

WACTC first reading April 30, 2021  
WACTC vote June 4, 2021

For development of the 2023-25 capital request for Washington’s community and technical college system, WACTC recommends:

1. Increase the minor preservation, repair, replacement and program funding targets 10% relative to the 2021-23 request. Here are the 2021-23 and new target amounts:

<u>Category</u>	<u>2021-23 Request</u>	<u>2023-25 Request</u>
Minor Works – Preservation	\$ 26,113,000	\$ 28,724,000
Minor Repairs – Roof, Facility and Site	\$ 47,487,000	\$ 52,236,000
Minor Infrastructure Replacements	\$ 33,981,000	\$ 37,379,000
Minor Works – Program	\$ 32,242,000	\$ 35,466,000

2. Each community and technical college is eligible to submit one new major project proposal.
3. The new major project proposals are due in December 2021.
4. The attached updated criteria are used to score new major project proposals. ***See update criteria with changes highlighted in attachment A.***
5. All new major project proposals scoring at least 70 points will be added to the pipeline. ***See current pipeline of major projects updated with the 2021-23 capital budget compromise in attachment B.***
6. The prioritization and structure of the request will be determined later. The 2021-23 capital budget compromise calls for a report on this to the legislature by December 15, 2021. ***See excerpt in attachment C.***

## Attachment A

### **Revisions to 2021-23 major project selection criteria for 2023-25 budget development:**

Pages 5 and 7 - eliminate matching fund points and criteria

Pages 10, 11 and 12 - increase the base weighting for Student Center spaces and shift 2 unweighted points of the weighting for all spaces that include a description of how the space will improve diversity, equity, or inclusion

Pages 14 and 15 - allow funding for student engagement early in the design such that it does not affect the reasonableness of cost score

All revisions are in red

**March 25, 2021 Draft 2023-25 Project Development Guidelines with Committee Recommendations**  
**Project Request Report**

When developing the Project Request Report (PRR), the following items should be addressed:

**1. Executive Summary**

- 1.1. Problem statement/type of project request
- 1.2. Proposed solution
- 1.3. Programs addressed by project
- 1.4. Probable cost summary and comparison to benchmark (reasonableness of cost)
- 1.5. Project schedule
- 1.6. Funding (state funds, local funds, COPs)

**2. Problem Statement, Opportunity, or Program Requirement**

- 2.1. Short description of the project and its benefits
- 2.2. How this project relates to:
  - 2.2.1. Facilities master plan
  - 2.2.2. Strategic plan
  - 2.2.3. Institutional goals
- 2.3. How this project relates to the SBCTC system direction goals for economic demand, student success, and innovation
- 2.4. Table showing a summary of program and related space
- 2.5. Increased type 1 and type 2 full time equivalent students <sup>1</sup> accommodated by this project
- 2.6. Table of affected existing buildings with their unique facility identifiers, dates built and square footages

**3. Analysis of Alternatives**

- 3.1. Define the capital problem in terms of building age, condition, functionality, health, safety, code issues, etc.
- 3.2. Describe the obvious and critical needs that are driving the project. For example:
  - 3.2.1. New space for enrollment demand
  - 3.2.2. Renovation/replacement
    - 3.2.2.1. Program mix changes
    - 3.2.2.2. Simplifying space relationships
  - 3.2.3. Accreditation needs
- 3.3. Alternatives considered
  - 3.3.1. Programmatic and facility related
  - 3.3.2. Consequences of doing nothing
  - 3.3.3. Cost estimate for preferred alternative

**4. Project Planning of Preferred Alternative**

- 4.1. History of building and original funding source, if applicable
- 4.2. Useful life of proposed facility
- 4.3. Discussion of sustainability – LEED Silver Standard required
- 4.4. How this project will impact deferred maintenance and repair backlog
- 4.5. Acquisition needs
- 4.6. Parking expansion directly related to the project
- 4.7. Permit issues, variances required
- 4.8. Utility and other infrastructure needs
- 4.9. Storm water and other environmental issues

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<sup>1</sup> To account for online students in space planning we have defined two types of FTES:  
Type 1: Day On Campus w/o Online Category 3N – Used for sizing classrooms and labs.  
Type 2: Day On Campus plus online regardless of time of day – Used for everything else.

- 4.10. Roads and traffic signals
- 4.11. Department of Archaeology and Historic Preservation and tribal reviews
- 4.12. Provide fall 2019 utilization of classrooms, laboratories and all instructional areas on campus. See appendix C for guidelines on determining existing utilization.
- 4.13. New programs; changing mix of programs
- 4.14. New space and what happens to vacated space — is it renovated or demolished?
- 4.15. Comparison of existing and new spaces to the capital analysis model in appendix F.
- 4.16. Need and availability of surge space
- 4.17. Flexibility and adaptability of proposed space

## **5. Project Budget Analysis of Preferred Alternative**

- 5.1. Prediction of overall project cost
- 5.2. Comparisons of \$/FTE to similar Washington community and technical college projects
- 5.3. Anticipated annual impact on the college's operating and maintenance budget in both Program 090 FTES and maintenance and operation cost, including but not limited to:
  - 5.3.1. Janitorial costs
  - 5.3.2. Utility costs
  - 5.3.3. Technology — infrastructure and technician support; voice, data and video communication
  - 5.3.4. Capital maintenance, general repair and furniture/equipment replacement
  - 5.3.5. Roads, walks, landscaping and grounds maintenance
  - 5.3.6. Security
  - 5.3.7. Administration

## **6. Required Attachments**

- 6.3. Cost estimate on OFM C100 form in Excel format
- 6.4. Completed project parameters form
- 6.5. Minimum and overarching criteria form with college responses
- 6.6. DAHP and tribal review of proposed project as required under Executive Order 05-05
- 6.7. Completed LEED checklist
- 6.8. Estimating documents supporting special needs, mitigation, or extenuating circumstances associated with the project
- 6.9. Site map showing project location
- 6.10. Preliminary drawings and sketches

## **7. Appendices (required where cited in proposal)**

- 7.3. Any site-specific materials important to the project — structural engineering report, geotechnical report, traffic studies, etc.
- 7.4. Selected material from facility condition survey
- 7.5. Selected material from the master plan and strategic plan that ties directly to the scoring criteria
- 7.6. Other relevant material where referenced in proposal may be included as appendices

## **PRR Format and Expectations**

- Narrative should follow headings from this set of guidelines.
- Length should not exceed 20 pages, single-spaced (excluding project cost, diagrams and sketches, appendices, cover sheet, title page and table of contents); type font should be Times New Roman 12 point and margins should be one inch.
- Colleges should provide hyper-links between claims and data in the proposal.
- Colleges should submit proposals in editable electronic formats (PDF, Excel, Word, etc.) to SBCTC capital budget director for distribution to the evaluation team. The project narrative and cost estimate should not be scanned (raster) documents nor should they have a security feature that makes it difficult to copy information from them.
- SBCTC may forward copies of the project request reports to OFM, WSAC and legislative staff upon completion of the selection process.

## Project Parameters

Type of Space	Square Footage	Percent
Renovation of existing	(S1)	
New space	(S2)	
Exterior circulation of existing. See appendix H.	(S6)	
Demolished area	(S3)	
<b>Total Affected Area</b>	<b>(S4 = S1 + S2)</b>	
Net Area Change = New – Demo – Circulation	S5 = (S2 – S3 – S6)	

Costs	Dollars	Percent
Acquisition		
Consultant services		
Construction contracts (w/o eligible infrastructure)	Ca	
Eligible infrastructure contracts (from C100)	Cb	
Equipment		
Artwork		
Other Costs		
Project management		
<b>Total Project Cost (C1)</b>		

Funding	Dollars	Percent
State appropriation		
Financed — backed by state appropriation		
Local funds — cash (see list of qualifying funds)	Ma	
Financed — backed by Local Funds	Mb	
<b>Total Project Funding</b>	<b>(F1)</b>	
Matching	(Ma + Mb)	(Ma + Mb) / F1
Variance = Cost – Funding	(C1 – F1)	

Project Weighting	Equivalent Area	Percent
Matching	(M4 * S4)	$M4 = 2 * (Ma+Mb)/F1$
Infrastructure	(I4 * S4)	$I4 = \min(Cb/(Ca+Cb), (1-M4))$
Renovation	(R4 * S4)	$R4 = (S1 * (1-M4-I4)) / (S1+S5+\min(S2,S3))$
Replacement	(P4 * S4)	$P4 = (\min(S2,S3) * (1-M4-I4)) / (S1+S5+\min(S2,S3))$
New	(N4 * S4)	$N4 = ((S5)*(1-M4-I4)) / (S1+S5+\min(S2,S3))$
<b>Total</b>	<b>S4</b>	<b>M4+R4+P4+N4</b>

### 2023-25 Category Weighting

The following values represent a system without any differential category weighting.

	Overarching weighting (O2)	1.00
<b>Eliminate Matching Fund points and criteria.</b>	Matching fund weighting (M2)	<del>1.00</del>
	Infrastructure weighting (I2)	1.00
	Renovation weighting (R2)	1.00
	Replacement weighting (P2)	1.00
	New area weighting (N2)	1.00



## 2023-25 Minimum and Overarching Criteria Points

Evaluation Criteria	Scoring Standard	
College response	Affected buildings are at a single site.	<b>Yes / No</b>
College response	Project does not include improvements to temporary or portable facilities.	<b>Yes / No</b>
College response	Project is not a gymnasium or recreational facility.	<b>Yes / No</b>
College response	Project is not an exclusive enterprise function such as a bookstore, dormitory or contract food service.	<b>Yes / No</b>
College response	Project is not dependent on another project in the current request.	<b>Yes / No</b>
College response	Project meets LEED silver standard requirements.	<b>Yes / No</b>
College response	College has a greenhouse gas emission reduction plan.	<b>Yes / No</b>
College response	The facility is state-owned or a condominium interest is held (state capital funds cannot be spent on leased space).	<b>Yes / No</b>
College response	Project will take more than one biennium. And, project costs at least \$5,000,000 and does not exceed 70,000 gsf without WACTC Capital Budget Committee approval.	<b>Yes / No</b>
College response	If project includes renovation or replacement, then affected buildings have been owned by the college for 20 years at the time of the request.	<b>Yes / No</b>
College response	If project includes renovation, then the project extends the useful life of the affected building at least 20 years.	<b>Yes / No</b>
College response	If project includes renovation, then the cost does not exceed 80% of the current replacement cost.	<b>Yes / No</b>
Effective use of existing facilities  See appendix C for guidelines on determining existing utilization.	Fall 2019 space utilization relative to standards and other proposals. Standards are: classroom seats used 22 hours per week. laboratory seats used 16 hours per week.	<b>Up to nine points</b>
Ability to enhance state and institution's achievement of goals	<i>Add up points from each category: (Max 14)</i> Directly tied to facilities master plan Directly tied to objectives in strategic plan Include clear and succinct description of the relationship between the project and its impact on partnerships with K-12, four years, business, etc. This may be supported by letters from partners describing how the project will benefit the partnership. Project includes at least seven of the best practices identified in appendix A to reduce greenhouse gas emissions.	<b>4</b> <b>4</b> <b>4</b>  <b>2</b>
Overarching subtotal (O1)		
Overarching weighting (O2)		
Overarching weighted subtotal (O3 = O1 x O2)		
Overarching portion of project (O4)		
<b>Overarching points (O5 = O3 x O4)</b>		



**2023-25 Matching Fund Points**  
(use when project includes non-state resources)



<b>Evaluation</b>	<b>Scoring Standard</b>	
Project clearly benefits students	<i>Add up points from each category: (max 4)</i> Increases program access Increases efficiency Improves service to students Simplifies space relationships	<b>3</b> <b>3</b> <b>3</b> <b>3</b>
Demonstrated need	Serves a critical need Addresses the college's opportunity gaps See appendix J for guidance. Enhances program delivery Improves space Not addressed	<b>10</b> <b>10</b> <b>10</b> <b>3</b> <b>0</b>
Reasonableness of cost  See appendix B for determining expected costs.	Total project cost is less than or equal to the expected cost per square foot for the facility, as compared to the construction mid-point.  Project cost is 100% and 137% of expected cost.  Project cost is more than 170% of expected cost.	<b>7</b>  <b>3</b> <b>0</b>
Project completion timeline	All matching funds available by the time proposal is submitted. All matching funds will be available before construction is completed. Matching funds will continue to be raised after construction is completed.	<b>10</b> <b>3</b> <b>0</b>
Project schedule	Project and funding milestones are clearly identified. Project schedule w/o a funding schedule. Schedule is uncertain or not evident.	<b>10</b> <b>3</b> <b>0</b>
Project feasibility	Assessment of the likelihood of success and good local participation	<b>Up to 18 points</b>
Matching Fund Subtotal (M1)		
Matching Fund Weighting (M2)		
Matching Fund Weighted Subtotal (M3 = M1 x M2)		
Matching Fund Portion of Project (M4)		
<b>Matching Fund Points (M5 = M3 x M4)</b>		

Qualifying Non-State Resources

- Foundation Resources
- Cash Donations
- Private Grants
- Federal Funds awarded for Capital Construction

Non-Qualifying Resources

- S & A Balances or Fees
- Enterprise Funds
- Parking Fees
- COP Funds

**2023-25 Infrastructure Points**  
(use when project includes qualified site costs)

<b>Evaluation Criteria</b>	<b>Scoring Standard</b>	
<p>Program need</p> <p>Serves new building area in this proposal or existing college facilities. Existing college need is measured as gross square footage of existing buildings served by infrastructure relative to entire college gross square footage.</p>	Infrastructure serves new building area constructed in this proposal or, serves 100% of the existing college.	<b>20</b>
	Serves 80% or more, and less than 100% of the existing college.	<b>15</b>
	Serves between 40% and 80% of college of the existing college.	<b>10</b>
	Serves 40% or less of the existing college.	<b>0</b>
<p>Reasonableness of cost</p> <p>Provide a separate C100 for the Infrastructure work.</p> <p>Provide detailed log from previous year(s) with costs for maintenance and repair if replacing existing infrastructure.</p>	Infrastructure costs less than 5% of the total project or, infrastructure cost divided by previous average annual costs is twenty, or less.	<b>30</b>
	Infrastructure costs 5%, or more, and less than 10% of the total project or, infrastructure cost divided by previous average annual costs is greater than twenty and less than fifty.	<b>15</b>
	Infrastructure costs 10%, or more, and less than 15% of the total project or, infrastructure cost divided by previous average annual costs is fifty, or more, and less than one hundred.	<b>5</b>
	Infrastructure costs 15% or more of the total project or, infrastructure cost divided by previous average annual costs is one hundred, or more.	<b>0</b>
<p>Risk mitigation</p> <p>Age of infrastructure being replaced at the date of the proposal relative to average life of type of infrastructure. See appendix E for average lives.</p>	Infrastructure serves new area building constructed in this proposal or, infrastructure age is at least 200% of the average life.	<b>12</b>
	Infrastructure is 100% to 200% of average life.	<b>6</b>
	Infrastructure is less than 100% of average life.	<b>0</b>
<p>Suitability for long term financing</p> <p>Average life of new or replaced infrastructure. Provide engineer's opinion of average life if not replacing entire infrastructure with new. See appendix E for calculating average lives.</p>	Average life of new infrastructure is more than 30 years.	<b>15</b>
	Average life of new infrastructure is more than 25 years and less than 30 years.	<b>10</b>
	Average life or new infrastructure is 20 through 25 years.	<b>5</b>
	Average life of new infrastructure is less than 20 years.	<b>0</b>
<b>Infrastructure Subtotal (I1)</b>		
<b>Infrastructure Weighting (I2)</b>		
<b>Infrastructure Weighted Subtotal (I3 = I1 x I2)</b>		
<b>Infrastructure Portion of Project (I4)</b>		
<b>Infrastructure Points (I5 = I3 x I4)</b>		


### Qualifying Infrastructure

Electrical, potable water, non-potable water, steam, sewer, natural gas, storm water, fire protection, emergency access roads, and communication work more than five feet outside of a building's foundation, unless it is connecting to a building with no other work in the project in which case the infrastructure may terminate inside the building.


### Non-qualifying Infrastructure

Landscaping that is not disturbed by qualifying infrastructure work, roads (except emergency access), driveways, parking lots and walkways.


**2023-25 Renovation Points**  
(use when project includes renovated space)

<b>Evaluation Criteria</b>	<b>Scoring Standards</b>				
Age of the building or portion of building being renovated	Over 50				<b>16</b>
	41 – 50				<b>13</b>
	36 – 40				<b>11</b>
	31 – 35				<b>8</b>
	26 – 30				<b>5</b>
	20 – 25				<b>2</b>
	< Less than 20 years				<b>0</b>
Condition of the building or portion of building being renovated	Greater than 600				<b>2</b>
	526 - 600				<b>11</b>
	476 - 525				<b>16</b>
	451 - 475				<b>11</b>
	351 - 450				<b>2</b>
	276 - 350				<b>0</b>
	0 - 275				<b>-5</b>
Reasonableness of cost of the renovated portion of the building  See appendix B for determining expected costs.	Total project cost is less than or equal to the expected cost per square foot for the facility type, escalated to the construction mid-point.				<b>10</b>
	Project cost is between 100% and 111% of expected cost.				<b>8</b>
	Project cost is between 111% and 137% of expected cost.				<b>2</b>
	Project cost is more than 137% of expected cost.				<b>0</b>
Program related improvements in the renovated portion of the project. See appendix K for guidance on FOiwILS. <b>DEI enhancement points are added if the proposal describes how the space will improve student diversity, equity or inclusion.</b>	<i>(Assignable Square Feet)</i>	<i>% of total x</i>	<i>(base points +</i>	<i>DEI points)</i>	<i>= Total</i>
	Classroom, labs		<b>11</b>	<b>2</b>	
	Student Services		<b>11</b>	<b>2</b>	
	Library		<b>11</b>	<b>2</b>	
	Childcare, FOiwILS & Student Center		<b>9</b>	<b>2</b>	
	Faculty offices		<b>6</b>	<b>2</b>	
	Administrative		<b>5</b>	<b>2</b>	
	Maintenance, Central Stores <del>/Student Center</del>		<b>2</b>	<b>0</b>	
Significant health, safety and code issues addressed in the renovation	<i>Add up points from each category (Max 8)</i>				
	Seismic issues (documentation by a Structural Engineer is required)				<b>3</b>
	Life safety				<b>3</b>
	Energy code issues				<b>2</b>
Extension to renovated portion of building's life	31 + years				<b>8</b>
	26 – 30 years				<b>5</b>
	20 – 25 years				<b>2</b>
Fitness for Use of the renovated portion of the project	To what extent does the proposed renovation address the existing deficiencies and project objectives?				<b>2</b>
Closing opportunity gaps See appendix J for guidance.	To what extent does the proposed renovation address the college's opportunity gaps?				<b>5</b>
Renovation Subtotal (R1)					
Renovation Weighting (R2)					
Renovation Weighted Subtotal (R3 = R1 x R2)					
Renovation Portion of Project (R4)					
<b>Renovation Points (R5 = R3 x R4)</b>					

**2023-25 Replacement Points**  
(use when project includes demolition)

<b>Evaluation Criteria</b>	<b>Scoring Standard</b>				
Age of the building or portion of building being replaced	Over 50				<b>14</b>
	41 – 50				<b>12</b>
	36 – 40				<b>9</b>
	31 – 35				<b>7</b>
	26 – 30				<b>5</b>
	20 – 25				<b>2</b>
	< Less than 20 years				<b>0</b>
Condition of building or portion of building being replaced	681 – 730				<b>14</b>
	601 – 680				<b>12</b>
	526 – 600				<b>9</b>
	476 – 525				<b>7</b>
	451 – 475				<b>5</b>
	351 – 450				<b>2</b>
	276 – 350				<b>0</b>
0 – 275				<b>-5</b>	
Reasonableness of cost of the replacement portion of the project  See appendix B for determining expected costs.	Total project cost is less than or equal to the expected cost per square foot for the facility type, escalated to the construction mid-point.				<b>16</b>
	Project cost is between 100% and 111% of expected cost.				<b>12</b>
	Project cost is between 111% and 137% of expected cost.				<b>5</b>
	Project cost is more than 137% of expected cost.				<b>0</b>
Program related improvements in the replacement portion of the project. See appendix K for guidance on FOiwILS. <b>DEI enhancement points are added if the proposal describes how the space will improve student diversity, equity or inclusion.</b>	<i>(Assignable Square Feet)</i>	<i>% of total x</i>	<i>(base points +</i>	<i>DEI points)</i>	<i>= Total</i>
	Classroom, labs		<b>10</b>	<b>2</b>	
	Student Services		<b>10</b>	<b>2</b>	
	Library		<b>10</b>	<b>2</b>	
	Childcare, FOiwILS & Student Center		<b>9</b>	<b>2</b>	
	Faculty offices		<b>7</b>	<b>2</b>	
	Administrative		<b>5</b>	<b>2</b>	
Maintenance, Central Stores		<b>2</b>	<b>0</b>		
<del>Student Center</del>					
Significant health, safety and code issues addressed by the replacement portion of the project	<i>Add up points from each category (Max14)</i>				
	Seismic issues (documentation required)				<b>6</b>
	Life safety				<b>5</b>
	Energy code issues				<b>3</b>
Fitness for Use of the replacement portion of the project	To what extent does the proposed replacement address the existing deficiencies and project objectives?				<b>2</b>
Closing opportunity gaps See appendix J for guidance.	To what extent does the proposed replacement address the college's opportunity gaps?				<b>5</b>
Replacement Subtotal (P1)					
Replacement Weighting (P2)					
Replacement Weighted Subtotal (P3 = P1 x P2)					
Replacement Portion of Project (P4)					
<b>Replacement Points (P5 = P3 x P4)</b>					

**2023-25 New Area Points**  
(use when project has a net increase in area)

<b>Evaluation Criteria</b>	<b>Scoring Standard</b>				
Efficient use of space – future utilization  See appendix D for guidelines on determining future utilization and appendix G for guidelines on enrollment projections	If either Lab utilization will be more than 17 or Class utilization will be more than 23.		<b>18</b>		
	If Lab utilization will be at least 15 but less than 17 and Class utilization was at least 21 but less than 23		<b>24</b>		
	If Lab utilization was at least 12 but less than 15 and Class utilization was at least 19 but less than 21		<b>12</b>		
	If either Lab utilization will be less than 12 or Class utilization will be less than 19.		<b>0</b>		
Program related improvements in the replacement portion of the project. See appendix K for guidance on FOiwILS. <b>DEI enhancement points are added if the proposal describes how the space will improve student diversity, equity or inclusion.</b>	<i>(Assignable Square Feet)</i>	<i>% of total x</i>	<i>(base points +</i>	<i>DEI points)</i>	<i>= Total</i>
	Classroom, labs		<b>10</b>	<b>2</b>	
	Student Services		<b>10</b>	<b>2</b>	
	Library		<b>10</b>	<b>2</b>	
	Childcare, FOiwILS & Student Center		<b>7</b>	<b>2</b>	
	Faculty offices		<b>5</b>	<b>2</b>	
	Administrative Maintenance, Central Stores <del>Student Center</del>		<b>3</b> <b>2</b> <b>0</b>	<b>2</b> <b>2</b> <b>0</b>	
Comprehensive project planning for new area	<i>Add up points from each category: (Max 24)</i>				
	Space improves program delivery and student support		<b>5</b>		
	To what extent does the proposed new area address the college's opportunity gaps? See appendix J for guidance.		<b>5</b>		
	Programs and student support space are identified by usage and square footage		<b>5</b>		
	Location of project is identified by site		<b>2</b>		
	Special initiatives beyond participation rates		<b>2</b>		
	Reasonable cost estimate and building efficiency		<b>3</b>		
	Expected building life — 50 years or greater		<b>2</b>		
Reasonableness of cost of the new area — efficient utilization of funds for building being proposed  See appendix B for determining expected costs.	<i>Add up points from each category: (Max 17)</i>				
	Total project cost is less than or equal to the expected cost per square foot for the facility type, escalated to the construction mid-point.		<b>17</b>		
	Project cost is between 100% and 111% of expected cost.		<b>12</b>		
	Project cost is between 111% and 137% of expected cost.		<b>5</b>		
	Project cost is more than 137% of expected cost.		<b>0</b>		
		New Area Subtotal (N1)			
		New Area Weighting (N2)			
		New Area Weighted Subtotal (N3 = N1 x N2)			
		New Area Portion of Project (N4)			
		<b>New Area Points (N5 = N3 x N4)</b>			

## Appendix A – Best Practices to Reduce Greenhouse Gas Emissions

System / Best Practices	Included in Project?
<b>Mechanical</b>	
Solar water heating	
Above code HVAC system efficiency	
Use natural gas instead of electricity for heating	
Geothermal heat pump	
Post occupancy commissioning	
Interconnectivity of room scheduling in 25Live and HVAC controls	
<b>Electrical</b>	
Photovoltaic energy systems	
Time of day and occupancy programming of lighting	
Efficient lighting	
<b>Envelope</b>	
Minimize building surface area for necessary floor area	
Roofing materials with high solar reflectance and reliability	
Green roofs to absorb heat and act as insulators for ceilings	
<b>Site</b>	
Orient building for natural light and reduced heating and cooling loads	
Trees and vegetation planted to directly shade building	
Paving materials with high solar reflectance, enhanced water evaporation, or otherwise designed to remain cooler or require less lighting than conventional pavements	
Increase transportation choices — drive, walk, bike or public transit	
<b>Total number of these best practices included in project:</b>	

## Appendix B – Expected Cost Ranges

Based on the 2019 OFM Higher Education Facility Study  
**EXPECTED PROJECT COSTS IN 2019 DOLLARS**

The following data was derived from the community and technical college data provided for the study. The 36 projects were completed since 2008. The construction costs (MACC) were escalated to July 1, 2019 using the using Global Insight Global Insight State and Local Government Construction Spending index dated May 2019.

Facility Type (use code)	Construction Costs / GSF	Project / MACC	Total Project Costs / GSF
	Best Fit		Expected Cost
Classrooms (100s)	\$345	1.4073	\$485
Science labs (200s except 250)	\$369	1.4073	\$519
Administration (300s)	\$342	1.4073	\$481
Library (400s)	\$332	1.4073	\$467
Day care (640)	\$278	1.4073	\$391
Assembly (600s except 640)	\$440	1.4073	\$620
Support (700s)	\$348	1.4073	\$490

### ADJUSTING EXPECTED COSTS TO CONSTRUCTION MID-POINT

The following data is based on the May 2019 Global Insight forecast for state and local government spending and is to be used for adjusting the expected costs from July 1, 2019, to the mid-construction date for comparison to project estimates.

Mid-construction Date	Expected Cost Multiplier	Mid-construction Date	Expected Cost Multiplier
7/1/2019	1.000	8/15/2022	1.073
8/15/2019	1.006	11/15/2022	1.080
11/15/2019	1.012	2/15/2023	1.087
2/15/2020	1.017	5/16/2023	1.094
5/16/2020	1.022	8/15/2023	1.101
8/15/2020	1.026	11/15/2023	1.108
11/15/2020	1.031	2/15/2024	1.119
2/14/2021	1.036	5/16/2024	1.126
5/16/2021	1.042	8/15/2024	1.134
8/15/2021	1.048	11/15/2024	1.141
11/15/2021	1.054	2/14/2025	1.148
2/14/2022	1.060	5/16/2025	1.155
5/16/2022	1.067	8/15/2025	1.162

College may include budget line items for student engagement and coordination in the predesign portion of the project budget. The target cost used for the reasonableness of cost criteria is increased by same amount. The recommended amounts for 2023-25 proposals in 2021\$ are \$22,500 for students and \$22,500 for coordination.





SAMPLE PROJECT FOR DEMONSTRATION OF EXPECTED COST RANGES

Construction Mid-point: 7/31/2024  
 Expected Cost Multiplier: 1.126 from Appendix B  
 Project GSF: 65,000 S4 from Project Parameters  
 Student Engagement Budget: \$45,000

Facility Type	Expected Cost / GSF in 2019\$	Expected Cost / GSF	GSF by Type	Expected Cost	Point Thresholds
Classrooms (100s)	\$485	\$547	39,000	\$ 21,322,141	
Science labs (200s except 250)	\$519	\$584	-	\$ -	
Administration (300s)	Multiplier and resultant costs to be updated with May 2021 Global Insight forecast.			\$ 7,05,089	
Library (400s)				\$ -	
Day care (640)	\$490	\$552	13,000	\$ 5,726,008	
Assembly (600s except 640)	\$620	\$698	-	\$ -	
Support (700s)	\$490	\$552	-	\$ -	
			<b>\$45,000</b>	<b>\$ 49,213</b>	
			<b>65,000</b>	<b>\$ 34,147,451</b>	<b>100%</b>
				<b>\$ 37,898,257</b>	<b>111%</b>
				<b>\$ 46,763,799</b>	<b>137%</b>



The Project Cost (C1) less the Infrastructure and Student Engagement Budgets are compared to the Expected Cost for determination of Reasonableness of Cost points. When submitting a proposal with Infrastructure, please provide a separate C100 for the Infrastructure work so the costs can be easily identified.

Expected Cost / GSF = Expected Cost / GSF in 2019\$ \* Expected Cost Multiplier  
 GSF by Type = ASF by Type / Sum(All ASF) \* GSF

## Appendix C – Existing Utilization

Utilization is used to compare the level of use of instructional facilities at different locations. The methodology is based on the 1994 Higher Education Coordinating Board standards for classroom and laboratory facility utilization available here- <http://www.wsac.wa.gov/sites/default/files/FacilitiesEvaluationandPlanningGuide.pdf>.

The contact hours are totaled for classrooms, laboratories and other facilities used for instruction in the first week of the preceding fall quarter and compared to the capacity of these spaces. The weekly utilization rate is equal to the contact hours divided by room capacity during a forty-five hour week. The college can identify which forty-five hours represent the peak use of their facilities for the calculation. The capacity is generally the number of student seats designed to be available in the space. If another standard is used it should be described in the analysis.

- For example, if there is a room used for classroom instruction with one instructor, the maximum student-to-faculty ratio is twenty-five by contract, or policy, and the room has twenty-eight student seats, then the capacity of the room is limited by the contract, or policy, to twenty-five students.

The capacity of non-traditional classrooms will be the maximum number of students that can be accommodated by the space at a given time. The capacity of these spaces may also be limited by contract, or policy. Here are some examples:

- If there is a space used for hands-on automotive repair instruction, two students can work on an automobile at a time, and the space can hold ten automobiles, then the capacity of this space would be twenty students.
- If there is a space used for instruction of computer controlled machining that is used by a single student cohort that includes sixteen student computer workstations and six computer controlled machines for which two students can work on at a time, then the capacity of this space is limited by the number of machines to twelve students.

The analysis will include a note about why any physical workstations were not included in the analysis and how the college plans to use the space more efficiently in the future.

Colleges can either calculate their facility utilization using the room scheduling software in ctcLink, called 25Live, or with a spreadsheet provided by the State Board. Currently, the standard utilization reports in 25Live do not offer as much flexibility as allowed by this methodology.

This methodology was developed specifically for scoring of new major project proposals and may not be appropriate for other utilization reporting needs.

## Definitions:

Workstation *utilization* in hours per week equals the number of *contact hours* divided by the *room capacity*.

*Utilization* is reported for every individual classroom and lab space on a campus. Utilization is also reported in aggregate by room use code by campus.

*Contact hours* are the sum of the classroom contact hours of state and running start enrollments ~~for credit courses~~ during *the 45 data capture hours* of any consecutive five instructional days starting with the enrollment census date of the preceding fall or winter quarter. These are the hours students are expected to attend instructor led classes and labs as indicated on the class schedule.

*The 45 data capture hours* are defined by the college to report their peak facility usage. Colleges may elect to use any combination of 45 data capture hours during the five days.

If a class starts before, or ends after a capture hour, then the start and end times for the class are limited to the time included in the capture hours. For example, if the college chooses to use 8:00 AM to 8:30 AM Monday through Friday as part of their 45 data capture hours and a class with 10 students meets five times a week for 60 minutes starting at 7:30 AM, this class would contribute 25 student contact hours toward the calculation of utilization (10 student x 30 contact minutes ÷ 60 minutes/hour x 5 meetings).

If a college elects to use blocks of contiguous hours each day for data capture, then they may include a 10 minute pad between classes to account for the time it takes to empty and fill a room. For example, if the college chooses to use 8:00AM to 5:00 PM Monday through Friday as their 45 data capture hours and a class with 10 students meets five times a week for 60 minutes starting at 7:30 AM, this class would contribute 33.33 student contact hours toward the calculation of utilization (10 student x 40 contact minutes ÷ 60 minutes/hour x 5 meetings).

*Room capacity* is the capacity of the space for instruction as reported by the college. The room capacity should be based on the physical limitations of the facility and the method of instruction.

## References:

Per [FAE Facility Coding Manual](#), classrooms have 110, 120, and 130. Scheduled labs have 210 and 260 room use codes.

State enrollments are defined in State Board policy 5.30.10

A contact hour is defined in State Board policy 5.40.10.

Enrollment census dates are defined in State Board policy 5.50.

A spreadsheet that calculates utilization consistent with the adopted methodology, and a spreadsheet with sample data are available here — <http://www.sbctc.edu/colleges-staff/programs-services/capital-budget/capital-budget-development.aspx>

## Appendix D — Future Utilization

The utilization of campus classrooms and laboratories in the future is the projected number of contact hours divided by the future number of workstations. This can be estimated by adding the number of workstations in the proposed project to the existing number of workstations and the net new Type 1 enrollment to the existing Type 1 enrollment.

Start with the existing utilization, as determined in appendix C, the number of Type 1 FTE in the corresponding fall quarter, and the projected Type 1 FTE as determined in appendix G.

For example, given the following:

Existing Weekly Utilization Summary Table	Contact Hours	Workstations	Utilization
<b>Classes</b>	20,344.70	787	25.87
<b>Labs</b>	8,485.20	415	20.47
<b>Campus</b>	28,829.90	1,201.00	24.00

Class Workstations in Project = 350

Lab Workstations in Project = 600

Net New Type 1 FTE = 500

We can convert the Net New FTE into class and lab FTE by recognizing each lab workstation produces one-half the credits per hour as a class workstation does;

$$\begin{aligned} \text{Projected Net New Class FTE} &= (\text{Net New Type 1 FTE}) \times \text{Class Workstations in Project} / \\ &\quad (\text{Class Workstations in Project} + (\text{Lab Workstations in Project} / 2)) \\ &= 500 \times 350 / [350 + (600 / 2)] = 269.23 \end{aligned}$$

$$\begin{aligned} \text{Projected Net New Lab FTE} &= (\text{Net New Type 1 FTE}) \times (\text{Lab Workstations in Project} / 2) / \\ &\quad (\text{Class Workstations in Project} + (\text{Lab Workstations in Project} / 2)) \\ &= 500 \times 600 / 2 / [350 + (600 / 2)] = 230.77 \end{aligned}$$

Next converting the FTE to contact hours;

$$\begin{aligned} \text{Projected Net New Class Contact Hours} &= \text{Projected Net New Class FTE} \times \\ &\quad 15 \text{ Classroom Contact Hours per FTE} \\ &= 269.23 \times 15 = 4,038.46 \end{aligned}$$

$$\begin{aligned} \text{Projected Net New Lab Contact Hours} &= \text{Projected Net New Lab FTE} \times \\ &\quad 30 \text{ Lab Contact Hours per FTE} \\ &= 230.77 \times 30 = 6,923.08 \end{aligned}$$

We get the new numerator for utilization by adding the net new contact hours to the existing contact hours;

$$\begin{aligned} \text{Projected Class Contact Hours} &= \text{Existing Class Contact Hours} + \\ &\quad \text{Projected Net New Class Contact Hours} \\ &= 20,344.70 + 4,038.46 = 24,383.16 \end{aligned}$$

$$\begin{aligned} \text{Projected Lab Contact Hours} &= \text{Existing Lab Contact Hours} + \\ &\quad \text{Projected Net New Lab Contact Hours} \\ &= 8,485.20 + 6,923.08 = 15,408.28 \end{aligned}$$

We get the new denominator for utilization by adding the number of net new workstations to the existing number of workstations;

$$\begin{aligned} \text{Future Class Workstations} &= \text{Existing Class Workstations} + \text{Net New Class Workstations} \\ &= 787 + 350 = 1,137 \end{aligned}$$

$$\begin{aligned} \text{Future Lab Workstations} &= \text{Existing Lab Workstations} + \text{Net New Lab Workstations} \\ &= 415 + 600 = 1,015 \end{aligned}$$

The future utilization can now be estimated as;

$$\begin{aligned} \text{Future Class Utilization} &= \text{Projected Class Contact Hours} / \text{Future Class Workstations} \\ &= 24,383.16 / 1,137 = 21.45 \end{aligned}$$

$$\begin{aligned} \text{Future Lab Utilization} &= \text{Projected Lab Contact Hours} / \text{Future Lab Workstations} \\ &= 15,408.28 / 1,015 = 15.19 \end{aligned}$$

Future Weekly Utilization Summary Table

	<b>Contact Hours</b>	<b>Workstations</b>	<b>Utilization</b>
<b>Classes</b>	24,383.16	1,137	21.45
<b>Labs</b>	15,408.28	1,015	15.19
<b>Campus</b>	39,791.44	2,151.00	18.50

A spreadsheet that calculates utilization consistent with this methodology, and a spreadsheet with sample data, are both available here — <http://www.sbctc.edu/colleges-staff/programs-services/capital-budget/capital-budget-development.aspx>

## Appendix E – Average Useful Life of Infrastructure

The following average useful lives are used in accounting for depreciating assets. Since this is an average, about half of the infrastructure is expected to last longer. Projects involving infrastructure with different average lives shall use a cost weighted average life for scoring relative to the criteria. If replacing existing infrastructure, the proposal will have both the cost weighted average useful life of the existing and proposed infrastructures.

Infrastructure	Average Useful Life <sup>1</sup>	Estimated Cost	Cost Weighted Life
Electrical Service/Distribution — underground	20		
Electrical Utility Pole	20		
Electrical Transformer — pad mounted	5		
Electrical Transformer — in vault	5		
Electrical Generator — free standing	5		
Potable Water — piping	25		
Potable Water — meters	25		
Sewer lines — concrete	50		
Sewer lines — brick	90		
Sewer lines — metal	40		
Storm drains — plastic	25		
Storm drains — cast iron	30		
Storm drains — metal corrugated	30		
Storm drains — concrete	40		
Storm drains — ditch/trench	100		
Telecommunication — fiber optic conductors	5		
Telecommunication networks between buildings <sup>2</sup>	7.5		
Inter building communication infrastructure <sup>3</sup>	25		
Other <sup>4</sup>			
Subtotals		A = sum of Estimated Costs	B = sum of Cost Weighted Lives
<b>Cost Weighted Average Useful Life</b>			<b>B / A</b>

Notes:

<sup>1</sup> Average Useful Life in years is from Section 30.50.10 of the State Administrative and Accounting Manual Issued by Office of Financial Management unless otherwise noted.

<sup>2</sup> California State University Capital Asset Guide, April 2012.

<sup>3</sup> University of New Mexico Design Guidelines for Information Technology Infrastructure Facilities.

<sup>4</sup> Provide copy or link to other data used in analysis.

## Appendix F – Capital Asset Model

The following Capital Asset Model was adopted February 7, 2013.

<b>Assignable Square Feet per FTE Student</b>							
<b>Type of Space</b>	<b>FTE Type</b>	<b>Academic FTE</b>		<b>Vocational FTE</b>		<b>Basic Skills FTE</b>	
		First 1,000	Additional	First 1,000	Additional	First 1,000	Additional
General Classroom	1	12.4	12.4	7.5	7.5	N/A	N/A
Basic Skills	2	N/A	N/A	N/A	N/A	27.6	27.6
Science Lab	1	6.0	6.0	3.5	3.5	N/A	N/A
Computer Lab (open)	2	3.2	3.2	3.2	3.2	3.2	3.2
Music	2	A one-time allowance of 4,000 asf @ CCs only					
Art	2	A one-time allowance of 6,000 asf @ CCs only					
Drama	2	A one-time allowance of 5,000 asf @ CCs only					
Physical Education **	2	26.0	10.0	N/A	N/A	N/A	N/A
Library	2	16.8	8.5	16.8	8.5	16.8	8.5
Faculty Office	2	8.1	8.1	10.8	10.8	8.1	8.1
Admin/Student Services	2	8.98	5.13	8.98	5.13	8.98	5.13
Student Center & Related	2	13.19	7.97	13.19	7.97	13.19	7.97
Childcare	2	3.4	3.4	3.4	3.4	3.4	3.4
Central Stores/Maintenance	2	7.0	4.0	4.0	4.0	7.0	4.0
Auditorium	2	A one-time, total space of 9,000 asf @ CCs and TCs					
FTE Type 1: Day On Campus w/o Online (Category 3N)							
FTE Type 2: Day On Campus plus Online of same intent regardless of time of day							
* Vocational space will be included in the CAM based on a formal analysis of space needs by program and projected enrollment growth.							
** Calculation based on first 500 FTE.							

## Appendix G – Enrollment Forecasting

The State Board staff will provide a ten-year enrollment forecast for each college based on the previous fall quarter enrollment adjusted for expected population changes over the next ten years. There will be a total enrollment projection, a projection for sizing classrooms and labs called “Type 1” FTE, and another for sizing other facilities on a campus called “Type 2” FTE that includes online enrollment.

The State Board projections include enrollment for academic transfer, workforce and basic skills courses. The projections exclude enrollment for continuing education courses and courses taught in prisons.

The Type 1 and Type 2 projections for sizing facilities are based on the peak need for space on the campus so they exclude evening and weekend enrollments.

High school students taking for-credit classes on the campus during the day through the running start program are included in the State Board enrollment projections.

In general, the State Board’s population-based enrollment projections have been fairly accurate, but individual college projections can be off by large enough amounts to have an impact on capital project scoring.

The projections are for a ten year period to account for the time it can take for a capital project to be funded, designed and constructed.

If a college would like to provide an alternative ten-year projection for their Type 1 or 2 FTE, then it should be submitted to the State Board’s capital budget director before September so it can be reviewed by State Board staff and a task force from the Research and Planning Council (RPC) by the end of October.

The RPC task force will provide qualitative feedback on the proposed projection relative to the following goals:

- Consistency with definition of Type 1 or Type 2 FTE
- Use of strong and non-derivative data sources
- Having a minimum of 10 years of source data
- Use of valid statistical approach for building the forecast
- Inclusion of “what if” scenarios that explain what may affect the projection

Additional guidance on developing enrollment projections will be provided at the capital budget development workshops.

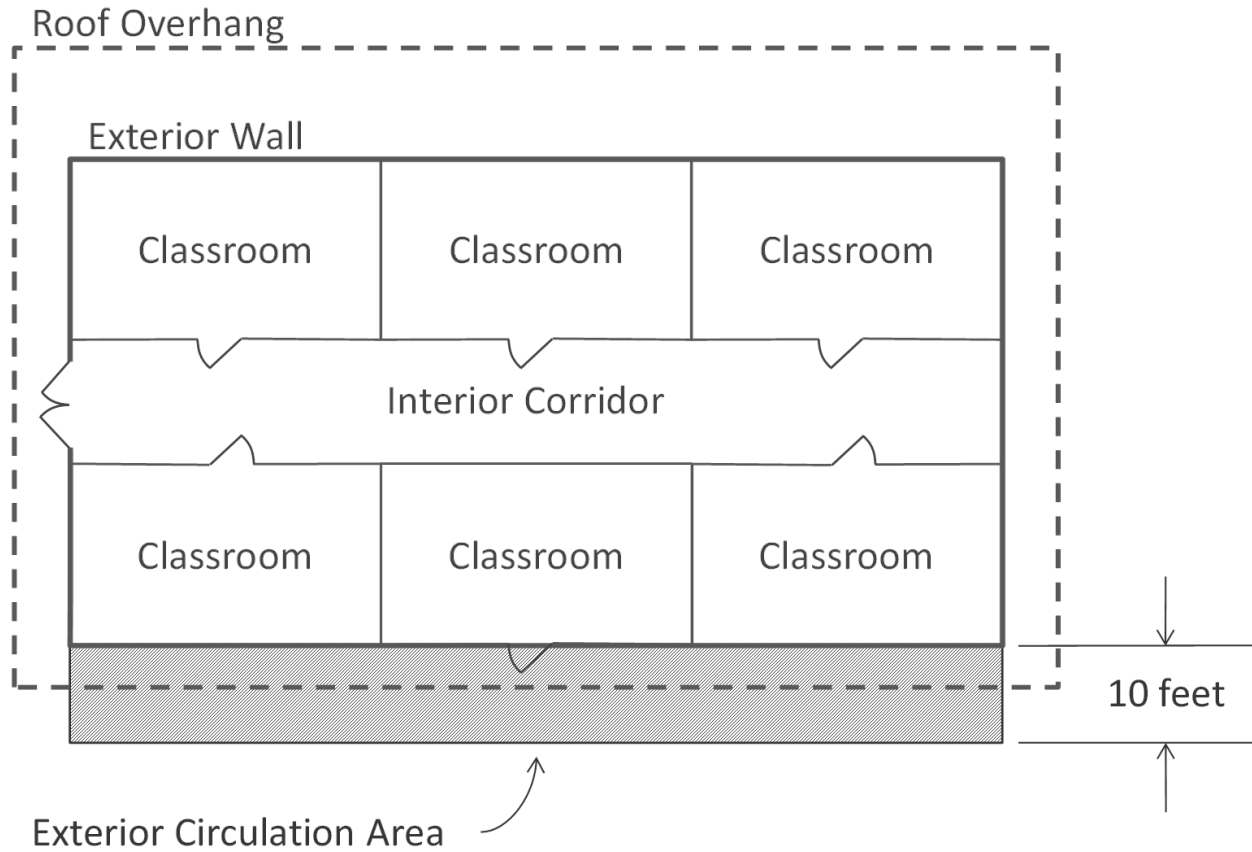
Time permitting; the RPC task force will review multiple iterations of a college’s projection.

If the college chooses to include the alternative enrollment projection in the PRR, the RPC feedback will be provided to scorers of the major project proposals for their consideration.



## Appendix H — Exterior Circulation Space

The area of a replacement project can be bigger than the building area being replaced by an amount equal to the exterior circulation area of the building being replaced. The exterior circulation area is the length of each exterior wall that has at least one classroom door that is the only student-access to the classroom, times ten-feet. See illustration below.



## Appendix I – Allowable Scope Changes after Scoring

Generally, colleges should make every effort to complete the project as proposed.

A college can make changes, for reasons internal to the operation of the college, which are not likely to have changed the project's score by following these steps:

1. Describe the proposed change to the State Board's capital budget director.
2. The State Board's capital budget director will assess the potential impact of the proposed change on the objective and subjective criteria used to score the original proposal.
3. If the change would only impact objective components of the criteria; like facility condition scores, square footage, building age, cost, or utilization; and, if the proposed change is not likely to have reduced the total score of the objective criteria, the proposed change will be allowed. The capital budget director will then report the approved change to WACTC's capital committee at their next regularly scheduled meeting.
4. If the change could impact the more subjective criteria, the State Board's capital budget director will work with the college to provide information to WACTC's capital committee for evaluation of the potential impact on the original proposal's score. If the WACTC capital committee decides the change is not likely to have reduced the score, the proposed change will be allowed.

A college has even more flexibility when the project needs to be changed in response to an external cause.

External causes include, but are not limited to, construction funding below the requested level, delays in state funding, unforeseeable mitigation requirements from permitting authorities, unforeseeable code changes, and unforeseen archaeological impacts. A college can propose a change due to an external cause by following these steps:

1. Describe the external cause and proposed change to the State Board's capital budget director. This may require some documentation to substantiate the cause.
2. The State Board's capital budget director will work with the college to preserve the scope and cost of the originally proposed project while mitigating the external cause of the change.
3. The capital budget director will then report the approved change to WACTC's capital committee at their next regularly scheduled meeting.

Neither the capital budget director nor WACTC's capital committee can create an obligation for additional state funding for the project. Based on the nature and timing of the change, it may need approval from the Office of Financial Management or the Legislature.

## Appendix J – Identification of Opportunity Gaps and Solutions in the Built Environment

The built environment can improve educational outcomes by addressing opportunity gaps at the community and technical colleges. Each college may have different gaps in educational outcomes that are best addressed by different aspects of the built environment.

Since gaps and solutions vary from college to college, this criteria has colleges identify their own gaps in educational outcomes and then include project elements that are likely to help close them.

The identification and proposed solutions should be consistent with the following:

- Outcomes are compared for a broad cohort of students with similar educational background and end goals (e.g., all award seeking students with fewer than 10 prior college credits).
- Outcomes are compared for a cohort of students with the same starting point and time frame to meet outcomes (e.g., students starting in Fall 2014 and finishing their program within three years).
- Outcomes represent key end goals (i.e., program completion, employment outcomes, and transfer outcomes) or key progress milestones to reach those end goals (e.g., credit completion milestones, math and English completion, or retention).

The points will be awarded using the following methodology that relies on three factors to award the points based on how likely the proposed solution is to have significant improvement in the college's gaps in educational outcomes.

The three factors and their values are:

- A. Size of the number of students in the gap relative to the student body as a whole. This factor would be —
  - a. 0 if the sum of the number of students in the gaps is two percent or less of the student body,
  - b. 0.500 if the number of students in the gaps is more than two percent and less than 10 percent of the student body, and
  - c. 1.000 if the number of students in the gaps is 10 percent or more of the student body.
- B. Size of the outcome gaps for those in the groups relative to the rest of the student body in percentage points. This is the outcome ratio of all students minus the ratio of the students in the gap. The numerator and denominator would depend on the gap. This factor would be —
  - a. 0 if the sum of the sizes of the gaps is two percentage points or less,
  - b. 0.500 if the gaps are more than two percentage points and less than 10 percentage points, and
  - c. 1.000 if the gaps are 10 percentage points or more.
- C. The likelihood of improvement due to the proposed solutions.
  - a.  $C = 1.000$  if there is evidence that the proposed solutions have had a significant impact on similar opportunity gaps at the college or at another college.
  - b.  $C = 0.666$  if there is indirect evidence that the proposed solutions are likely to have a significant impact on the identified opportunity gaps. Indirect evidence could include a student survey endorsing the proposed solutions, evidence that

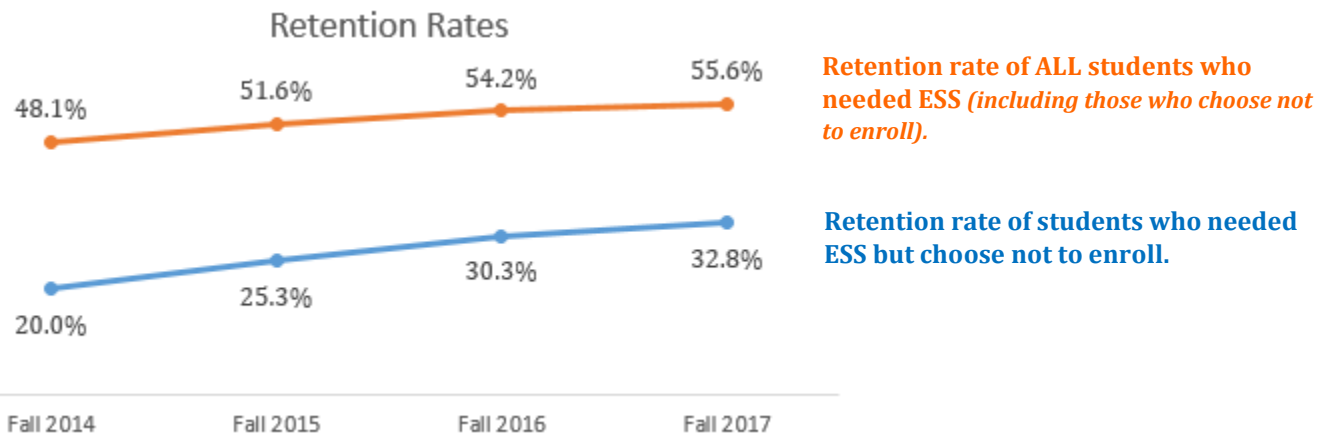
similar solutions have had a significant impact on similar gaps, or evidence that the proposed solutions address a problem related to the identified gaps.

- c.  $C = 0.333$  if there is a clear logic model for how the proposed solutions are likely to have a significant impact on the identified gaps.
- d. If the solutions have different likelihoods of improvement, the likelihood of improvement of all the solutions will be the student weighted likelihood of improvement for each group.

The number of unweighted points awarded to the proposal for this criteria =  $A \times B \times C \times$  the number of unweighted points available for this criteria.

## Appendix J – Identification of Opportunity Gaps and Solutions in the Built Environment South Puget Sound Community College Example

*Students who take the Enhanced Student Success Class are more likely to complete.*



South Puget Sound Community College (SPSCC) launched an Enhanced Student Success (ESS) Class for new college students who are not academically prepared for college work Fall 2014. The outcome of this class has resulted in increased persistence for students who are successful in the ESS class.

Over the last four fall quarters, 338 students is the average number of students who have received a recommendation to enroll in the ESS class. However, on average, only 152 actually enroll within the first two quarters of attendance at SPSCC.

Because the outcome of successfully passing this class has proven to be beneficial to student persistence, the college will require ESS for specific student populations, especially for students that are choosing not to enroll after a recommendation to do so.

If SPSCC mandates a class requirement, learning space is required to sufficiently meet the needs of the demand.

Currently, various teaching space is sufficient to schedule all the necessary classes because a sub-set of the target population is enrolled in the ESS classes (students requiring pre-college work who elect to enroll). However, as this program moves to requirement for this specific population, a larger dedicated space would be necessary to meet the scheduling needs and provide an inclusive central first year experience resource center. Building 26 would be a great location to dedicate to the Enhanced Student Success classes. This building is adjacent to the main Student Services building, the bus loop, and a very short walk to the Student Union Building. Currently this space is not ideal for teaching and learning; the list is long of problems that make it not conducive to teaching and learning best practices.

- On average, 338 students need ESS each fall quarter.
- The average number of students who elected NOT to enroll in ESS is 186 students each quarter.

- The number of students returning who elected NOT to enroll in ESS is 93 students each quarter.
- The relative size of the cohort in the gap is  $93/338 = 27.5\%$  so **A = 1.000**
- The relative size of the gap is the difference in retention rates of those in the gap and the larger population of those who needed ESS was  $55.6\% - 32.8\% = 22.8$  percentage points so **B = 1.000**
- For this example we would survey the students who needed ESS but did not take it to find out why they did not take it. Since this survey has not taken place, we will assume a hypothetical result: students did not enroll in ESS because the limited offerings of the class due to available space did not fit into the student's schedule. By combining this with space utilization data to substantiate the lack of appropriate space, the major project proposal would include dedicated space for ESS so **C = 0.666**
- **A \* B \* C = 1.000 \* 1.000 \* 0.666 = 0.666 time the available unweighted points in each category for the proposed project.**

## Appendix J – Identification of Opportunity Gaps and Solutions in the Built Environment Renton Technical College Example

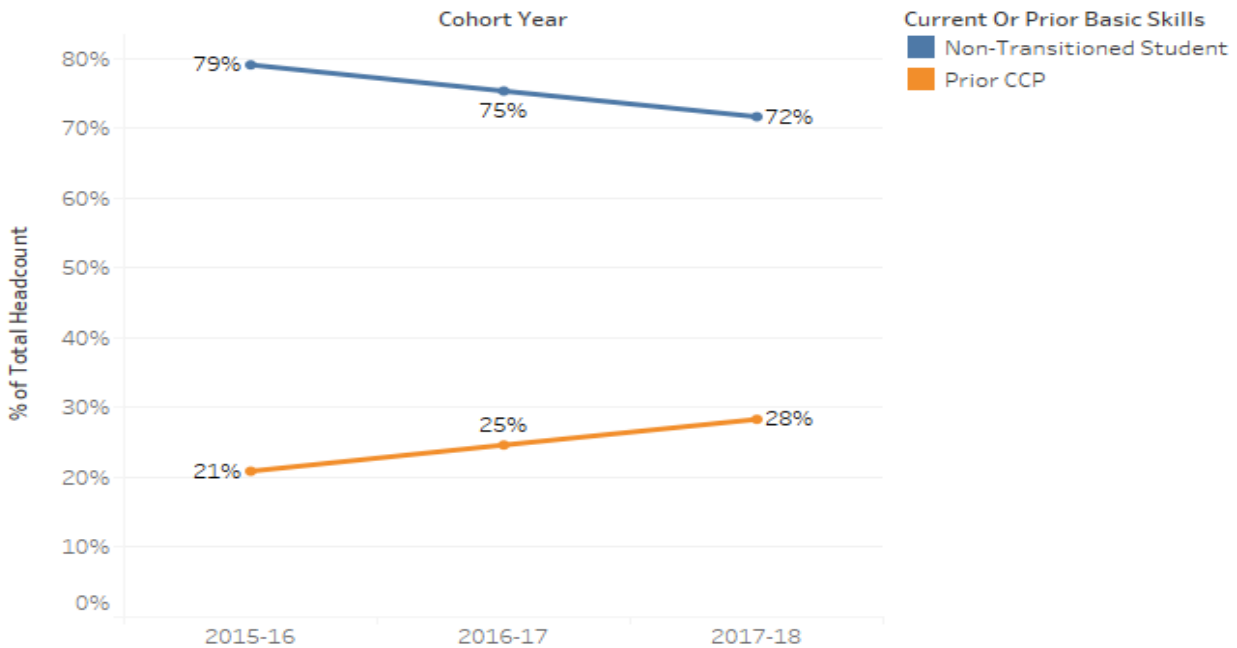
*Students in high-wage programs are more likely to complete.*

Renton Technical College would build a center promoting College and Career Pathways (CCP) student transition into college level programs, with a strong emphasis on transition into high wage STEM programs.

Factor A: Renton Technical College’s CCP students comprise between 37% and 42% of the College’s overall enrollment<sup>2</sup>

Year	College and Career Pathways Enrollment	College Level Enrollment
2015-16	36%	64%
2016-17	40%	60%
2017-18	41%	59%

Transitioned College and Career Pathways students’ share of enrollment in Professional Technical programs stands at 28% of total professional technical enrollment<sup>3</sup>



Regardless of which lens is applied to the population, the relative size of the cohort exceeds 10% of the student body, so **A = 1.000**.

<sup>2</sup> Includes students with Intents A,B,D,E,F,M,I, and G. Vocational Supplemental and Apprenticeship students excluded from totals. College level students include all students not coded to intents D and E.

<sup>3</sup> Based on SBCTC student achievement initiative data: transitioned students are identified using the field Current or Prior Basic Skills. Prof tech students are identified using the fields first and last intent where either field equals F,M,I or G.

Factor B: Based on wage and placement data the College receives from Data for Linking Outcomes Assessment (DLOA), the College knows that graduates coded to high wage programs by SBCTC <sup>4</sup> earn more than their peers in medium or low wage programs.

	Grad Year	25th %	Median Wage	75th %
High Wage Programs	2014-15	\$16.95	\$20.62	\$27.69
	2015-16	\$20.51	\$25.49	\$31.48
	2016-17	\$26.41	\$30.57	\$36.58
Low+Medium Wage Programs	Grad Year	25th %	Median Wage	75th %
	2014-15	\$13.20	\$16.17	\$18.48
	2015-16	\$14.43	\$16.69	\$19.48
	2016-17	\$15.36	\$17.92	\$21.19

Although transitioned CCP student's share of medium wage programs increased over the past three years, their share of enrollment in high wage programs decreased<sup>5</sup>.

Prof-Tech Students	Cohort Year	Range	Headcount	Percentage
Non-Transitioned Student	2015-16	Low	561	32%
		Medium	915	51%
		High	305	17%
	2016-17	Low	508	32%
		Medium	804	51%
		High	277	17%
	2017-18	Low	548	35%
		Medium	759	48%
		High	262	17%
Prior CCP	2015-16	Low	212	45%
		Medium	225	48%
		High	35	7%
	2016-17	Low	244	46%
		Medium	271	52%
		High	11	2%
	2017-18	Low	252	40%
		Medium	359	57%
		High	22	3%

RTC defines the gap as the percentage non-transitioned students enrolled in high wage programs compared the number of prior CCP students enrolled in high wage programs. For the most recent year of data where data is available (2017-18), the gap exceeds 10% (3% for transitioned CCP students enrolled in high wage programs compared to 17% non-CCP prof tech students enrolled in high wage programs), so **B = 1.000**.

<sup>4</sup> Each release of DLOA includes an SBCTC CIP classification list coding programs to either low, medium, or high wage. In DLOA this field is called LMH.

<sup>5</sup> Data source: SAI Demographics Enrollment Table.



Factor C: This transition center builds of educational research focusing on the correlations between belonging and recruitment/retention/completion of marginalized populations of students in STEM programs. The College would track progress through two leading indicators: CCP enrollment in high wage programs, and their subsequent retention in those programs. The College would use only one lagging indicator: the number of CCP students earning credentials in high demand programs. Research examples include:

Toven-Lindsey, B., Levis-Fitzgerald, M., Barber, P. H., & Hasson, T. (2015). Increasing persistence in undergraduate science majors: A model for institutional support of underrepresented students. *CBE Life Sciences Education*, 14(2), 1-12.  
<https://doi.org/10.1187/cbe.14-05-0082>

Real world implementation: [UCLA PEERS](#) program (Program for Excellence in Education and Research in the Sciences). PEERS is a dedicated center at UCLA that provides underrepresented students professional development in life/physical science mathematics. Strong components of PEERS include collaborative learning workshops, social events with other science students, and personalized academic advising.

The following article includes a quantitative study comparing PEERS to non-PEERS control group:

Toven-Lindsey, B., Levis-Fitzgerald, M., Barber, P. H., & Hasson, T. (2015). Increasing persistence in undergraduate science majors: A model for institutional support of underrepresented students. *CBE Life Sciences Education*, 14(2), 1-12.  
<https://doi.org/10.1187/cbe.14-05-0082>

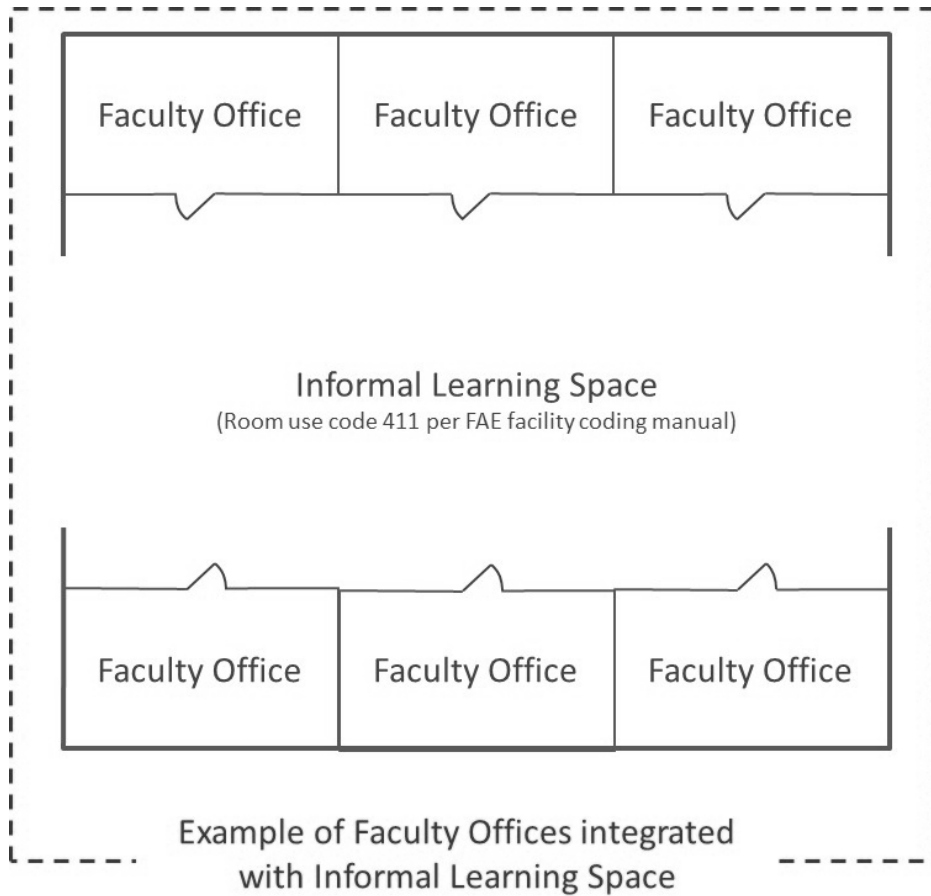
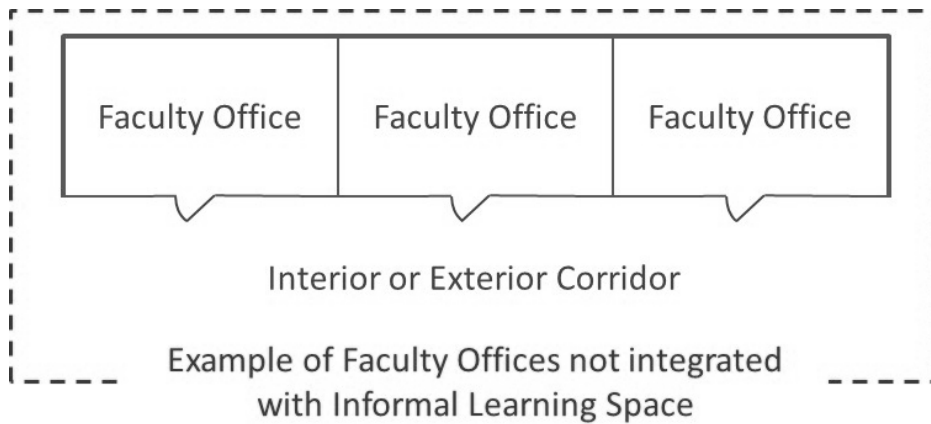
With evidence that the proposed solution will have significant impact on the gap **C= 1.000**.

**A \* B \* C = 1.000 \* 1.000 \* 1.000 = 1.000 times the available unweighted points in each category for the proposed project.**

## Appendix K – Faculty Offices integrated with Informal Learning Spaces (FOiwILS)

Additional unweighted points are available for the faculty office areas in renovation, replacement, and new area projects if the office area is configured to improve opportunities for student/faculty interaction.

These faculty offices are expected to be visible from and open to informal learning spaces. See illustrations below:



<b>SBCTC 2023-25 request pipeline w/ 2021-23 legislative budget</b>						
<b>Added</b>	<b>Score</b>	<b>Construction Order</b>	<b>College</b>	<b>Number</b>	<b>Project</b>	<b>Next Funding Phase</b>
2019-21	88.720	1	Lake Washington	40000102	Center for Design	Construction
2019-21	87.950	2	Bates	40000130	Fire Service Training Center	Construction
2019-21	87.260	3	Olympic	40000103	Innovation & Technology Learning Center	Construction
2019-21	86.970	4	Everett	40000190	Baker Hall Replacement	Design & Construction
2019-21	86.120	5	Tacoma	40000104	Center for Innovative Learning and Engagement	Construction
2019-21	84.610	6	Wenatchee	40000198	Center for Technical Education and Innovation	Construction
2019-21	83.660	7	Shoreline	40000214	STE(A)M Education Center	Construction
2019-21	82.800	8	Lower Columbia	40000106	Center for Vocational and Transitional Studies	Construction
2019-21	82.080	9	Columbia Basin	40000108	Performing Arts Building Replacement	Design & Construction
2019-21	82.020	10	Whatcom	40000137	Technology and Engineering Center	Design & Construction
2019-21	81.900	11	Cascadia	40000222	CC5 Gateway building	Construction
2019-21	81.510	12	Edmonds	40000114	Triton Learning Commons	Construction
2019-21	80.640	13	Renton	40000204	Health Sciences Center	Construction
2019-21	80.300	14	Bellingham	40000256	Engineering Technology Center - Bldg J Replacement	Design & Construction
2019-21	79.760	15	Centralia	40000109	Teacher Education and Family Development Center	Construction
2019-21	78.701	16	Spokane	40000107	Apprenticeship Center	Construction
2019-21	77.450	17	Skagit	40000110	Library/Culinary Arts Building	Construction
2019-21	76.500	18	Highline	40000105	Welcome Center for Student Success	Design
2019-21	75.420	19	Clark	40000227	Hanna/Foster/Hawkins Complex Replacement	Design & Construction
2019-21	73.310	20	Peninsula	40000111	Advanced Technology Center	Design & Construction
2019-21	73.130	21	South Seattle	40000231	Rainier Hall Renovation	Design
2019-21	71.200	22	Seattle Central	40000294	Broadway Achievement Center	Design
2021-23	78.021	23	Yakima	40000506	Prior-Kendall Hall	Design
2023-25	TBD	24 +	TBD	TBD	from 2023-25 selection	TBD

Excerpt from  
SHB 1080 As Amended  
Proposed Compromise  
S-3081.3

Sec. 7038. The state board for community and technical colleges shall report to the fiscal committees of the legislature by December 15, 2021, on alternative methods of prioritizing and presenting the list of requested capital projects for community and technical colleges in the 2023-2025 fiscal biennium.

This report shall take into consideration:

- a) The need to balance long term community and technical college system planning and growth management priorities;
- b) the need to balance major capital project requests for design and construction funding, given the fiscal impact of funded design projects on the state's capital budget; and
- c) the need to balance state funding between design and construction to meet the community and technical colleges' priorities.

The alternative methods included in the report may include, but are not limited to, the following concepts:

- 1) Separately ranking the following types of requests for project funding:
  - a) Requests for major projects' construction phase, including those projects for which design and construction funding are requested together to facilitate alternative public works contracting procedures pursuant to chapter 39.10 RCW;
  - b) requests solely for the design phase of major projects; and
  - c) requests for minor works funding; and
- 2) Requiring that the number of major project funding requests that are solely for the design phase may not exceed the number of major projects funding requests that include funding for the construction phase.