

Section 7.1

# Rock Creek Campus Building 2

Program Analysis

Rock Creek Campus | Bookable Learning Space

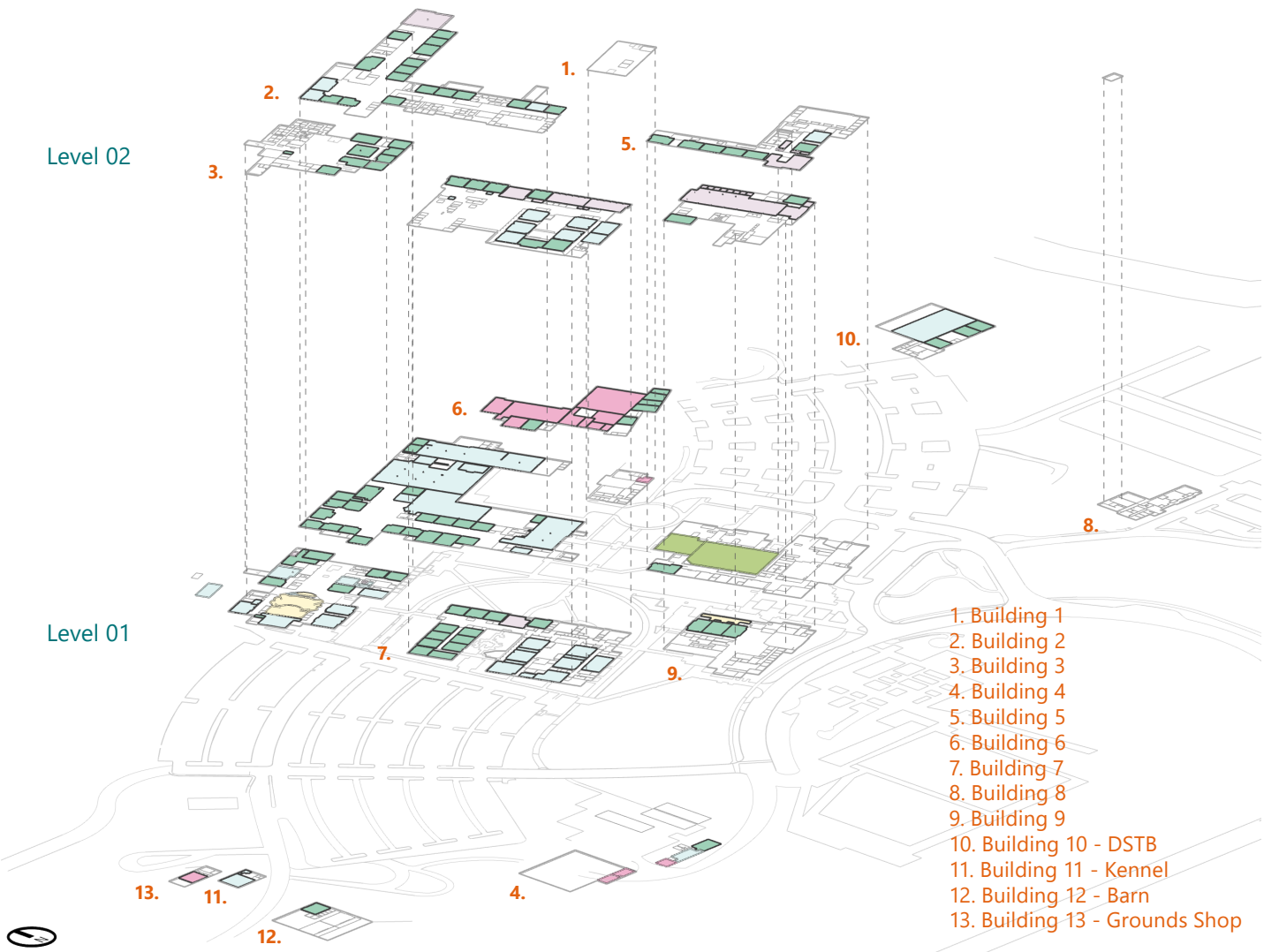
**Purpose**

PCC are in the process of remodeling Building 2 at the Rock Creek Campus and requested a program use and utilization summary. PCC intends to use the data to help inform design decisions for the renovation project.

**Methodology**

The information presented in this case study is from the class data and event data from Astra Schedule as provided by PCC. The case study focuses on bookable learning spaces with classes and events scheduled during core hours.

<b>Definitions and Assumptions</b>	
<b>Analysis timeframe</b>	All analysis is performed for a single year (4 terms, including: spring 2024, summer 2024, fall 2024 and winter 2025) and all holidays after terms (1st April 2024 to 30th March 2025).
<b>Core hours</b>	PCC ‘peak’ hours (Mon-Thu 9am-3pm) will be referred to as core hours to avoid ambiguity with peak utilization.
<b>Bookable learning spaces</b>	A collection of spaces, defined by specific FICM codes (110 classroom, 210 class laboratory, 410 study room, 520 athletic or physical education, 540 clinic, 610 assembly and 720 shop).
<b>Classes</b>	A time-based curriculum delivery unit. It is defined by a unique ‘course reference number’ (CRN), occupies timespace unit/s and is recorded in the Astra Schedule ‘Classes’ dataset.
<b>Events</b>	A time-based unit. It occupies timespace unit/s and is recorded in the Astra Schedule ‘Events’ dataset and classified by PCC.
<b>Timespace hour</b>	A unit that represents an hour of time that is allocated to a bookable learning space.
<b>FICM Classification</b>	Standardized classification system as defined by the National Centre for Education Statistic (NCES).



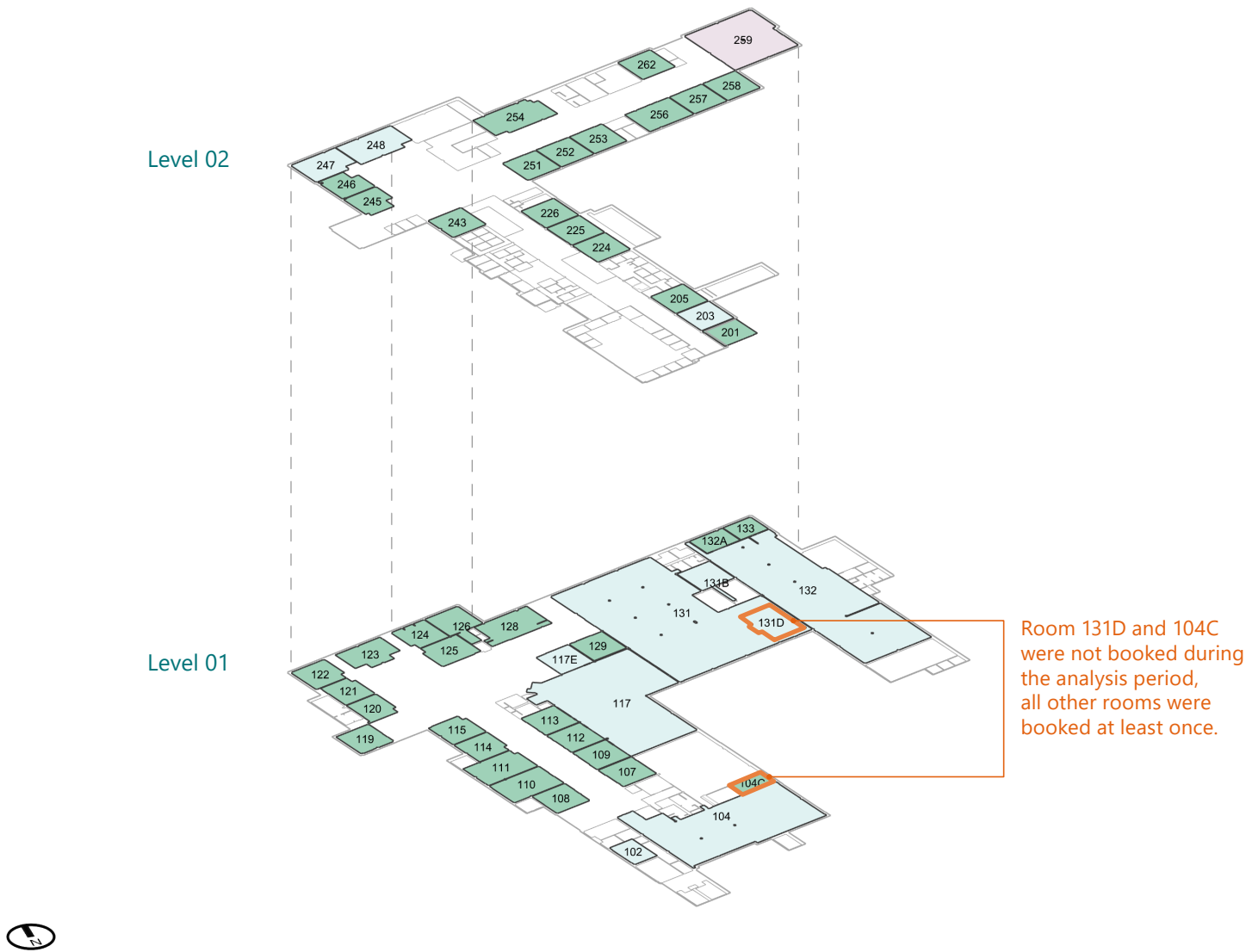
Drawing: Bookable Learning Spaces in Rock Creek Campus

LEGEND	COUNT	AREA (ft²)
110 - Classroom	95	90,383
210 - Class Laboratory	50	94,926
410 - Study Room	26	25,780
520 - Athletic or Physical Education	2	14,683
540 - Clinic	-	-
610 - Assembly	4	6,715
720 - Shop	14	22,989
Total	191	255,476

The majority of bookable learning spaces at Rock Creek Campus are 110 Classrooms, 210 Class Laboratories and 410 Study Rooms.

The remaining bookable learning spaces are each located in discrete buildings: 520 Athletic or Physical Education in Building 5, 610 Assembly in Building 3, and 720 Shop in Building 6.

Building 2 | Bookable Learning Spaces



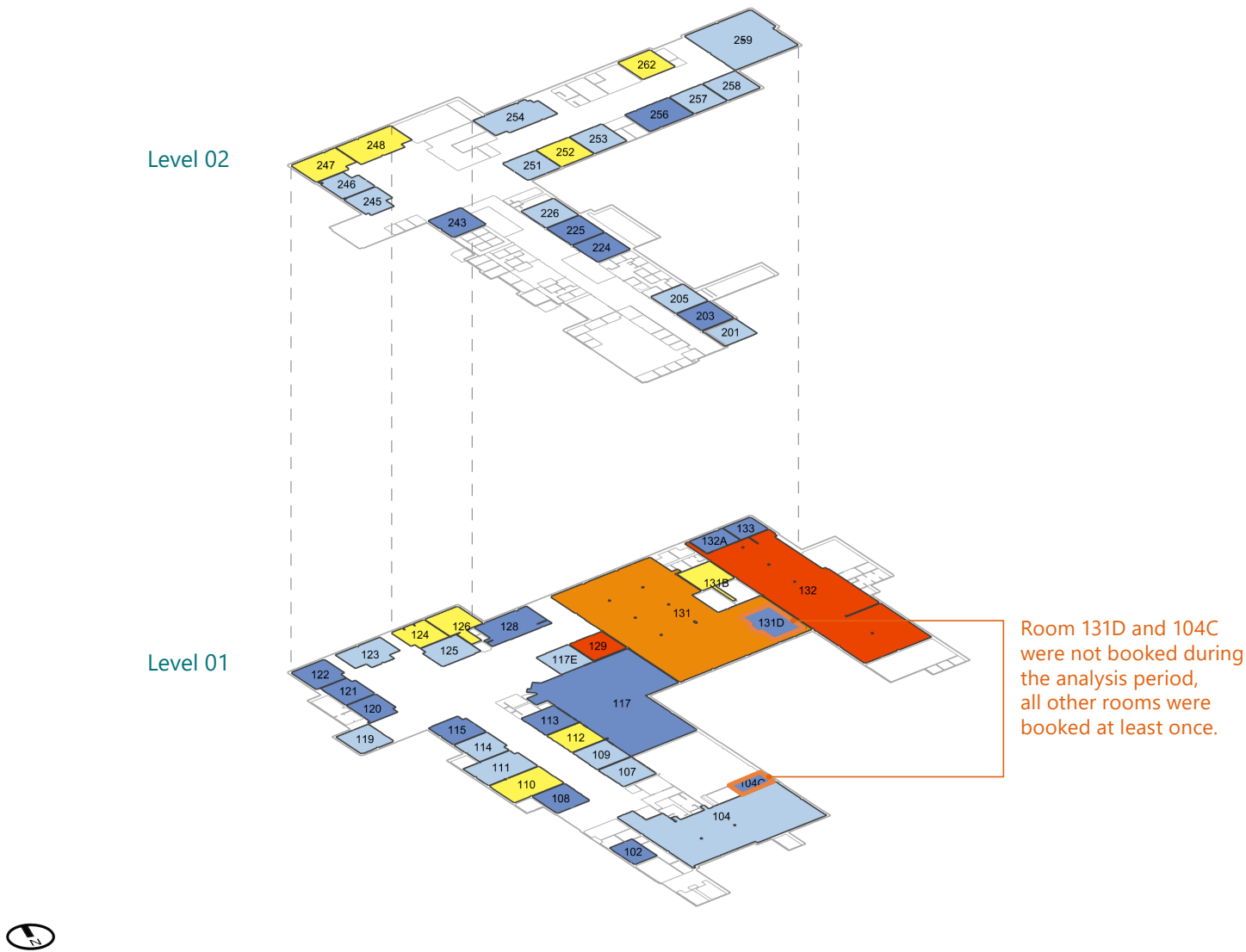
Drawing: Bookable Learning Spaces in Building 2, Rock Creek Campus

LEGEND	COUNT	AREA (ft <sup>2</sup> )
110 - Classroom	38	34,643
210 - Class Laboratory	11	48,480
410 - Study Room	1	3,479
520 - Athletic or Physical Education	-	-
540 - Clinic	-	-
610 - Assembly	-	-
720 - Shop	-	-
Total	50	86,602

The largest rooms in Building 2 are all 210 Class Laboratory, they are: 104 Construction, 117 Diesel, 131 Auto Body and 132 Welding.

The 410 Study Room is room 259 Student Computing Center.

Building 2 | Average Utilization



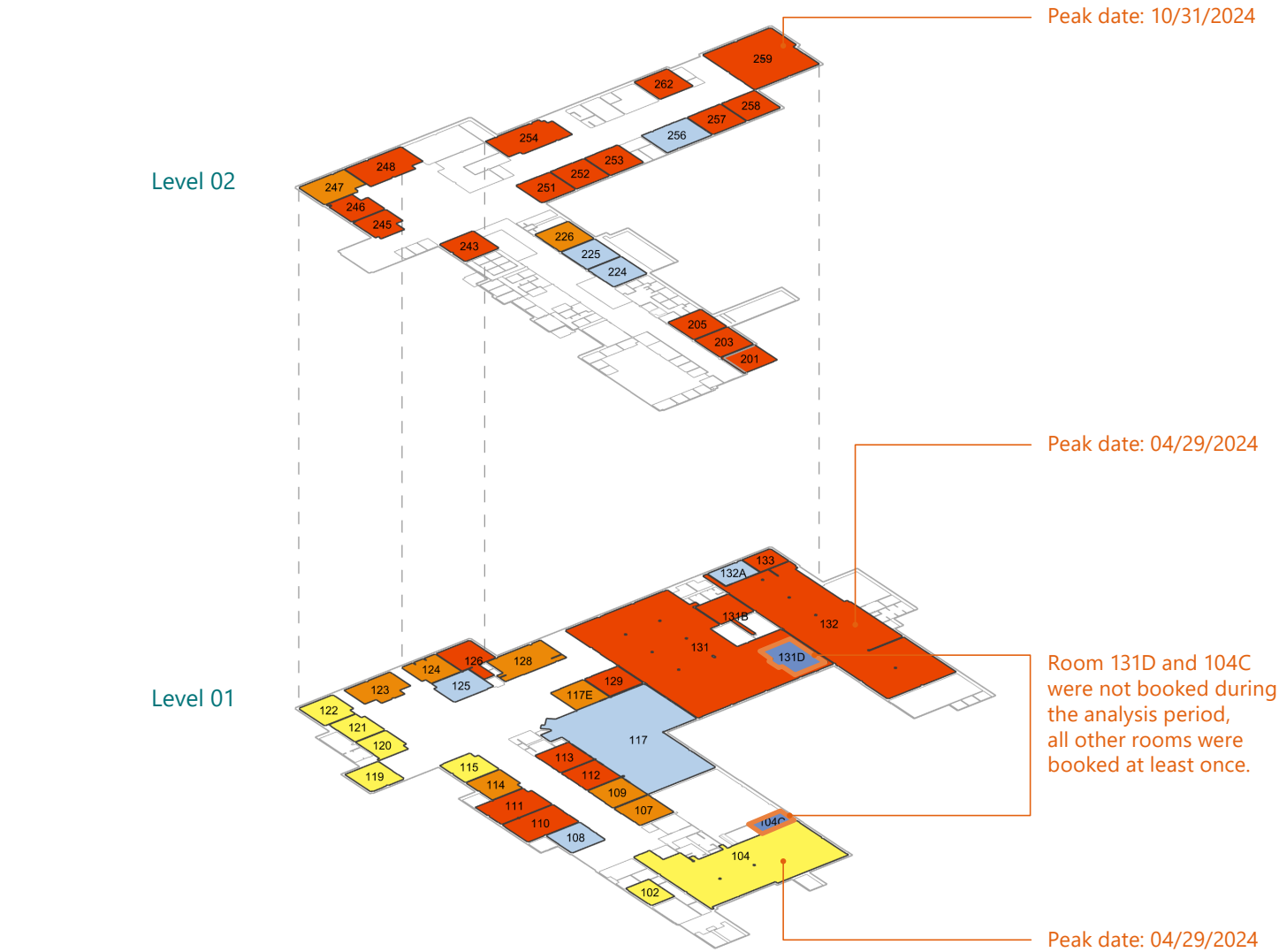
Drawing: Average Utilization in Building 2, Rock Creek Campus

LEGEND
0% - 19.9%
20% - 39.9%
40% - 59.9%
60% - 79.9%
80% - 100%

Rooms 131 Auto Body, 132 Welding and 129 Classroom, on average, are the most utilized rooms in Building 2.

Note: Average utilization is a percentage measure of utilization calculated as the sum of all allocated timespace hours, divided by the total available timespace slots in a specified time period.

Building 2 | Peak Utilization



Drawing: Peak Utilization in Building 2, Rock Creek Campus

- LEGEND
- 0% - 19.9%
  - 20% - 39.9%
  - 40% - 59.9%
  - 60% - 79.9%
  - 80% - 100%

Many rooms in Building 2 have a peak utilization greater than 80%. This illustration shows a collection of the most utilized days, that may not be the same date as each other. This information can be used to understand the maximum demand across all rooms simultaneously.

Note: Peak utilization is calculated on a daily basis and represents the best daily utilization for a room within a specified time period. This is used to graphically show the highest activity level per room.

Building 2 | Room Summary

Room Number	FICM	Average Utilization <sup>1</sup>	Peak Utilization <sup>1</sup>	Days at Peak Utilization	Example Date of Peak Occurrence	Classes			Events		
						Total Booked Timespace	Largest User Timespace	Largest User	Total Booked Timespace	Largest Customer Timespace	Largest Customer
						Hours <sup>2</sup>	Hours <sup>2</sup>		Hours <sup>2</sup>	Hours <sup>2</sup>	
102	210	10.8%	50.0%	45	2024-10-31				135	135	RC Rooms- RC STEAM Lab Hours Fall 2024 Term
104	210	32.7%	50.0%	136	2024-04-29	474	474	BCT			
104C	110	0.0%	0.0%	0	-						
107	110	32.8%	66.7%	43	2024-08-15	409	301	EPG			
108	110	1.8%	33.3%	11	2024-05-15	22	22	BCT			
109	110	20.2%	66.7%	36	2024-04-29	252	252	DS			
110	110	54.9%	100.0%	16	2024-08-15	631	598	MTH	55	55	Math
111	110	30.6%	83.3%	16	2024-07-15	360	101	WR	22	14	ABE/ESOL
112	110	46.5%	83.3%	44	2024-08-15	580	360	DS			
113	110	18.9%	83.3%	4	2024-07-11	236	236	DS			
114	110	35.7%	66.7%	43	2024-04-29	402	402	JPN	44	44	Japanese
115	110	15.4%	50.0%	1	2025-03-04	186	126	BA	6	4	K-12 and Community Partnerships
117	210	0.2%	33.3%	1	2024-05-23				2	2	Aerospace & Transportation Technologies
117E	210	28.8%	66.7%	36	2024-04-29	360	360	DS			
119	110	26.0%	50.0%	70	2024-10-31	325	163	WR			
120	110	18.0%	50.0%	29	2025-01-30	224	166	WR	1	1	Student Life
121	110	15.4%	50.0%	4	2025-03-04	181	101	WR	11	4	Math
122	110	19.0%	50.0%	23	2025-03-05	235	78	WR	2	1	RC Rooms- Event Center Facility Tour w/ Elaine Hsieh
123	110	39.7%	66.7%	52	2024-04-04	519	420	ESOL	12	9	ABE/ESOL
124	110	40.5%	66.7%	32	2025-01-30	506	428	ESOL			
125	110	20.7%	33.3%	116	2024-04-29	238	168	ESOL	20	12	Business Administration
126	110	43.8%	83.3%	18	2024-08-15	547	501	ESOL			
128	110	7.4%	66.7%	1	2024-07-03	68	46	TA	24	16	Veterans Resource Center
129	110	86.5%	100.0%	180	2024-04-29	1080	1080	AB			
131	210	65.4%	100.0%	136	2024-04-29	1080	816	AB	4	4	Aerospace & Transportation Technologies
131B	210	54.6%	100.0%	1	2024-11-06	680	680	AB	2	2	Aerospace & Transportation Technologies
131D	210	0.0%	0.0%	0	-						
132	210	87.2%	100.0%	180	2024-04-29	2102 <sup>3</sup>	2094 <sup>3</sup>	WLD	294	135	RC Rooms- Welding Classes - Instructors (Cobb & Longueil)
132A	110	0.2%	33.3%	1	2024-04-18				2	2	PACTEC
133	110	2.1%	100.0%	4	2024-07-31				26	24	RC Rooms- Mind Over Metal Camp
201	110	20.8%	100.0%	2	2024-07-23	248	158	SPA	12	6	Advising & Career Services
203	210	13.5%	100.0%	1	2024-08-28				171	26	RC Rooms- ESOL 164 Thornburgh
205	110	26.7%	100.0%	1	2024-06-27	327	272	SPA	6	6	Advising & Career Services
224	110	14.7%	33.3%	92	2024-04-04	184	184	ABE			
225	110	18.1%	33.3%	113	2024-04-29	224	224	ABE	2	2	Information Technology
226	110	34.5%	66.7%	44	2025-03-03	494	252	MTH			
243	110	1.0%	100.0%	2	2024-06-06				12	12	Advising & Career Services
245	110	37.9%	100.0%	52	2024-04-29	197	138	ESOL	276	237	CAMP
246	110	31.7%	100.0%	1	2024-08-29	379	208	ESOL	16	8	ABE/ESOL
247	210	45.8%	66.7%	95	2024-04-04	564	504	MTH	7	5	Library and Media Services
248	210	51.8%	100.0%	2	2024-08-29	640	544	MTH	15	8	Career and College Prep
251	110	36.5%	83.3%	25	2024-10-31	666	344	ALM	5	5	RC Rooms- Test
252	110	41.3%	100.0%	23	2025-03-03	504	350	MTH	11	6	Future Connect
253	110	39.3%	100.0%	6	2024-07-23	452	338	MTH	44	30	K-12 and Community Partnerships
254	110	27.0%	100.0%	27	2024-12-11	289	144	ALC	108	69	Aerospace & Transportation Technologies
256	110	2.8%	33.3%	2	2024-06-13	22	22	WR	14	11	RC Rooms- CRN# 20644 WR 121
257	110	35.5%	100.0%	45	2024-04-29	142	48	MTH	301	240	Building Construction Technology
258	110	28.7%	100.0%	5	2024-07-23	220	96	MTH	138	108	RC Rooms- ECHS Study Hall
259	410	21.6%	100.0%	45	2024-10-31				270	270	RC Rooms- College Success & Accelerated Credit Open Hours
262	110	44.5%	83.3%	1	2024-06-13	678	390	MTH	5	2	RC Rooms- Future Connect New Student Start Labs

<sup>1</sup> The calculation of average and peak utilization removes overlapping bookings.  
<sup>2</sup> Timespace data is from Astra Schedule and may not align with utilization measurements as many spaces can house more than one booking concurrently and timespace calculations on this page do not remove overlapping bookings.  
<sup>3</sup> Room 132 (Welding) has a high number hours due to multiple overlapping bookings.

Building 2 | Bookable Learning Space Hours

This matrix illustrates the total number of timespace hours available to be booked in each building for each FICM code during core hours. Overall, there are 238,368 available core timespace hours at Rock Creek Campus.

110 Classrooms comprise of approximately 50% of the timespace hours available in the Rock Creek Campus.

40,067 hours (16.8%) of available timespace hours are booked. The most utilized room type is 110 Classrooms with 24,502 hours.

Note: The data above illustrates bookable learning spaces within the period of core hours. For detailed assumptions and definitions, please refer to page 2.

LEGEND

×

No rooms

●

Total timespace hours

●

Total timespace hours booked

1

Total available timespace hours for each FICM Code

2

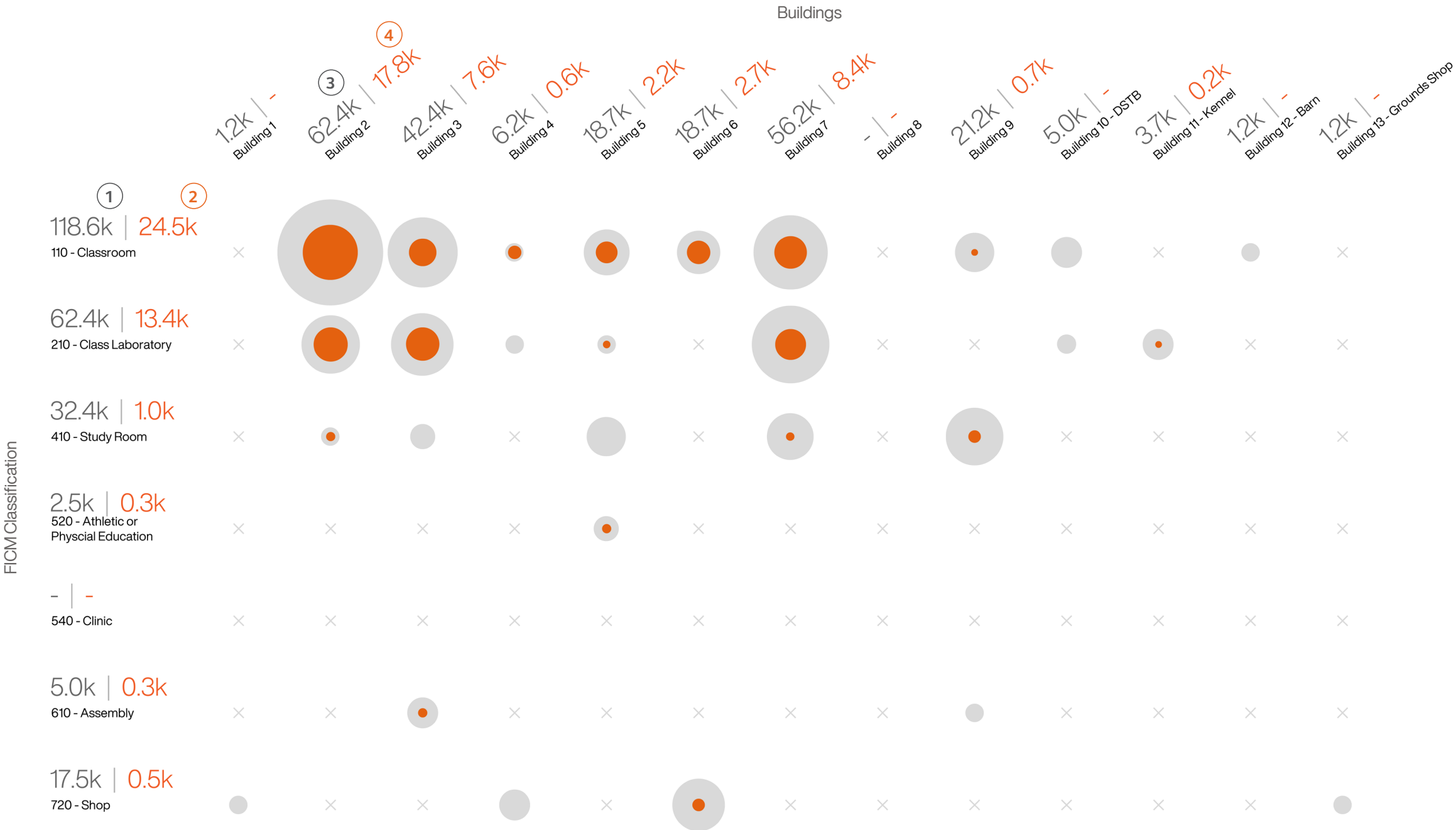
Total booked timespace hours for each FICM Code

3

Total available timespace hours in this building

4

Total booked timespace hours in this building



Building 2 | FICM Summary

Total Available Timespace Hours

FICM Classification	Building 1	Building 2	Building 3	Building 4	Building 5	Building 6	Building 7	Building 8	Building 9	Building 10	Building 11	Building 12	Building 13
110	-	47,424	19,968	1,248	8,736	7,488	22,464	-	6,240	3,744	-	1,248	-
210	-	13,728	16,224	1,248	1,248	-	24,960	-	-	1,248	3,744	-	-
410	-	1,248	2,496	-	6,240	-	8,736	-	13,728	-	-	-	-
520	-	-	-	-	2,496	-	-	-	-	-	-	-	-
540	-	-	-	-	-	-	-	-	-	-	-	-	-
610	-	-	3,744	-	-	-	-	-	1,248	-	-	-	-
720	1,248	-	-	3,744	-	11,232	-	-	-	-	-	-	1,248

Total Booked Timespace Hours

FICM Classification	Building 1	Building 2	Building 3	Building 4	Building 5	Building 6	Building 7	Building 8	Building 9	Building 10	Building 11	Building 12	Building 13
110	-	12,690	3,083	632	1,728	2,116	4,127	-	126	-	-	-	-
210	-	4,876	4,184	12	173	-	4,027	-	-	-	167	-	-
410	-	270	-	-	-	-	231	-	530	-	-	-	-
520	-	-	-	-	265	-	-	-	-	-	-	-	-
540	-	-	-	-	-	-	-	-	-	-	-	-	-
610	-	-	290	-	-	-	-	-	-	-	-	-	-
720	-	-	-	-	-	540	-	-	-	-	-	-	-

Percentage of Available Timespace that are Booked

FICM Classification	Building 1	Building 2	Building 3	Building 4	Building 5	Building 6	Building 7	Building 8	Building 9	Building 10	Building 11	Building 12	Building 13
110	-	26.8%	15.4%	50.6%	19.8%	28.3%	18.4%	-	2.0%	0.0%	-	0.0%	-
210	-	35.5%	25.8%	1.0%	13.9%	-	16.1%	-	-	0.0%	4.5%	-	-
410	-	21.6%	0.0%	-	0.0%	-	2.6%	-	3.9%	-	-	-	-
520	-	-	-	-	10.6%	-	-	-	-	-	-	-	-
540	-	-	-	-	-	-	-	-	-	-	-	-	-
610	-	-	7.7%	-	-	-	-	-	0.0%	-	-	-	-
720	0.0%	-	-	0.0%	-	4.8%	-	-	-	-	-	-	0.0%