

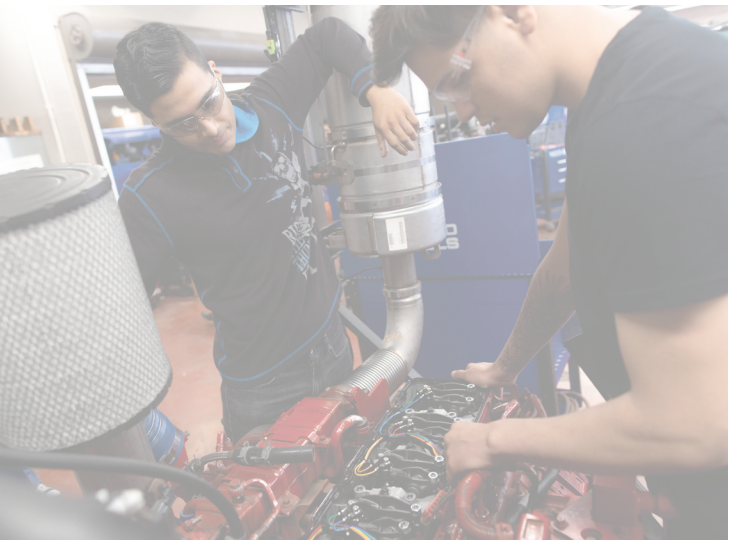


RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

INSTRUCTIONAL SPACE UTILIZATION STUDY 2023

JANUARY 26, 2024

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INTRODUCTION

The District initiated this study to understand how instructional spaces on its two main college campuses are utilized according to State standards and definitions of utilization expectations. The study also looks at what changes, if any, the pandemic has brought about in use of these spaces, by evaluating data from Fall 2019 (pre-pandemic) and Fall 2022.

The District's objective is to:

- Understand campus use as measured against State standards and metrics;
- Identify any areas where utilization can improve for classrooms and class labs;
- Reduce maintenance and operational costs (M&O);
- Identify spaces that can be re-purposed to meet unmet programmatic needs;
- Align space usage in alignment with campus goals as identified in each campus' Facilities Master Plans;
- Better position the District for State Matching Funds on Capital Improvement Projects.

Each of these has impacts on the core mission of the District and its Colleges: the delivery of instruction and support services needed by students to succeed in their educational goals. Recognizing that changes to student enrollments evolve continuously, this study is a snapshot in time, conducted as a planning exercise to help inform and guide the District's Facilities Master Plans and future use of facilities.

GLOSSARY OF TERMS

Based on Title 5 CCR and the California Community Colleges Chancellor's Office Facilities Planning Manual and Student Attendance Accounting Manual

Assignable Square Feet (ASF)

The usable square footage of a room or space measured from face of wall to face of wall.

CCCCO

Short for California Community Colleges Chancellor's Office (often referred to as the "State" informally) is the governing body for California Community College's funding, space utilization, facilities planning, attendance accounting, etc.

Cap-Load Ratio

Short for Capacity - Load Ratio. This ratio, expressed as a percent, is the product of the computed capacity of the category of space divided by the actual usage. Ratios above 100% indicate an excess of space; ratios below 100% indicate a deficiency of space.

Full-Time Equivalent Students (FTES)

A "full-time student" is defined as one who is enrolled 15 hours per week for two 17.5 week semesters. This is how enrollment is measured and it is how funding is determined. It assumes the student has 15 hours x 35 weeks = 525 hours of instruction in the academic year.

Gross Square Feet (GSF)

The total area of a building within the exterior walls including all ASF plus wall thicknesses (interior and exterior), circulation spaces, mechanical, electrical, janitorial spaces, and other service areas.

Student Station

The seat or workspace for each student in a lecture classroom or laboratory.

Unduplicated Annual Headcount Enrollment

Represents the number of distinct individuals who have enrolled in any community college course or program during a specified twelve-month period, regardless of the number of credit hours each student carries.

Weekly Student Contact Hours (WSCH)

The number of hours a week students actually occupy a station or seat for time associated with an officially recognized instructional program. WSCH may be identified as credit or noncredit and in California is based on programs eligible for State funding. In California, the annualized average of fall and spring semesters is used as the planning base. Summer sessions are not included.

STATE SPACE UTILIZATION STANDARDS EXPLAINED

Based on Board of Governors of the California Community Colleges Policy on Utilization and Space Standards (771078.1) 2020 Revision to Title 5 CCR Standards

The Board of Governors of the California Community Colleges (BOG) Policy on Utilization and Space Standards (Title 5 Standards) set standards for the number of hours and occupants an educational space should be used to achieve efficient room usage.

Per the BOG Policy different utilization standards apply to classroom use and class lab use, but both are based on a 70-hour per week room availability: Monday through Friday from 8:00 am to 10:00 pm.*

Lecture Classrooms

Each Classroom should be utilized a minimum of 53 hours a week for campuses with more than 140,000 WSCH (applicable to SAC)

This translates to 10.6 hours out of 14 hours per day for each SAC classroom

Each Classroom should be utilized a minimum of 48 hours a week for campuses with less than 140,000 WSCH (applicable to SCC)

This translates to 9.6 hours out of 14 hours per day for each SCC classroom

Furthermore, during the hours each classroom is used, 66% of the student seats (stations) should be occupied.

Class Labs

Each Class Lab should be utilized a minimum of 27.5 hours a week (regardless of campus WSCH)

This translates to 5.5 hours out of 14 hours per day for each SAC and SCC class lab

Furthermore, during the hours each class lab is used, 85% of the student seats (stations) should be occupied.

**Weekend classes are excluded from utilization calculations as are non-credit use on any day of the week.*

STATE SPACE UTILIZATION STANDARDS EXPLAINED

Based on Board of Governors of the California Community Colleges Policy on Utilization and Space Standards (771078.1) 2020 Revision to Title 5 CCR Standards

As part of the Utilization Standards, the State also expects instructional spaces to support a particular WSCH capacity, depending on classroom/class lab designation, size (in terms of assignable square footage), and TOP Code Classification. These are known as the **WSCH Capacity** for classrooms and the **WSCH Capacity** for class labs.

For each hour that an instructional room hosts a section of students, that instructional room generates one contact hour. Actual WSCH (called **WSCH Load**) is calculated by multiplying the room's total contact hours per week by the room's student enrollment, multiplied by the number of weeks in a term (16.6 weeks for RSCCD). The student enrollment numbers used are the *physically present* students, in other words students participating remotely are not counted as part of the actual WSCH generated by that instructional room.

The State expects WSCH Capacity to equal WSCH Load for each instructional space. This is commonly referred to as **CAP-LOAD RATIO** and it is expressed as a percentage of 100% when they equal each other per State expectations.

Having a CAP-LOAD ratio above 100% means those spaces are under-utilized per State Utilization Standards and therefore the campus has excess space in that instructional category. Whereas a CAP-LOAD ratio below 100% means that the campus is exceeding State Utilization Standards and could afford to add space in that instructional category.

As an example, a classroom that can accommodate 1,000 WSCH during one week, and which produces 1,000 WSCH for that week has a capacity ratio of 100%:

$$\frac{\text{CAPACITY}}{\text{LOAD}} \times 100\% \qquad \frac{1{,}000}{1{,}000} \times 100\% = 100\%$$

However, if that same room only produced 750 WSCH, the CAP-LOAD ratio for that space is 133% (see below) indicating that the room is under utilized (per State Standards):

$$\frac{\text{CAPACITY}}{\text{LOAD}} \times 100\% \qquad \frac{1{,}000}{750} \times 100\% = 133\%$$

SPACE UTILIZATION TARGETS USED FOR THIS STUDY

While the State expects WSCH Capacity to equal WSCH Load for each instructional space (i.e. a CAP-LOAD Ratio of 100%), the District recognizes the scheduling challenges Community Colleges face in achieving the State's target. **As such the District has proposed a target of being within 30% of meeting State Utilization Standards (aka a CAP-LOAD Ratio of 130%) as a stepping stone in working towards the State's Space Utilization Standards.**

In other words instructional spaces having a CAP-LOAD Ratio between 100% and 130% are considered "averagely utilized" by the *District*, and the District's recommendation is to get as many classrooms and class labs to be within the 100% to 130% CAP-LOAD Ratio range.

BASIS OF THE STUDY

Campuses Studied

This study looks only at the two major campuses: Santa Ana College* (SAC) and Santiago Canyon College (SCC).

Spaces Studied

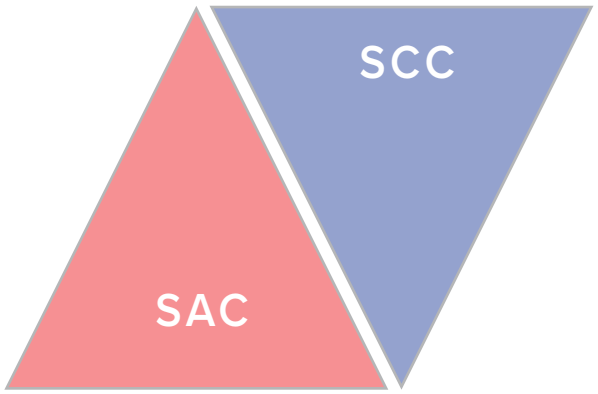
This study focuses on the utilization of classrooms and class labs at both campuses. These rooms are coded as 110 Classroom and 210 Class Lab in the District Space Inventory.

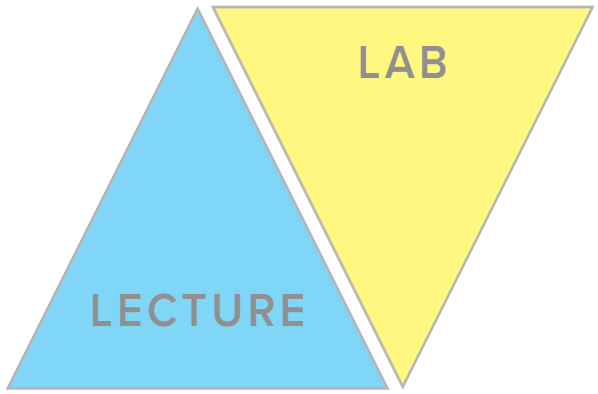
While 220 Special Class Labs and 230 Individual Class Labs are also utilized by students, it is understood that these spaces are typically not scheduled independently from the main class labs they are associated with.

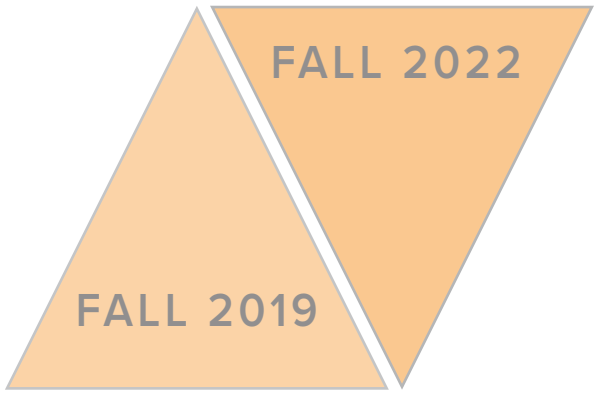
Semesters Studied

Acknowledging that the pandemic years 2020 - 2021 were atypical for all California Community Colleges, this study analyzes the data from the Fall of 2019 (pre-pandemic) with the Fall of 2022.

**SAC analysis excludes Digital Media Center and Orange County Sheriff's Regional Training Center*







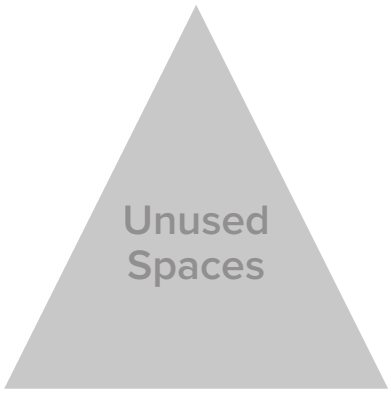
METRICS LEGEND

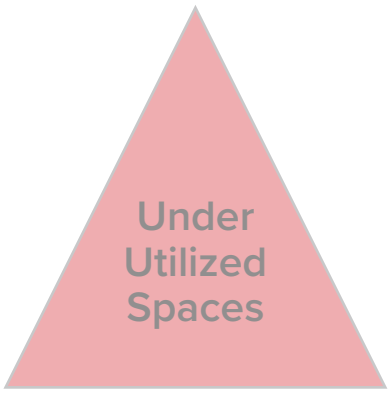
Unused Spaces
Instructional spaces showing no scheduling data, indicating that these rooms are not being used.

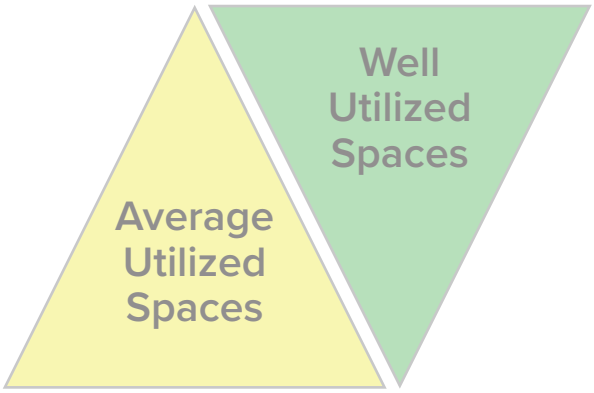
Under Utilized Spaces
Instructional spaces having a CAP-LOAD Ratio of **above** 130%, indicating that these spaces are under utilized per State and District Standards (see pages 8 - 9).

Average Utilized Spaces
Instructional spaces having a CAP-LOAD Ratio **between** 100% and 130%, indicating that these spaces are *within* 30% of meeting State Standards and are considered averagely utilized by the District.

Well Utilized Spaces
Instructional spaces that have a CAP-LOAD Ratio of 100% or less, indicating that these spaces meet or exceed State Standards.







DATA RESULTS

On the following pages we provide the data analysis that helped inform the recommendations in this document:

- Data Used for this Study
- Classrooms:
  - Classrooms Utilization: SAC and SCC Fall 2022
  - Classrooms Historical Comparison: Fall 2019 versus Fall 2022
  - SAC Classrooms Peak Use: Fall 2022
  - SCC Classrooms Peak Use: Fall 2022
  - SAC Seat Utilization of Large Classrooms: Fall 2019 and Fall 2022
  - SCC Seat Utilization of Large Classrooms: Fall 2019 and Fall 2022
- Class Labs:
  - Class Labs Utilization: SAC and SCC Fall 2022
  - Class Labs Historical Comparison: Fall 2019 versus Fall 2022
  - SAC Class Labs Peak Use: Fall 2022
  - SCC Class Labs Peak Use: Fall 2022
  - SAC Computer Lab Analysis: Fall 2022
  - SCC Computer Lab Analysis: Fall 2022
- SAC Teaching Modalities Historical Comparison: Fall 2019 versus Fall 2022
- SCC Teaching Modalities Historical Comparison: Fall 2019 versus Fall 2022
- Friday and Saturday Use: SAC and SCC Campuses
- SAC Adult Education Impact on SAC Analysis
- SCC Adult Education Impact on SAC Analysis
- Classroom and Class Lab WSCH per Building Seat: SAC Campus Fall 2022
- Classroom and Class Lab WSCH per Building Seat: SCC Campus Fall 2022
- Facilities Conditions: SAC and SCC Campuses

DATA USED FOR THIS STUDY

The data used to calculate the (actual) WSCH load for each instructional space was the actual course scheduling instructional hours and the post census student enrollment for each of these courses, as captured in each college's scheduling database (for each applicable year studied).

The data used to calculate the WSCH capacity for each instructional space was the District's Space Inventory, which identifies room use (lecture or lab), size (assignable square footage), and TOP Code Classification. State formulas calculate WSCH capacity based on this information.

The District's Research, Planning & Institutional Effectiveness provided the data on teaching modalities for each applicable year studied.

The Facilities Conditions evaluation data was provided by the District based on the evaluation undertaken for the 2022 Facilities Master Plan Update.

CLASSROOMS UTILIZATION:

SAC and SCC Fall 2022

Unused Classrooms

17 out of 91* classrooms at the SAC campus are not used at all

14 out of 75 classrooms at the SCC campus are not used at all

Under Utilized Classrooms

73 out of 91* classrooms at the SAC campus are under utilized

61 out of 75 classrooms at the SCC campus are under utilized

Average Utilized Classrooms

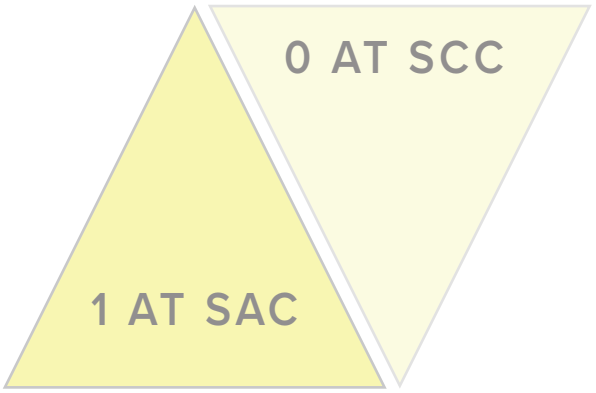
Only 1 classroom out of 91* is averagely utilized

No classrooms out of 75 at the SCC campus are averagely utilized

Well Utilized Classrooms

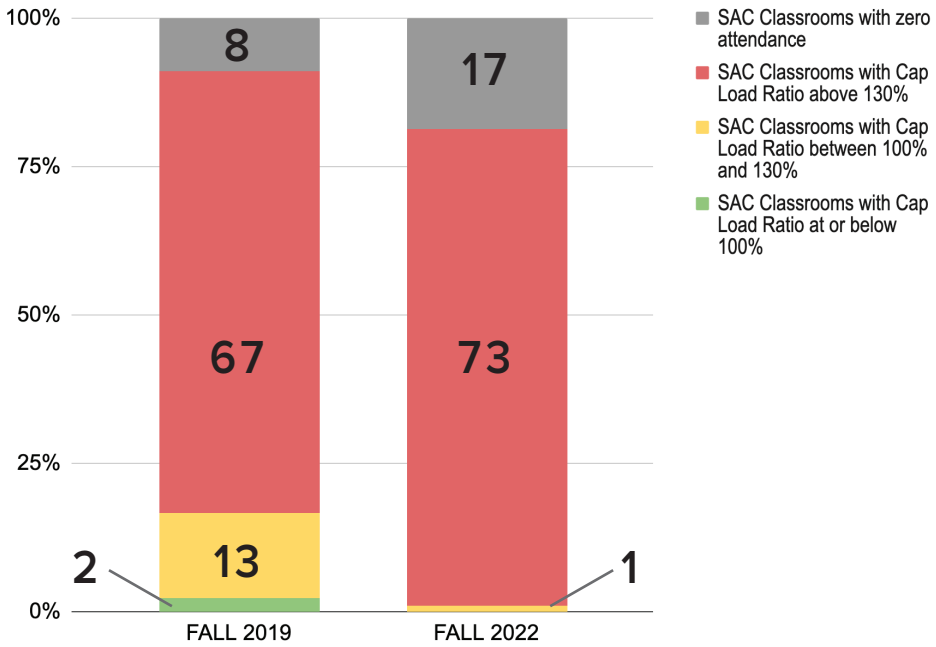
No classrooms at either SAC or SCC are well utilized

**Russell Hall included. After Russell Hall is demolished and the New Health Sciences is completed, there will be a net reduction of 10 classrooms at the SAC campus.*

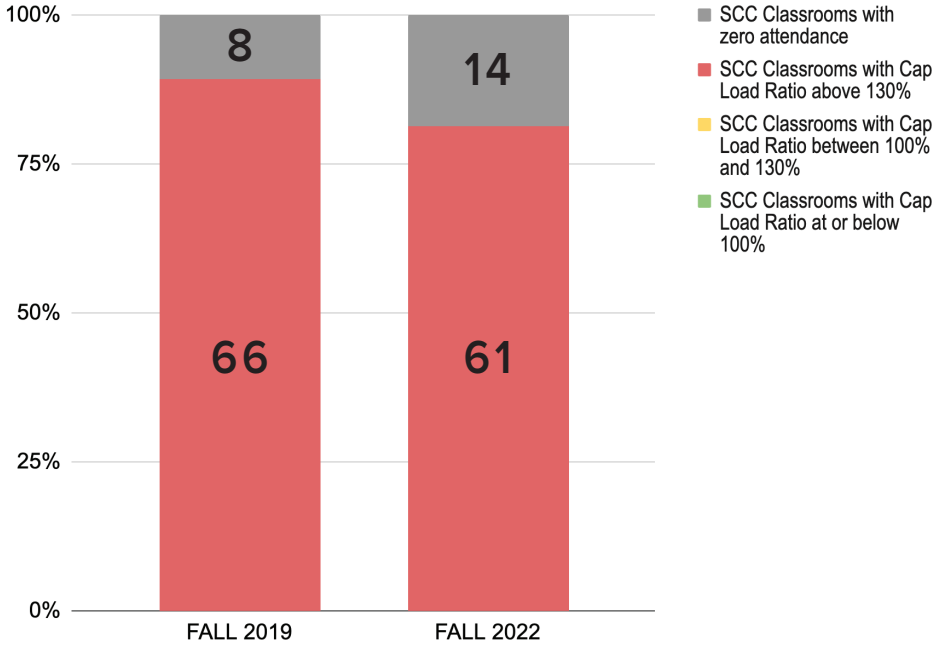


CLASSROOMS HISTORICAL COMPARISON:

Fall 2019 versus Fall 2022



SAC

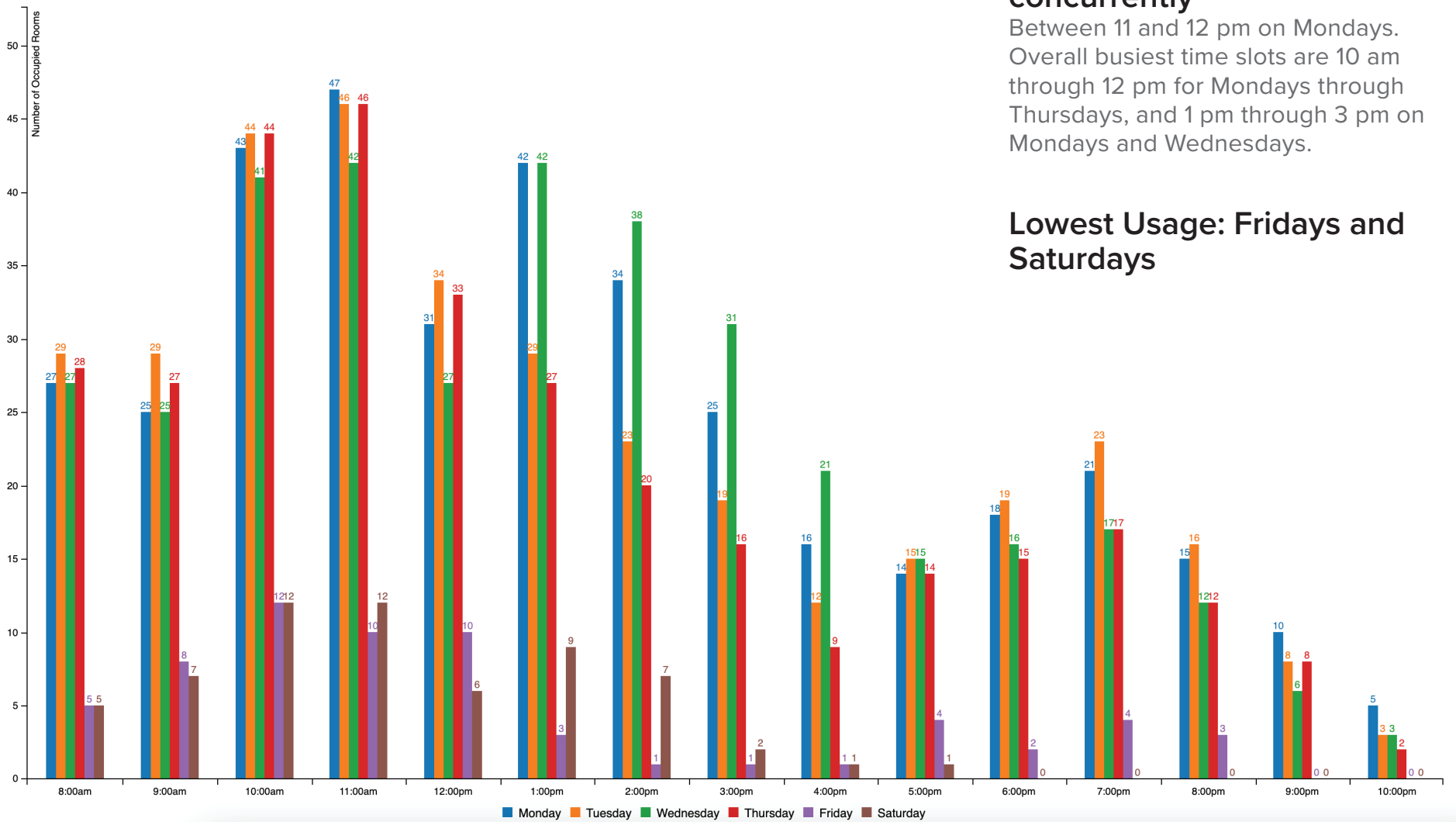


SCC

The data shows that the number of unused classrooms and under utilized classrooms at both campuses has increased from Fall 2019 to Fall 2022.

SAC CLASSROOMS PEAK USE

Fall 2022



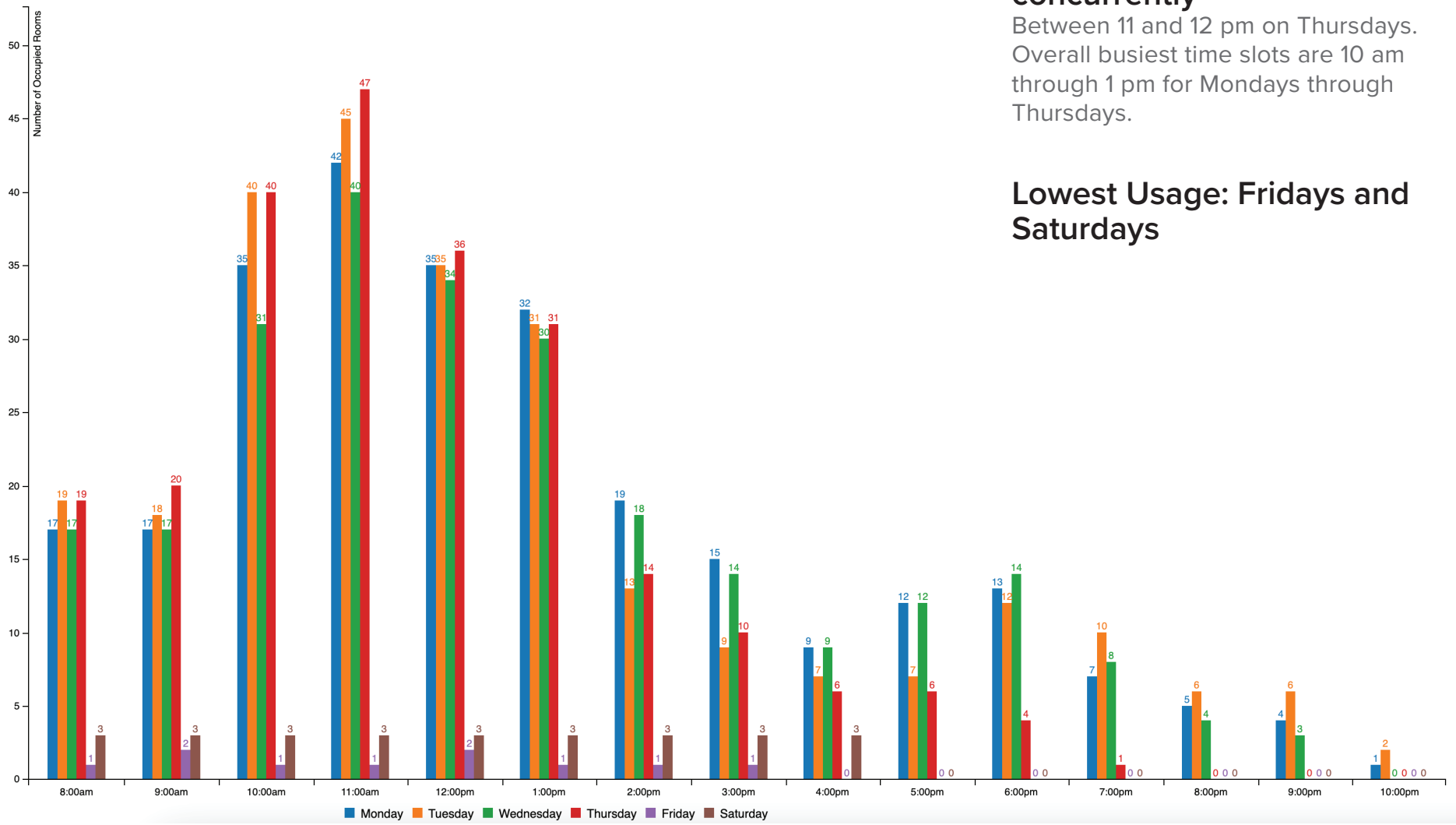
Max Peak: 47 out of 91 Classrooms are used concurrently

Between 11 and 12 pm on Mondays. Overall busiest time slots are 10 am through 12 pm for Mondays through Thursdays, and 1 pm through 3 pm on Mondays and Wednesdays.

Lowest Usage: Fridays and Saturdays

SCC CLASSROOMS PEAK USE

Fall 2022



Max Peak: 47 out of 75 Classrooms are used concurrently

Between 11 and 12 pm on Thursdays. Overall busiest time slots are 10 am through 1 pm for Mondays through Thursdays.

Lowest Usage: Fridays and Saturdays

SAC SEAT UTILIZATION OF LARGE CLASSROOMS:

Fall 2019 and Fall 2022

NONE of the classrooms seating more than 65 Students met the State Standard for 66% occupancy.

Only one classroom (Russell Hall 128) has an average seat usage in the 80s, suggesting that the campus should only have (1) classroom that seats 120 - 130 seats (resulting in an average of 66% seat usage).

SAC Large Classrooms Seat Usage for Fall 2019 and Fall 2022

SAC Building	Room Number	Room Use	Stations (Seats)	Fall 2022 Average Seats Used	Fall 2019 Average Seats Used	Fall 2022 Station Use Rate	Fall 2019 Station Use Rate	Station Use Target
22 - RUSSELL HALL	126	110 - Classroom	70	42	33	60%	47%	66% for each Classroom
22 - RUSSELL HALL	128	110 - Classroom	157	89	76	57%	48%	
22 - RUSSELL HALL	114	110 - Classroom	65	32	29	50%	45%	
1 - CESAR CHAVEZ - A	128	110 - Classroom	74	25	40	34%	54%	
22 - RUSSELL HALL	124	110 - Classroom	154	50	58	32%	37%	
1 - CESAR CHAVEZ - A	130	110 - Classroom	84	21	36	25%	43%	
30 - DUNLAP HALL	106	110 - Classroom	121	28	47	23%	39%	
29 - ART	104	110 - Classroom	130	29	47	22%	36%	
15 - SCIENCE CENTER	111	110 - Classroom	76	17	did not exist	22%	did not exist	
30 - DUNLAP HALL	101	110 - Classroom	121	20	42	16%	34%	
28 - P.E. MULTI-PURPOSE-W	101	110 - Classroom	156	21	43	13%	27%	
1 - CESAR CHAVEZ - A	210	110 - Classroom	148	14	32	9%	21%	

SCC SEAT UTILIZATION OF LARGE CLASSROOMS:

Fall 2019 and Fall 2022

NONE of the classrooms seating more than 65 Students met the State Standard for 66% occupancy.

Only one classroom (Science Center 105) has an average seat usage in the 80s, suggesting that the campus should only have (1) classroom that seats 120 - 130 seats (resulting in an average of 66% seat usage).

SCC Large Classrooms Seat Usage for Fall 2019 and Fall 2022

SCC Building	Room Number	Room Use	Stations (Seats)	Fall 2022 Average Seats Used	Fall 2019 Average Seats Used	Fall 2022 Station Use Rate	Fall 2019 Station Use Rate	Station Use Target
402 - SCIENCE CENTER	133	110 - Classroom	69	37	38	54%	55%	66% for each Classroom
402 - SCIENCE CENTER	105	110 - Classroom	182	84	41	46%	22%	
402 - SCIENCE CENTER	226	110 - Classroom	65	27	26	42%	40%	
207 - BUILDING E	305	110 - Classroom	72	20	28	28%	39%	
207 - BUILDING E	203	110 - Classroom	118	32	22	27%	19%	
205 - SANTIAGO CNYN D	101	110 - Classroom	135	34	43	25%	32%	
404 - HUMANITIES	106	110 - Classroom	288	28	37	9%	13%	
207 - BUILDING E	206W	110 - Classroom	70	0	0	0%	0%	

CLASS LABS UTILIZATION:

SAC and SCC Fall 2022

Unused Class Labs

28 out of 79* class labs at the SAC campus are not used at all

12 out of 36 class labs at the SCC campus are not used at all

Under Utilized Class Labs

38 out of 79* class labs at the SAC campus are under utilized

15 out of 36 class labs at the SCC campus are under utilized

Average Utilized Class Labs

4 out of 79* class labs at the SAC campus are averagely utilized

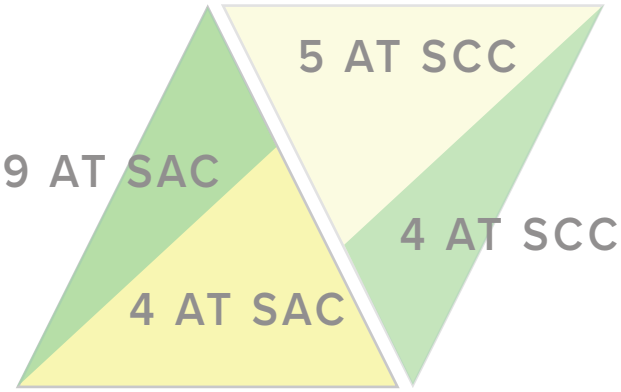
5 out of 36 class labs at the SCC campus are averagely utilized

Well Utilized Class Labs

9 out of 79* class labs at the SAC campus are well utilized

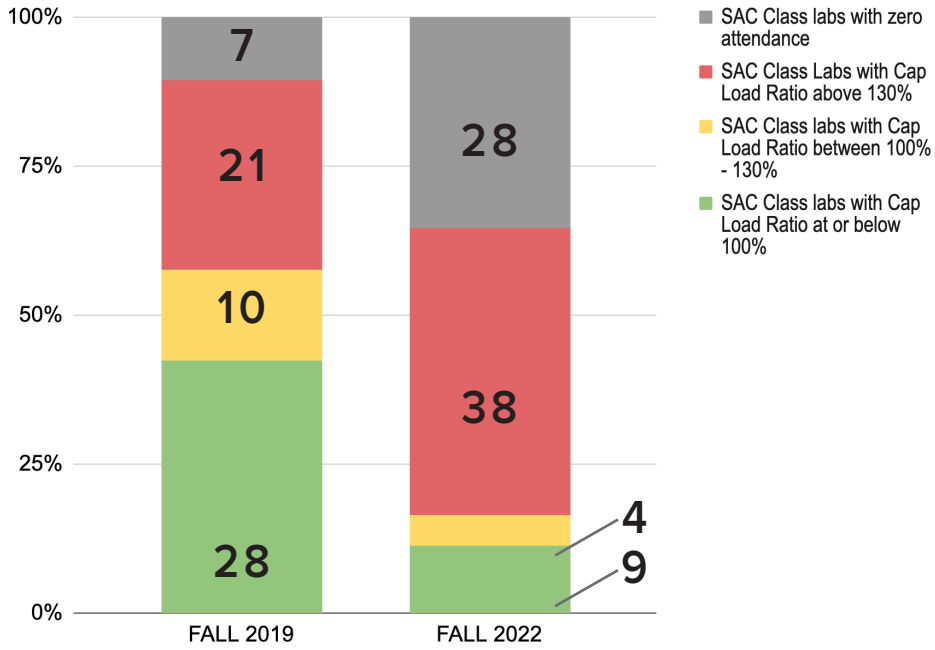
4 out of 36 class labs at the SCC campus are well utilized

**Russell Hall included. After Russell Hall is demolished and the New Health Sciences is completed, there will be a net reduction of 3 class labs at the SAC campus.*

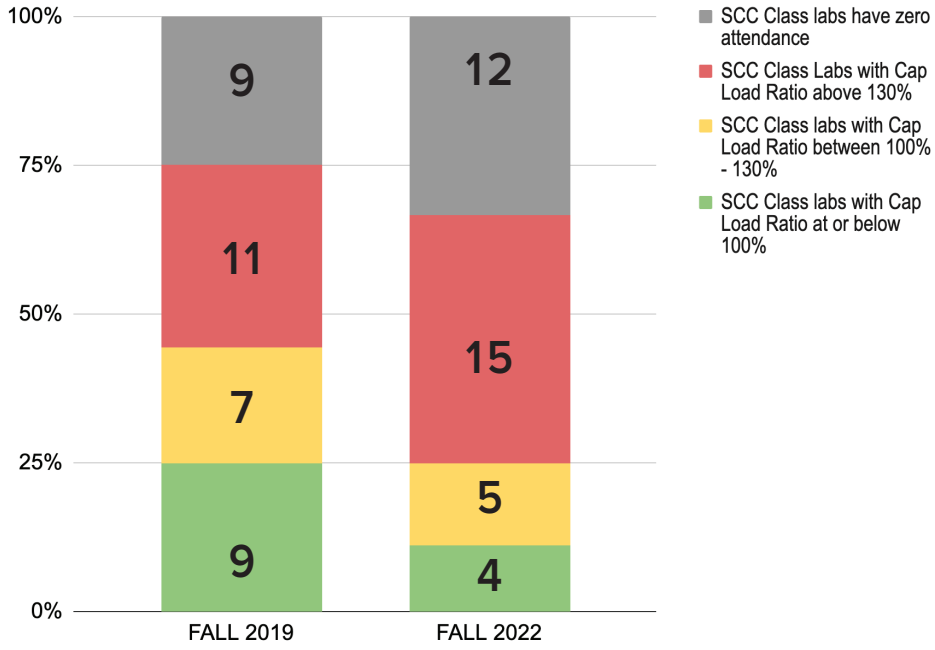


CLASS LABS HISTORICAL COMPARISON:

Fall 2019 versus Fall 2022



SAC

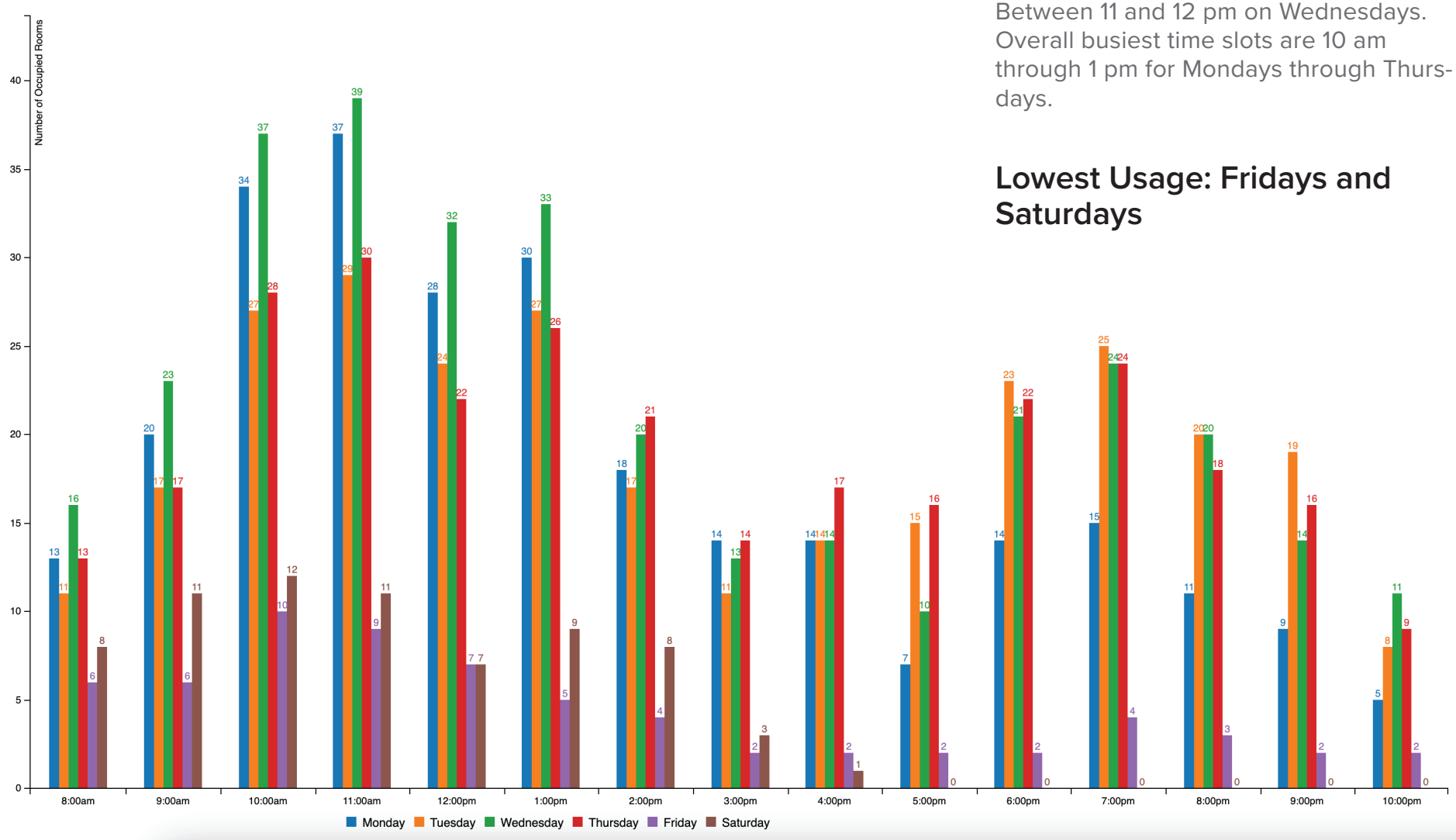


SCC

The data shows that the number of unused class labs and under utilized class labs at both campuses has increased from Fall 2019 to Fall 2022.

SAC CLASS LABS PEAK USE

Fall 2022



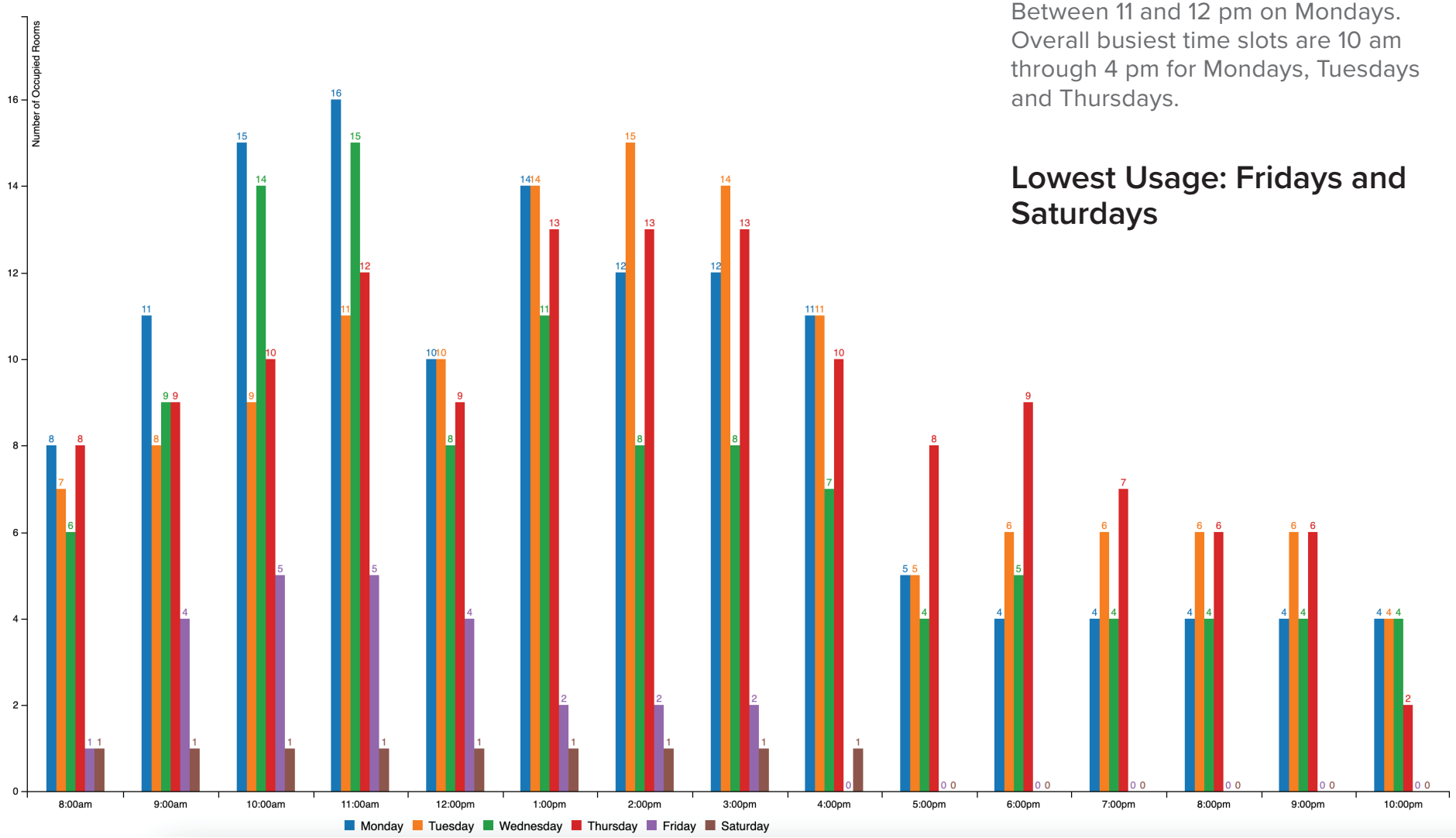
Max Peak: 39 out of 79 Class Labs are used concurrently

Between 11 and 12 pm on Wednesdays. Overall busiest time slots are 10 am through 1 pm for Mondays through Thursdays.

Lowest Usage: Fridays and Saturdays

SCC CLASS LABS PEAK USE

Fall 2022



Max Peak: 16 out of 36 Class Labs are used concurrently

Between 11 and 12 pm on Mondays. Overall busiest time slots are 10 am through 4 pm for Mondays, Tuesdays and Thursdays.

Lowest Usage: Fridays and Saturdays

SAC COMPUTER LAB ANALYSIS

Fall 2022

Computer Lab Usage declined significantly between Fall 2019 and Fall 2022.

30 out of 31 computer labs were utilized in Fall 2019, compared to only 21 in Fall 2022.

The 21 computer labs that were used in Fall 2022 were used for considerably less hours than Fall 2019 across all labs except one.

SAC Computer Labs Utilization Fall 2022 versus Fall 2019 Hours Utilization

Building	Room Number	TOP Code	Stations	ASF	Average Seats Used	Station Use Rate	WSCH	Hours/wk	Fall 2019 Hours/wk
9 - HAMMOND-HALL-H	210	1221 - Pharmacy Technology	38	1458	15	41%	515	32.5	36
18 - AUTO DIESEL - BUILDING J	109	947 - Diesel Technology	24	2940	18	77%	557	30	11
10 - LIBRARY-L	207	1701 - Mathematics, General	42	1339	30	73%	836	27	30
1 - CESAR CHAVEZ - A	208	701 - Information Technology, General	36	926	29	80%	495	17	27
1 - CESAR CHAVEZ - A	215	701 - Information Technology, General	36	953	24	68%	371	15	17
1 - CESAR CHAVEZ - A	219	1030 - Graphic Arts and Design	29	1038	12	42%	160	13	38.5
29 - ART	105	1002 - Art (Painting, Drawing and Sculpture)	38	1634	19	50%	241.5	12.5	19.5
1 - CESAR CHAVEZ - A	209	701 - Information Technology, General	40	984	28	70%	336	12	24
24 - TECHNICAL BUILDING	203-1	956 - Manufacturing and Industrial Technology	30	774	13	43%	156	12	14.5
1 - CESAR CHAVEZ - A	203	701 - Information Technology, General	40	1003	29	74%	267	9	28
1 - CESAR CHAVEZ - A	223	614 - Digital Media	10	919	23	235%	188	8	6
1 - CESAR CHAVEZ - A	211	701 - Information Technology, General	40	984	14	36%	103	7	31
1 - CESAR CHAVEZ - A	213	701 - Information Technology, General	36	984	22	61%	132	6	25
1 - CESAR CHAVEZ - A	214	901 - Engineering, General (requires Calculus)(Transfer)	32	1440	17	53%	102	6	15
1 - CESAR CHAVEZ - A	207	701 - Information Technology, General	40	984	11	29%	47	4	21.5
24 - TECHNICAL BUILDING	203	956 - Manufacturing and Industrial Technology	30	752	14	47%	57	4	9
1 - CESAR CHAVEZ - A	205	701 - Information Technology, General	40	984	39	97%	117	3	22.5
1 - CESAR CHAVEZ - A	206	701 - Information Technology, General	36	904	28	77%	84	3	23
1 - CESAR CHAVEZ - A	217	1011 - Photography	9	575	3	38%	10.5	3	3
1 - CESAR CHAVEZ - A	226	514 - Office Technology/Office Computer Applications	32	1004	15	46%	30	2	21
25 - MUSIC BUILDING	105	1004 - Music	11	642	3	31%	7	2	2
1 - CESAR CHAVEZ - A	108	701 - Information Technology, General	40	1029					17
1 - CESAR CHAVEZ - A	222	514 - Office Technology/Office Computer Applications	36	954					24
1 - CESAR CHAVEZ - A	224	514 - Office Technology/Office Computer Applications	36	933					10
1 - CESAR CHAVEZ - A	225	953 - Drafting Technology	46	1397					10
1 - CESAR CHAVEZ - A	228	514 - Office Technology/Office Computer Applications	27	1004					12
10 - LIBRARY-L	112-1	4999 - Other Interdisciplinary Studies	28	460					7
18 - AUTO DIESEL - BUILDING J	109-3	947 - Diesel Technology	12	541					4
22 - RUSSELL HALL	303-1	1905 - Chemistry, General	45	705					6
24 - TECHNICAL BUILDING	213	1303 - Fashion	20	599					10
29 - ART	201	602 - Journalism	14	557					

SCC COMPUTER LAB ANALYSIS

Fall 2022

Computer Lab Usage declined significantly between Fall 2019 and Fall 2022.

6 out of 8 computer labs were utilized in Fall 2019, compared to only 3 in Fall 2022.

The 3 computer labs that were used in Fall 2022 were used for considerably less hours than Fall 2019 across all labs.

SCC Computer Labs Utilization Fall 2022 versus Fall 2019 Hours Utilization

Building	Room Number	TOP Code	Stations	ASF	Average Seats Used	Station Use Rate	WSCH	Hours/wk	Fall 2019 Hours/wk
203 - SANTIAGO CNYN B BLDG	207	701 - Information Technology, General	40	924	20	52%	292	14	17
404 - HUMANITIES	325	2202 - Anthropology	45	1244	10	24%	87	8	17
205 - SANTIAGO CNYN D	125	1030 - Graphic Arts and Design	30	1697	25	83%	50	2	12.5
206 - U2 Portables	101	514 - Office Technology/Office Computer Applications	29	889					1.5
207 - BUILDING E	304	4999 - Other Interdisciplinary Studies	36	969					7.5
208 - LEARNING RESOURCE CENTER	219	1601 - Library Science, General	36	1322					
404 - HUMANITIES	210	2207 - Political Science	16	495					
404 - HUMANITIES	230	1101 - Foreign Languages, General	32	1257					7

SAC TEACHING MODALITIES HISTORICAL COMPARISON:

Fall 2019 versus Fall 2022

The data shows that on-campus instruction has fallen by 30% as other hybrid/ online teaching modalities have increased.

SAC Definitions

Sections - are scheduled courses, each having a unique course ID number.

On-Campus - are courses that are taught *in person* in a facility/space on campus.

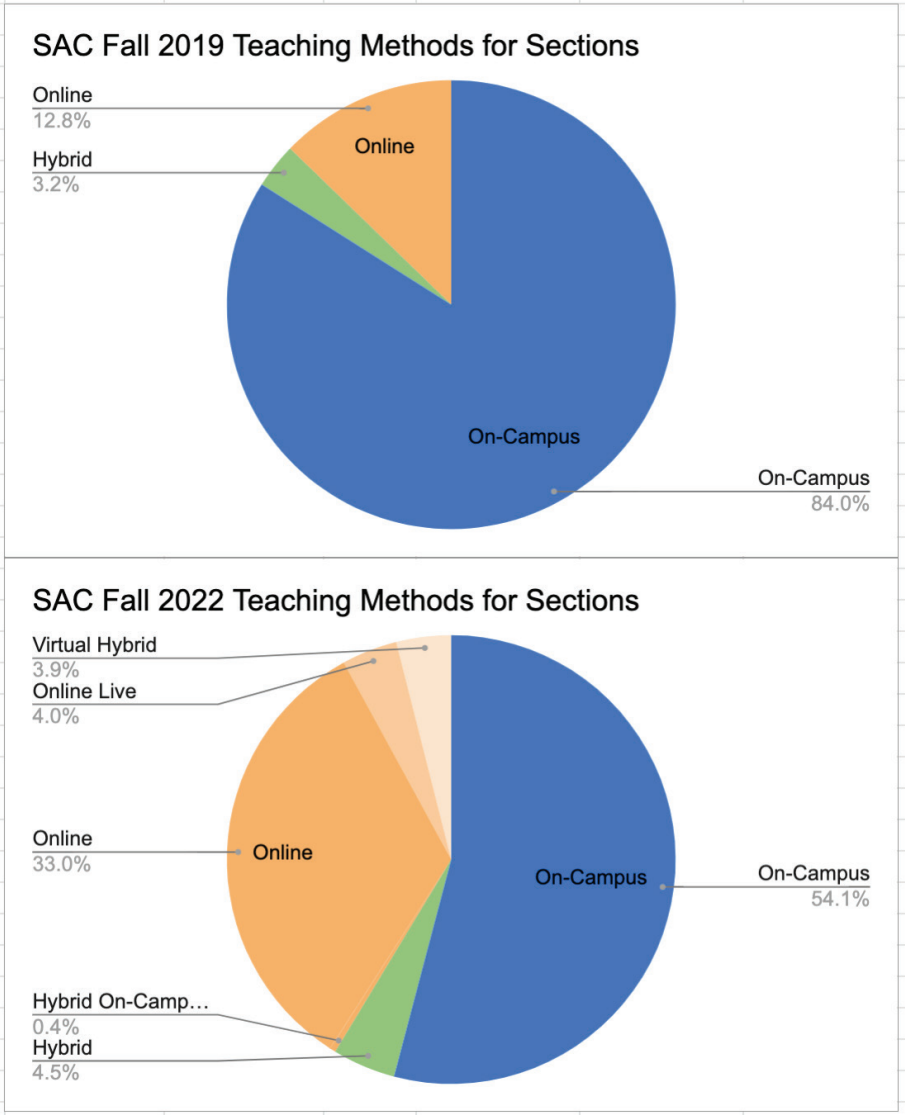
Online (O) - are courses taught online with time-flexible online lecture and materials, and *no scheduled meeting times.*

Hybrid - are courses taught combining scheduled *on-campus meetings* with online instruction.

Online Live (OL) - are courses taught using fully online live instruction. Classes meet in *scheduled live streaming Zoom meetings* during published course times.

Virtual Hybrid (VH) - are courses taught combining *scheduled live streaming Zoom meetings with online instruction.*

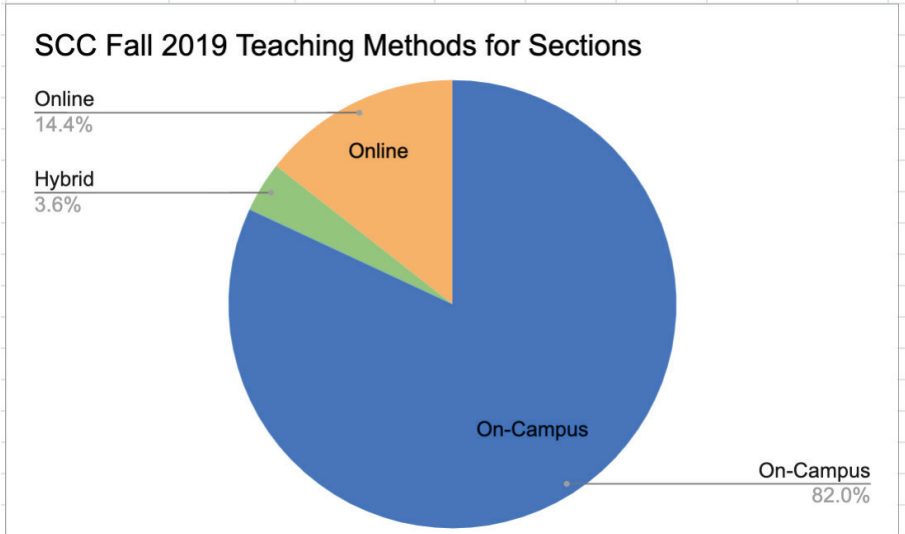
On-Campus w/ Virtual (CV) - are courses taught combining *scheduled on-campus and scheduled live streaming Zoom meetings* during published course times.

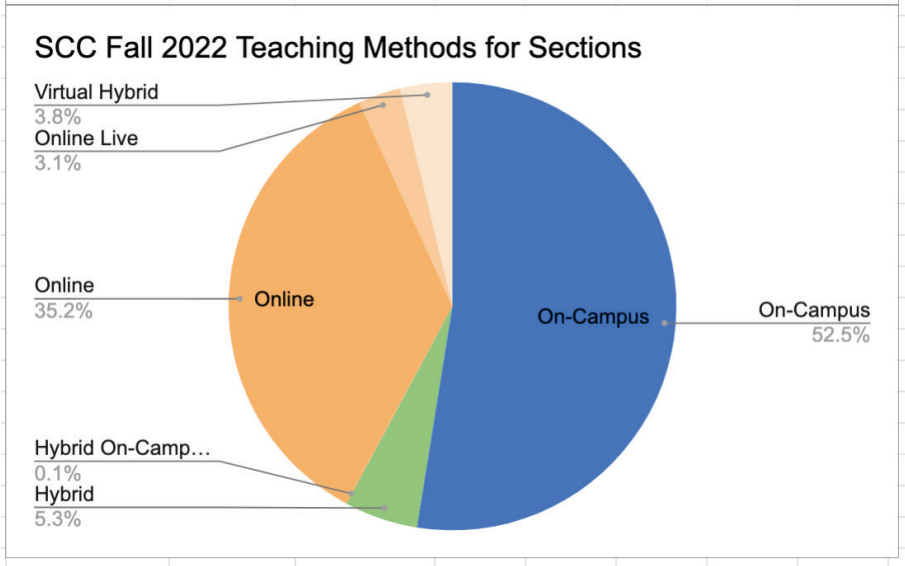


SCC TEACHING MODALITIES HISTORICAL COMPARISON:

Fall 2019 versus Fall 2022

The data shows that on-campus instruction has fallen by 29.5% as other hybrid/online teaching modalities have increased.





SCC Definitions

Online (O)

Fully online instruction: Students are required to log in to Canvas by the first day of class for detailed information and required course work. sccollege.edu/Canvas. There will be no scheduled instructional meetings.

Fully Online Live (OL)

Fully Remote Live Instruction: Live streaming instruction via Zoom during the days and times indicated. Students log in to Canvas. sccollege.edu/Canvas. There will be no instruction on-campus.

Online & On-Campus Meetings (H)

On-Campus Hybrid Instruction: A combination of online instruction and on-campus meetings during the days and times indicated. Students log in to Canvas. sccollege.edu/Canvas.

Virtual Hybrid (VH)

Virtual Hybrid Instruction: A combination of online instruction and some live streaming instruction via Zoom during the days and times indicated. Students log in to Canvas. sccollege.edu/Canvas. There will be no instruction on-campus.

On Campus (C)

Face to Face: Classes are in person and on-campus classes with weekly scheduled meeting days and times as indicated.

FRIDAY AND SATURDAY USE: SAC AND SCC CAMPUSES

Fall 2022

Summary

The lowest use days for both Classrooms and Class Labs are Fridays and Saturdays. This is very common across California Community College Districts.

The study for both colleges focuses on *scheduled instructional uses* for classrooms and class labs on Fridays and Saturdays, versus one-off events like exams, performances, art openings, orientations, counseling sessions, club events, or meetings. Since these events either do not contribute directly to WSCH generation or they typically do not occur every week they are not part of the counts listed for each campus. As a result each campus may be using a few additional spaces on Fridays and Saturdays than those listed to accommodate these one-off events.

SAC Findings

There are 17 buildings on the SAC campus housing either Classrooms or Class Labs or both. Looking at just the *scheduled instructional uses* for classrooms and class labs in these buildings we find:

- 13 buildings are used on Fridays, and 35 instructional spaces within these 13 buildings are used on Fridays
- 10 buildings are used on Saturdays, and 24 instructional spaces within these 10 buildings are used on Saturdays
- The courses offered on Saturdays include: the Biological Sciences, Physics, Pharmacy Technology, Emergency Medical Technician, Nursing, Occupational Therapy, Occupational Studies, Manufacturing Technology, Welding Technology, Athletics, Paralegal and Freshman Composition.

SCC Findings

There are 7 buildings on the SCC campus housing either Classrooms or Class Labs or both. Looking at just the *scheduled instructional uses* for classrooms and class labs in these buildings we find:

- 4 buildings are used on Fridays, and 11 instructional spaces within these 4 buildings are used on Fridays
- 2 buildings are used on Saturdays, and 6 instructional spaces within these 2 buildings are used on Saturdays
- The courses offered on Saturdays include: Surveying and Survey Chainman Apprenticeship and Athletics.

SAC ADULT EDUCATION IMPACT ON SAC ANALYSIS

Fall 2022

For Fall 2022 the Adult Education classes that were attended in person were held in rooms B-8, B-11, H-201, H-210, P-100, VL-209A and VL-210. They also used tutoring rooms A-104, D-307, L-204 and SC-103.

The B and VL spaces utilized by Adult Education are not part of this study for they are classified as CEC spaces in the Space Inventory, and are therefore not part of the SAC classroom and class lab count that is the basis of this SAC Space Utilization study.

Tutoring spaces are also excluded from this study, as are Theater spaces (P-100) for they are classified as “Assembly” spaces by the State. Both Tutoring and Assembly spaces do not have state utilization targets.

While classroom H-201 and Class Lab H-210 were both utilized for 3 hours once a week, they were utilized by 1 student only, which does not change the utilization category for these respective spaces due to under utilization of student seats during those 3 hours.

Summary: incorporating the in person usage by Adult Education does not change the SAC space utilization data presented in this study.

Adult Education Positive Attendance Usage of SAC Rooms Fall 2022

TERM	COURSE NAME	TITLE	ACTIVE SEAT	START DATE	END DATE	NO OF WEEKS	START TIME1	END TIME1	WEEKDAY S1	BLDG1	ROOM1	Room Use as it applies to this Study
2022FAN	LRN-095-17047	Supervised Tutoring--Athletics	27	Aug-22-2022	Dec-11-2022	16				1A	A-104	Tutoring space - not part of this study
2022FAN	ESL-305-19280	Advanced Low	27	Aug-22-2022	Dec-17-2022	17	8:30AM	11:30AM	M Tu W Th	1B	B-11	CEC space is excluded from this study
2022FAN	ESL-305-20150	Advanced Low	30	Aug-22-2022	Dec-17-2022	17	6:00PM	9:00PM	M Tu W Th	1B	B-11	CEC space is excluded from this study
2022FAN	ESL-306-19284	Advanced High	25	Aug-22-2022	Dec-17-2022	17	8:30AM	11:30AM	M Tu W Th	1B	B-11	CEC space is excluded from this study
2022FAN	ESL-306-20151	Advanced High	23	Aug-22-2022	Dec-17-2022	17	6:00PM	9:00PM	M Tu W Th	1B	B-11	CEC space is excluded from this study
2022FAN	ESL-303-19236	Intermediate Low	32	Aug-22-2022	Dec-17-2022	17	8:30AM	11:30AM	M Tu W Th	1B	B-8	CEC space is excluded from this study
2022FAN	ESL-303-19249	Intermediate Low	32	Aug-22-2022	Dec-17-2022	17	6:00PM	9:00PM	M Tu W Th	1B	B-8	CEC space is excluded from this study
2022FAN	ESL-304-19273	Intermediate High	26	Aug-22-2022	Dec-17-2022	17	8:30AM	11:30AM	M Tu W Th	1B	B-8	CEC space is excluded from this study
2022FAN	ESL-304-19277	Intermediate High	27	Aug-22-2022	Dec-17-2022	17	6:00PM	9:00PM	M Tu W Th	1B	B-8	CEC space is excluded from this study
2022FAN	HSS-221-17046	Study Skills--Lrning Cntr	25	Aug-22-2022	Dec-11-2022	16				1D	D-307	Tutoring space - not part of this study
2022FAN	VHLTH-799-18734	Intro to Pharm Tech	1	Aug-23-2022	Dec--6-2022	16	9:00AM	11:05AM	Tu	1H	H-201	Classroom - but only 1 enrolled
2022FAN	VHLTH-799-18735	Intro to Pharm Tech	1	Aug-23-2022	Dec-10-2022	16	8:00AM	10:05AM	Sa	1H	H-210	Class Lab - but only 1 enrolled
2022FAN	LRN-095-17045	Supervised Tutoring	1489	Aug-22-2022	Dec-11-2022	16				1L	L-204	Tutoring space - not part of this study
2022FAN	VFPA-150A-18719	Rehearsal and Performance in	8	Aug-22-2022	Oct-30-2022	10	8:00AM	6:00PM	Sa	1P	P-100	Theater Space - not part of this study
2022FAN	VFPA-150B-18720	Technical Theatre	5	Aug-22-2022	Oct-30-2022	10	8:00AM	6:00PM	Sa	1P	P-100	Theater Space - not part of this study
2022FAN	VFPA-255-18721	Motion Picture Perform	0	Aug-22-2022	Dec-11-2022	16				1P	P-105	Class Lab - but zero enrolled
2022FAN	LRN-095-17032	Supervised Tutoring - Science	445	Aug-22-2022	Dec-11-2022	16				1SC	SC-103	Tutoring space - not part of this study
2022FAN	ESL-301-19180	Beginning Low	37	Aug-22-2022	Dec-17-2022	17	8:30AM	11:30AM	M Tu W Th	1VL	VL-209A	CEC space is excluded from this study
2022FAN	ESL-301-19533	Beginning Low	70	Aug-22-2022	Dec-17-2022	17	6:00PM	9:00PM	M Tu W Th	1VL	VL-209A	CEC space is excluded from this study
2022FAN	ESL-302-19194	Beginning High	25	Aug-22-2022	Dec-17-2022	17	8:30AM	11:30AM	M Tu W Th	1VL	VL-209A	CEC space is excluded from this study
2022FAN	ESL-302-19534	Beginning High	24	Aug-22-2022	Dec-17-2022	17	6:00PM	9:00PM	M Tu W Th	1VL	VL-209A	CEC space is excluded from this study
2022FAN	ABE-023-17993	Adult Basic Education Reading	4	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	ABE-024-17994	Adult Basic Education Writing	5	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	ABE-025-17942	Adult Basic Education Math	0	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSART-828-17883	Understanding Amer Through Art	0	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSART-837-17884	The Film As Art	1	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSENG-065-17985	English Fundamentals 1	18	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSENG-066-17986	English Fundamentals 2	17	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSENG-067-17987	English Fundamentals 3	20	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSENG-068-17988	English Fundamentals 4	13	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSENG-083-17967	Composition 1	31	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSENG-084-17978	Composition 2	6	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSENG-096-17989	Building Vocabulary 1	7	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSENG-097-17990	Bldg Vocabulary 2	1	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSMTH-151-17951	Principles of Mathematics	25	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSMTH-152-17940	Pre-Algebra	6	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSMTH-172-17949	Basic Consumer Math 1A	3	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSMTH-190-17952	Math for College and Career Re	2	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSRDG-089-17991	Reading Proficiency Dev	18	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSRDG-093-17992	Building Reading Skills 1	52	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSS-221-17945	Study Skills 1	1	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSCI-170-17885	Biology 1A	2	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSCI-188-17886	Earth Science 1	2	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSCI-190-17888	Physical Science 1	1	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSCI-191-17889	Physical Science 2	0	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSCI-192-17890	Basic Science 1	3	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSCI-196-17891	Health Science	3	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSOC-215-17892	Intro to Economics	19	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSOC-218-17899	U.S. History 1	15	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSOC-219-17893	U.S. History 2	0	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSOC-222-17894	Government 1	8	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSOC-224-17896	World Geography 1A	21	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSOC-225-17897	World Geography 1B	0	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	HSSOC-228-17898	World History	7	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	LRN-084-17984	Composition 2	11	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study
2022FAN	LRN-164-17947	Introductory Algebra	6	Aug-22-2022	Dec-17-2022	17				1VL	VL-210	CEC space is excluded from this study

SCC ADULT EDUCATION IMPACT ON SCC ANALYSIS

Fall 2022

For Fall 2022 the Adult Education classes that were attended in person were held in rooms D-109, D-110, U-78, U-86, U-87, U-88, U-89 and U-92. They also used tutoring room D-209 for math tutoring, and held orientations in classroom H-106 on two days of the semester.

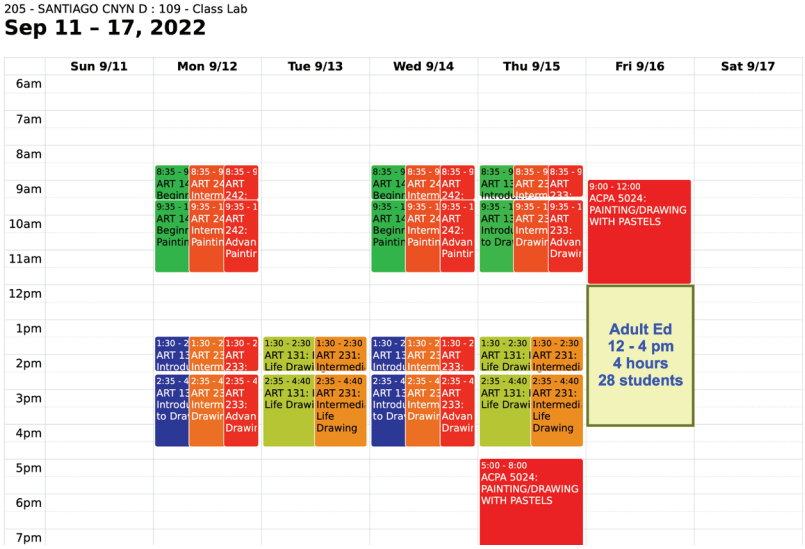
The U spaces utilized by Adult Education are not part of this study for they are classified as OEC Interim spaces in the District Space Inventory, and are therefore not part of the SCC classroom and class lab count that is the basis of this SCC Space Utilization study.

Tutoring spaces are also excluded from this study, as are "one-off" uses, like orientations, for this space utilization study is based on usage across the entire (or at least the majority) of the semester.

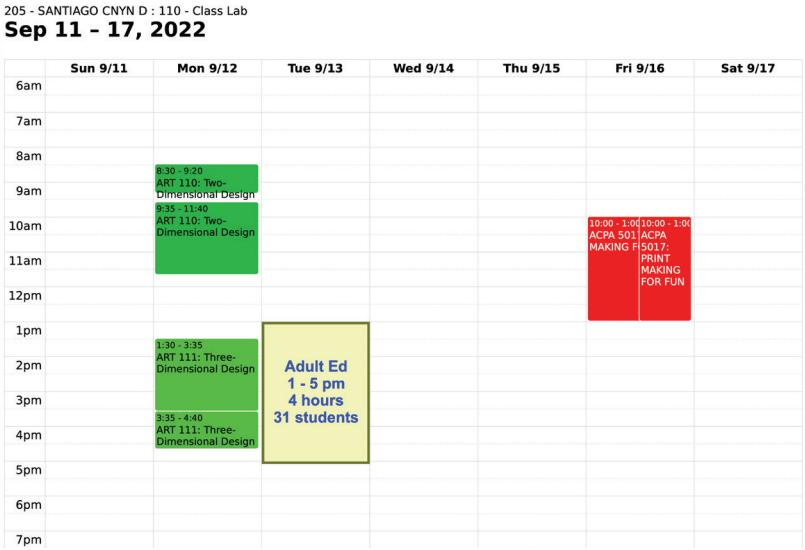
While both class labs D-109 and D-110 were utilized for 4 hours once a week, the additional usage does not change these class labs' utilization status for this study. D-109 was already classified as a "well utilized" lab, and D-110 was classified as "under utilized" and while adding the 4 hours to the existing 9 hours is an improvement, it is not enough to move it into the "averagely used" category.

Summary: incorporating the in person usage by Adult Education does not change the SCC space utilization data presented in this study.

Adult Education Positive Attendance Usage added to Class Lab D-109:



Adult Education Positive Attendance Usage added to Class Lab D-110:



SAC CLASSROOM AND CLASS LAB WSCH PER BUILDING SEAT

Fall 2022

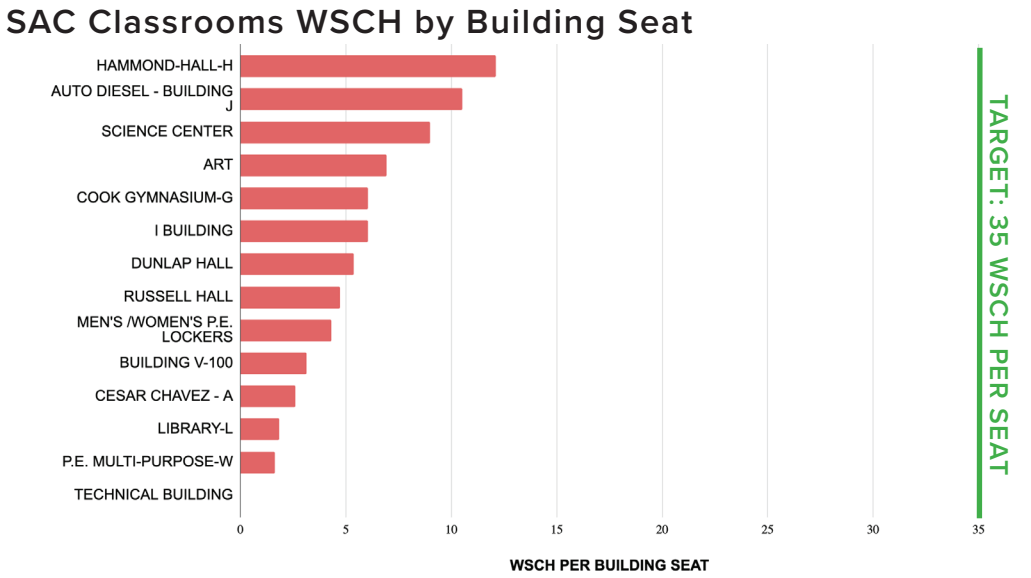
If we divide the total WSCH generated by the classrooms in a building by the total number of classroom student seats in that building we get the “Classrooms WSCH by Building Seat.” We apply the same principle to class labs to get the “Class Labs WSCH by Building Seat.” This metric helps identify which buildings on campus are more “productive.”

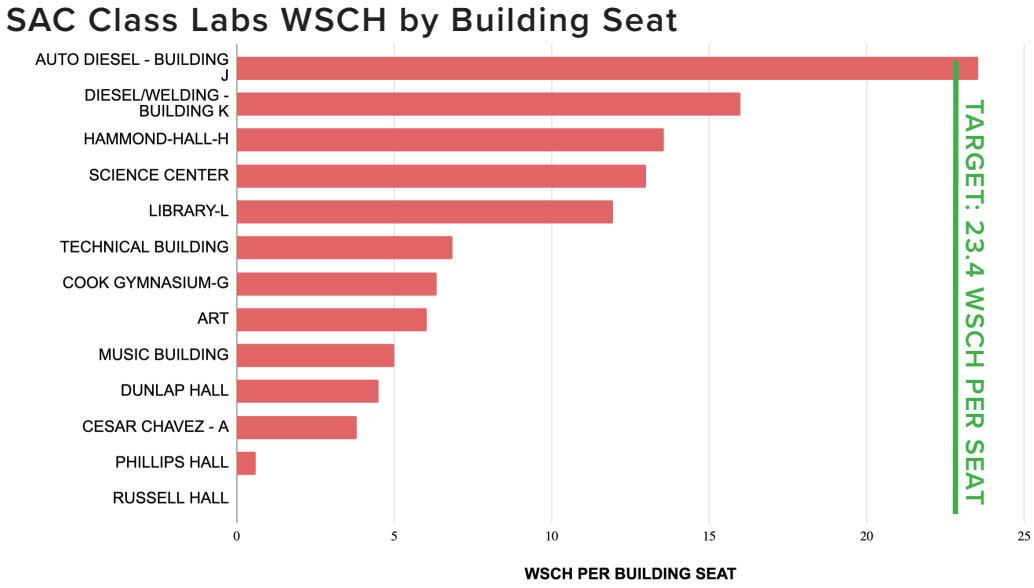
SAC Campus

The state compliant target for SAC is for each Classroom seat to generate 35 WSCH. For Class Labs it is 23.4 WSCH per Lab seat.

No buildings on SAC meet the classroom target. Hammond Hall Building H and Auto Diesel Building J are the most productive, albeit significantly under state target.

Auto Diesel Building J does meet the class labs state target. Other productive class labs by building are Diesel Welding Building K, Hammond Hall Building H and Library Building L, although again these are under state targets.





SCC CLASSROOM AND CLASS LAB WSCH PER BUILDING SEAT

Fall 2022

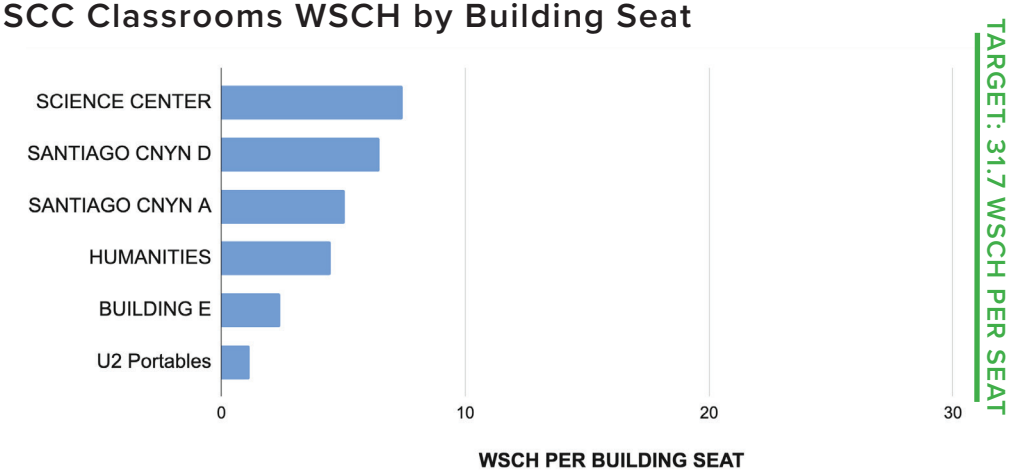
SCC Campus

The state compliant target for SCC is for each Classroom seat to generate 31.7 WSCH. For Class Labs it is 23.4 WSCH per Lab seat.

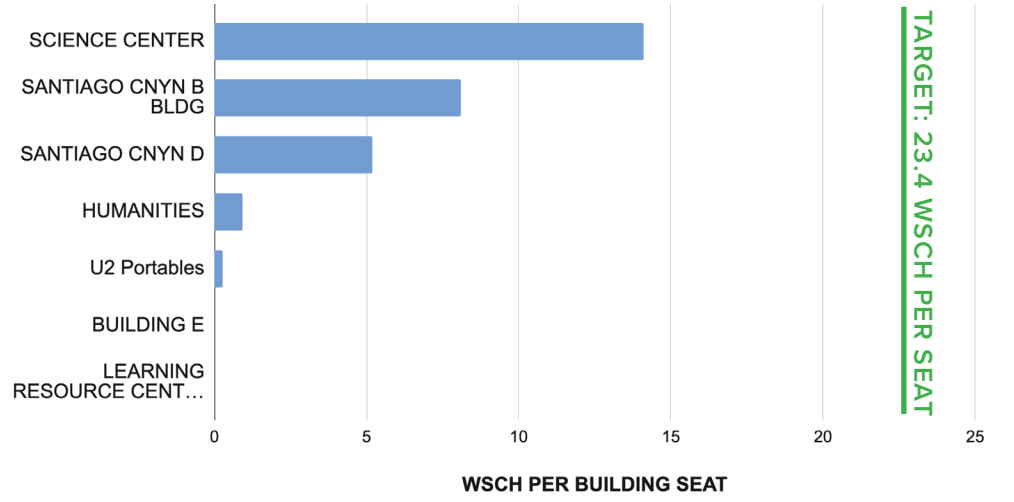
No buildings on SCC meet the classroom target. Science Center and Building D are the most productive, albeit significantly under state target.

No buildings on SCC meet the class lab target. Science Center and Building B are the most productive, albeit significantly under state target.

SCC Classrooms WSCH by Building Seat



SCC Class Labs WSCH by Building Seat



FACILITIES CONDITIONS

SAC and SCC Campuses

Summary

The Facilities Conditions evaluation that was undertaken for the 2022 Facilities Master Plan Update evaluated each existing building's condition for various categories such as life safety, accessibility, infrastructure, sustainability etc. These individually scored categories were added together, producing a total score for the building for a maximum of 26 points.

Buildings that are closer to 26 points are the buildings with the highest need for improvement and they are the most challenging candidates for renovation/ modernization, making them more costly to maintain and operate, compared to lower scoring buildings.

SAC Facilities Condition

Out of the twelve highest scoring buildings for SAC only two are classroom intensive buildings: Dunlap Hall and Hammond Hall. The other buildings house specialized spaces like intensive career technical labs, drama & music spaces, athletic spaces, and library spaces.

Dunlap Hall received a partial modernization in 2004 and 2014, whereas Hammond Hall has never been modernized.

SCC Facilities Condition

Out of the six highest scoring buildings for SCC, the U Portables are the most classroom/class lab intensive of them all. They are also portables (aka temporary) with most of them from 1994 (i.e. past their useful life), and a few newer ones were installed in 2000 (i.e. approaching the end of their useful life). Portable structures are also more costly to operate and maintain.

Buildings A and B also have classrooms and class labs and they are costly to maintain and operate given their condition.

SAC FACILITIES CONDITIONS

As evaluated for the 2022 FMP Update

SAC FACILITIES CONDITION													
DESCRIPTION				EVALUATION									
Campus	Existing Buildings	Year Built	Previous Remodel or Renovations (Per Fusion 2018 Conditions Assessment)	Addresses Life Safety Concerns 0 - No 1 - Minimal 2 - Moderate 3 - Major	Removes Barriers to Accessibility 0 - No 1 - Minimal 2 - Moderate 3 - Major	Removes Hazardous Materials 0 - No 1 - Minimal 2 - Moderate 3 - Major	Improves Infrastructure 0 - No 1 - Minimal 2 - Moderate 3 - Major	Improves Safety and Security 0 - No 1 - Minimal 2 - Moderate 3 - Major	Meets Sustainability Objectives 0 - No 1 - Minimal 2 - Moderate 3 - Major	Enhances the Student Experience 0 - No 1 - Minimal 2 - Moderate 3 - Major	Existing Building Use and Facility Adequacy 0 - Yes 1 - Minimal 2 - Moderate to Major	Other 0 - No 1 - Minimal 2 - Moderate 3 - Major	Total Score Out of 26
SAC	BUILDING T - Technical Arts	1970	N/A	3	3	3	3	2	2	2	2	3	23
SAC	BUILDING K - Welding/Auto Diesel (w/ K115)	1958	N/A	3	3	3	2	2	2	2	2	2	21
SAC	BUILDING W - Kinesiology	1972	N/A	3	3	3	2	2	2	2	1	3	21
SAC	BUILDING G - Cook Gym	1954	2013 Cosmetic Remodel	3	3	3	2	2	2	2	1	2	20
SAC	BUILDING J - Auto Shop	1958	1972 remodel	3	3	3	1	2	2	2	1	3	20
SAC	BUILDING N - Music Building	1970	2018 refresh	3	3	3	1	2	2	2	2	2	20
SAC	BUILDING P - Philips Hall Theatre	1955	N/A	3	2	3	1	2	2	2	2	3	20
SAC	BUILDING C - Fine Arts/Art Gallery	1972	2004 remodel	3	3	3	1	2	2	2	1	2	19
SAC	BUILDING D - Dunlap Hall	1973	2004 remodel 2014 Elevator tower/exterior railings	3	3	3	1	1	2	2	0	3	18
SAC	BUILDING E - Fitness Center	1947	N/A	3	3	3	1	2	2	2	0	2	18
SAC	BUILDING H - Hammond Hall	1954	N/A	3	2	3	2	2	2	2	0	2	18
SAC	BUILDING L - Nealley Library	1956	1994 addition or cosmetic remodel	3	3	2	1	2	2	2	0	3	18
SAC	BUILDING S - Administration Building	1972	N/A	3	3	2	1	2	2	1	1	2	17
SAC	BUILDING B (15-31) - Two story	2001	N/A	1	3	0	2	2	2	2	0	3	15
SAC	BUILDING A - Caesar Chavez Building	1996	N/A	1	3	0	1	2	2	2	0	3	14
SAC	BUILDING M - Tessmann Planetarium	1967	2014 remodel	1	3	0	1	2	1	2	2	2	14
SAC	BUILDING F - Locker Rooms	2007	N/A	0	2	0	1	2	2	2	0	2	11
SAC	BUILDING X - Security/Safety	1996	N/A	1	3	0	1	2	0	0	2	2	11
SAC	BUILDING V (V100 -V500) - Early Child Education Center	2010	N/A	1	3	0	0	2	0	0	0	2	8
SAC	BUILDING Z - Maintenance	2009	N/A	1	3	0	0	2	0	0	1	1	8
SAC	BUILDING I - Classroom Building	2009	N/A	0	3	0	1	2	0	1	0	0	7
SAC	BUILDING B10-B11	2001	N/A	1	0	0	1	2	0	0	0	2	6
SAC	BUILDING B33	1998	N/A	1	0	0	1	2	0	0	0	2	6
SAC	BUILDING VL-100 The Village	2014	N/A	1	0	0	1	2	0	0	0	2	6
SAC	BUILDING VL-200 The Village	2014	N/A	1	0	0	1	2	0	0	0	2	6
SAC	BUILDING 960 - Concession/RR (Baseball), Bldg Q	2006	N/A	1	1	0	1	2	0	0	0	1	6
SAC	BUILDING 973 - Pool Storage (F136)		N/A	1	0	0	1	2	0	0	0	0	4
SAC	BUILDING 900 - Soccer RR & Storage	2013	N/A	1	0	0	0	2	0	0	0	0	3
SAC	BUILDING 910 - Track & Field RR & Storage	2013	N/A	1	0	0	0	2	0	0	0	0	3
SAC	BUILDING 920 - Soccer Storage	2013	N/A	1	0	0	0	2	0	0	0	0	3
SAC	BUILDING 930 - Football Storage	2013	N/A	1	0	0	0	2	0	0	0	0	3
SAC	BUILDING 940 - Soccer RR	2013	N/A	1	0	0	0	2	0	0	0	0	3
SAC	BUILDING 972 - Football Weight Room Pavillion (G-114)	2006	N/A	1	0	0	0	2	0	0	0	0	3
SAC	BUILDING 950 - Electrical	2018	N/A	0	0	0	0	2	0	0	0	0	2
SAC	BUILDING JSC - Johnson Student Center	2021		0	0	0	0	0	0	0	0	0	0
SAC	BUILDING O - Central Plant	2018	N/A	0	0	0	0	0	0	0	0	0	0
SAC	BUILDING R - Russell Hall	1967	N/A										0
SAC	BUILDING SC - Science Center	2021	N/A	0	0	0	0	0	0	0	0	0	0

SCC FACILITIES CONDITIONS

As evaluated for the 2022 FMP Update

SCC FACILITIES CONDITION													
DESCRIPTION				EVALUATION									
Campus	Existing Buildings	Year Built	Previous Remodel or Renovations (Per Fusion 2018 Conditions Assessment)	Addresses Life Safety Concerns 0 - No 1 - Minimal 2 - Moderate 3 - Major	Removes Barriers to Accessibility 0 - No 1 - Minimal 2 - Moderate 3 - Major	Removes Hazardous Materials 0 - No 1 - Minimal 2 - Moderate 3 - Major	Improves Infrastructure 0 - No 1 - Minimal 2 - Moderate 3 - Major	Improves Safety and Security 0 - No 1 - Minimal 2 - Moderate 3 - Major	Meets Sustainability Objectives 0 - No 1 - Minimal 2 - Moderate 3 - Major	Enhances the Student Experience 0 - No 1 - Minimal 2 - Moderate 3 - Major	Existing Building Use and Facility Adequacy 0 - Yes 1 - Minimal 2 - Moderate to Major	Other 0 - No 1 - Minimal 2 - Moderate 3 - Major	Total Score Out of 26
SCC	Building T	1980	1998: Cosmetic	3	2	0	2	3	2	2	2	3	19
SCC	Building A	1980	None	3	2	0	2	2	2	2	2	3	18
SCC	Building B	1980	1998: Roof Reno	3	2	0	2	2	2	2	1	3	17
SCC	Building C	1991	2000: Addition	3	2	0	2	2	2	2	1	2	16
SCC	Building D	1991	None	3	2	2	2	1	1	1	1	2	15
SCC	Buildings U (Portables)	1994	2000: Added 5	2	2	0	2	2	2	1	2	2	15
SCC	Building E	2004	None	0	3	0	1	3	0	2	0	2	11
SCC	Building SC	2010	None	1	2	0	2	0	0	2	1	2	10
SCC	Building L	2006	None	0	1	0	1	2	0	1	1	2	8
SCC	Building M&O	2014	None	0	3	0	0	2	0	0	1	1	7
SCC	Building G	2013	None	0	2	0	0	2	0	0	0	1	5
SCC	Building H	2014	None	0	3	0	0	0	0	0	0	1	4
SCC	Building S	2020	None	0	0	0	0	0	0	0	0	0	0

SUMMARY OF FINDINGS

SAC Classrooms Fall 2022

- Of the 91 classrooms on campus, 17 were unused, 73 were underutilized, and 1 classroom was averagely utilized (District target which is equal to within 30% of State Standards).
- The highest concurrent use of classrooms (peak use) was 47 classrooms.
- Fall 2022 enrollment for SAC was at 89% of the 2019 level (per the data on CCCCO's website), but Fall 2019 usage was only marginally better. In other words classrooms were under utilized even before the Pandemic and the slight drop in enrollment.
- However, between 2019 and 2022 the number of online and hybrid (both online and on campus) classes increased and the number of only on-campus classes correspondingly decreased by approximately 30%. This change *has* impacted the utilization of classrooms.
- Only 1 out of 12 large classrooms (those seating more than 65 students) has an average seat usage in the 80s, suggesting that the campus should have no more than (1) classroom that seats 120 - 130 seats.

SCC Classrooms Fall 2022

- Of the 75 classrooms on campus, 14 were unused, 61 were underutilized, and no classroom was averagely utilized (District target which is equal to within 30% of State Standards).
- The highest concurrent use of classrooms (peak use) was 47 classrooms.
- Fall 2022 enrollment for SCC was at 94% of the 2019 level (per the data on the CCCCO's website), but Fall 2019 usage was not any better. In other words classrooms were under utilized even before the Pandemic and the slight drop in enrollment.
- However, between 2019 and 2022 the number of online and hybrid (both online and on campus) classes increased and the number of only on-campus classes correspondingly decreased by approximately 30%. This change *has* impacted the utilization of classrooms.
- Only 1 out of 8 large classrooms (those seating more than 65 students) has an average seat usage in the 80s, suggesting that the campus should have no more than (1) classroom that seats 120 - 130 seats.

Classrooms Conclusion

No additional classrooms are needed. Furthermore, all of these data points indicate that **both campuses can afford to re-purpose unused and under-utilized classrooms to accommodate unmet programmatic needs on their campuses.**

Reducing the number of classrooms on both campuses will improve the utilization for the balance of classrooms, making these classrooms better aligned with State standards, and with the objectives and goals outlined in the 2022 RSCCD Facilities Master Plan Update.

Setting aside 25% of the total number of peak use classrooms will provide each college a buffer should their on campus instructional enrollment increase, during the busiest time slots, over these next several years. Fall 2022 Peak usage was 47 classrooms on both campuses, and 25% of that number equates to 12 classrooms, so **each campus should aim to have no more than 59 classrooms.**

This means 32 SAC classrooms and 16 SCC classrooms could be re-purposed for other unmet programmatic needs.

SUMMARY OF FINDINGS

Class Labs

SAC Class Labs Fall 2022

- Of the 79 class labs on campus, 28 were unused, 38 were underutilized, 4 were averagely utilized (District target which is equal to within 30% of State Standards), and 9 were well utilized.
- Fall 2019 usage was almost 3 times better (38 combined average and well utilized class labs versus 13).
- Fall 2022 enrollment for SAC was at 89% of the 2019 level (per the data on CCCCO's website), The Pandemic and the slight drop in enrollment has had a significant impact on class lab utilization, but the class lab utilization should have recovered more by now.
- Between 2019 and 2022 the number of online and hybrid (both online and on campus) classes increased and the number of only on-campus classes correspondingly decreased by approximately 30%.

SCC Class Labs Fall 2022

- Of the 36 class labs on campus, 12 were unused, 15 were underutilized, 5 were averagely utilized (District target which is equal to within 30% of State Standards), and 4 were well utilized.
- Fall 2019 usage was almost 2 times better (16 combined average and well utilized class labs versus 9).
- Fall 2022 enrollment for SCC was at 94% of the 2019 level (per the data on the CCCCO's website). The Pandemic and the slight drop in enrollment has had a significant impact on class lab utilization, but the class lab utilization should have recovered more by now.
- Between 2019 and 2022 the number of online and hybrid (both online and on campus) classes increased and the number of only on-campus classes correspondingly decreased by approximately 30%.

Class Labs Conclusion

With the exception of general computer labs, most class labs are specialized instructional spaces that are not interchangeable, and therefore the approach to improve class lab utilization **will require a discipline by discipline review of existing labs** to identify which labs appear to have excess lab space and which do not.

It is possible that some disciplines may have excess lab space due to the poor configuration of their existing labs and therefore improving utilization may require a reconfiguration/renovation of those labs.

Furthermore, this does not preclude the fact that existing labs that are well-utilized could also be in need of a renovation/re-build due to the facility condition of the existing building being beyond its useful life, and/or poor configuration of the existing labs, and/or new technologies and infrastructure requirements for those labs, etc.

SUMMARY OF FINDINGS

Computer Labs

Computer Labs both Campuses

- 31 out of the 79 class labs on SAC are computer based class labs. 10 of these were unused, 18 were underutilized, 1 was averagely utilized, and 2 were well utilized, in Fall 2022.
- 8 out of the 36 class labs on SCC are computer based class labs. 5 of these were unused, 3 were underutilized, 0 were average to well utilized, in Fall 2022.
- Fall 2019 computer lab usage was significantly better for both campuses (30 out of 31 computer labs used at SAC, 6 out of 8 computer labs used at SCC). In addition the number of hours each of those labs was used in Fall 2019 was considerably higher than the number of hours they were used in Fall 2022.
- The increase in online and hybrid classes between Fall 2019 and Fall 2022 has clearly had a significant impact on computer labs usage. It appears many of these courses are being offered online.

Computer Labs Conclusion

No additional computer labs are needed. Furthermore, all of these data points indicate that **both campuses can afford to re-purpose unused computer labs to accommodate unmet programmatic needs on their campuses.**

Both campuses should also be able to consolidate the usage of under-utilized computer labs to free up additional computer labs for re-purposing. The exact number will depend on the hardware/software configurations of the computer labs. For example, if the vast majority of computer labs are PC-based, and these computers are able to accommodate most standard software, then consolidation will be easier. However, if most labs have unique hardware/software requirements (e.g. CADD for engineering applications, or Mac-based computers for design related fields) then consolidation might be less feasible for those particular computer labs.

Another option to improve both computer labs and classrooms is to consider laptop based classrooms that can be scheduled as either a classroom or a computer lab.

RECOMMENDATIONS

The recommendations are based on the data analysis presented within this document, and a knowledge of the existing facilities conditions for the campus. The goal of the recommendations is to right-size each campus to improve utilization of spaces, which can be accomplished by re-purposing unused and underutilized spaces on campus to meet other unmet programmatic needs for each campus.

The recommendations are categorized as follows: short-term considerations, and long term considerations that may require more data points and further discussion with multiple groups.

Approach to Recommendations

1. Identify a target reduction of classrooms and class labs to start improving utilization.
    - Suggested Target for classrooms: 25% above Fall 2022 peak (concurrent) use of classrooms. Fall 2022 Peak usage was 47 classrooms on both campuses, and 25% of that number equates to 12 classrooms, so **each campus should aim to have no more than 59 classrooms.** This means 32 SAC classrooms and 16 SCC classrooms could be re-purposed for other unmet programmatic needs.
    - Suggested Target for class labs: requires further discussion with multiple groups.

2. Apply criteria to evaluate which rooms should be considered to be re-purposed:
    - Age of the building that the instructional room is housed
    - Temporary structures versus permanent structures
    - Unmet Programmatic Needs considerations such as desired adjacencies
    - Size of classrooms and class labs - the classroom seats usage data from Fall 2022 suggests that the majority of classrooms are oversized on both campuses and would benefit from being right-sized (reduced in size and number of seats).

SAC RECOMMENDATIONS: SHORT-TERM CONSIDERATIONS

Currently SAC campus has 91 classrooms. Once Russell Hall is demolished and the New Health Sciences Building is complete the campus will have 81 classrooms. Per page 41, the recommendation is to have 59 classrooms, which means 22 classrooms should be re-purposed.

Strategy 1: Vacate Hammond Hall

Upon completion of the Health Sciences (HS) Building, the Pharmacy Technology lab and office spaces will move from Hammond Hall to the new HS building, leaving behind (8) classrooms and some offices.

Those classrooms and offices are most heavily used by Math and Speech Language Pathology Assisting (SLPA), with some use by Pharmacy Technology and Occupational Technology.

The recommendation is to schedule the classes held in these (8) Hammond Hall classrooms to non-utilized or under-utilized classrooms in Building A (Cesar Chavez), Dunlap Hall, the Science Center, and future Health Sciences building.

Additionally (2) to (4) non-utilized/under utilized contiguous classrooms within Cesar Chavez (and/or Dunlap Hall) could be re-purposed to house the SLPA and Maths offices from Hammond Hall, thereby creating a new department hub for Maths and a new home for SLPA.

It may also be feasible to consolidate all of the Math faculty from various buildings across campus within Cesar Chavez, by re-purposing (4) unused computer labs in Cesar Chavez.

The rationale behind this suggestion is that Hammond Hall is one of the oldest buildings on campus with multiple deficiencies for disabled access, and its mechanical & electrical infrastructure is at the end of its useful life (and therefore less efficient).

Removing Hammond Hall would lead to significant M&O savings, while making newer classrooms across Science Center, Health Sciences, Dunlap Hall and Cesar Chavez much more efficient.

It is also in alignment with the most recent Facilities Master Plan Update completed in 2022.

Net Result of Strategy 1

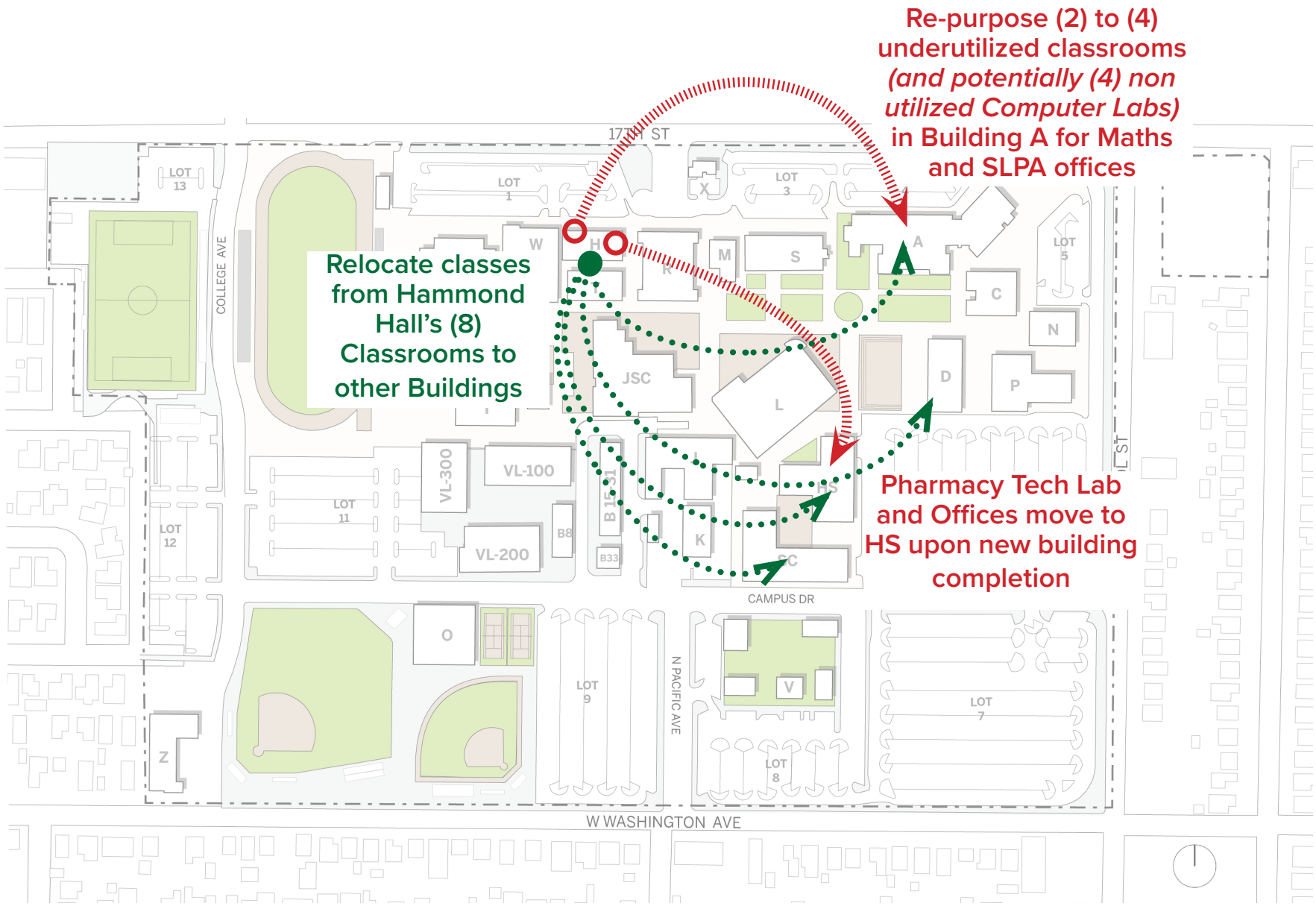
This short-term considerations strategy would re-purpose approximately 12 classrooms and (4) computer labs.

Removal of additional classrooms

Assuming the strategy 1 recommendation is undertaken, the balance of 10 classrooms may want to be chosen either based on size (remove large under utilized classrooms per utilization analysis on page 19) or from a perspective of how a particular classroom(s) may be useful to accommodate an unmet programmatic need.

For example, the college has wanted to consolidate its tutoring services on the second floor of the Library. If the Math offices located in the Library Building were to get relocated to the new Math department hub identified in strategy 1 (by re-purposing the unused computer labs), and if the classes held in the (2) classrooms on the 2nd floor of the Library Building were to be re-assigned to other buildings, then the College might be able to accomplish it's vision to consolidate the tutoring services on the second floor of the Library sooner than later.

SAC RECOMMENDATIONS: SHORT-TERM CONSIDERATIONS GRAPHIC



SCC RECOMMENDATIONS: SHORT-TERM CONSIDERATIONS

Per page 41, the recommendation is to have 59 classrooms, and currently SCC has 75 classrooms, which means 16 classrooms should be re-purposed.

Strategy 1: Vacate (non Adult-Education) U Portables

This strategy is directed at the "U Portables" only, i.e. not the "OEC Interim U Portables" which is adjacent to the U portables.

Of the 8 classrooms in the U Portables, only 3 classrooms were utilized in Fall 2022, and all them were under utilized.

Classes from the classrooms in the U portables should be rescheduled into classrooms located in Building H (Humanities) since all classrooms on the campus are under utilized.

An additional 2 Classrooms might be re-purposed in the Science Center to accommodate the Water Utility Science program from the U Portables (as discussed in the 2022 Facilities Master Planning process), however, other locations are also being studied.

Of the other class labs in the U Portables, only 1 was utilized in Fall 2022, and it was under utilized. The U Portables also house some faculty offices.

To complete the removal of as many of the U Portables as possible, the College should:

- Explore which space on campus could accommodate the Gemology Lab and the Civil Surveying Lab which appear to hold classes in the evenings and/or the weekends only, freeing up the use of those rooms for other instruction as long as their specialized equipment can be secured/out of the way;
- Explore the need for the Biology Lab, Office Technology Lab (zero use in Fall 2022), and other lab support spaces to see how they can be accommodated in existing spaces on campus (for example there are some computer labs on campus that are not being used at all and could be re-purposed);
- Similarly find vacated offices or spaces on campus to accommodate the faculty offices.

The rationale behind this suggestion is that the U Portables are temporary structures, most of which are past their useful life, and they are costly to operate and maintain.

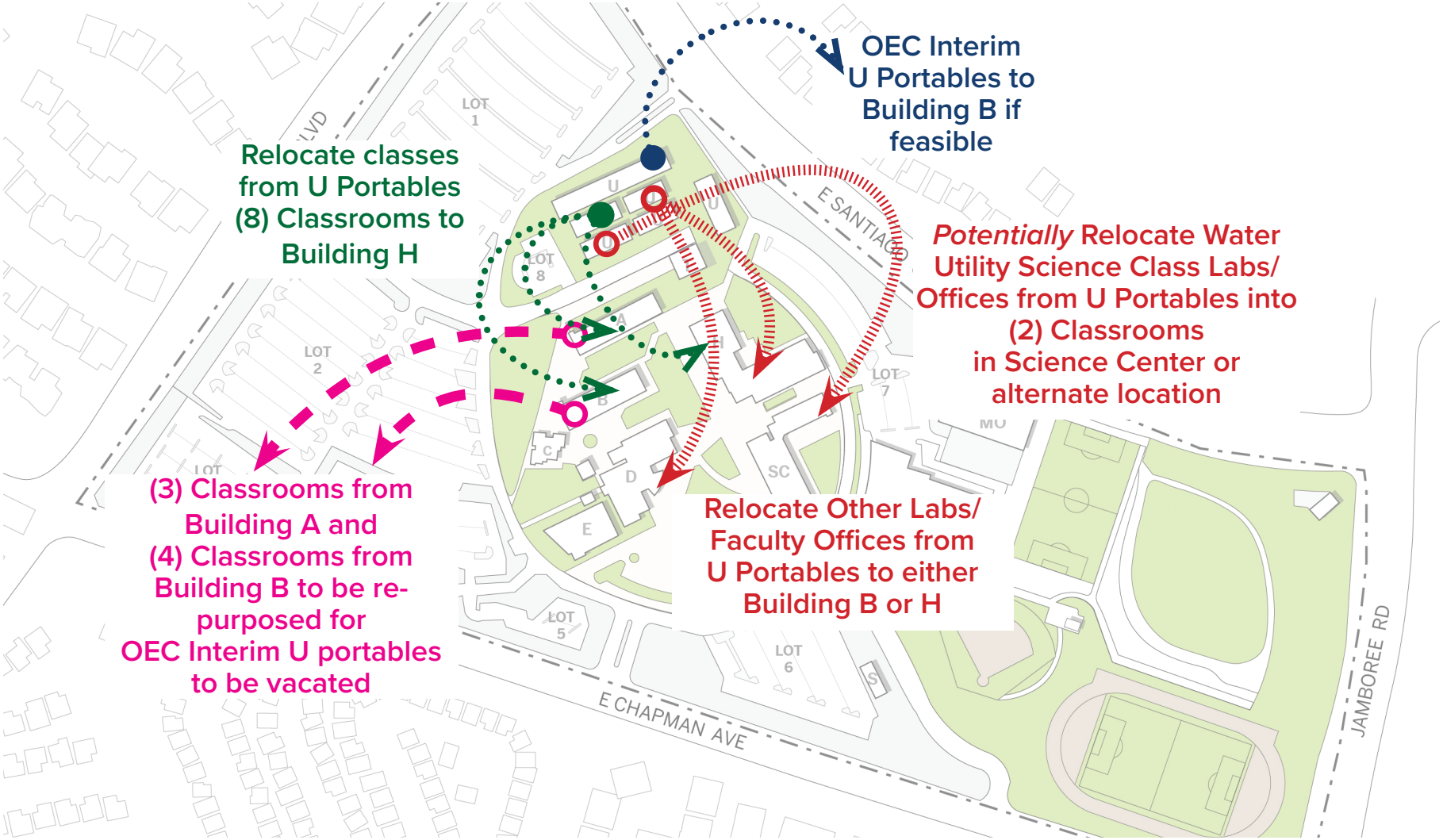
Net Result of Strategy 1

This short-term considerations strategy would remove at least 8 classrooms.

Removal of additional classrooms

It might be possible to remove all U Portables (including the OEC Interim ones) if (3) under utilized classrooms in Building A and (4) under utilized classrooms in Building B were to be re-purposed for these uses. Doing so would result in the net removal of an additional (7) classrooms from the SCC classroom count, thereby improving SCC classroom utilization overall.

SCC RECOMMENDATIONS: SHORT-TERM CONSIDERATIONS GRAPHIC



SAC AND SCC RECOMMENDATIONS: OTHER CONSIDERATIONS

Computer Labs

As the data shows, 10 out of 79 SAC class labs and 5 out of 36 SCC class labs were unused in Fall 2022.

Both campuses should also be able to re-purpose non-used and some under-utilized computer labs to free up space for unmet programmatic needs. The exact number will depend on the hardware/software configurations of the computer labs. For example, at SCC the 5 unused computer labs appear to be “general” in nature, i.e. likely to be PC-based with standard software, making all 5 of them good candidates for re-purposing. At SAC 6 out of 10 unused computer labs appear general in nature, while the others are likely to have specialized hardware/software, as such 6 unused computer labs at SAC should be re-purposed and the other 4 should be evaluated for continued need and possible re-purposing.

Given that the majority of computer labs that are used on both campuses are underutilized there is some additional opportunity for consolidation of usage, leading to better utilization.

Review Other Class Labs and develop a strategy

As the data shows, 18 (non-computer labs) out of 79 SAC class labs and 7 (non-computer labs) out of 36 SCC class labs were unused in Fall 2022.

Since non Computer Labs are discipline specific, these labs need to be analyzed one by one to understand lack of usage.

It is possible that some of these rooms are coded incorrectly in that they are special labs that support a main lab that gets scheduled, in which case these rooms should be revised in the space inventory to reflect this auxiliary use.

However, if that is not the case, and the lack of usage is due to changes in enrollment in that discipline and/or increase of online delivery of those particular labs, then the college should look to re-purpose those unused and under utilized lab spaces.

Longer Term Strategy

The recommendations are based on the college scheduling courses as they always have in terms of day/time selected, with the only proposed revisions being the teaching locations to remove excess classrooms, and improve overall classroom utilization.

However, to meet the State expected standards the college should study opportunities to schedule classes more evenly across the day, and between days, to reach the 9.6 hours (or 10.6 for SAC) per day for each classroom and 5.5 hours a day for each class lab, as much as possible.

Tandem with this effort the college should be ensuring that the classroom inventory has the right number of seats for the actual course enrollments. For example if most courses have a maximum of 30 students then most classrooms should be 30 - 40 seats to achieve the 66% occupancy while class is in session.

A similar effort needs to be made with respect to the class labs.





RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

APPENDIX
INSTRUCTIONAL SPACE UTILIZATION STUDY 2023

JANUARY 26, 2024