



EXECUTIVE VICE PRESIDENT—
CHIEF FINANCIAL OFFICER

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October 30, 2015

Mr. Mac Taylor, Legislative Analyst
Executive Office
925 L Street, Suite 1000
Sacramento, California 95814

Dear Mr. Taylor:

Enclosed is the University of California's biennial report of utilization of classrooms and teaching laboratories. These data reflect campus enrollments from the 2014 Fall term and are based on the utilization guidelines approved by the legislature.

This report responds to the legislative request set forth in the Education Code as follows:

67503. (a) On or before November 1, 2010, and at least biennially thereafter, the University of California is requested to, and the California State University shall, report on the utilization of classrooms and teaching laboratories. The report shall include for each campus in their respective system the total number of rooms, number of stations, weekly student contact hours, and weekly station hours. The report shall also include the average weekly hours of station use and actual utilization as a percentage of the utilization standard.

This report also corresponds to the recommendations contained in the California Postsecondary Education Commission (CPEC) 1990 report, *A Capacity for Learning*.

The data in the enclosed Utilization Report details use of the University's instructional facilities at each campus.

Sincerely,

Nathan Brostrom
Executive Vice President – Chief Financial Officer

Attachments

cc: The Honorable Mark Leno, Chair, Joint Legislative Budget Committee
Ms. Karen Finn, Department of Finance
Ms. Sally Lukenbill, Department of Finance
Ms. Raghda Nassar, Department of Finance
Mr. Jason Constantouros, Legislative Analyst's Office
Mr. Daniel Alvarez, Secretary of the Senate
Mr. E. Dotson Wilson, Chief Clerk of the Assembly
Associate Vice President Steve Juarez
Associate Vice President Sandra Kim
Associate Vice President Deborah Wylie
Director Dana Santa Cruz
Senior Educational Facilities Planner Brian Ross
Systemwide Budget Analyst Maria Olmos
State Capital Program Files



University of California
Capital Programs
**Classroom and Teaching Lab Utilization
Report**

October 2015

FALL 2014 CLASSROOM AND TEACHING LABORATORY UTILIZATION UNIVERSITY OF CALIFORNIA

I. INTRODUCTION

This is the University of California's biennial report of fall term utilization of classrooms and teaching laboratories. The purpose of the report is to compare the utilization of specific types of rooms to established standards. This report provides one piece of useful information which, coordinated with other analyses, assists in the development and review of a campus capital program.

The report is in accordance with the legislative request set forth in the Education Code as follows:

67503. (a) On or before November 1, 2010, and at least biennially thereafter, the University of California is requested to, and the California State University shall, report on the utilization of classrooms and teaching laboratories. The report shall include for each campus in their respective system the total number of rooms, number of stations, weekly student contact hours, and weekly station hours. The report shall also include the average weekly hours of station use and actual utilization as a percentage of the utilization standard.

The data contained in the enclosed report reflect campus enrollments from the 2014 fall term.

II. THE STANDARDS

Each campus collects data about class schedules and class enrollment, combines these data with the inventory of rooms to which utilization standards apply, and then compares the resulting room utilization with the following legislatively approved standards:

- Classrooms: 35 weekly student contact hours per station
- Teaching Laboratories: 20 weekly student contact hours per station

These standards are based on (a) the expected number of hours a room is to be scheduled, and (b) the percentage of stations expected to be occupied when the room is scheduled.

Classrooms. The approved standard for classrooms, as established in 1970 in Assembly Concurrent Resolution 151, expects a room to be scheduled (on average) 75% of the 70 hours that fall between 8 a.m. and 10 p.m., Monday through Friday; i.e., 52.5 hours per week. During these scheduled hours, it is expected that two-thirds (66.7%) of the stations will be occupied. Combining the expectation of scheduling with the expectation of occupancy, one arrives at the standard of 35 weekly student contact hours per station (52.5 hours x 66.7%) occupancy for classrooms.

The classroom standard applies to all campus general-assignment and departmentally controlled classrooms and seminar rooms within general and professional instruction and research (I&R) programs. Excluded from this official submittal are health sciences, University Extension, and other non-standard programs and rooms (for example: physical education, military science, etc.). Presentation of classroom utilization in terms of the 35 hour standard is in compliance with supplemental language of the Budget Act of 1973.

Teaching Laboratories. The Supplemental Report to the 1973 Budget Act defined teaching laboratory standards for lower division and upper division teaching laboratories. The University does not distinguish among levels of instruction in its inventory of rooms, since teaching laboratories may serve each population in a given week, or even simultaneously, depending on class enrollment and scheduling. The average of the two standards (23.4 hours for lower division, 17.6 hours for upper division) results in 20 hours per week expected utilization, based on a 45-hour week, between 8 a.m. and 5 p.m., Monday through Friday.

The teaching laboratory standard applies to campus general-assignment (if any) and departmentally controlled class laboratories for both general and professional instruction and research (I&R) programs. Excluded from this official submittal are health sciences, University Extension, and other non-standard programs and rooms (for example, physical education, military science, etc.). Also excluded from the attached report are: special class laboratories (specially equipped labs serving a small number of courses, which for reasons of safety or expense cannot be used for other courses) and open laboratories, in which unscheduled but required instruction takes place, such as language labs, music studios, and self-instructional computer/media labs.

III. REPORT FORMAT

The tables on the first page of Appendix A present total campus utilization statistics for classrooms and teaching laboratories. The remaining tables in Appendix A provide detailed information for each campus, showing utilization by size of room. These latter tables are particularly important for identifying possible mismatches between the size of rooms that are available and the size of classes being scheduled.

The formula used to calculate utilization is shown at the top of each column, and a definition of terms is included in Appendix B.

IV. CAVEATS ABOUT UTILIZATION DATA

The utilization standards are based on certain assumptions about class scheduling, room availability, and the nature of instruction. Campus practice in the use and scheduling of rooms and approaches to instruction may vary in a variety of ways from these assumptions. Since standards are at best averages that present only part of a picture, it is important to consider the following caveats when reviewing campus utilization reports, so as not to draw incorrect conclusions.

Room Availability. The utilization standards are based on an assumption that classrooms and teaching laboratories serve a single purpose and are available exclusively for that purpose. In fact, however, there are departments that use the rooms within their control for multiple purposes. This leads to an efficient use of space within the department (for example, using a room for scheduled seminars, independent study, and departmental meetings), but limits the availability of the room for 100% scheduled instruction. Since utilization measures only the instructional activities in rooms, it is not correct to assume that low utilization means rooms are standing empty.

Scheduling Pattern. The standards are based on a presumption that courses are scheduled according to a predictable pattern, such as one-hour, Monday-Wednesday-Friday classes, or one- and-a-half hour, Tuesday-Thursday classes. Such a pattern allows for a fairly simple "building block" approach to scheduling, with classes starting predictably on the hour or half-hour. When departments deviate from that practice, for example, by scheduling a three-hour lecture on Mondays only, it may be difficult to find courses for the corresponding time blocks on Wednesday and Friday. Another scheduling reality is that a course of study may not require laboratory experiences, for example, until the winter or spring quarter, making for uneven utilization patterns across the year.

Unscheduled Hours. Not all of a student's instructional time in a room is accounted for in utilization reports. For example, a course may have six hours a week of scheduled laboratory activity but will require an additional number of hours of unscheduled work in the same room. A student may have to return every few hours to continue work on an experiment or project. However, since these hours are not scheduled, they cannot be counted for utilization purposes. If a room is available for the student's required but unscheduled activities, it is unavailable for other courses.

Nature of Instruction. The way a course is taught may affect a room's utilization, particularly in teaching laboratories. The standards assume that all courses are taught in similar ways (i.e., students arrive in a room, conduct an experiment, clean-up, and leave, making the room available for the next class). However, some courses require a set-up of apparatus or experiments that must remain in place for days, weeks, or even the

duration of the quarter. During the time they are set up, the room is not available to other courses for instruction.

Room Suitability. Two other factors affect whether the inventory of available classrooms and teaching laboratories are suitable to meet the curricular needs of programs. The first is "room fit" (i.e., whether there are enough rooms with the correct number of stations to match class size). Classes with small enrollments may have to meet in rooms that are too large for them if there are not enough small classrooms available. Lack of suitable rooms may also require, for example, that lecture or discussion courses be scheduled in teaching laboratories. Such a situation may lead to "good" utilization for those laboratories but obscures that fact that the rooms are being used inappropriately.

A second factor, particularly in teaching laboratories but to some degree in classrooms, is the suitability of the design and equipment for the courses being offered. The availability or absence of certain equipment, such as computer linkages or projection screens, may affect utilization. Some teaching laboratories, which by definition are already limited to use by a single discipline, may be sufficiently specialized that it is difficult to schedule a large number of courses in them (although not so specialized as to qualify them for special laboratory status). This holds true particularly in the sciences and engineering, fields of study that increasingly require specialized rooms and equipment to teach even beginning students.

Preparation/Set-up Time. While utilization standards recognize to some extent that time is required to set-up and clean-up the activities, the standards are only averages which may not reflect the requirements of some campus programs, which can be very elaborate and time-consuming. Also, if there is only limited staff assistance available, it takes longer to prepare the room, further limiting the time it is available.

Appropriateness of the Standard. The University agrees with the findings of the MGT review of space and utilization standards in the United States, as reported in the 1990 CPEC report, *A Capacity for Learning*, that a classroom utilization standard of 30 hours is more realistic than California's current standard of 35 hours. Among the reasons cited in this comprehensive report was the relationship of the support budget to utilization, that is, attempts to make any significant impact on utilization by offering more evening classes, which places undue strains on the support budget. The report also notes that full-time day students, such as University students, tend to extend their studies an extra term rather than attend evening classes. Thus, the expectations of the standard that classes be held until 10 p.m. in the evening are not reflective of actual attendance.

V. CONCLUSION

Utilization standards are a valuable tool for measuring the use of facilities. They have provoked serious and fruitful discussion at each campus about how to find more efficient ways of scheduling courses and rooms, so as not to waste valuable facilities resources. Nevertheless, it is not appropriate to achieve maximum utilization at the expense of carefully thought-out programmatic and pedagogical choices. Utilization data goes only so far in evaluating the need for more or different instructional facilities, and academic choices about how best to teach must be respected.

UNIVERSITY OF CALIFORNIA
UTILIZATION SUMMARY
Fall 2014

Universitywide

TABLE U-1C: Classroom Utilization

Campus	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
Berkeley	290	16,565	395,470	575,381	34.7	68.7%	23.9	68.2%
Davis	145	10,659	332,819	446,239	41.9	74.6%	31.2	89.2%
Irvine	158	10,694	310,817	441,750	41.3	70.4%	29.1	83.0%
Los Angeles	262	16,684	380,410	580,186	34.8	65.6%	22.8	65.1%
Merced	42	2,365	75,530	116,120	49.1	65.0%	31.9	91.2%
Riverside	87	6,894	228,328	301,625	43.8	75.7%	33.1	94.6%
San Diego	121	9,122	314,240	411,347	45.1	76.4%	34.4	98.4%
Santa Barbara	137	7,154	188,048	261,045	36.5	72.0%	26.3	75.1%
Santa Cruz	86	5,579	214,561	374,020	67.0	57.4%	38.5	109.9%

TABLE U-1T: Teaching Laboratory Utilization

Campus	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
Berkeley	114	3,387	58,649	79,305	23.4	74.0%	17.3	86.6%
Davis	112	2,898	55,691	65,891	22.7	84.5%	19.2	96.1%
Irvine	36	1,011	22,037	27,646	27.3	79.7%	21.8	109.0%
Los Angeles	42	1,084	20,771	26,305	24.3	79.0%	19.2	95.8%
Merced	27	702	17,402	24,575	35.0	70.8%	24.8	123.9%
Riverside	59	1,413	37,042	40,406	28.6	91.7%	26.2	131.1%
San Diego	47	1,223	26,528	30,165	24.7	87.9%	21.7	108.5%
Santa Barbara	59	1,474	31,398	39,168	26.6	80.2%	21.3	106.5%
Santa Cruz	39	842	18,777	20,595	24.5	91.2%	22.3	111.5%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Berkeley

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	13	182	2,483	3,805	20.9	65.3%	13.6	39.0%
16 - 25	66	1,415	30,308	42,182	29.8	71.9%	21.4	61.2%
26 - 50	135	5,024	109,861	181,967	36.2	60.4%	21.9	62.5%
51 - 100	47	3,368	65,429	106,888	31.7	61.2%	19.4	55.5%
101 - 200	17	2,386	59,721	84,710	35.5	70.5%	25.0	71.5%
201 - 300	8	2,034	51,061	60,647	29.8	84.2%	25.1	71.7%
301+	4	2,156	76,608	95,183	44.1	80.5%	35.5	101.5%
Total Campus	290	16,565	395,470	575,381	34.7	68.7%	23.9	68.2%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	15	192	4,578	3,000	15.6	152.6%	23.8	119.2%
16 - 25	67	1,542	32,357	38,281	24.8	84.5%	21.0	104.9%
26 - 40	21	688	11,528	15,631	22.7	73.8%	16.8	83.8%
41+	11	965	10,186	22,394	23.2	45.5%	10.6	52.8%
Total Campus	114	3,387	58,649	79,305	23.4	74.0%	17.3	86.6%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Davis

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	9	134	2,151	3,256	24.3	66.1%	16.0	45.9%
16 - 25	14	302	8,483	11,116	36.8	76.3%	28.1	80.3%
26 - 50	62	2,458	64,373	104,987	42.7	61.3%	26.2	74.8%
51 - 100	32	2,346	56,675	95,250	40.6	59.5%	24.2	69.0%
101 - 200	21	3,024	94,012	122,213	40.4	76.9%	31.1	88.8%
201 - 300	4	1,099	43,851	55,046	50.1	79.7%	39.9	114.0%
301+	3	1,296	63,274	54,372	42.0	116.4%	48.8	139.5%
Total Campus	145	10,659	332,819	446,239	41.9	74.6%	31.2	89.2%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	7	96	1,760	1,302.0	13.6	135.1%	18.3	91.6%
16 - 25	69	1,592	31,261	33,477.0	21.0	93.4%	19.6	98.2%
26 - 40	30	916	20,282	26,820.0	29.3	75.6%	22.1	110.7%
41+	6	294	2,389	4,292.0	14.6	55.7%	8.1	40.6%
Total Campus	112	2,898	55,691	65,891	22.7	84.5%	19.2	96.1%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Irvine

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	1	12	0	0	0.0	0.0%	0.0	0.0%
16 - 25	11	260	4,893	7,009	27.0	69.8%	18.8	53.8%
26 - 50	89	3,116	61,348	99,697	32.0	61.5%	19.7	56.3%
51 - 100	36	2,567	59,057	87,847	34.2	67.2%	23.0	65.7%
101 - 200	11	1,419	48,525	63,319	44.6	76.6%	34.2	97.7%
201 - 300	4	1,049	45,441	63,635	60.7	71.4%	43.3	123.8%
301+	6	2,271	91,553	120,244	52.9	76.1%	40.3	115.2%
Total Campus	158	10,694	310,817	441,750	41.3	70.4%	29.1	83.0%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	1	15	0	0	0.0	0.0%	0.0	0.0%
16 - 25	24	537	11,640	14,572	27.1	79.9%	21.7	108.4%
26 - 40	5	163	2,522	2,463	15.1	102.4%	15.5	77.4%
41+	6	296	7,875	10,611	35.8	74.2%	26.6	133.0%
Total Campus	36	1,011	22,037	27,646	27.3	79.7%	21.8	109.0%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Los Angeles

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	6	82	1,714	2,137	26.1	80.2%	20.9	59.7%
16 - 25	53	1,088	26,793	36,518	33.6	73.4%	24.6	70.4%
26 - 50	114	4,184	90,633	144,441	34.5	62.7%	21.7	61.9%
51 - 100	50	3,605	65,178	109,076	30.3	59.8%	18.1	51.7%
101 - 200	26	3,604	81,431	127,354	35.3	63.9%	22.6	64.6%
201 - 300	6	1,550	46,703	67,467	43.5	69.2%	30.1	86.1%
301+	7	2,571	67,958	93,193	36.2	72.9%	26.4	75.5%
Total Campus	262	16,684	380,410	580,186	34.8	65.6%	22.8	65.1%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	2	29	342	453	15.6	75.5%	11.8	59.0%
16 - 25	31	654	15,716	16,514	25.3	95.2%	24.0	120.2%
26 - 40	6	207	3,037	4,605	22.2	66.0%	14.7	73.4%
41+	3	194	1,676	4,733	24.4	35.4%	8.6	43.2%
Total Campus	42	1,084	20,771	26,305	24.3	79.0%	19.2	95.8%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Merced

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	2	24	315	672	28.0	46.9%	13.1	37.5%
16 - 25	15	337	13,273	16,937	50.3	78.4%	39.4	112.5%
26 - 50	12	423	13,861	23,127	54.7	59.9%	32.8	93.6%
51 - 100	7	494	14,562	22,711	29.5	156.0%	29.5	84.2%
101 - 200	5	710	20,131	31,938	45.0	63.0%	28.4	81.0%
201 - 300								
301+	1	377	13,388	20,735	55.0	64.6%	35.5	101.5%
Total Campus	42	2,365	75,530	116,120	49.1	65.0%	31.9	91.2%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15								
16 - 25	19	424	8,965	11,164	26.3	80.3%	21.1	105.7%
26 - 40	7	225	6,923	10,337	45.9	67.0%	30.8	153.8%
41+	1	53	1,514	3,074				
Total Campus	27	702	17,402	24,575	35.0	70.8%	24.8	123.9%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Riverside

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	3	40	1,215	1,650	41.3	73.6%	30.4	86.8%
16 - 25	5	117	3,450	4,743	40.5	72.7%	29.5	84.2%
26 - 50	49	1,761	56,197	79,241	45.0	70.9%	31.9	91.2%
51 - 100	15	1,065	35,365	44,735	42.0	79.1%	33.2	94.9%
101 - 200	6	794	31,651	39,879	50.2	79.4%	39.9	113.9%
201 - 300	4	1,165	35,726	48,919	42.0	73.0%	30.7	87.6%
301+	5	1,952	64,724	82,458	42.2	78.5%	33.2	94.7%
Total Campus	87	6,894	228,328	301,625	43.8	75.7%	33.1	94.6%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	2	26	552	690	26.5	80.0%	21.2	106.2%
16 - 25	48	1,058	26,531	26,679	25.2	99.4%	25.1	125.4%
26 - 40	7	209	6,986	8,327	39.8	83.9%	33.4	167.1%
41+	2	120	2,973	4,710	39.3	63.1%	24.8	123.9%
Total Campus	59	1,413	37,042	40,406	28.6	91.7%	26.2	131.1%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

San Diego

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	16	232	6,801	7,389	31.8	92.0%	29.3	83.8%
16 - 25	17	345	9,992	13,591	39.4	73.5%	29.0	82.7%
26 - 50	41	1,507	40,451	55,715	37.0	72.6%	26.8	76.7%
51 - 100	21	1,429	32,384	46,951	32.9	69.0%	22.7	64.7%
101 - 200	18	2,883	102,167	138,267	48.0	73.9%	35.4	101.3%
201 - 300	3	811	37,001	43,786	54.0	84.5%	45.6	130.4%
301+	5	1,915	85,445	105,648	55.2	80.9%	44.6	127.5%
Total Campus	121	9,122	314,240	411,347	45.1	76.4%	34.4	98.4%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	0	-	-	-				
16 - 25	38	887	21,933	23,523	26.5	93.2%	24.7	123.6%
26 - 40	6	186	2,824	3,402	18.3	83.0%	15.2	75.9%
41+	3	150	1,771	3,240	21.6	54.7%	11.8	59.0%
Total Campus	47	1,223	26,528	30,165	24.7	87.9%	21.7	108.5%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Santa Barbara

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	6	79	940	1,265	16.0	74.3%	11.9	34.0%
16 - 25	31	650	12,920	17,995	27.7	71.8%	19.9	56.8%
26 - 50	61	2,150	50,837	80,012	37.2	63.5%	23.6	67.6%
51 - 100	27	1,961	41,137	62,946	32.1	65.4%	21.0	59.9%
101 - 200	8	1,162	37,810	47,598	41.0	79.4%	32.5	93.0%
201 - 300	2	492	15,160	20,549	41.8	73.8%	30.8	88.0%
301+	2	660	29,244	30,679	46.5	95.3%	44.3	126.6%
Total Campus	137	7,154	188,048	261,045	36.5	72.0%	26.3	75.1%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	6	71	545	743	10.5	73.3%	7.7	38.4%
16 - 25	37	808	20,776	22,257	27.5	93.3%	25.7	128.6%
26 - 40	13	432	7,769	12,579	29.1	61.8%	18.0	89.9%
41+	3	163	2,308	3,588	22.0	64.3%	14.2	70.8%
Total Campus	59	1,474	31,398	39,168	26.6	80.2%	21.3	106.5%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Santa Cruz

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	2	30	254	414	13.8	61.4%	8.5	24.2%
16 - 25	29	635	20,470	25,520	40.2	80.2%	32.2	92.1%
26 - 50	30	1,143	41,364	61,932	54.2	66.8%	36.2	103.4%
51 - 100	12	914	26,010	43,918	48.1	59.2%	28.5	81.3%
101 - 200	7	996	35,402	48,860	49.1	72.5%	35.5	101.6%
201 - 300	3	706	33,714	43,202	61.2	78.0%	47.8	136.4%
301+	3	1,155	57,347	150,174	130.0	38.2%	49.7	141.9%
Total Campus	86	5,579	214,561	374,020	67.0	57.4%	38.5	109.9%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	2	24	394	297	12.4	132.7%	16.4	82.1%
16 - 25	32	646	12,797	13,766	21.3	93.0%	19.8	99.0%
26 - 40	4	122	2,864	3,532	29.0	81.1%	23.5	117.4%
41+	1	50	2,722	3,000	60.0	90.7%	54.4	272.2%
Total Campus	39	842	18,777	20,595	24.5	91.2%	22.3	111.5%

DEFINITION OF TERMS USED IN UTILIZATION TABLES

Fall Term - Indicates a snapshot date-in-time, the end of the third week of classes in the fall term, at which time data is collected for utilization reporting.

Room - Utilization data is reported for classrooms (i.e., classrooms and seminar rooms) and teaching laboratories, in general and professional instruction and research programs.

Station - Student stations, usually chairs or stools--not the work area or set-up itself which may be shared by two or more students. For example, a single computer may serve two student seats. The number of stations in this case equals two.

Weekly Student Contact Hours (WSCH) - The "workload" measurement of students, indicating the number of hours per week that each student is scheduled to attend a class in each of the facilities in which the class is scheduled. Weekly student contact hours are the products of class enrollments and weekly class hours. For example, a course that has 40 students and meets for three lecture hours and three lab hours per week generates 3×40 or 120 WSCH in lecture (classroom activity), and 3×40 or 120 WSCH in laboratory activity. Only those WSCH scheduled in classrooms, seminar rooms, and teaching laboratories are reported for utilization. There are no utilization standards for other types of rooms in which scheduled instruction may occur.

Weekly Room Hours (WRH) - Designates the time that a room is used on a weekly basis for the scheduled activities required for a course. (Also expressed as Weekly Station Hours.)

Percentage of Station Occupancy - The percentage of available stations occupied while the room is in use. An average calculated by dividing the weekly student contact hours (WSCH) by the weekly room hours.

Average Weekly Station Hours - Also expressed as Average Weekly Student Contact Hours per Station, or Average Station Use. Calculated by dividing weekly student contact hours by the total number of stations, or by multiplying weekly room hours per room by the average station occupancy. The result is the room's utilization, which is compared to the standard for a room of its type.



University of California
Capital Programs
**Classroom and Teaching Lab Utilization
Report**

October 2015

FALL 2014 CLASSROOM AND TEACHING LABORATORY UTILIZATION UNIVERSITY OF CALIFORNIA

I. INTRODUCTION

This is the University of California's biennial report of fall term utilization of classrooms and teaching laboratories. The purpose of the report is to compare the utilization of specific types of rooms to established standards. This report provides one piece of useful information which, coordinated with other analyses, assists in the development and review of a campus capital program.

The report is in accordance with the legislative request set forth in the Education Code as follows:

67503. (a) On or before November 1, 2010, and at least biennially thereafter, the University of California is requested to, and the California State University shall, report on the utilization of classrooms and teaching laboratories. The report shall include for each campus in their respective system the total number of rooms, number of stations, weekly student contact hours, and weekly station hours. The report shall also include the average weekly hours of station use and actual utilization as a percentage of the utilization standard.

The data contained in the enclosed report reflect campus enrollments from the 2014 fall term.

II. THE STANDARDS

Each campus collects data about class schedules and class enrollment, combines these data with the inventory of rooms to which utilization standards apply, and then compares the resulting room utilization with the following legislatively approved standards:

- Classrooms: 35 weekly student contact hours per station
- Teaching Laboratories: 20 weekly student contact hours per station

These standards are based on (a) the expected number of hours a room is to be scheduled, and (b) the percentage of stations expected to be occupied when the room is scheduled.

Classrooms. The approved standard for classrooms, as established in 1970 in Assembly Concurrent Resolution 151, expects a room to be scheduled (on average) 75% of the 70 hours that fall between 8 a.m. and 10 p.m., Monday through Friday; i.e., 52.5 hours per week. During these scheduled hours, it is expected that two-thirds (66.7%) of the stations will be occupied. Combining the expectation of scheduling with the expectation of occupancy, one arrives at the standard of 35 weekly student contact hours per station (52.5 hours x 66.7%) occupancy for classrooms.

The classroom standard applies to all campus general-assignment and departmentally controlled classrooms and seminar rooms within general and professional instruction and research (I&R) programs. Excluded from this official submittal are health sciences, University Extension, and other non-standard programs and rooms (for example: physical education, military science, etc.). Presentation of classroom utilization in terms of the 35 hour standard is in compliance with supplemental language of the Budget Act of 1973.

Teaching Laboratories. The Supplemental Report to the 1973 Budget Act defined teaching laboratory standards for lower division and upper division teaching laboratories. The University does not distinguish among levels of instruction in its inventory of rooms, since teaching laboratories may serve each population in a given week, or even simultaneously, depending on class enrollment and scheduling. The average of the two standards (23.4 hours for lower division, 17.6 hours for upper division) results in 20 hours per week expected utilization, based on a 45-hour week, between 8 a.m. and 5 p.m., Monday through Friday.

The teaching laboratory standard applies to campus general-assignment (if any) and departmentally controlled class laboratories for both general and professional instruction and research (I&R) programs. Excluded from this official submittal are health sciences, University Extension, and other non-standard programs and rooms (for example, physical education, military science, etc.). Also excluded from the attached report are: special class laboratories (specially equipped labs serving a small number of courses, which for reasons of safety or expense cannot be used for other courses) and open laboratories, in which unscheduled but required instruction takes place, such as language labs, music studios, and self-instructional computer/media labs.

III. REPORT FORMAT

The tables on the first page of Appendix A present total campus utilization statistics for classrooms and teaching laboratories. The remaining tables in Appendix A provide detailed information for each campus, showing utilization by size of room. These latter tables are particularly important for identifying possible mismatches between the size of rooms that are available and the size of classes being scheduled.

The formula used to calculate utilization is shown at the top of each column, and a definition of terms is included in Appendix B.

IV. CAVEATS ABOUT UTILIZATION DATA

The utilization standards are based on certain assumptions about class scheduling, room availability, and the nature of instruction. Campus practice in the use and scheduling of rooms and approaches to instruction may vary in a variety of ways from these assumptions. Since standards are at best averages that present only part of a picture, it is important to consider the following caveats when reviewing campus utilization reports, so as not to draw incorrect conclusions.

Room Availability. The utilization standards are based on an assumption that classrooms and teaching laboratories serve a single purpose and are available exclusively for that purpose. In fact, however, there are departments that use the rooms within their control for multiple purposes. This leads to an efficient use of space within the department (for example, using a room for scheduled seminars, independent study, and departmental meetings), but limits the availability of the room for 100% scheduled instruction. Since utilization measures only the instructional activities in rooms, it is not correct to assume that low utilization means rooms are standing empty.

Scheduling Pattern. The standards are based on a presumption that courses are scheduled according to a predictable pattern, such as one-hour, Monday-Wednesday-Friday classes, or one- and-a-half hour, Tuesday-Thursday classes. Such a pattern allows for a fairly simple "building block" approach to scheduling, with classes starting predictably on the hour or half-hour. When departments deviate from that practice, for example, by scheduling a three-hour lecture on Mondays only, it may be difficult to find courses for the corresponding time blocks on Wednesday and Friday. Another scheduling reality is that a course of study may not require laboratory experiences, for example, until the winter or spring quarter, making for uneven utilization patterns across the year.

Unscheduled Hours. Not all of a student's instructional time in a room is accounted for in utilization reports. For example, a course may have six hours a week of scheduled laboratory activity but will require an additional number of hours of unscheduled work in the same room. A student may have to return every few hours to continue work on an experiment or project. However, since these hours are not scheduled, they cannot be counted for utilization purposes. If a room is available for the student's required but unscheduled activities, it is unavailable for other courses.

Nature of Instruction. The way a course is taught may affect a room's utilization, particularly in teaching laboratories. The standards assume that all courses are taught in similar ways (i.e., students arrive in a room, conduct an experiment, clean-up, and leave, making the room available for the next class). However, some courses require a set-up of apparatus or experiments that must remain in place for days, weeks, or even the

duration of the quarter. During the time they are set up, the room is not available to other courses for instruction.

Room Suitability. Two other factors affect whether the inventory of available classrooms and teaching laboratories are suitable to meet the curricular needs of programs. The first is "room fit" (i.e., whether there are enough rooms with the correct number of stations to match class size). Classes with small enrollments may have to meet in rooms that are too large for them if there are not enough small classrooms available. Lack of suitable rooms may also require, for example, that lecture or discussion courses be scheduled in teaching laboratories. Such a situation may lead to "good" utilization for those laboratories but obscures that fact that the rooms are being used inappropriately.

A second factor, particularly in teaching laboratories but to some degree in classrooms, is the suitability of the design and equipment for the courses being offered. The availability or absence of certain equipment, such as computer linkages or projection screens, may affect utilization. Some teaching laboratories, which by definition are already limited to use by a single discipline, may be sufficiently specialized that it is difficult to schedule a large number of courses in them (although not so specialized as to qualify them for special laboratory status). This holds true particularly in the sciences and engineering, fields of study that increasingly require specialized rooms and equipment to teach even beginning students.

Preparation/Set-up Time. While utilization standards recognize to some extent that time is required to set-up and clean-up the activities, the standards are only averages which may not reflect the requirements of some campus programs, which can be very elaborate and time-consuming. Also, if there is only limited staff assistance available, it takes longer to prepare the room, further limiting the time it is available.

Appropriateness of the Standard. The University agrees with the findings of the MGT review of space and utilization standards in the United States, as reported in the 1990 CPEC report, *A Capacity for Learning*, that a classroom utilization standard of 30 hours is more realistic than California's current standard of 35 hours. Among the reasons cited in this comprehensive report was the relationship of the support budget to utilization, that is, attempts to make any significant impact on utilization by offering more evening classes, which places undue strains on the support budget. The report also notes that full-time day students, such as University students, tend to extend their studies an extra term rather than attend evening classes. Thus, the expectations of the standard that classes be held until 10 p.m. in the evening are not reflective of actual attendance.

V. CONCLUSION

Utilization standards are a valuable tool for measuring the use of facilities. They have provoked serious and fruitful discussion at each campus about how to find more efficient ways of scheduling courses and rooms, so as not to waste valuable facilities resources. Nevertheless, it is not appropriate to achieve maximum utilization at the expense of carefully thought-out programmatic and pedagogical choices. Utilization data goes only so far in evaluating the need for more or different instructional facilities, and academic choices about how best to teach must be respected.

UNIVERSITY OF CALIFORNIA
UTILIZATION SUMMARY
Fall 2014

Universitywide

TABLE U-1C: Classroom Utilization

Campus	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
Berkeley	290	16,565	395,470	575,381	34.7	68.7%	23.9	68.2%
Davis	145	10,659	332,819	446,239	41.9	74.6%	31.2	89.2%
Irvine	158	10,694	310,817	441,750	41.3	70.4%	29.1	83.0%
Los Angeles	262	16,684	380,410	580,186	34.8	65.6%	22.8	65.1%
Merced	42	2,365	75,530	116,120	49.1	65.0%	31.9	91.2%
Riverside	87	6,894	228,328	301,625	43.8	75.7%	33.1	94.6%
San Diego	121	9,122	314,240	411,347	45.1	76.4%	34.4	98.4%
Santa Barbara	137	7,154	188,048	261,045	36.5	72.0%	26.3	75.1%
Santa Cruz	86	5,579	214,561	374,020	67.0	57.4%	38.5	109.9%

TABLE U-1T: Teaching Laboratory Utilization

Campus	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
Berkeley	114	3,387	58,649	79,305	23.4	74.0%	17.3	86.6%
Davis	112	2,898	55,691	65,891	22.7	84.5%	19.2	96.1%
Irvine	36	1,011	22,037	27,646	27.3	79.7%	21.8	109.0%
Los Angeles	42	1,084	20,771	26,305	24.3	79.0%	19.2	95.8%
Merced	27	702	17,402	24,575	35.0	70.8%	24.8	123.9%
Riverside	59	1,413	37,042	40,406	28.6	91.7%	26.2	131.1%
San Diego	47	1,223	26,528	30,165	24.7	87.9%	21.7	108.5%
Santa Barbara	59	1,474	31,398	39,168	26.6	80.2%	21.3	106.5%
Santa Cruz	39	842	18,777	20,595	24.5	91.2%	22.3	111.5%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Berkeley

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	13	182	2,483	3,805	20.9	65.3%	13.6	39.0%
16 - 25	66	1,415	30,308	42,182	29.8	71.9%	21.4	61.2%
26 - 50	135	5,024	109,861	181,967	36.2	60.4%	21.9	62.5%
51 - 100	47	3,368	65,429	106,888	31.7	61.2%	19.4	55.5%
101 - 200	17	2,386	59,721	84,710	35.5	70.5%	25.0	71.5%
201 - 300	8	2,034	51,061	60,647	29.8	84.2%	25.1	71.7%
301+	4	2,156	76,608	95,183	44.1	80.5%	35.5	101.5%
Total Campus	290	16,565	395,470	575,381	34.7	68.7%	23.9	68.2%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	15	192	4,578	3,000	15.6	152.6%	23.8	119.2%
16 - 25	67	1,542	32,357	38,281	24.8	84.5%	21.0	104.9%
26 - 40	21	688	11,528	15,631	22.7	73.8%	16.8	83.8%
41+	11	965	10,186	22,394	23.2	45.5%	10.6	52.8%
Total Campus	114	3,387	58,649	79,305	23.4	74.0%	17.3	86.6%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Davis

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	9	134	2,151	3,256	24.3	66.1%	16.0	45.9%
16 - 25	14	302	8,483	11,116	36.8	76.3%	28.1	80.3%
26 - 50	62	2,458	64,373	104,987	42.7	61.3%	26.2	74.8%
51 - 100	32	2,346	56,675	95,250	40.6	59.5%	24.2	69.0%
101 - 200	21	3,024	94,012	122,213	40.4	76.9%	31.1	88.8%
201 - 300	4	1,099	43,851	55,046	50.1	79.7%	39.9	114.0%
301+	3	1,296	63,274	54,372	42.0	116.4%	48.8	139.5%
Total Campus	145	10,659	332,819	446,239	41.9	74.6%	31.2	89.2%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	7	96	1,760	1,302.0	13.6	135.1%	18.3	91.6%
16 - 25	69	1,592	31,261	33,477.0	21.0	93.4%	19.6	98.2%
26 - 40	30	916	20,282	26,820.0	29.3	75.6%	22.1	110.7%
41+	6	294	2,389	4,292.0	14.6	55.7%	8.1	40.6%
Total Campus	112	2,898	55,691	65,891	22.7	84.5%	19.2	96.1%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Irvine

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	1	12	0	0	0.0	0.0%	0.0	0.0%
16 - 25	11	260	4,893	7,009	27.0	69.8%	18.8	53.8%
26 - 50	89	3,116	61,348	99,697	32.0	61.5%	19.7	56.3%
51 - 100	36	2,567	59,057	87,847	34.2	67.2%	23.0	65.7%
101 - 200	11	1,419	48,525	63,319	44.6	76.6%	34.2	97.7%
201 - 300	4	1,049	45,441	63,635	60.7	71.4%	43.3	123.8%
301+	6	2,271	91,553	120,244	52.9	76.1%	40.3	115.2%
Total Campus	158	10,694	310,817	441,750	41.3	70.4%	29.1	83.0%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	1	15	0	0	0.0	0.0%	0.0	0.0%
16 - 25	24	537	11,640	14,572	27.1	79.9%	21.7	108.4%
26 - 40	5	163	2,522	2,463	15.1	102.4%	15.5	77.4%
41+	6	296	7,875	10,611	35.8	74.2%	26.6	133.0%
Total Campus	36	1,011	22,037	27,646	27.3	79.7%	21.8	109.0%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Los Angeles

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	6	82	1,714	2,137	26.1	80.2%	20.9	59.7%
16 - 25	53	1,088	26,793	36,518	33.6	73.4%	24.6	70.4%
26 - 50	114	4,184	90,633	144,441	34.5	62.7%	21.7	61.9%
51 - 100	50	3,605	65,178	109,076	30.3	59.8%	18.1	51.7%
101 - 200	26	3,604	81,431	127,354	35.3	63.9%	22.6	64.6%
201 - 300	6	1,550	46,703	67,467	43.5	69.2%	30.1	86.1%
301+	7	2,571	67,958	93,193	36.2	72.9%	26.4	75.5%
Total Campus	262	16,684	380,410	580,186	34.8	65.6%	22.8	65.1%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	2	29	342	453	15.6	75.5%	11.8	59.0%
16 - 25	31	654	15,716	16,514	25.3	95.2%	24.0	120.2%
26 - 40	6	207	3,037	4,605	22.2	66.0%	14.7	73.4%
41+	3	194	1,676	4,733	24.4	35.4%	8.6	43.2%
Total Campus	42	1,084	20,771	26,305	24.3	79.0%	19.2	95.8%

UNIVERSITY OF CALIFORNIA
UTILIZATION BY CAMPUS
Fall 2014

Merced

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	2	24	315	672	28.0	46.9%	13.1	37.5%
16 - 25	15	337	13,273	16,937	50.3	78.4%	39.4	112.5%
26 - 50	12	423	13,861	23,127	54.7	59.9%	32.8	93.6%
51 - 100	7	494	14,562	22,711	29.5	156.0%	29.5	84.2%
101 - 200	5	710	20,131	31,938	45.0	63.0%	28.4	81.0%
201 - 300								
301+	1	377	13,388	20,735	55.0	64.6%	35.5	101.5%
Total Campus	42	2,365	75,530	116,120	49.1	65.0%	31.9	91.2%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15								
16 - 25	19	424	8,965	11,164	26.3	80.3%	21.1	105.7%
26 - 40	7	225	6,923	10,337	45.9	67.0%	30.8	153.8%
41+	1	53	1,514	3,074				
Total Campus	27	702	17,402	24,575	35.0	70.8%	24.8	123.9%

UNIVERSITY OF CALIFORNIA
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Riverside

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	3	40	1,215	1,650	41.3	73.6%	30.4	86.8%
16 - 25	5	117	3,450	4,743	40.5	72.7%	29.5	84.2%
26 - 50	49	1,761	56,197	79,241	45.0	70.9%	31.9	91.2%
51 - 100	15	1,065	35,365	44,735	42.0	79.1%	33.2	94.9%
101 - 200	6	794	31,651	39,879	50.2	79.4%	39.9	113.9%
201 - 300	4	1,165	35,726	48,919	42.0	73.0%	30.7	87.6%
301+	5	1,952	64,724	82,458	42.2	78.5%	33.2	94.7%
Total Campus	87	6,894	228,328	301,625	43.8	75.7%	33.1	94.6%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	2	26	552	690	26.5	80.0%	21.2	106.2%
16 - 25	48	1,058	26,531	26,679	25.2	99.4%	25.1	125.4%
26 - 40	7	209	6,986	8,327	39.8	83.9%	33.4	167.1%
41+	2	120	2,973	4,710	39.3	63.1%	24.8	123.9%
Total Campus	59	1,413	37,042	40,406	28.6	91.7%	26.2	131.1%

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San Diego

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	16	232	6,801	7,389	31.8	92.0%	29.3	83.8%
16 - 25	17	345	9,992	13,591	39.4	73.5%	29.0	82.7%
26 - 50	41	1,507	40,451	55,715	37.0	72.6%	26.8	76.7%
51 - 100	21	1,429	32,384	46,951	32.9	69.0%	22.7	64.7%
101 - 200	18	2,883	102,167	138,267	48.0	73.9%	35.4	101.3%
201 - 300	3	811	37,001	43,786	54.0	84.5%	45.6	130.4%
301+	5	1,915	85,445	105,648	55.2	80.9%	44.6	127.5%
Total Campus	121	9,122	314,240	411,347	45.1	76.4%	34.4	98.4%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	0	-	-	-				
16 - 25	38	887	21,933	23,523	26.5	93.2%	24.7	123.6%
26 - 40	6	186	2,824	3,402	18.3	83.0%	15.2	75.9%
41+	3	150	1,771	3,240	21.6	54.7%	11.8	59.0%
Total Campus	47	1,223	26,528	30,165	24.7	87.9%	21.7	108.5%

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Santa Barbara

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	6	79	940	1,265	16.0	74.3%	11.9	34.0%
16 - 25	31	650	12,920	17,995	27.7	71.8%	19.9	56.8%
26 - 50	61	2,150	50,837	80,012	37.2	63.5%	23.6	67.6%
51 - 100	27	1,961	41,137	62,946	32.1	65.4%	21.0	59.9%
101 - 200	8	1,162	37,810	47,598	41.0	79.4%	32.5	93.0%
201 - 300	2	492	15,160	20,549	41.8	73.8%	30.8	88.0%
301+	2	660	29,244	30,679	46.5	95.3%	44.3	126.6%
Total Campus	137	7,154	188,048	261,045	36.5	72.0%	26.3	75.1%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	6	71	545	743	10.5	73.3%	7.7	38.4%
16 - 25	37	808	20,776	22,257	27.5	93.3%	25.7	128.6%
26 - 40	13	432	7,769	12,579	29.1	61.8%	18.0	89.9%
41+	3	163	2,308	3,588	22.0	64.3%	14.2	70.8%
Total Campus	59	1,474	31,398	39,168	26.6	80.2%	21.3	106.5%

UNIVERSITY OF CALIFORNIA
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Santa Cruz

TABLE U-2C: Classroom Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/35
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	2	30	254	414	13.8	61.4%	8.5	24.2%
16 - 25	29	635	20,470	25,520	40.2	80.2%	32.2	92.1%
26 - 50	30	1,143	41,364	61,932	54.2	66.8%	36.2	103.4%
51 - 100	12	914	26,010	43,918	48.1	59.2%	28.5	81.3%
101 - 200	7	996	35,402	48,860	49.1	72.5%	35.5	101.6%
201 - 300	3	706	33,714	43,202	61.2	78.0%	47.8	136.4%
301+	3	1,155	57,347	150,174	130.0	38.2%	49.7	141.9%
Total Campus	86	5,579	214,561	374,020	67.0	57.4%	38.5	109.9%

TABLE U-2T: Teaching Laboratory Utilization by Room Size

Station Count	A	B	C	D	E=D/B	F=C/D	G=C/B or G=E x F	H=G/20
	Total Number Rooms	Total Number Stations	Total Wkly Student Contact Hours	Total Weekly Station Hours	Average Weighted WRH	Average % Station Occupancy	Average Weekly Hrs Station Use	Utilization as % of Standard
1 - 15	2	24	394	297	12.4	132.7%	16.4	82.1%
16 - 25	32	646	12,797	13,766	21.3	93.0%	19.8	99.0%
26 - 40	4	122	2,864	3,532	29.0	81.1%	23.5	117.4%
41+	1	50	2,722	3,000	60.0	90.7%	54.4	272.2%
Total Campus	39	842	18,777	20,595	24.5	91.2%	22.3	111.5%

DEFINITION OF TERMS USED IN UTILIZATION TABLES

Fall Term - Indicates a snapshot date-in-time, the end of the third week of classes in the fall term, at which time data is collected for utilization reporting.

Room - Utilization data is reported for classrooms (i.e., classrooms and seminar rooms) and teaching laboratories, in general and professional instruction and research programs.

Station - Student stations, usually chairs or stools--not the work area or set-up itself which may be shared by two or more students. For example, a single computer may serve two student seats. The number of stations in this case equals two.

Weekly Student Contact Hours (WSCH) - The "workload" measurement of students, indicating the number of hours per week that each student is scheduled to attend a class in each of the facilities in which the class is scheduled. Weekly student contact hours are the products of class enrollments and weekly class hours. For example, a course that has 40 students and meets for three lecture hours and three lab hours per week generates 3×40 or 120 WSCH in lecture (classroom activity), and 3×40 or 120 WSCH in laboratory activity. Only those WSCH scheduled in classrooms, seminar rooms, and teaching laboratories are reported for utilization. There are no utilization standards for other types of rooms in which scheduled instruction may occur.

Weekly Room Hours (WRH) - Designates the time that a room is used on a weekly basis for the scheduled activities required for a course. (Also expressed as Weekly Station Hours.)

Percentage of Station Occupancy - The percentage of available stations occupied while the room is in use. An average calculated by dividing the weekly student contact hours (WSCH) by the weekly room hours.

Average Weekly Station Hours - Also expressed as Average Weekly Student Contact Hours per Station, or Average Station Use. Calculated by dividing weekly student contact hours by the total number of stations, or by multiplying weekly room hours per room by the average station occupancy. The result is the room's utilization, which is compared to the standard for a room of its type.