

PORTLAND COMMUNITY COLLEGE

## Facilities Plan

Phase I – May 2019 Revised August 2022

## Acknowledgments

## PORTLAND COMMUNITY COLLEGE Steering Committee

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MICHAEL NORTHOVER

KAELA PARKS
JENNIFER PIPER
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KURT SIMONDS
ROB STEINMETZ

#### Task Force

KENDRA CAWLEY
KATE CHESTER
LINDA DEGMAN
TONY ICHSAN
DEBRA JARCHO
REBECCA OCKEN
BOB MACZKO

### **Work Groups**

#### **Space Utilization**

KURT SIMONDS, Chair LAURA MASSEY KAREN SANDERS TONYA BOOKER TATYANA BATAZHAN TRICIA BRAND JULIE MAST

#### **Transportation and Parking**

KATHLEEN MCMULLEN, Chair
KARISSA NICKERSON
MICHAEL KUEHN
WENDY PALMER
JENNIFER DELAIX
DEAN HALLEY
MARK GORMAN
JACK LUSSIER

### Information Technology

VAL MORENO, Chair
TROY BERRETH, Chair
DEBRA JARCHO, Co-Chair
ANDY FREED
JAMES REECE
HANK SCHOTTLAND
PAYAM DAMGHANI
ED HAWKINS
GD IYER
TERRY JOLLEY
AMY HANSON

### Facilities Assessment

MICHAEL HEUER

JOHN MACLEAN, Chair TONY ICHSAN JOE GAMBLE MARK ERICKSON GARY SUTTON
HEIDI VANBROCKLIN
ZAHAVA JONES

#### Safety and Security

DERRICK FOXWORTH, Chair
MICHAEL STURGILL, Co-Chair
DEBRA JARCHO
NEAL NAIGUS
DANIELLE PARKER
ALAN BRAL
RYAN AIELLO
KEVIN CROWLEY
CHARISSE LOUGHERY
JOHN ZALAS

#### Sustainability

BRIAR SCHOON, Chair LAURA WARD JULIE MAST ALYSON LIGHTHART ELAINE COLE

### Capital Projects

JACK LUSSIER

LINDA DEGMAN, Chair DEBRA JARCHO REBECCA OCKEN GARY SUTTON TONY ICHSAN ZAHAVA JONES

### **ADA Compliance**

ALEX BALDINO, Chair WENDY PALMER DONNA BEZIO JODY GIFFIN MARIA MENDEZ KATHLEEN MCMULLEN KEVIN EDWARDS

#### **CONSULTANT TEAM**

#### SRG Partnership

KENT DUFFY
LISA PATTERSON
BRYAN HIGGINS
ERIC RIDENOUR
NITA POSADA
GARY DANIELSON
ROBERT LOCHNER
NICOLAI KRUGER
JASON KARAM
DMITRIY MOLLA
CHRIS KLINE

#### 2.Ink Studio Landscape

MELINDA GRAHAM PAUL WROBLEWSKI

#### **CRT Consultant**

#### AMARA PEREZ

<u>Catena</u> Structural

JOHN MCDONALD JARED LEWIS

## PAE Engineering MEP

BRAD WILSON NEDZIB BIBERIC MIKE STREB

#### <u>David Evans & Associates</u> Civil

BRAD BERRY SARAH JONES

#### <u>Vintage Technology</u> Technology

RICHARD BUSSELL KEN GODACHY JONATHAN YOUNG

### Code Unlimited Accessibility

SAMIR MOKASHI TOM JALESKI

#### Rider Levett Bucknall Estimating

GRAHAM ROY DAN JUNGE

## Lancaster Engineering Transportation

TODD MOBLEY
MIRANDA WELLS

#### <u>Kittelson & Associates</u> Transportation

PHIL WORTH

#### <u>Layne Consultants Int'l</u> Security

STEPHEN P. LAYNE

### Biddison Hier Space Utilization

THOMAS C. HIER

## The Bookin Group Land Use Planning

BEVERLY BOOKIN
CHRIS HAGERMAN

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# Welcome

From classrooms to computers, plumbing to parking: How our students, faculty, and staff experience the physical space we create matters. Comfort, ease and a sense of belonging are integral to student success.





Cascade Student Union Building

At PCC, we value education that's equitable and accessible to all. As Portland's population continues to grow, we're growing with it. Ensuring our facilities are up-to-date with current standards, and reflect the needs of our ever-evolving and expanding student population, is crucial.

In this first phase of our Facilities Plan, we looked at everything from our multi-million dollar campus construction projects to site irrigation. We created work groups across disciplines made up of internal staff and external consultants. After assessing our classroom usage, transportation and safety needs, accessibility and Information Technology infrastructure, we developed an integrated plan with sustainability woven throughout.

What's reflected in this comprehensive, college-wide assessment is an overview: what we're doing right, and where we can improve.

Through this process, we also discovered a new way of working together. We were guided by the tenets of Critical Race Theory, which looks at how race is implicit in everything, including built environments. We created opportunities for students of color in our capital project work through staff and design team trainings, new inquiry methods and robust outreach and engagement.

This data-rich document is just a start. As we move into subsequent phases of facilities planning, our hope is that this plan will offer a framework from which we all learn and build upon.



—Linda Degman

Director of Planning and Capital Construction

## Our Process

PCC's first comprehensive, district-wide Facilities Plan is not your typical facilities assessment.

In an effort to be more intentional and thoughtful about gathering data across the college, we saw an opportunity to take an integrated approach. We wanted to support the college's strategic and academic plans that focus on building opportunities for equitable student success.

Because of the vast amount of data to be collected and processed, the plan was split into two phases. Phase I is essentially an existing conditions assessment. Phase II, is a visioning exercise for the campuses and centers in the PCC district.

In Phase I, we created eight work groups that conducted site visits and held meetings with internal PCC stakeholders and specialists to collect data.

With collaboration driving the process, the chairs of each work group met monthly to review information and coordinate workflow. The findings were then shared with an internal steering committee that was supported by a project management task force.

What is listed in the following pages is a high-level summary of the work group findings. Our goal is that the data collected can be used to better identify and understand our greatest needs district-wide, so we can effectively allocate resources moving forward. More detailed information can be found on each focus area in the technical appendices.

## **Focus Areas**



### **Space Utilization**

Classrooms and meeting rooms on campuses and centers



### **Information Technology**

Wireless access, telecommunications rooms, copper and fiber optic cabling, as well as classroom technology



#### **Facilities Condition Assessment**

College utilities, landscape, structural conditions, mechanical, electrical and plumbing, as well as code compliance



### **Americans with Disabilities Act (ADA)**

Accessible pathways from parking lots and bus hubs to building entrances and building interiors



### **Transportation and Parking**

Parking spaces and current transportation demand strategies (including bike rental programs, shuttle service and discounted TriMet passes), that aim to reduce car use



### **Capital Projects**

Large-scale campus construction projects funded by general obligation bonds



### **Safety and Security**

Electronic safety systems such as building access, emergency notifications, intrusion detection and video surveillance



### **Culture of Sustainability**

Waste management, energy and water efficiency, stormwater management, natural systems including gardens and bee apiaries and transportation alternatives



### **Critical Race Theory**

Framework that stresses the participation, leadership and experimental knowledge of students of color in the design process

## Fast Facts PCC District Wide Map

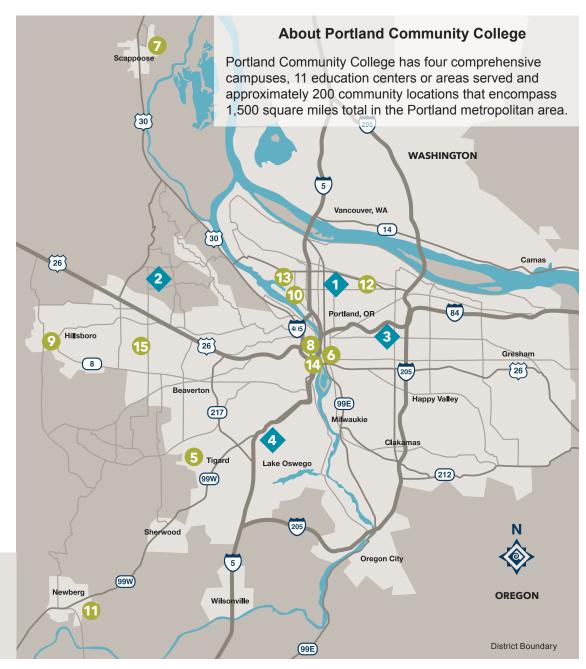
#### **CAMPUSES**

- 1 Cascade
- 2 Rock Creek
- 3 Southeast
- 4 Sylvania

#### **CENTERS AND OTHER LOCATIONS**

- 5 Carolyn Moore Writers House
- 6 CLIMB Center for Advancement
- 7 Columbia County Center
- 8 Downtown Center
- 9 Hillsboro Center
- 10 Maritime Welding Training Center
- 11 Newberg Center
- 12 Portland Metropolitan Workforce Training Center
- 13 Swan Island Trades Center
- 14 Vanport Building
- 15 Willow Creek Center

PCC serves more than 70,000 part- and full-time students in Multnomah, Washington, Yamhill, Clackamas and Columbia counties. We offer two-year degrees, one-year certificate programs, short-term training, alternative education, precollege courses and lifelong learning.



## Fast Facts

PCC is the largest post-secondary institution in Oregon

PCC was the 4th college nationwide to become Bee Campus USA certified. PCC is also Tree Campus USA certified

PCC has eleven LEED-certified buildings

PCC's district has grown to 1,500 square miles, larger than the size of Rhode Island, and includes five counties — Multnomah, Washington, Clackamas, Columbia, and Yamhill

1961 PCC opened its doors in 1961

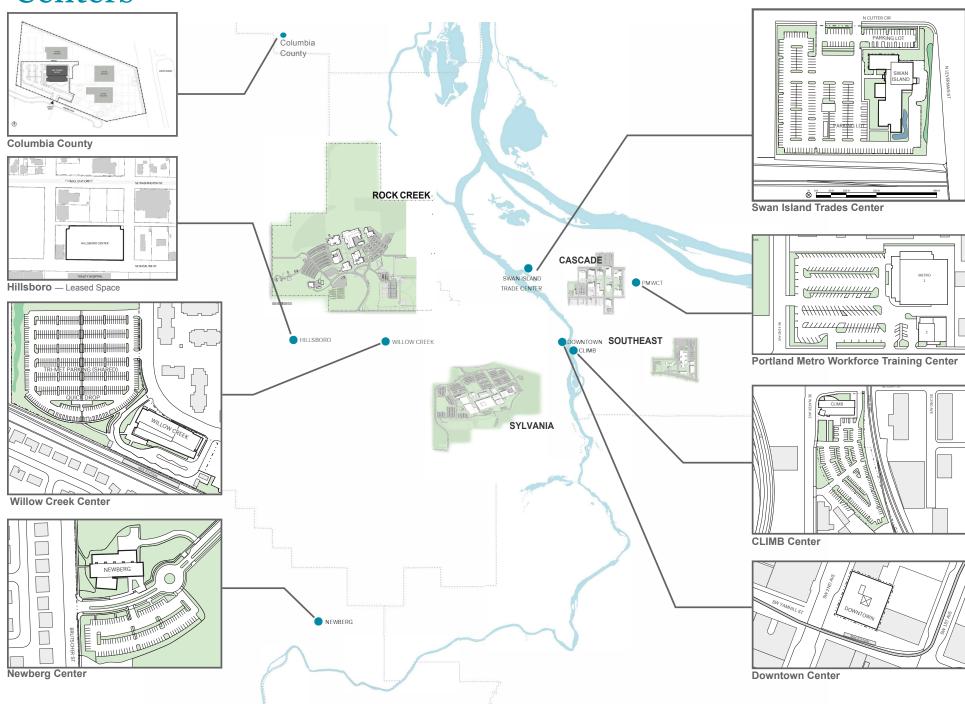
### **Campuses**

Cascade	1971	13 Buildings	485,282 gsf	18.8 acres
Rock Creek	1976	21 Buildings	643,335 gsf	252 acres
Southeast	1981 Center 2014 Campus	6 Buildings	228,455 gsf	17.55 acres
Sylvania	1968	16 Buildings	898,717 gsf	123.04 acres
SUBTOTAL		56 Buildings	2,255,789 gsf	411.39 acres

### **Centers**

CLIMB	1996	1 building	35,646 gsf	2.58 acres
Downtown Center	1880 2010 Renovation	1 building	43,595 gsf	.22 acres
Newberg	2011	1 building	12,800 gsf	14.9 acres
ОМІС	2021	1 building	29,630 gsf	17.25 acres
PMWTC	1957 Acquired by PCC in 1998	2 buildings	32,570 gsf	2.92 acres
Swan Island	1993 2014 Renovation	1 building	22,517 gsf	5.3 acres
Vanport	2021	Third Floor	25,615 gsf	
Willow Creek	2009	1 building	95,308 gsf	1.55 acres
SUBTOTAL		8 buildings	297,681 gsf	44.72 acres
TOTAL		64 buildings	2,553,470 gsf	456.11 acres

## Centers



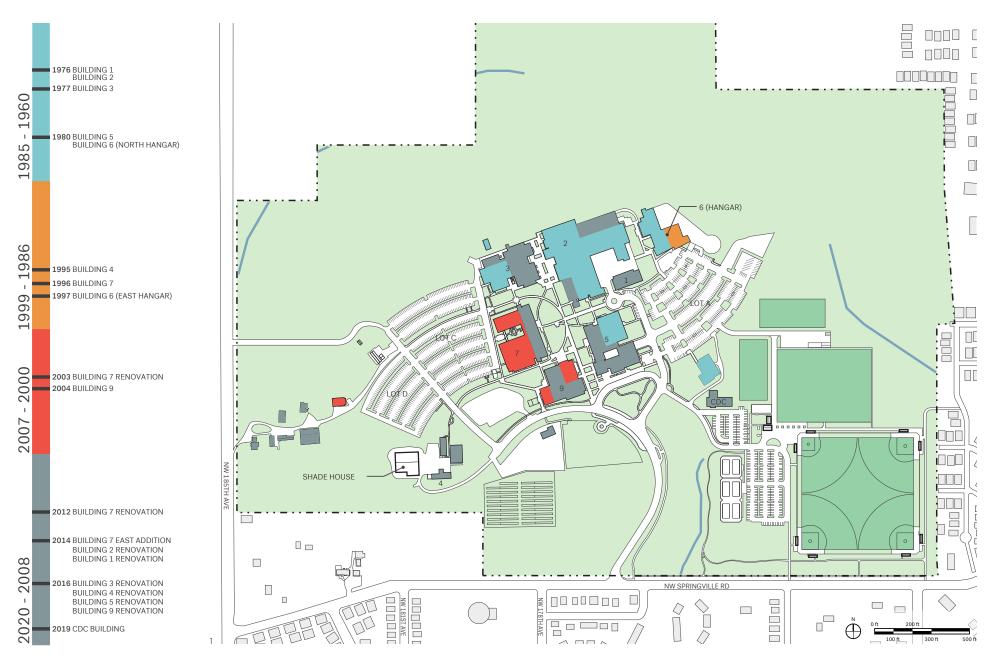
## Cascade Development History-



## Sylvania Development History-



## -Rock Creek Development History-



## Southeast Development History-



## Critical Race Theory: Engaging With Equity -





This project has taught me a lot about taking part in collaborative research and addressing the complexities of our world, then taking on the task of improving as best we can.

—Cory Gillette
Space Matters Student

Critical Race Theory (CRT) is a framework used to examine society as it relates to the categorization of race, law and power. Combined with spatial theory, the workgroups applied a CRT lens to explore how race and space play a part in shaping our campus climate. Space is not neutral, and finding ways to better understand students' perspectives of the spaces we build will help us achieve a more welcoming and comfortable learning environment.

With a focus on process over outcome, the project supported student-led inquiry research (see page 14), included CRT trainings and workshops and developed a repository of online resources. PCC will continue to seek ways to infuse CRT within facilities planning and capital projects; our work in this arena is ongoing.

### **Student findings**



Students combined storytelling with inquiry for a more authentic engagement process. Asking critical questions that explored students' on campus experiences mattered just as much as who asked the questions. For future research, consider questions such as: How do built environments on campus make you feel? How would you describe an inclusive space? How are your multiple identities represented in college space?

## Critical Race Theory: Student Discovery





Over the course of the project, students applied CRT to "read" three spaces—Learning Garden (RC), Health Technology Building (SY), and College Center Building (SY). Comments included:

- I'm conflicted. There's historical trauma associated with a garden, especially for people of color.
- You have to be in the know to know what is taught here, how to participate, and who belongs here.
- The open student space, with flexible furniture and data and power outlets, is great and appreciated. Yet it can feel like we're being watched because of the many windows, and the concrete floor feels harsh and cheap.
- Type of furniture and openness of the ASPCC space makes it seem inclusive. It is spacious, yet private, making it feel safe.
- The photos and posters on the wall are of white people only, and other displays support dominant ideas of gender and race.

## 'Space Matters: Race, Equity, and the PCC Landscape'

'Space Matters' was a student engagement and inquiry project designed to apply CRT to facilities planning as a means to further PCC's mission of equity and inclusion.

Wanting to take the theoretical and explore how it could be applied practically, a series of workshops were offered to train 20 PCC students of color as co-researchers over a period of five weeks, from February to March 2018. In between workshops, students designed inquiry tools and conducted outreach on all four campuses to investigate the socio-spatial experiences of PCC students through photojournaling and surveys.

Students were invited to explore the following questions:

*How does space matter?* 

What do material objects, spatial arrangements and built environments teach us about culture and power?

What messages do educational settings communicate?

What are the relationships among race, space and educational equity at PCC?

How might we imagine new possibilities for PCC campus spaces?

Students shared their findings in a community forum where they presented and discussed insights and recommendations with college leaders.

## Organization

## **PCC BOARD OF DIRECTORS**

PCC CABINET (VPS, ETC.)

STEERING COMMITTEE
RECOMMENDING BODY

## **WORK GROUPS**

**TECH RESOURCE** 

Space Utilization
Capital Projects
Facilities Condition Assessment
ADA

Transportation & Parking
Information Technology
Safety & Security
Sustainability

TASK FORCE PROJECT MANAGEMENT

## Space Utilization-



Space utilization looks at how we're using our classrooms at campuses and centers. Good space utilization means being able to meet peak demand without having too much excess space. This study marked the first time the college comprehensively reviewed usage.

## What is working

- High-seat utilization and effective room utilization. Usage on Monday-Thursday is efficient, which is typical for a community college of our size
- · Classroom sizes are a good mix of size ranges

## Recommendations

- Create a standard template for Workforce Centers to track a variety of scheduling requests
- Refine scheduling/use data for continued room and seat utilization assessment
- Conduct a space utilization assessment for non-academic/ support spaces district-wide

#### Also look at:



#### Overview of Classroom Utilization

		All R	Rooms	General Purpose Rooms				
Campus		8am to 5pm	5pm to 10pm	8am to 5pm	5pm to 10pm			
Cascade	MTWR	48%	33%	55%	33%			
	F	22%	24%	20%	24%			
	S	21%	8%	21%	8%			
Rock Creek	MTWR	58%	39%	69%	41%			
	F	21%	20%	19%	22%			
	S	27%	3%	24%	3%			
Southeast	MTWR	51%	42%	59%	44%			
	F	17%	24%	18%	29%			
	S	19%	0%	20%	0%			
Sylvania	MTWR	53%	33%	60%	31%			
	F	18%	30%	14%	40%			
	S	21%	8%	16%	0%			

#### **Overview of Seat Utillization in Classrooms**

		All R	Rooms	General Pu	rpose Rooms
Campus		8am to 5pm	5pm to 10pm	8am to 5pm	5pm to 10pm
Cascade	MTWR	72%	67%	66%	58%
	F	67%	71%	63%	69%
	S	71%	29%	53%	29%
Rock Creek	MTWR	68%	65%	71%	66%
	F	64%	32%	63%	38%
	S	58%	55%	63%	55%
Southeast	MTWR	72%	68%	78%	68%
	F	63%	66%	74%	77%
	S	70%	0%	70%	0%
Sylvania	MTWR	67%	65%	65%	60%
	F	65%	45%	55%	30%
	S	53%	74%	38%	0%

## Capital Projects



Funded through general obligation bonds, these largescale construction projects and building upgrades rely upon a trusted relationship with the wider PCC community. Ideally, funding decisions are data-driven to ensure we're good stewards of public money. Capital projects should also be responsive to students' current academic needs and flexible enough to meet future needs.

## What is working

Through ongoing community support, PCC facilities are in good shape and serve the needs of the college

### Recommendations

- Continue to rely on data for a deliberate and informed approach to Capital Projects planning
- Continue to explore ways that incorporate Critical Race Theory in capital project design and outreach processes

#### Also look at:









### **Establishing Capital Priorities**

One of the objectives of the district-wide Facilities Plan is to establish capital priorities for future bond requests.

**Priorities for the 2017 Bond Measure:** 



Modernize the college's workforce training center in Northeast Portland, and provide updated equipment and technology for programs.



**EXPAND HEALTH PROFESSIONS & STEAM** (science, technology, engineering, arts and math)

Renovate the existing Health Technology building at Sylvania Campus and develop new interactive training spaces for healthcare programs.



**MEET NEEDS FOR** SAFETY, SECURITY, **BUILDING LONGEVITY AND DISABILITY ACCESS** 

> Extend the lifespan of PCC facilities and meet the needs of current and future students.



## Facilities Condition Assessment -



Facilities refer to the underlying infrastructure that keeps PCC running—boilers, plumbing, building exteriors and more. Students have a greater sense of pride in the college when interacting with quality facilities that both look good and feel safe, while staff and faculty can be more creative and experimental in an environment that's responsive to their academic and professional needs.

## What is working

 Staff and faculty are committed to making sure things are running smoothly, often putting in extra hours to get the job done

### Recommendations

- · Create a long-term capital renewal and replacement schedule
- Continue interdisciplinary project coordination

#### Also look at:





Option to repair, renovate or replace does not apply
Minimal significant deficiencies
Some substantial deficiencies
Numerous deficiencies, typically across multiple areas of assessment
Significant deficiencies; This ranking occurs selectively at those facilities with seismic/structural deficiencies. These structural deficiencies indicate a concern with the structural stability during a seismic event, not under normal use.

**Building Assessment Summaries Key** 

Name	Summary	Structure (Seismic)	Fire/Life/Safety	ADA	Facilities	Mechanical	Electrical	Plumbing	Energy Use Index	Sustainability	LT.
Cascade Hall											
Jackson Hall											
Library											
Moriarty Arts & Humanities Bldg											
Paragon Building											
Physical Education Building											
Public Safety Building											
Public Service Education Bldg.											
Student Services Building											
Student Union											
Tech. Educ. Bldg. (Margaret Carter)											
Terrell Hall											

**Building Assessment Summaries Cascade** 





Name	Summary	Structure (Seismic)	Fire/Life/Safety	ADA	Facilities	Mechanical	Electrical	Plumbing	Energy Use Index	Sustainability	LT.
Amo De Bernardis College Center											
Automotive & Metals Building											
Automotive Storage Building											
Bookstore											
College Services Building											
Communications Technology Bldg.											
Health Technology Building											
Heat Plant											
Library											
Performing Arts Center											
Social Science Building											
South Classroom Building											
Technology Classroom Building											

Building Assessment Summaries Sylvania

Name	Summary	Structure (Seismic)	Fire/Life/Safety	ADA	Facilities	Mechanical	Electrical	Plumbing	Energy Use Index	Sustainability	LT.
Administration Hall											
Annex											
Library [Learning Commons]											
Mt. Scott Hall											
Mt. Tabor Hall											
Student Commons											

**Building Assessment Summaries Southeast** 

Name	Summary	Structure (Seismic)	Fire/Life/Safety	ADA	Facilities	Mechanical	Electrical	Plumbing	Energy Use Index	Sustainability	LT.
Building 1											
Building 2											
Building 3											
Building 4											
Building 5											
Building 6 (Hangar)											
Building 7											
Building 9											

Building Assessment Summaries Rock Creek

Name	Summary	Structure (Seismic)	Fire/Life/Safety	ADA	Facilities	Mechanical	Electrical	Plumbing	Energy Use Index	Sustainability	LT.
CLIMB Center											
Downtown Center											
Newberg Center											
Portland Metro Center <sup>1</sup> - Building 1											
Portland Metro Center <sup>2</sup> - Building 2											
Swan Island Trades Center											
Willow Creek Center											
Hillsboro Center <sup>2</sup>	na										
Columbia County Center <sup>3</sup>	na										

<sup>1.</sup> Addressed in 2017 Bond

**Building Assessment Summaries Centers** 

<sup>2.</sup> Leased Space

<sup>3.</sup> TBD

## Americans With Disabilities Act (ADA)



ADA ensures access to the built environment for people with disabilities. Features such as grab bars in bathrooms, electrical outlets within reach and adjustable desks can be critical to student success.

## Sylvania Accessible Travel Network

## What is working

 There is increased awareness across the district about accessibility issues and solutions

### Recommendations

- Establish an Accessible Travel Network
   (ATN) for each campus and center
- Prioritize deficiencies along each ATN, including interior deficiencies where the ATN passes through buildings
- Reduce overall travel distance from accessible points of arrival to users' destination

#### Also look at:





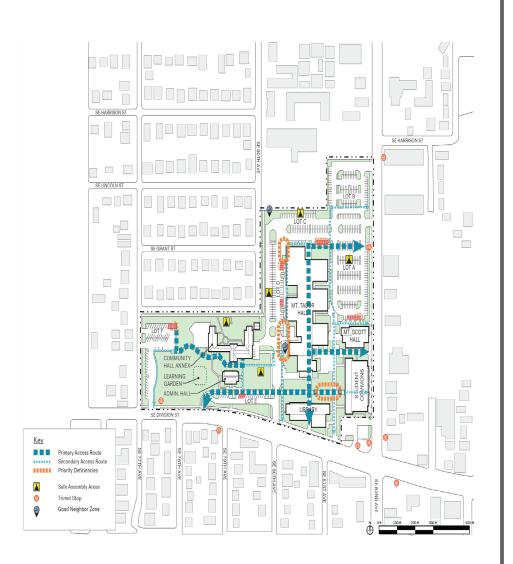




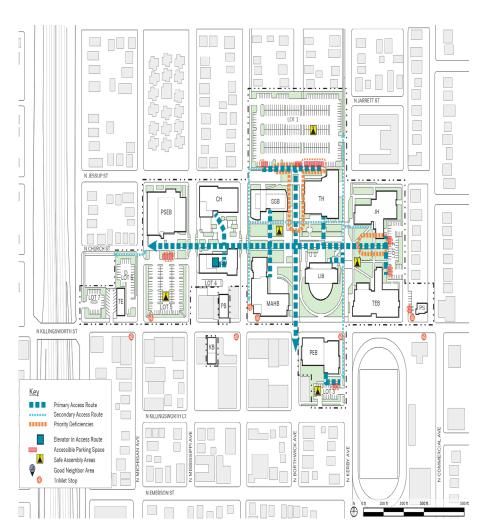
## F

## Americans With Disabilities Act (ADA)

## Southeast Accessible Travel Network



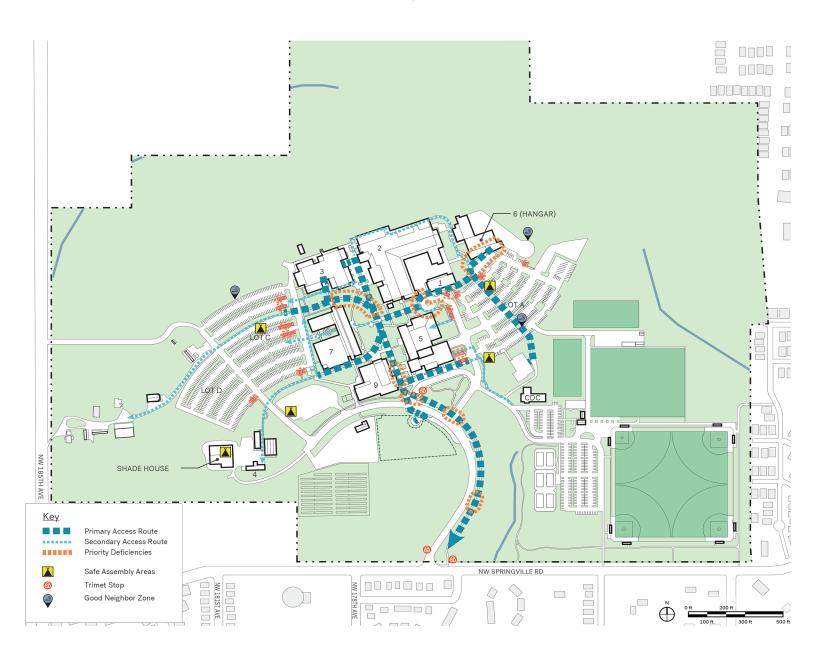
## Cascade Accessible Travel Network



## F

## Americans With Disabilities Act (ADA)

## Rock Creek Accessible Travel Network



## Transportation and Parking-

Transportation and parking is often a student's first introduction to campus. Making it a positive and efficient experience is important so they can focus on learning. With Transportation Demand Management, the college can be more responsive to parking demands when enrollment ebbs and flows.

## What is working

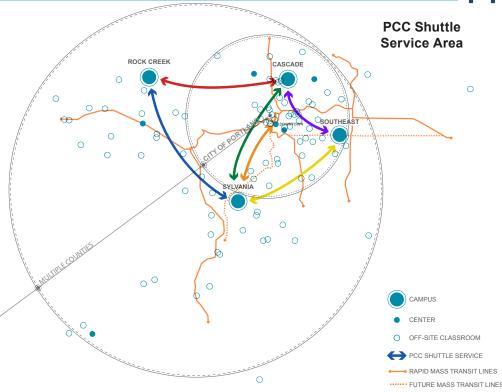
- The latest travel survey of staff and students found that 48% drove alone or motorcycled, while more than 50% used alternative modes of travel
- PCC's shuttle service between campuses is well used and valued by students and staff

## Recommendations

- Continue to make alternative modes more attractive through enhanced incentives and infrastructure
- Design a parking system to meet demand while increasing equitable access for staff and students
- Increase support for more sustainable travel options such as bike rentals and electric vehicle charging stations

#### Also look at:





### 2017 Survey of Students

0

	Sylv	ania	Rock	Creek	Cas	cade	Sout	heast
Commute Method	Weekly Trips Reported in Survey	Percent of Total Weekly Trips						
Drove Alone or Motorcylced	1,138	54.8%	943	57.0%	506	37.3%	479	39.7%
Rode the bus or MAX	469	22.6%	406	24.5%	521	38.5%	421	34.9%
Carpooled	183	8.8%	207	12.5%	99	7.3%	179	14.8%
2-person	155	7.5%	164	9.9%	63	4.6%	127	10.5%
3-person	19	0.9%	42	2.5%	23	1.7%	29	2.4%
4-person	9	0.4%	1	0.1%	2	0.1%	19	1.6%
5-person	0	0.0%	0	0.0%	10	0.7%	0	0.0%
6+ -person	0	0.0%	0	0.0%	1	0.1%	4	0.3%
Walked	55	2.6%	26	1.6%	56	4.1%	30	2.5%
Biked	16	0.8%	6	0.4%	109	8.0%	39	3.2%
Distance Learning*	397	19.1%	395	23.9%	213	15.7%	222	18.4%
PCC Shuttle	215	10.4%	67	4.0%	64	4.7%	58	4.8%
TOTAL	2,076	100%	1,655	100.0%	1,355	100.0%	1,206	100.0%

<sup>\*</sup>Distance Learning not counted in total trips

## Ę

## Information Technology

Students' academic success and confidence is boosted when they can access their information anytime and anywhere using college infrastructure.

## What is working

- Existing infrastructure is generally up-to-date with industry standards
- Information Technology staff have extensive knowledge of the existing network and supporting infrastructure

### Recommendations

- Ensure WiFi is consistently reliable through updated wireless access points, including outdoor WiFi in heavily trafficked areas
- Upgrade core network equipment as needed for continued reliability
- Continue ongoing upgrades to audio visual equipment in classrooms to meet ever-changing approaches to instruction

#### Also look at:



```
Sep 15.53

0. Sep 2015 bin sur/bin

21. Sep 15:50 dev

19. Sep 09:32 etc

21. Sep 15:52 home

130. Sep 2015 lib -> usr/lib

34. 23. Jul 10:01 lost+found

396. 30. Sep 2015 opt

621. Sep 15:52 private -> /home/encrypted

4896 12. Aug 15:37 root

7 30. Sep 2015 sin

4896 30. Sep 2015 sin

4896 30. Sep 2015 sin

4896 30. Sep 2015 sin

300 21. Sep 15:55

300 21. Sep 15:55

300 21. Sep 15:45

4896 12. Aug 15:39 usr

300 21. Sep 15:45

300 21. Sep 15:45

300 21. Sep 15:35 usr

300 21. Sep 15:35 usr
```



## Safety and Security-



A safe, comfortable learning environment allows students to focus on their studies without additional safety concerns.

## What is working

- · Electronic security systems are functioning as designed
- A comprehensive and coordinated approach is taken while determining program needs
- Staffing levels are suitable to support existing electronic security infrastructure

## Recommendations

- Update college security standards to ensure consistent delivery methods across the district
- Assess the physical college environment using the principles associated with Crime Prevention through Environmental Design (CPTED)
- Confirm capital needs once department organization is complete
- Evaluate next generation Mass Notification systems for future installations

#### Also look at:





## Culture of Sustainability-



Sustainability touches everything from food service to gardens to building construction. Campuses are healthier, greener, and cleaner when sustainable practices are implemented. Encouraging a culture of sustainability means creating more learning opportunities both on campus and beyond.

## What is working

- Sustainability is considered in all aspects of PCC, operationally and academically
- PCC is looked to as a leader in campus sustainability, winning the 2019 Second Nature Marks of Distinction, the 2017 Second Nature Climate Leadership Award, and the 2016 Sustainability Award from APPA: Leadership in **Educational Facilities**
- PCC has a strong sense of pride about its award-winning initiatives

### Recommendations

- Develop standard protocols to power off computers
- Reduce chemical use, with a goal of being pesticide and synthetic fertilizer-free by 2020

#### Also look at:







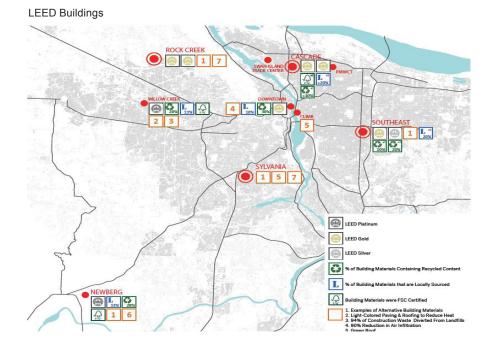




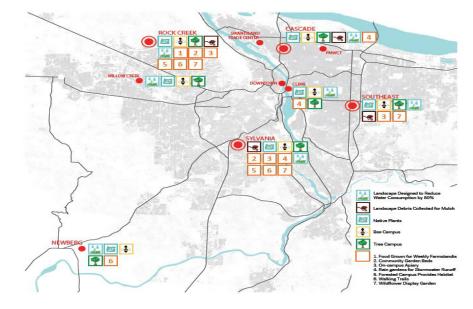








Sustainability Attributes



## Future Forward-

Facilities Planning integrated with the forthcoming Academic and Student Affairs Plan and the college's Strategic Plan supports a quality student environment as well as the college's mission of access and inclusivity.



## Next steps in Facility Planning include:

- Enhance the findings from Phase I with an assessment of ADA Barrier Removal; development of Safety and Security Standards; and continued Space Utilization assessment, particularly in support spaces such as offices, meeting rooms and resource centers.
- Begin Phase II work by conducting visioning exercises for each campus to better understand growth capacity in conjunction with academic programming needs
- Continue a collaborative and coordinated approach to project work as demonstrated throughout facilities planning
- Continue to integrate Critical Race Theory (CRT) in capital project work through broad outreach efforts and explore how CRT informs policy and design decisions at the college

## Technical Reports

Space Utilization     Space Utilization Work Group/Biddison Hier	<b>3g. Cost</b> Facilities Work Group/RLB
2. Capital Projects Capital Projects Work Group/SRG	4. ADA
3. Facilities	4a. General Assessment ADA Work Group/Code Unlimited
3a. Building Overview Facilities Work Group/Catena Engineers	<b>4b. Site Accessibility</b> ADA Work Group/DEA
<b>3b. Facility Condition Assessment</b> ISES	<b>5. Transportation</b> Transportation Work Group/Lancaster Engineers/Kittelson
<b>3c. Architectural Review</b> Facilities Work Group/SRG	6. Information Technology IT Work Group/Vantage Consultants
<b>3d. Mechanical/Electrical/Plumbing</b> Facilities Work Group/PAE Engineers	7. Safety and Security Security Work Group/Layne Consultants
<b>3e. Utilities</b> Facilities Work Group/DEA	8. Sustainability Sustainability Work Group/SRG
<b>3f. Landscape and Open Spaces</b> Facilities & Sustainability Work Group/2.ink Landscape Architects	9. Critical Race Theory Intent & Purposes LLC, Amara H. Pérez

