysis

General Use	2020						
	LOW Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	9,800	7	71,267	10	98,000	(26,733)	(38%)
Salt Lake Community College	21,700	5	112,799	10	217,000	(104,201)	(92%)
Snow College	5,600	8	46,564	11	61,600	(15,036)	(32%)
Southern Utah University	8,000	14	108,387	11	88,000	20,387	19%
University of Utah	26,200	12	308,736	10	262,000	46,736	15%
Utah State University	18,400	10	189,795	10	184,000	5,795	3%
Utah State University - CEU	2,900	18	51,066	13	37,700	13,366	26%
Utah Valley University	31,400	6	175,093	10	314,000	(138,907)	(79%)
Weber State University	20,100	7	144,644	10	201,000	(56,356)	(39%)
TOTAL	144,100	8	1,208,351		1,463,300	(254,949)	(21%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION General Use 600 Space Needs Analysis

General Use	2020						
	HIGH Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	Guideline ASF/FTE Applied	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Institution							
Dixie State College	12,000	6	71,267	10	120,000	(48,733)	(68%)
Salt Lake Community College	26,600	4	112,799	10	266,000	(153,201)	(136%)
Snow College	6,900	7	46,564	11	75,900	(29,336)	(63%)
Southern Utah University	9,800	11	108,387	11	107,800	587	1%
University of Utah	32,000	10	308,736	10	320,000	(11,264)	(4%)
Utah State University	22,500	8	189,795	10	225,000	(35,205)	(19%)
Utah State University - CEU	3,500	15	51,066	13	45,500	5,566	11%
Utah Valley University	38,400	5	175,093	10	384,000	(208,907)	(119%)
Weber State University	24,500	6	144,644	10	245,000	(100,356)	(69%)
TOTAL	176,200	7	1,208,351		1,789,200	(580,849)	(48%)

ASF = Assignable Square Feet

Support Facilities

UTAH SYSTEM OF HIGHER EDUCATION Support 700 Space Needs Analysis

Support	Fall 2010 Student FTE	Existing ASF/ FTE	Existing ASF	2010		ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
				Guideline ASF/FTE Applied	Guideline ASF		
Institution							
Dixie State College	6,267	4	22,228	6	37,602	(15,374)	(69%)
Salt Lake Community College	18,326	4	80,923	4	73,304	7,619	9%
Snow College	3,415	4	13,995	4	13,660	335	2%
Southern Utah University	6,609	9	57,646	6	39,654	17,992	31%
University of Utah	25,879	8	211,534	8	207,032	4,502	2%
Utah State University	18,689	14	258,793	14	261,646	(2,853)	(1%)
Utah State University - CEU	1,772	19	32,872	4	7,088	25,784	78%
Utah Valley University	21,825	4	76,902	6	130,950	(54,048)	(70%)
Weber State University	15,555	5	74,399	6	93,330	(18,931)	(25%)
TOTAL	118,337	7	829,292		864,266	(34,974)	(4%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION Support 700 Space Needs Analysis

Support	LOW Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	2020		ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
				Guideline ASF/FTE Applied	Guideline ASF		
Institution							
Dixie State College	9,800	3	25,199	6	58,800	(33,601)	(133%)
Salt Lake Community College	21,700	4	93,908	4	86,800	7,108	8%
Snow College	5,600	3	19,341	4	22,400	(3,059)	(16%)
Southern Utah University	8,000	7	57,646	6	48,000	9,646	17%
University of Utah	26,200	8	212,499	8	209,600	2,899	1%
Utah State University	18,400	14	260,793	14	257,600	3,193	1%
Utah State University - CEU	2,900	11	32,872	6	17,400	15,472	47%
Utah Valley University	31,400	3	81,902	6	188,400	(106,498)	(130%)
Weber State University	20,100	4	86,063	6	120,600	(34,537)	(40%)
TOTAL	144,100	6	870,223		1,009,600	(139,377)	(16%)

ASF = Assignable Square Feet

UTAH SYSTEM OF HIGHER EDUCATION Support 700 Space Needs Analysis

Support	HIGH Estimated 2020 Student FTE	Estimated ASF/ FTE	Existing and Pipeline ASF	2020		ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
				Guideline ASF/FTE Applied	Guideline ASF		
Institution							
Dixie State College	12,000	2	25,199	6	72,000	(46,801)	(186%)
Salt Lake Community College	26,600	4	93,908	4	106,400	(12,492)	(13%)
Snow College	6,900	3	19,341	4	27,600	(8,259)	(43%)
Southern Utah University	9,800	6	57,646	6	58,800	(1,154)	(2%)
University of Utah	32,000	7	212,499	8	256,000	(43,501)	(20%)
Utah State University	22,500	12	260,793	14	315,000	(54,207)	(21%)
Utah State University - CEU	3,500	9	32,872	6	21,000	11,872	36%
Utah Valley University	38,400	2	81,902	6	230,400	(148,498)	(181%)
Weber State University	24,500	4	86,063	6	147,000	(60,937)	(71%)
TOTAL	176,200	5	870,223		1,234,200	(363,977)	(42%)

ASF = Assignable Square Feet



Application of Space Needs Model by Institution

SECTION 6 APPLICATION OF SPACE NEEDS MODEL BY INSTITUTION

The consultant summarized the facilities data for all the campuses to illustrate the existing space by institution. The consultant then applied the recommended guidelines to each of the institutions to calculate space needed and to compare that back to the existing space.

The application and review of the guidelines in relation to existing space at the statewide level shows the various needs that may exist at a very global level. The application of space guidelines is to provide comparative information of need for the various institutions and campuses in the state. It is not intended to be a detailed program of space.

When looking at the analysis by institution, it should be remembered that the information presented is at an institution level, not a detailed program level. The space guidelines applied here are a model to be used for the calculation of objective space needs and a means for USHE to prioritize the planning of capital projects. The calculations resulting from the model are not a substitute for campus master planning and program planning nor are they an entitlement for the individual institutions.

University of Utah

UNIVERSITY OF UTAH

Space Needs Analysis

SPACE CATEGORY	2010				2,020				2,020			
	Existing ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
	Student FTE = 25,879 Distance Ed FTE = 7% Non Distance Ed FTE = 93% Faculty FTE = 1,156 Staff FTE = 5,219				LOW Estimate Student FTE = 26,200 Distance Ed FTE = 10% Non Distance Ed FTE = 90% Faculty FTE = 1,170 Staff FTE = 5,259				HIGH Estimate Student FTE = 32,000 Distance Ed FTE = 10% Non Distance Ed FTE = 90% Faculty FTE = 1,429 Staff FTE = 5,973			
Academic Space												
Classroom & Service <i>10 ASF/FTE student</i>	220,708	240,675	(19,967)	(9%)	269,563	235,800	33,763	13%	269,563	288,000	(18,437)	(7%)
Teaching Laboratories & Service <i>11 ASF/FTE student</i>	205,407	264,742	(59,335)	(29%)	229,835	259,380	(29,545)	(13%)	229,835	316,800	(86,965)	(38%)
Open Laboratories & Service <i>8 ASF/FTE student</i>	212,079	207,032	5,047	2%	212,079	209,600	2,479	1%	212,079	256,000	(43,921)	(21%)
Research Laboratories & Service <i>475 ASF/FTE faculty</i>	524,923	549,100	(24,177)	(5%)	591,316	555,911	35,405	6%	591,316	678,975	(87,659)	(15%)
Offices & Service <i>195 ASF/FTE faculty and staff</i>	1,128,241	1,017,705	110,536	10%	1,179,855	1,025,415	154,440	13%	1,179,855	1,164,719	15,136	1%
Library & Study <i>12 ASF/FTE student</i>	360,703	310,548	50,155	14%	365,041	314,400	50,641	14%	365,041	384,000	(18,959)	(5%)
Physical Education <i>3 ASF/FTE student</i>	45,454	77,637	(32,183)	(71%)	45,454	78,600	(33,146)	(73%)	45,454	96,000	(50,546)	(111%)
<i>Academic Subtotal</i>	<i>2,697,515</i>	<i>2,667,439</i>	<i>30,076</i>	<i>1%</i>	<i>2,893,143</i>	<i>2,679,106</i>	<i>214,037</i>	<i>7%</i>	<i>2,893,143</i>	<i>3,184,495</i>	<i>(291,352)</i>	<i>(10%)</i>
Academic Support Space												
Special Use Facilities <i>3 ASF/FTE student</i>	99,814	77,637	22,177	22%	113,016	78,600	34,416	30%	113,016	96,000	17,016	15%
General Use Facilities <i>10 ASF/FTE student</i>	302,976	258,790	44,186	15%	308,736	262,000	46,736	15%	308,736	320,000	(11,264)	(4%)
Support Facilities <i>8 ASF/FTE student</i>	211,534	207,032	4,502	2%	212,499	209,600	2,899	1%	212,499	256,000	(43,501)	(20%)
<i>Academic Support Subtotal</i>	<i>614,324</i>	<i>543,459</i>	<i>70,865</i>	<i>12%</i>	<i>634,251</i>	<i>550,200</i>	<i>84,051</i>	<i>13%</i>	<i>634,251</i>	<i>672,000</i>	<i>(37,749)</i>	<i>(6%)</i>
TOTAL	3,311,839	3,210,898	100,941	3%	3,527,394	3,229,306	298,088	8%	3,527,394	3,856,495	(329,101)	(9%)

ASF = Assignable Square Feet

Utah State University

UTAH STATE UNIVERSITY

Space Needs Analysis

SPACE CATEGORY	2010				2,020				2,020			
	Existing ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
	Student FTE = 18,689 Distance Ed FTE = 23% Non Distance Ed FTE = 77% Faculty FTE = 1,008 Staff FTE = 3,597				LOW Estimate Student FTE = 18,400 Distance Ed FTE = 25% Non Distance Ed FTE = 75% Faculty FTE = 992 Staff FTE = 3,561				HIGH Estimate Student FTE = 22,500 Distance Ed FTE = 25% Non Distance Ed FTE = 75% Faculty FTE = 1,214 Staff FTE = 4,067			
Academic Space												
Classroom & Service <i>10 ASF/FTE student</i>	207,897	143,905	63,992	31%	228,340	138,000	90,340	40%	228,340	168,750	59,590	26%
Teaching Laboratories & Service <i>11 ASF/FTE student</i>	143,148	158,296	(15,148)	(11%)	149,708	151,800	(2,092)	(1%)	149,708	185,625	(35,917)	(24%)
Open Laboratories & Service <i>8 ASF/FTE student</i>	131,996	149,512	(17,516)	(13%)	131,753	147,200	(15,447)	(12%)	131,753	180,000	(48,247)	(37%)
Research Laboratories & Service <i>475 ASF/FTE faculty</i>	449,378	478,800	(29,422)	(7%)	458,137	471,396	(13,259)	(3%)	458,137	576,435	(118,298)	(26%)
Offices & Service <i>195 ASF/FTE faculty and staff</i>	688,599	701,415	(12,816)	(2%)	705,202	694,472	10,730	2%	705,202	792,971	(87,769)	(12%)
Library & Study <i>12 ASF/FTE student</i>	198,239	224,268	(26,029)	(13%)	214,054	220,800	(6,746)	(3%)	214,054	270,000	(55,946)	(26%)
Physical Education <i>3 ASF/FTE student</i>	57,698	56,067	1,631	3%	57,698	55,200	2,498	4%	57,698	67,500	(9,802)	(17%)
<i>Academic Subtotal</i>	<i>1,876,955</i>	<i>1,912,263</i>	<i>(35,308)</i>	<i>(2%)</i>	<i>1,944,892</i>	<i>1,878,868</i>	<i>66,024</i>	<i>3%</i>	<i>1,944,892</i>	<i>2,241,281</i>	<i>(296,389)</i>	<i>(15%)</i>
Academic Support Space												
Special Use Facilities <i>3 ASF/FTE student</i>	156,811	56,067	100,744	64%	156,811	55,200	101,611	65%	156,811	67,500	89,311	57%
General Use Facilities <i>10 ASF/FTE student</i>	181,670	186,890	(5,220)	(3%)	189,795	184,000	5,795	3%	189,795	225,000	(35,205)	(19%)
Support Facilities <i>14 ASF/FTE student</i>	258,793	261,646	(2,853)	(1%)	260,793	257,600	3,193	1%	260,793	315,000	(54,207)	(21%)
<i>Academic Support Subtotal</i>	<i>597,274</i>	<i>504,603</i>	<i>92,671</i>	<i>16%</i>	<i>607,399</i>	<i>496,800</i>	<i>110,599</i>	<i>18%</i>	<i>607,399</i>	<i>607,500</i>	<i>(101)</i>	<i>(0%)</i>
TOTAL	2,474,229	2,416,866	57,363	2%	2,552,291	2,375,668	176,623	7%	2,552,291	2,848,781	(296,490)	(12%)

ASF = Assignable Square Feet

Utah State University-College of Eastern Utah

UTAH STATE UNIVERSITY - COLLEGE OF EASTERN UTAH
Space Needs Analysis

SPACE CATEGORY	2010				2,020				2,020			
	Existing ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
	Student FTE = 1,772 Distance Ed FTE = 16% Non Distance Ed FTE = 84% Faculty FTE = 86 Staff FTE = 238				LOW Estimate Student FTE = 2,900 Distance Ed FTE = 20% Non Distance Ed FTE = 80% Faculty FTE = 141 Staff FTE = 341				HIGH Estimate Student FTE = 3,500 Distance Ed FTE = 20% Non Distance Ed FTE = 80% Faculty FTE = 170 Staff FTE = 396			
Academic Space												
Classroom & Service <i>13 ASF/FTE student; 12 ASF/FTE student future</i>	49,049	19,350	29,699	61%	49,049	27,840	21,209	43%	49,049	33,600	15,449	31%
Teaching Laboratories & Service <i>16 ASF/FTE student; 15 ASF/FTE student future</i>	41,331	23,816	17,515	42%	41,331	34,800	6,531	16%	41,331	42,000	(669)	(2%)
Vo Tech Teaching Laboratories & Service <i>6 ASF/FTE student; 5 ASF/FTE student future</i>	20,693	8,931	11,762	57%	20,693	11,600	9,093	44%	20,693	14,000	6,693	32%
Open Laboratories & Service <i>8 ASF/FTE student; 7 ASF/FTE student future</i>	16,858	14,176	2,682	16%	16,858	20,300	(3,442)	(20%)	16,858	24,500	(7,642)	(45%)
Offices & Service <i>150 ASF/FTE fac & staff; 170 ASF/FTE fac & staff future</i>	48,746	35,700	13,046	27%	48,746	57,991	(9,245)	(19%)	48,746	67,316	(18,570)	(38%)
Library & Study <i>15,000 ASF minimum; 9 ASF/FTE student future</i>	23,031	15,000	8,031	35%	23,031	26,100	(3,069)	(13%)	23,031	31,500	(8,469)	(37%)
Physical Education <i>35,000 ASF minimum</i>	1,855	35,000	(33,145)	(1,787%)	1,855	35,000	(33,145)	(1,787%)	1,855	35,000	(33,145)	(1,787%)
<i>Academic Subtotal</i>	201,563	151,973	49,590	25%	201,563	213,631	(12,068)	(6%)	201,563	247,916	(46,353)	(23%)
Academic Support Space												
Special Use Facilities <i>3 ASF/FTE student</i>	2,270	5,316	(3,046)	(134%)	2,270	8,700	(6,430)	(283%)	2,270	10,500	(8,230)	(363%)
General Use Facilities <i>15 ASF/FTE student; 13 ASF/FTE student future</i>	51,066	26,580	24,486	48%	51,066	37,700	13,366	26%	51,066	45,500	5,566	11%
Support Facilities <i>4 ASF/FTE student; 6 ASF/FTE student future</i>	32,872	7,088	25,784	78%	32,872	17,400	15,472	47%	32,872	21,000	11,872	36%
<i>Academic Support Subtotal</i>	86,208	38,984	47,224	55%	86,208	63,800	22,408	26%	86,208	77,000	9,208	11%
TOTAL	287,771	190,957	96,814	34%	287,771	277,431	10,340	4%	287,771	324,916	(37,145)	(13%)

ASF = Assignable Square Feet

Weber State University

WEBER STATE UNIVERSITY
Space Needs Analysis

SPACE CATEGORY	2010				2,020				2,020			
	Existing ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
	Student FTE = 15,555 Distance Ed FTE = 16% Non Distance Ed FTE = 84% Faculty FTE = 465 Staff FTE = 1,624				LOW Estimate Student FTE = 20,100 Distance Ed FTE = 20% Non Distance Ed FTE = 80% Faculty FTE = 601 Staff FTE = 1,929				HIGH Estimate Student FTE = 24,500 Distance Ed FTE = 20% Non Distance Ed FTE = 80% Faculty FTE = 732 Staff FTE = 2,225			
Academic Space												
Classroom & Service <i>11 ASF/FTE student</i>	174,253	143,728	30,525	18%	190,582	176,880	13,702	7%	190,582	215,600	(25,018)	(13%)
Teaching Laboratories & Service <i>12 ASF/FTE student</i>	156,157	156,794	(637)	(0%)	172,598	192,960	(20,362)	(12%)	172,598	235,200	(62,602)	(36%)
Vo Tech Teaching Laboratories & Service <i>3 ASF/FTE student</i>	51,386	39,199	12,187	24%	51,386	48,240	3,146	6%	51,386	58,800	(7,414)	(14%)
Open Laboratories & Service <i>5 ASF/FTE student</i>	53,755	77,775	(24,020)	(45%)	53,755	100,500	(46,745)	(87%)	53,755	122,500	(68,745)	(128%)
Research Laboratories & Service <i>35 ASF/FTE faculty</i>	16,594	16,275	319	2%	16,594	21,030	(4,436)	(27%)	16,594	25,634	(9,040)	(54%)
Offices & Service <i>170 ASF/FTE faculty and staff</i>	274,176	276,080	(1,904)	(1%)	288,065	327,963	(39,898)	(14%)	288,065	378,190	(90,125)	(31%)
Library & Study <i>7 ASF/FTE student</i>	117,696	108,885	8,811	7%	118,207	140,700	(22,493)	(19%)	118,207	171,500	(53,293)	(45%)
Physical Education <i>3 ASF/FTE student</i>	77,942	46,665	31,277	40%	79,942	60,300	19,642	25%	79,942	73,500	6,442	8%
<i>Academic Subtotal</i>	<i>921,959</i>	<i>865,401</i>	<i>56,558</i>	<i>6%</i>	<i>971,129</i>	<i>1,068,573</i>	<i>(97,444)</i>	<i>(10%)</i>	<i>971,129</i>	<i>1,280,924</i>	<i>(309,795)</i>	<i>(32%)</i>
Academic Support Space												
Special Use Facilities <i>3 ASF/FTE student</i>	31,216	46,665	(15,449)	(49%)	57,440	60,300	(2,860)	(5%)	57,440	73,500	(16,060)	(28%)
General Use Facilities <i>10 ASF/FTE student</i>	140,481	155,550	(15,069)	(11%)	144,644	201,000	(56,356)	(39%)	144,644	245,000	(100,356)	(69%)
Support Facilities <i>6 ASF/FTE student</i>	74,399	93,330	(18,931)	(25%)	86,063	120,600	(34,537)	(40%)	86,063	147,000	(60,937)	(71%)
<i>Academic Support Subtotal</i>	<i>246,096</i>	<i>295,545</i>	<i>(49,449)</i>	<i>(20%)</i>	<i>288,147</i>	<i>381,900</i>	<i>(93,753)</i>	<i>(33%)</i>	<i>288,147</i>	<i>465,500</i>	<i>(177,353)</i>	<i>(62%)</i>
TOTAL	1,168,055	1,160,946	7,109	1%	1,259,276	1,450,473	(191,197)	(15%)	1,259,276	1,746,424	(487,148)	(39%)

ASF = Assignable Square Feet

Section 6
Application of Space
Model by Institution

Utah Valley University

UTAH VALLEY UNIVERSITY
Space Needs Analysis

SPACE CATEGORY	2010				2,020				2,020			
	Existing ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
	Student FTE = 21,825 Distance Ed FTE = 16% Non Distance Ed FTE = 84% Faculty FTE = 519 Staff FTE = 2,056				LOW Estimate Student FTE = 31,400 Distance Ed FTE = 20% Non Distance Ed FTE = 80% Faculty FTE = 747 Staff FTE = 2,621				HIGH Estimate Student FTE = 38,400 Distance Ed FTE = 20% Non Distance Ed FTE = 80% Faculty FTE = 913 Staff FTE = 3,034			
Academic Space												
Classroom & Service <i>11 ASF/FTE student</i>	140,117	201,663	(61,546)	(44%)	173,010	276,320	(103,310)	(60%)	173,010	337,920	(164,910)	(95%)
Teaching Laboratories & Service <i>12 ASF/FTE student</i>	228,889	219,996	8,893	4%	290,281	301,440	(11,159)	(4%)	290,281	368,640	(78,359)	(27%)
Vo Tech Teaching Laboratories & Service <i>2 ASF/FTE student, 1 ASF/FTE student future</i>	40,831	36,666	4,165	10%	40,831	25,120	15,711	38%	40,831	30,720	10,111	25%
Open Laboratories & Service <i>5 ASF/FTE student</i>	26,624	109,125	(82,501)	(310%)	25,824	157,000	(131,176)	(508%)	25,824	192,000	(166,176)	(643%)
Offices & Service <i>170 ASF/FTE faculty and staff</i>	312,629	349,520	(36,891)	(12%)	336,967	445,544	(108,577)	(32%)	336,967	515,745	(178,778)	(53%)
Library & Study <i>7 ASF/FTE student</i>	122,429	152,775	(30,346)	(25%)	127,429	219,800	(92,371)	(72%)	127,429	268,800	(141,371)	(111%)
Physical Education <i>3 ASF/FTE student</i>	70,018	65,475	4,543	6%	70,018	94,200	(24,182)	(35%)	70,018	115,200	(45,182)	(65%)
<i>Academic Subtotal</i>	<i>941,537</i>	<i>1,135,220</i>	<i>(193,683)</i>	<i>(21%)</i>	<i>1,064,360</i>	<i>1,519,424</i>	<i>(455,064)</i>	<i>(43%)</i>	<i>1,064,360</i>	<i>1,829,025</i>	<i>(764,665)</i>	<i>(72%)</i>
Academic Support Space												
Special Use Facilities <i>3 ASF/FTE student</i>	31,044	65,475	(34,431)	(111%)	36,906	94,200	(57,294)	(155%)	36,906	115,200	(78,294)	(212%)
General Use Facilities <i>10 ASF/FTE student</i>	177,291	218,250	(40,959)	(23%)	175,093	314,000	(138,907)	(79%)	175,093	384,000	(208,907)	(119%)
Support Facilities <i>6 ASF/FTE student</i>	76,902	130,950	(54,048)	(70%)	81,902	188,400	(106,498)	(130%)	81,902	230,400	(148,498)	(181%)
<i>Academic Support Subtotal</i>	<i>285,237</i>	<i>414,675</i>	<i>(129,438)</i>	<i>(45%)</i>	<i>293,901</i>	<i>596,600</i>	<i>(302,699)</i>	<i>(103%)</i>	<i>293,901</i>	<i>729,600</i>	<i>(435,699)</i>	<i>(148%)</i>
TOTAL	1,226,774	1,549,895	(323,121)	(26%)	1,358,261	2,116,024	(757,763)	(56%)	1,358,261	2,558,625	(1,200,364)	(88%)

ASF = Assignable Square Feet

Southern Utah University

SOUTHERN UTAH UNIVERSITY
Space Needs Analysis

SPACE CATEGORY	2010				2,020				2,020			
	Student FTE = 6,609				LOW Estimate Student FTE = 8,000				HIGH Estimate Student FTE = 9,800			
	Distance Ed FTE = 12%				Distance Ed FTE = 15%				Distance Ed FTE = 15%			
	Non Distance Ed FTE = 88%				Non Distance Ed FTE = 85%				Non Distance Ed FTE = 85%			
	Faculty FTE = 234				Faculty FTE = 283				Faculty FTE = 347			
	Staff FTE = 825				Staff FTE = 936				Staff FTE = 1,081			
	Existing ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Academic Space												
Classroom & Service <i>11 ASF/FTE student</i>	70,873	63,975	6,898	10%	70,873	74,800	(3,927)	(6%)	70,873	91,630	(20,757)	(29%)
Teaching Laboratories & Service <i>13 ASF/FTE student</i>	67,711	75,607	(7,896)	(12%)	90,952	88,400	2,552	3%	90,952	108,290	(17,338)	(19%)
Open Laboratories & Service <i>6 ASF/FTE student</i>	58,219	39,654	18,565	32%	58,219	48,000	10,219	18%	58,219	58,800	(581)	(1%)
Offices & Service <i>170 ASF/FTE faculty and staff</i>	124,220	140,250	(16,030)	(13%)	134,123	159,196	(25,073)	(19%)	134,123	183,712	(49,589)	(37%)
Library & Study <i>7 ASF/FTE student</i>	61,403	46,263	15,140	25%	61,713	56,000	5,713	9%	61,713	68,600	(6,887)	(11%)
Physical Education <i>4 ASF/FTE student</i>	69,611	35,000	34,611	50%	69,611	35,000	34,611	50%	69,611	35,000	34,611	50%
<i>Academic Subtotal</i>	<i>452,037</i>	<i>400,749</i>	<i>51,288</i>	<i>11%</i>	<i>485,491</i>	<i>461,396</i>	<i>24,095</i>	<i>5%</i>	<i>485,491</i>	<i>546,032</i>	<i>(60,541)</i>	<i>(12%)</i>
Academic Support Space												
Special Use Facilities <i>3 ASF/FTE student</i>	8,689	19,827	(11,138)	(128%)	8,689	24,000	(15,311)	(176%)	8,689	29,400	(20,711)	(238%)
General Use Facilities <i>11 ASF/FTE student</i>	106,507	72,699	33,808	32%	108,387	88,000	20,387	19%	108,387	107,800	587	1%
Support Facilities <i>6 ASF/FTE student</i>	57,646	39,654	17,992	31%	57,646	48,000	9,646	17%	57,646	58,800	(1,154)	(2%)
<i>Academic Support Subtotal</i>	<i>172,842</i>	<i>132,180</i>	<i>40,662</i>	<i>24%</i>	<i>174,722</i>	<i>160,000</i>	<i>14,722</i>	<i>8%</i>	<i>174,722</i>	<i>196,000</i>	<i>(21,278)</i>	<i>(12%)</i>
TOTAL	624,879	532,929	91,950	15%	660,213	621,396	38,817	6%	660,213	742,032	(81,819)	(12%)

ASF = Assignable Square Feet

Dixie State College

DIXIE STATE COLLEGE
Space Needs Analysis

SPACE CATEGORY	2010				2,020				2,020			
	Existing ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
	Student FTE = 6,267 Distance Ed FTE = 11% Non Distance Ed FTE = 89% Faculty FTE = 162 Staff FTE = 409				LOW Estimate Student FTE = 9,800 Distance Ed FTE = 20% Non Distance Ed FTE = 80% Faculty FTE = 253 Staff FTE = 570				HIGH Estimate Student FTE = 12,000 Distance Ed FTE = 20% Non Distance Ed FTE = 80% Faculty FTE = 310 Staff FTE = 670			
Academic Space												
Classroom & Service <i>11 ASF/FTE student</i>	67,332	61,354	5,978	9%	105,963	86,240	19,723	19%	105,963	105,600	363	0%
Teaching Laboratories & Service <i>13 ASF/FTE student; 12 ASF/FTE student future</i>	49,412	72,509	(23,097)	(47%)	68,716	94,080	(25,364)	(37%)	68,716	115,200	(46,484)	(68%)
Open Laboratories & Service <i>6 ASF/FTE student; 5 ASF/FTE student future</i>	28,668	37,602	(8,934)	(31%)	26,714	49,000	(22,286)	(83%)	26,714	60,000	(33,286)	(125%)
Offices & Service <i>170 ASF/FTE faculty and staff</i>	91,334	69,530	21,804	24%	117,131	96,891	20,240	17%	117,131	113,929	3,202	3%
Library & Study <i>7 ASF/FTE student</i>	24,272	43,869	(19,597)	(81%)	53,700	68,600	(14,900)	(28%)	53,700	84,000	(30,300)	(56%)
Physical Education <i>4 ASF/FTE student; 3 ASF/FTE student future</i>	24,015	35,000	(10,985)	(46%)	24,015	39,200	(15,185)	(63%)	24,015	48,000	(23,985)	(100%)
<i>Academic Subtotal</i>	285,033	319,864	(34,831)	(12%)	396,239	434,011	(37,772)	(10%)	396,239	526,729	(130,490)	(33%)
Academic Support Space												
Special Use Facilities <i>3 ASF/FTE student</i>	28,252	18,801	9,451	33%	37,711	29,400	8,311	22%	37,711	36,000	1,711	5%
General Use Facilities <i>11 ASF/FTE student; 10 ASF/FTE student future</i>	69,341	68,937	404	1%	71,267	98,000	(26,733)	(38%)	71,267	120,000	(48,733)	(68%)
Support Facilities <i>6 ASF/FTE student</i>	22,228	37,602	(15,374)	(69%)	25,199	58,800	(33,601)	(133%)	25,199	72,000	(46,801)	(186%)
<i>Academic Support Subtotal</i>	119,821	125,340	(5,519)	(5%)	134,177	186,200	(52,023)	(39%)	134,177	228,000	(93,823)	(70%)
TOTAL	404,854	445,204	(40,350)	(10%)	530,416	620,211	(89,795)	(17%)	530,416	754,729	(224,313)	(42%)

ASF = Assignable Square Feet

Salt Lake Community College

SALT LAKE COMMUNITY COLLEGE
Space Needs Analysis

SPACE CATEGORY	2010				2,020				2,020			
	Student FTE = 18,326 Distance Ed FTE = 13% Non Distance Ed FTE = 87% Faculty FTE = 401 Staff FTE = 1,743				LOW Estimate Student FTE = 21,700 Distance Ed FTE = 15% Non Distance Ed FTE = 85% Faculty FTE = 475 Staff FTE = 1,940				HIGH Estimate Student FTE = 26,600 Distance Ed FTE = 15% Non Distance Ed FTE = 85% Faculty FTE = 582 Staff FTE = 2,227			
	Existing ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
Academic Space												
Classroom & Service <i>12 ASF/FTE student</i>	212,052	191,323	20,729	10%	236,619	221,340	15,279	6%	236,619	271,320	(34,701)	(15%)
Teaching Laboratories & Service <i>15 ASF/FTE student</i>	293,153	239,154	53,999	18%	297,480	276,675	20,805	7%	297,480	339,150	(41,670)	(14%)
Vo Tech Teaching Laboratories & Service <i>5 ASF/FTE student</i>	92,229	79,718	12,511	14%	92,229	92,225	4	0%	92,229	113,050	(20,821)	(23%)
Open Laboratories & Service <i>5 ASF/FTE student</i>	28,551	91,630	(63,079)	(221%)	24,921	108,500	(83,579)	(335%)	24,921	133,000	(108,079)	(434%)
Offices & Service <i>150 ASF/FTE faculty and staff</i>	247,453	261,450	(13,997)	(6%)	265,343	291,055	(25,712)	(10%)	265,343	334,050	(68,707)	(26%)
Library & Study <i>4 ASF/FTE student</i>	51,878	73,304	(21,426)	(41%)	47,018	86,800	(39,782)	(85%)	47,018	106,400	(59,382)	(126%)
Physical Education <i>3 ASF/FTE student</i>	148,357	54,978	93,379	63%	110,043	65,100	44,943	41%	110,043	79,800	30,243	27%
<i>Academic Subtotal</i>	<i>1,073,673</i>	<i>991,558</i>	<i>82,115</i>	<i>8%</i>	<i>1,073,653</i>	<i>1,141,695</i>	<i>(68,042)</i>	<i>(6%)</i>	<i>1,073,653</i>	<i>1,376,770</i>	<i>(303,117)</i>	<i>(28%)</i>
Academic Support Space												
Special Use Facilities <i>3 ASF/FTE student</i>	26,830	54,978	(28,148)	(105%)	27,341	65,100	(37,759)	(138%)	27,341	79,800	(52,459)	(192%)
General Use Facilities <i>10 ASF/FTE student</i>	96,963	183,260	(86,297)	(89%)	112,799	217,000	(104,201)	(92%)	112,799	266,000	(153,201)	(136%)
Support Facilities <i>4 ASF/FTE student</i>	80,923	73,304	7,619	9%	93,908	86,800	7,108	8%	93,908	106,400	(12,492)	(13%)
<i>Academic Support Subtotal</i>	<i>204,716</i>	<i>311,542</i>	<i>(106,826)</i>	<i>(52%)</i>	<i>234,048</i>	<i>368,900</i>	<i>(134,852)</i>	<i>(58%)</i>	<i>234,048</i>	<i>452,200</i>	<i>(218,152)</i>	<i>(93%)</i>
TOTAL	1,278,389	1,303,100	(24,711)	(2%)	1,307,701	1,510,595	(202,894)	(16%)	1,307,701	1,828,970	(521,269)	(40%)

ASF = Assignable Square Feet

Snow College

SNOW COLLEGE
Space Needs Analysis

SPACE CATEGORY	2010				2,020				2,020			
	Existing ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline	Existing and Pipeline ASF	Guideline ASF	ASF Over/ (Under) Guideline	Percent Over/ (Under) Guideline
	Student FTE = 3,415 Distance Ed FTE = 4% Non Distance Ed FTE = 96% Faculty FTE = 119 Staff FTE = 256				LOW Estimate Student FTE = 5,600 Distance Ed FTE = 10% Non Distance Ed FTE = 90% Faculty FTE = 195 Staff FTE = 376				HIGH Estimate Student FTE = 6,900 Distance Ed FTE = 10% Non Distance Ed FTE = 90% Faculty FTE = 240 Staff FTE = 447			
Academic Space												
Classroom & Service <i>13 ASF/FTE student; 12 ASF/FTE student future</i>	45,423	42,619	2,804	6%	61,229	60,480	749	1%	61,229	74,520	(13,291)	(22%)
Teaching Laboratories & Service <i>16 ASF/FTE student; 15 ASF/FTE student future</i>	61,689	52,454	9,235	15%	68,018	75,600	(7,582)	(11%)	68,018	93,150	(25,132)	(37%)
Vo Tech Teaching Laboratories & Service <i>6 ASF/FTE student; 5 ASF/FTE student future</i>	59,745	19,670	40,075	67%	59,745	25,200	34,545	58%	59,745	31,050	28,695	48%
Open Laboratories & Service <i>7 ASF/FTE student; 6 ASF/FTE student future</i>	45,179	23,905	21,274	47%	52,179	33,600	18,579	36%	52,179	41,400	10,779	21%
Offices & Service <i>150 ASF/FTE faculty and staff</i>	73,334	38,400	34,934	48%	75,837	56,395	19,442	26%	75,837	67,102	8,735	12%
Library & Study <i>6 ASF/FTE student; 5 ASF/FTE student future</i>	26,507	20,490	6,017	23%	24,963	28,000	(3,037)	(12%)	24,963	34,500	(9,537)	(38%)
Physical Education <i>35,000 ASF minimum</i>	62,827	35,000	27,827	44%	62,827	35,000	27,827	44%	62,827	35,000	27,827	44%
<i>Academic Subtotal</i>	374,704	232,539	142,165	38%	404,798	314,275	90,523	22%	404,798	376,722	28,076	7%
Academic Support Space												
Special Use Facilities <i>3 ASF/FTE student</i>	16,052	10,245	5,807	36%	19,223	16,800	2,423	13%	19,223	20,700	(1,477)	(8%)
General Use Facilities <i>13 ASF/FTE student; 11 ASF/FTE student future</i>	42,700	44,395	(1,695)	(4%)	46,564	61,600	(15,036)	(32%)	46,564	75,900	(29,336)	(63%)
Support Facilities <i>4 ASF/FTE student</i>	13,995	13,660	335	2%	19,341	22,400	(3,059)	(16%)	19,341	27,600	(8,259)	(43%)
<i>Academic Support Subtotal</i>	72,747	68,300	4,447	6%	85,128	100,800	(15,672)	(18%)	85,128	124,200	(39,072)	(46%)
TOTAL	447,451	300,839	146,612	33%	489,926	415,075	74,851	15%	489,926	500,922	(10,996)	(2%)

ASF = Assignable Square Feet



Appendices

**APPENDIX A ASSIGNABLE SQUARE FEET BY
INSTITUTION AND CAMPUS 2010**

UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for 2010

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Athl/PE Rec (520-525)	Special Use (500s)	Assmby/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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DIXIE STATE COLLEGE

Dixie State College • Hurricane

Student FTE 2010: 70

Assignable Square Feet

3,351		3,205		661						150				7,367							0	7,367
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ASF/FTE

48		46		9						2	0			105							0	105
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Dixie State College • St. George (Main)

Student FTE 2010: 6,197

Assignable Square Feet

63,981	49,412	25,463		90,673	24,272	24,015	28,252	56,071	13,270	22,078	540	4,009	3,195	405,231	29,722		27,780	111,616		53,228	222,346	627,577
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ASF/FTE

10	8	4		15	4	4	5	9	2	4	0	1	1	65	5		4	18		9	36	101
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Dixie State College Total Assignable Square Feet

67,332	49,412	28,668		91,334	24,272	24,015	28,252	56,071	13,270	22,228	540	4,009	3,195	412,598	29,722		27,780	111,616		53,228	222,346	634,944
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Total Student FTE: 6,267

ASF/FTE

11	8	5		15	4	4	5	9	2	4	0	1	1	66	5		4	18		8	35	101
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SALT LAKE COMMUNITY COLLEGE

SLCC • Jordan

Student FTE 2010: 1,772

Assignable Square Feet

28,282	59,062	11,030		24,630	2,293		2,160	9,051	8,204	1,130	3,035			148,877				2,294			2,294	151,171
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ASF/FTE

16	33	6		14	1		1	5	5	1	2			84				1			1	85
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SLCC • Leased Centers

Student FTE 2010: 2,363

Assignable Square Feet

15,126	29,004	1,162		10,089	985		151		2,903	463				59,883				208			208	60,091
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ASF/FTE

6	12	0		4	0		0		1	0	0			25				0			0	25
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for 2010

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Ath/PE Rec (520-525)	Special Use (500s)	Assmby/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50 (400-700)	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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SLCC • Meadowbrook

Student FTE 2010: 185

Assignable Square Feet

6,838	41,453			4,699			1,232		938	564				55,724							0	55,724
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ASF/FTE

37	224			25			7		5	3	0			301							0	301
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SLCC • Miller

Student FTE 2010: 890

Assignable Square Feet

34,555	75,822	2,617		48,614	832		10,969	10,561	10,651	2,699			0	197,320	2,327		6,265	4,037	260	20,300	33,189	230,509
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ASF/FTE

39	85	3		55	1		12	12	12	3	0		0	222	3		7	5	0	23	37	259
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SLCC • South City

Student FTE 2010: 2,261

Assignable Square Feet

34,166	32,812	1,955		40,130	11,198	56,972	1,699	18,716	20,267	19,587	125			237,627				1,188			1,188	238,815
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ASF/FTE

15	15	1		18	5	25	1	8	9	9	0			105				1			1	106
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SLCC • Taylorsville/Redwood Road

Student FTE 2010: 10,855

Assignable Square Feet

93,085	147,229	11,787		119,291	36,570	91,385	10,619	8,286	7,386	56,480		8,041		590,159			49,038	55,199			104,237	694,396
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ASF/FTE

9	14	1		11	3	8	1	1	1	5	0	1		54			5	5			10	64
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Salt Lake Community College Total Assignable Square Feet

212,052	385,382	28,551		247,453	51,878	148,357	26,830	46,614	50,349	80,923	3,160	8,041	0	1,289,590	2,327		55,303	62,926	260	20,300	141,116	1,430,706
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Total Student FTE: 18,326

ASF/FTE

12	21	2		14	3	8	1	3	3	4	0	0	0	70	0		3	3	0	1	8	78
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for 2010

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Athl/PE Rec (520-525)	Special Use (500s)	Assmby/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other (400-700, 50)	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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SNOW COLLEGE

Snow College • Ephraim

Student FTE 2010: 3,048

Main

26,941	39,076	20,785		48,345	20,173	62,827	16,052	19,389	17,100	11,680		5,329		287,697			1,787	17,788		77,732	97,307	385,004
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Mountain

502		253						534	555	1,065		7,891		10,800							0	10,800
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West

7,789	18,736	18,489		5,547	478				552	589				52,180	13,309		655	19,648			33,612	85,792
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Assignable Square Feet

35,232	57,812	39,527		53,892	20,651	62,827	16,052	19,923	18,207	13,334		13,220		350,677	13,309		2,442	37,436		77,732	130,919	481,596
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ASF/FTE

12	19	13		18	7	21	5	7	6	4	0	4		115	4		1	12		26	43	158
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Snow College • Richfield

Student FTE 2010: 367

Assignable Square Feet

10,191	63,622	5,652		19,442	5,856				4,570	661				109,994	10,392		2,463	46,179			59,034	169,028
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ASF/FTE

28	173	15		53	16				12	2	0			300	28		7	126			161	461
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Snow College Total Assignable Square Feet

45,423	121,434	45,179		73,334	26,507	62,827	16,052	19,923	22,777	13,995		13,220		460,671	23,701		4,905	83,615		77,732	189,953	650,624
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Total Student FTE: 3,415

ASF/FTE

13	36	13		21	8	18	5	6	7	4	0	4		135	7		1	24		23	56	191
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SOUTHERN UTAH UNIVERSITY

Southern Utah University

Student FTE 2010: 6,609

Assignable Square Feet

70,873	67,711	58,219		124,220	61,403	69,611	8,689	53,802	52,705	57,646	2,490	9,595	3,496	640,460	15,418		23,938	275,063	1,328	146,768	462,515	1,102,975
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ASF/FTE

11	10	9		19	9	11	1	8	8	9	0	1	1	97	2		4	42	0	22	70	167
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for 2010

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Ath/PE Rec (520-525)	Special Use (500s)	Assmby/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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Southern Utah University Total Assignable Square Feet

70,873	67,711	58,219		124,220	61,403	69,611	8,689	53,802	52,705	57,646	2,490	9,595	3,496	640,460	15,418		23,938	275,063	1,328	146,768	462,515	1,102,975
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Total Student FTE: 6,609

ASF/FTE

11	10	9		19	9	11	1	8	8	9	0	1	1	97	2		4	42	0	22	70	167
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UNIVERSITY OF UTAH

University of Utah

Student FTE 2010: 25,879

Central

212,143	182,201	206,357	411,613	942,324	321,928	45,454	61,195	195,896	62,919	141,635		14,783	4,001	2,802,449	10,139	523	62,624	667,412	2,010		742,708	3,545,157
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FtDoug

		151	268	43,215	744		28,235	15,323	7,509	21,584			11,494	128,523	1,786		23,011	69,038		672,665	766,500	895,023
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HealthSci

7,280	12,052	2,272	45,531	58,821	31,020		2,243	3,474	4,496	8,368			134	175,691	67,958	367,519	517,243	332,223	549,102		1,834,045	2,009,736
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OffSite

1,285			26,688	7,901	1,283					34,394				71,551	262	11,299	64,843	33,832	348,202	1,648	460,086	531,637
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Resid

														0			4,346	15,032		694,395	713,773	713,773
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ResPk

	11,154	3,299	40,823	75,980	5,728		8,141	2,828	10,531	5,553	1,757		11,539	177,333	18,741	85,075	454,557	73,921	119,851	58	752,203	929,536
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Assignable Square Feet

220,708	205,407	212,079	524,923	1,128,241	360,703	45,454	99,814	217,521	85,455	211,534	1,757	14,783	27,168	3,355,547	98,886	464,416	1,126,624	1,191,458	1,019,165	1,368,766	5,269,315	8,624,862
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ASF/FTE

9	8	8	20	44	14	2	4	8	3	8	0	1	1	130	4	18	44	46	39	53	204	333
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University of Utah Total Assignable Square Feet

220,708	205,407	212,079	524,923	1,128,241	360,703	45,454	99,814	217,521	85,455	211,534	1,757	14,783	27,168	3,355,547	98,886	464,416	1,126,624	1,191,458	1,019,165	1,368,766	5,269,315	8,624,862
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Total Student FTE: 25,879

ASF/FTE

9	8	8	20	44	14	2	4	8	3	8	0	1	1	130	4	18	44	46	39	53	204	333
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for 2010

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Ath/PE Rec (520-525)	Special Use (500s)	Assmby/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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UTAH STATE UNIVERSITY

USU • Brigham City Regional Campus

Student FTE 2010: 421

Assignable Square Feet

12,998		658		7,877					366	1,368				23,267				121	3,189			3,310	26,577
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ASF/FTE

31		2		19					1	3	0			55				0	8			8	63
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USU • Centers

Student FTE 2010: 1,877

Assignable Square Feet

16,264	352	1,331		11,868	1,137		10,901	1,203	6,442	6,092				55,590				256	988			1,244	56,834
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ASF/FTE

9	0	1		6	1		6	1	3	3	0			30				0	1			1	30
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USU • College of Eastern Utah Price Campus

Student FTE 2010: 1,328

Assignable Square Feet

32,587	56,081	11,261		39,855	16,168	1,855	1,024	24,864	13,986	28,965				226,646				2,492	47,211		71,472	121,175	347,821
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ASF/FTE

25	42	8		30	12	1	1	19	11	22	0			171				2	36		54	91	262
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USU • College of Eastern Utah San Juan Campus

Student FTE 2010: 444

Assignable Square Feet

16,462	5,943	5,597		8,891	6,863		1,246	6,972	5,244	3,907				61,125	693			122	3,935		7,920	12,670	73,795
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ASF/FTE

37	13	13		20	15		3	16	12	9	0			138	2			0	9		18	29	166
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USU • Tooele Regional Campus

Student FTE 2010: 187

Assignable Square Feet

3,986				1,883	1,416									7,285					787			787	8,072
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ASF/FTE

21				10	8						0			39					4			4	43
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for 2010

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Ath/PE Rec (520-525)	Special Use (500s)	Assmblly/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50 (700, 50)	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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USU • Uintah Basin Regional Campus

Student FTE 2010: 398

Assignable Square Feet

26,030	4,096	3,491		17,973	4,517	8,069	102		7,298	2,269				73,845	416	294	4,250	2,707			7,667	81,512
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ASF/FTE

65	10	9		45	11	20	0		18	6	0			186	1	1	11	7			19	205
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Utah State University • Logan (Main)

Student FTE 2010: 15,806

Assignable Square Feet

148,619	138,700	126,516	449,378	648,998	191,169	49,629	145,808	131,108	35,253	249,064	872	21,272		2,336,386	23,752	69,302	120,510	1,309,681	5,562	934,958	2,463,765	4,800,151
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ASF/FTE

9	9	8	28	41	12	3	9	8	2	16	0	1		148	2	4	8	83	0	59	156	304
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Utah State University Total Assignable Square Feet

256,946	205,172	148,854	449,378	737,345	221,270	59,553	159,081	164,147	68,589	291,665	872	21,272		2,784,144	24,861	69,596	127,751	1,368,498	5,562	1,014,350	2,610,618	5,394,762
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Total Student FTE: 20,461

ASF/FTE

13	10	7	22	36	11	3	8	8	3	14	0	1		136	1	3	6	67	0	50	128	264
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UTAH VALLEY UNIVERSITY

Utah Valley University • Orem (Main)

Student FTE 2010: 21,600

Assignable Square Feet

132,950	265,627	25,649		306,534	117,277	66,604	31,044	134,167	38,095	71,354		5,705	16,547	1,211,553	14,445		45,935	216,591	1,959	1,491	280,421	1,491,974
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ASF/FTE

6	12	1		14	5	3	1	6	2	3	0	0	1	56	1		2	10	0	0	13	69
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Utah Valley University • Wasatch Campus

Student FTE 2010: 225

Assignable Square Feet

7,167	4,093	975		6,095	5,152	3,414			5,029	5,548			9,234	46,707								0	46,707
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ASF/FTE

32	18	4		27	23	15			22	25	0		41	208								0	208
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for 2010

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Ath/PE Rec (520-525)	Special Use (500s)	Assmblly/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instrct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50 (800s)	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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Utah Valley University Total Assignable Square Feet																						
140,117	269,720	26,624		312,629	122,429	70,018	31,044	134,167	43,124	76,902		5,705	25,781	1,258,260	14,445		45,935	216,591	1,959	1,491	280,421	1,538,681
Total Student FTE: 21,825																						
ASF/FTE																						
6	12	1		14	6	3	1	6	2	4		0	0	58	1		2	10	0	0	13	71

WEBER STATE UNIVERSITY

Weber State University • Centers

Student FTE 2010: 85

Assignable Square Feet

2,643	0	320		936			344	0	1,073	44			0	5,360	841		0	0			841	6,201
ASF/FTE																						
31	0	4		11			4	0	13	1			0	63	10		0	0			10	73

Weber State University • Davis

Student FTE 2010: 1,448

Assignable Square Feet

22,212	10,492			15,920	5,694	403	1,991		2,863	3,220	107			62,902	4,912		598	3,049	271		8,830	71,732
ASF/FTE																						
15	7			11	4	0	1		2	2	0			43	3		0	2	0		6	50

Weber State University • Ogden (Main)

Student FTE 2010: 14,022

Assignable Square Feet

149,398	145,665	53,435	16,594	257,320	112,002	77,539	80,267	115,894	20,651	71,135			4,890	1,104,790	5,314	1,297	34,330	241,833	8,137	186,324	477,235	1,582,025
ASF/FTE																						
11	10	4	1	18	8	6	6	8	1	5	0		0	79	0	0	2	17	1	13	34	113

Weber State University Total Assignable Square Feet																						
174,253	156,157	53,755	16,594	274,176	117,696	77,942	82,602	115,894	24,587	74,399	107		4,890	1,173,052	11,067	1,297	34,928	244,882	8,408	186,324	486,906	1,659,958
Total Student FTE: 15,555																						
ASF/FTE																						
11	10	3	1	18	8	5	5	7	2	5	0		0	75	1	0	2	16	1	12	31	107

UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for 2010

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Ath/PE Rec (520-525)	Special Use (500s)	Assmby/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE TOTAL

1,187,704	1,460,395	601,929	990,895	2,988,732	986,158	557,777	452,364	808,139	360,856	829,292	8,926	76,625	64,530	11,374,322	220,427	535,309	1,447,164	3,554,649	1,036,682	2,868,959	9,663,190	21,037,512
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Systemwide Total Student FTE: 118,337

Systemwide ASF/FTE

10	12	5	8	25	8	5	4	7	3	7	0	1	1	96	2	5	12	30	9	24	82	178
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**APPENDIX B ASSIGNABLE SQUARE FEET BY
INSTITUTION AND CAMPUS 2020**

UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for Target Year

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Ath/PE Rec (520-525)	Special Use (500s)	Assmblly/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50 (800s)	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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DIXIE STATE COLLEGE

Dixie State College • Hurricane

Student FTE Target Year: 134

Assignable Square Feet

3,351		3,205		661						150				7,367							0	7,367
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ASF/FTE

25		24		5						1	0			55							0	55
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Dixie State College • St. George (Main)

Student FTE Target Year: 11,866

Assignable Square Feet

102,612	68,716	23,509		116,470	53,700	24,015	37,711	56,071	15,196	25,049		4,009	0	527,058	29,722		27,530	107,912		53,228	218,392	745,450
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ASF/FTE

9	6	2		10	5	2	3	5	1	2	0	0	0	44	3		2	9		4	18	63
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Dixie State College Total Assignable Square Feet

105,963	68,716	26,714		117,131	53,700	24,015	37,711	56,071	15,196	25,199		4,009	0	534,425	29,722		27,530	107,912		53,228	218,392	752,817
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Total Student FTE: 12,000

ASF/FTE

9	6	2		10	4	2	3	5	1	2	0	0	0	45	2		2	9		4	18	63
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SALT LAKE COMMUNITY COLLEGE

SLCC • Jordan

Student FTE Target Year: 2,572

Assignable Square Feet

28,282	59,062	11,030		24,630	2,293		2,160	9,051	8,204	1,130	3,035			148,877				2,294			2,294	151,171
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ASF/FTE

11	23	4		10	1		1	4	3	0	1			58				1			1	59
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SLCC • Leased Centers

Student FTE Target Year: 3,430

Assignable Square Feet

15,126	29,004	1,162		10,089	985		151		2,903	463				59,883				208			208	60,091
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ASF/FTE

4	8	0		3	0		0		1	0	0			17				0			0	18
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for Target Year

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Ath/PE Rec (520-525)	Special Use (500s)	Assmblly/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50 (400-700, 50)	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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SLCC • Meadowbrook

Student FTE Target Year: 269

Assignable Square Feet

6,838	41,453			4,699			1,232		938	564				55,724							0	55,724
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ASF/FTE

25	154			17			5		3	2		0		207							0	207
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SLCC • Miller

Student FTE Target Year: 1,292

Assignable Square Feet

34,555	75,822	2,617		48,614	832		10,969	10,561	10,651	2,699			0	197,320	2,327		6,265	4,037	260	20,300	33,189	230,509
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ASF/FTE

27	59	2		38	1		8	8	8	2		0	0	153	2		5	3	0	16	26	178
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SLCC • South City

Student FTE Target Year: 3,282

Assignable Square Feet

32,208	44,489	1,955		37,740	5,743	18,658	4,371	18,716	31,943	33,461	125			229,409				0			0	229,409
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ASF/FTE

10	14	1		11	2	6	1	6	10	10	0			70				0			0	70
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SLCC • Taylorsville/Redwood Road

Student FTE Target Year: 15,755

Assignable Square Feet

119,610	139,879	8,157		139,571	37,165	91,385	8,458	8,286	11,546	55,591		8,041		627,689			49,038	55,199			104,237	731,926
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ASF/FTE

8	9	1		9	2	6	1	1	1	4		0	1	40			3	4			7	46
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Salt Lake Community College Total Assignable Square Feet

236,619	389,709	24,921		265,343	47,018	110,043	27,341	46,614	66,185	93,908	3,160	8,041	0	1,318,902	2,327		55,303	61,738	260	20,300	139,928	1,458,830
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Total Student FTE: 26,600

ASF/FTE

9	15	1		10	2	4	1	2	2	4		0	0	50	0		2	2	0	1	5	55
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for Target Year

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Ath/PE Rec (520-525)	Special Use (500s)	Assmbl/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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SNOW COLLEGE

Snow College • Ephraim

Student FTE Target Year: 6,158

Main

42,747	45,405	27,785		50,848	18,629	62,827	19,223	19,389	20,964	17,026		5,329		330,172			1,787	17,788		77,732	97,307	427,479
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Mountain

502		253						534	555	1,065		7,891		10,800							0	10,800
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West

7,789	18,736	18,489		5,547	478				552	589				52,180	13,309		655	19,648			33,612	85,792
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Assignable Square Feet

51,038	64,141	46,527		56,395	19,107	62,827	19,223	19,923	22,071	18,680		13,220		393,152	13,309		2,442	37,436		77,732	130,919	524,071
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ASF/FTE

8	10	8		9	3	10	3	3	4	3	0	2		64	2		0	6		13	21	85
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Snow College • Richfield

Student FTE Target Year: 742

Assignable Square Feet

10,191	63,622	5,652		19,442	5,856				4,570	661				109,994	10,392		2,463	46,179			59,034	169,028
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ASF/FTE

14	86	8		26	8				6	1	0			148	14		3	62			80	228
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Snow College Total Assignable Square Feet

61,229	127,763	52,179		75,837	24,963	62,827	19,223	19,923	26,641	19,341		13,220		503,146	23,701		4,905	83,615		77,732	189,953	693,099
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Total Student FTE: 6,900

ASF/FTE

9	19	8		11	4	9	3	3	4	3	0	2		73	3		1	12		11	28	100
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SOUTHERN UTAH UNIVERSITY

Southern Utah University

Student FTE Target Year: 9,800

Assignable Square Feet

70,873	90,952	58,219		134,123	61,713	69,611	8,689	53,802	54,585	57,646	2,490	9,595	3,496	675,794	15,418		23,938	275,063	1,328	146,768	462,515	1,138,309
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ASF/FTE

7	9	6		14	6	7	1	5	6	6	0	1	0	69	2		2	28	0	15	47	116
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for Target Year

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Ath/PE Rec (520-525)	Special Use (500s)	Assmly/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
Southern Utah University Total Assignable Square Feet																						
70,873	90,952	58,219		134,123	61,713	69,611	8,689	53,802	54,585	57,646	2,490	9,595	3,496	675,794	15,418		23,938	275,063	1,328	146,768	462,515	1,138,309
Total Student FTE: 9,800																						
ASF/FTE																						
7	9	6		14	6	7	1	5	6	6	0	1	0	69	2		2	28	0	15	47	116

UNIVERSITY OF UTAH

University of Utah

Student FTE Target Year: 32,000

Central

260,998	206,629	206,357	425,740	983,562	326,266	45,454	61,923	195,896	68,679	142,600		14,783	4,001	2,942,888	10,139	523	62,624	667,412	2,010		742,708	3,685,596
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FtDoug

		151	268	43,215	744		28,235	15,323	7,509	21,584			11,494	128,523	1,786		23,011	69,038		672,665	766,500	895,023
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HealthSci

7,280	12,052	2,272	97,797	69,197	31,020		14,717	3,474	4,496	8,368	3,375		134	254,182	67,958	367,519	517,243	332,223	549,102		1,834,045	2,088,227
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OffSite

1,285			26,688	7,901	1,283					34,394				71,551	262	11,299	64,843	33,832	348,202	1,648	460,086	531,637
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Resid

														0			4,346	15,032		694,395	713,773	713,773
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ResPk

	11,154	3,299	40,823	75,980	5,728		8,141	2,828	10,531	5,553	1,757		11,539	177,333	18,741	85,075	454,557	73,921	119,851	58	752,203	929,536
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Assignable Square Feet

269,563	229,835	212,079	591,316	1,179,855	365,041	45,454	113,016	217,521	91,215	212,499	5,132	14,783	27,168	3,574,477	98,886	464,416	1,126,624	1,191,458	1,019,165	1,368,766	5,269,315	8,843,792
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ASF/FTE

8	7	7	18	37	11	1	4	7	3	7	0	0	1	112	3	15	35	37	32	43	165	276
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University of Utah Total Assignable Square Feet

269,563	229,835	212,079	591,316	1,179,855	365,041	45,454	113,016	217,521	91,215	212,499	5,132	14,783	27,168	3,574,477	98,886	464,416	1,126,624	1,191,458	1,019,165	1,368,766	5,269,315	8,843,792
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Total Student FTE: 32,000

ASF/FTE

8	7	7	18	37	11	1	4	7	3	7	0	0	1	112	3	15	35	37	32	43	165	276
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for Target Year

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Athl/PE Rec (520-525)	Special Use (500s)	Assmby/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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UTAH STATE UNIVERSITY

USU • Brigham City Regional Campus

Student FTE Target Year: 507

Assignable Square Feet

12,998		658		7,877					366	1,368				23,267				121	3,189			3,310	26,577
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ASF/FTE

26		1		16					1	3				46				0	6			7	52
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USU • Centers

Student FTE Target Year: 2,260

Assignable Square Feet

18,937	352	1,331		12,462	1,137		10,901	1,203	6,607	6,092				59,022				256	988			1,244	60,266
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ASF/FTE

8	0	1		6	1		5	1	3	3				26				0	0			1	27
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USU • College of Eastern Utah Price Campus

Student FTE Target Year: 2,623

Assignable Square Feet

32,587	56,081	11,261		39,855	16,168	1,855	1,024	24,864	13,986	28,965				226,646				2,492	47,211		71,472	121,175	347,821
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ASF/FTE

12	21	4		15	6	1	0	9	5	11				86				1	18		27	46	133
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USU • College of Eastern Utah San Juan Campus

Student FTE Target Year: 877

Assignable Square Feet

16,462	5,943	5,597		8,891	6,863		1,246	6,972	5,244	3,907				61,125	693		122	3,935		7,920	12,670	73,795
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ASF/FTE

19	7	6		10	8		1	8	6	4				70	1		0	4		9	14	84
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USU • Tooele Regional Campus

Student FTE Target Year: 225

Assignable Square Feet

3,986				1,883	1,416									7,285				787			787	8,072
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ASF/FTE

18				8	6									32				3			3	36
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for Target Year

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Ath/PE Rec (520-525)	Special Use (500s)	Assmby/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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USU • Uintah Basin Regional Campus

Student FTE Target Year: 479

Assignable Square Feet

26,030	4,096	3,491		17,973	4,517	8,069	102		7,298	2,269				73,845	416	294	4,250	2,707			7,667	81,512
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ASF/FTE

54	9	7		38	9	17	0		15	5	0			154	1	1	9	6			16	170
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Utah State University • Logan (Main)

Student FTE Target Year: 19,029

Assignable Square Feet

166,389	145,260	126,273	458,137	665,007	206,984	49,629	145,808	131,108	43,213	251,064	872	21,272		2,411,016	23,286	58,611	118,150	1,222,247	5,562	930,251	2,358,107	4,769,123
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ASF/FTE

9	8	7	24	35	11	3	8	7	2	13	0	1		127	1	3	6	64	0	49	124	251
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Utah State University Total Assignable Square Feet

277,389	211,732	148,611	458,137	753,948	237,085	59,553	159,081	164,147	76,714	293,665	872	21,272		2,862,206	24,395	58,905	125,391	1,281,064	5,562	1,009,643	2,504,960	5,367,166
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Total Student FTE: 26,000

ASF/FTE

11	8	6	18	29	9	2	6	6	3	11	0	1		110	1	2	5	49	0	39	96	206
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UTAH VALLEY UNIVERSITY

Utah Valley University • Orem (Main)

Student FTE Target Year: 38,004

Assignable Square Feet

165,843	327,019	24,849		330,872	122,277	66,604	36,906	134,167	35,897	76,354		5,705	1,625	1,328,118	13,887		45,669	216,591	1,959	1,491	279,597	1,607,715
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ASF/FTE

4	9	1		9	3	2	1	4	1	2	0	0	0	35	0		1	6	0	0	7	42
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Utah Valley University • Wasatch Campus

Student FTE Target Year: 396

Assignable Square Feet

7,167	4,093	975		6,095	5,152	3,414			5,029	5,548			9,234	46,707								0	46,707
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ASF/FTE

18	10	2		15	13	9			13	14	0		23	118								0	118
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for Target Year

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Athl/PE Rec (520-525)	Special Use (500s)	Assmby/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instrct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50 (800s)	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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Utah Valley University Total Assignable Square Feet																						
173,010	331,112	25,824		336,967	127,429	70,018	36,906	134,167	40,926	81,902		5,705	10,859	1,374,825	13,887		45,669	216,591	1,959	1,491	279,597	1,654,422
Total Student FTE: 38,400																						
ASF/FTE																						
5	9	1		9	3	2	1	3	1	2	0	0	0	36	0		1	6	0	0	7	43

WEBER STATE UNIVERSITY																						
Weber State University • Centers																				Student FTE Target Year: 134		
Assignable Square Feet																						
2,643	0	320		936			344	0	1,073	44			0	5,360	841		0	0			841	6,201
ASF/FTE																						
20	0	2		7			3	0	8	0	0		0	40	6		0	0			6	46

Weber State University • Davis																				Student FTE Target Year: 2,281		
Assignable Square Feet																						
38,541	26,933			29,809	6,205	2,403	28,215		7,026	10,884	107			150,123	4,912		598	3,049	271		8,830	158,953
ASF/FTE																						
17	12			13	3	1	12		3	5	0			66	2		0	1	0		4	70

Weber State University • Ogden (Main)																				Student FTE Target Year: 22,085		
Assignable Square Feet																						
149,398	145,665	53,435	16,594	257,320	112,002	77,539	80,267	115,894	20,651	75,135			4,890	1,108,790	5,314	1,297	35,258	255,828	8,137	238,636	544,470	1,653,260
ASF/FTE																						
7	7	2	1	12	5	4	4	5	1	3	0		0	50	0	0	2	12	0	11	25	75

Weber State University Total Assignable Square Feet																						
190,582	172,598	53,755	16,594	288,065	118,207	79,942	108,826	115,894	28,750	86,063	107		4,890	1,264,273	11,067	1,297	35,856	258,877	8,408	238,636	554,141	1,818,414
Total Student FTE: 24,500																						
ASF/FTE																						
8	7	2	1	12	5	3	4	5	1	4	0		0	52	0	0	1	11	0	10	23	74

UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE

Assignable Square Feet by Institution by Campus by Precinct

for Target Year

Class-rooms (110-115)	Teaching Labs (210-215)	Open Labs (220-225)	Research Labs (250-255)	Office (300s)	Library & Study (400s)	Ath/PE Rec (520-525)	Special Use (500s)	Assmby/Exhbt (610-625)	General Use (600s)	Support (700s)	Health Care (800s)	Residence (900s)	Inactive/Conversion	TOTAL Analysis ASF	Excl. Instruct (100-235)	Excl. Rsrch (250-255)	Excl. Offices (300s)	Excl. Other400-700, 50	Excl. Health (800s)	Excl. Res Life (900s)	TOTAL Excluded ASF	TOTAL ASF
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UTAH SYSTEM OF HIGHER EDUCATION SPACE STANDARDS UPDATE TOTAL

1,385,228	1,622,417	602,302	1,066,047	3,151,269	1,035,156	521,463	510,793	808,139	400,212	870,223	11,761	76,625	46,413	12,108,048	219,403	524,618	1,445,216	3,476,318	1,036,682	2,916,564	9,618,801	21,726,849
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Systemwide Total Student FTE: 176,200

Systemwide ASF/FTE

8	9	3	6	18	6	3	3	5	2	5	0	0	0	69	1	3	8	20	6	17	55	123
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