

# CAREER TECHNICAL CTE

## PROGRAM DESCRIPTION

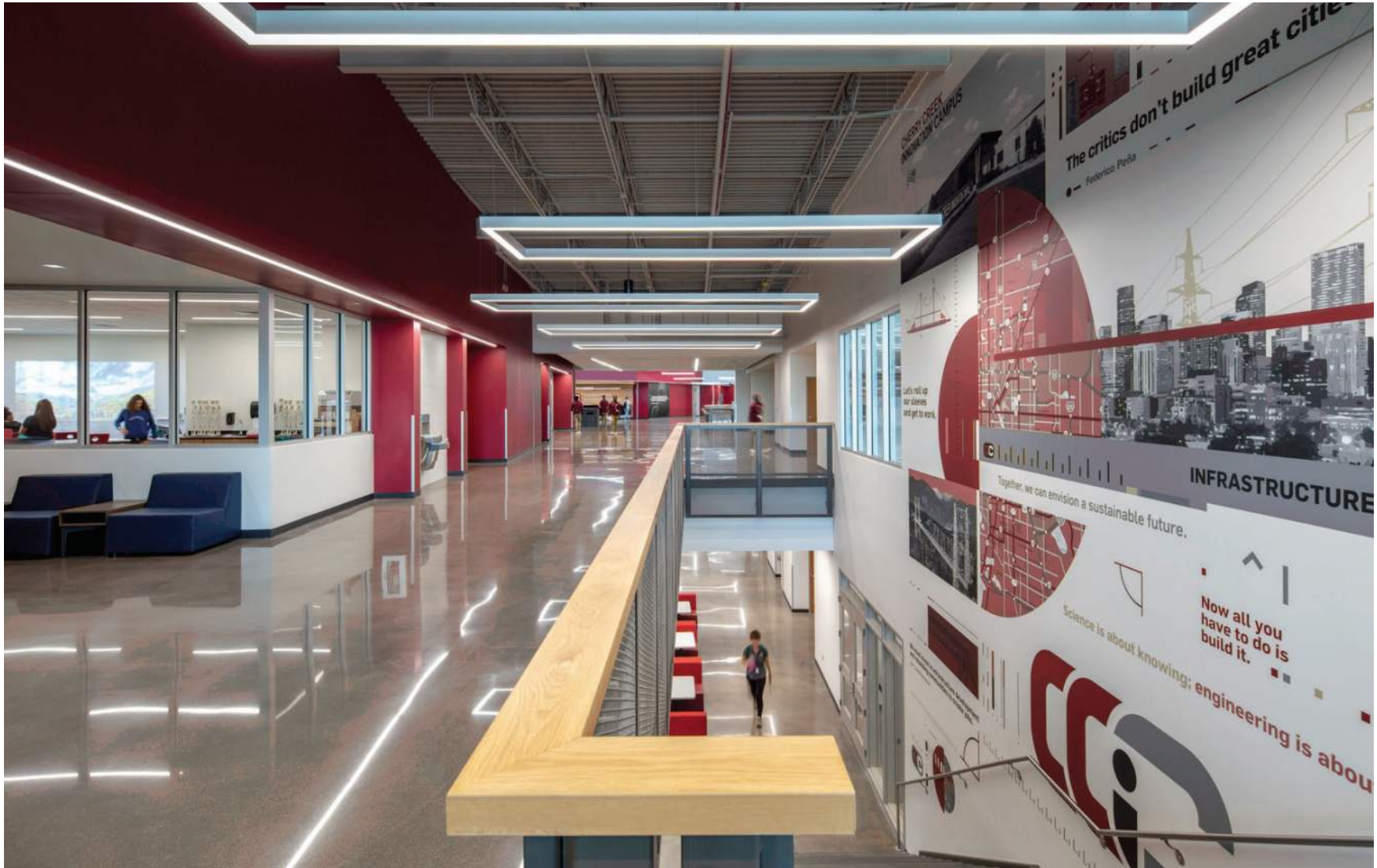
Career Technical Education (CTE) Pathway Programs are a multi-year sequence of courses that integrate core academic knowledge with technical and occupational knowledge to provide students with a pathway to post-secondary education and careers. The spaces for these CTE Pathways must simulate a real-life work environment for the given industry sector to better prepare students if they choose to go straight into a career instead of college, or simply to engage in experiential learning to find their passion. The District is developing various CTE Pathway Programs at each of its high schools. The District has open enrollment which allows students to choose a pathway program at any one of the high schools and attend that high school.

CTE Pathways at Compton High School's Academic building will include: Certified Nursing Assistant (CNA), Culinary Arts, Computer Science, and Project Lead The Way (PLTW).

CTE Pathways at Compton High School's Performing Arts Center will include: Digital Music , and TV and Video Production.

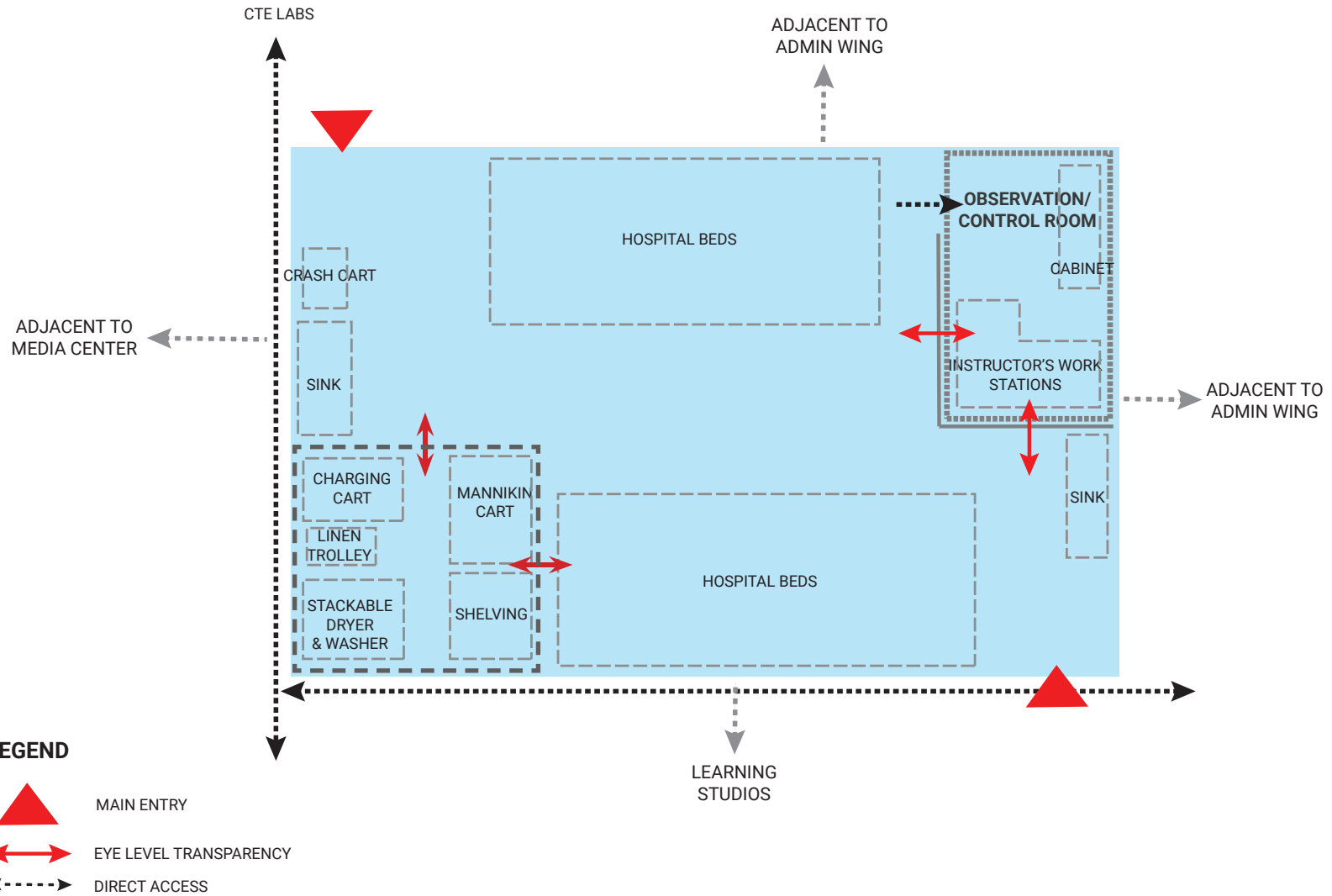


**Picture:** CTE Pathway Students at Cherry Creek Innovation Campus, Denver Colorado |DLR Group






# SPATIAL RELATIONSHIPS AND ADJACENCIES

## ACADEMIC WING | CNA (CERTIFIED NURSING ASSISTANT) CLINICAL LAB



**LEGEND**

-  MAIN ENTRY
-  EYE LEVEL TRANSPARENCY
-  DIRECT ACCESS

## INDIVIDUAL SPACE DESCRIPTION

### CERTIFIED NURSING ASSISTANT CLINICAL LAB

Spatial program:

(1) at 1500 SF

Activities description:

Certified Nursing Assistant Program helps students prepare for an entry-level position in healthcare where they will work under the supervision of a licensed nurse. The curriculum will cover the basic skills the students need to work in an acute care or long-term care setting. The program will cover a broad range of topics in the classroom and clinical lab followed by supervised clinical experiences.

Adjacencies and support spaces:

- Near other CTE labs
- Media Center
- Admin Wing
- Observation/ Control Room (instructors manipulate mannikins and observe students)
- In addition to the lab, CNA will use a typical core subject learning studio

Finishes and Materials:

- Floor: Rubber flooring
- Walls: Painted gypsum board, vinyl wall covering over gypsum board or tackable surface, acoustical wall treatment, whiteboard wall treatment for interactive throw projectors approved by projector manufacturer, wall treatments to be floor to ceiling
- Ceiling: Suspended acoustical tile (ACT)
- Door: View panel or sidelite
- Eye level windows by instructor's workstation between the control room and lab space for mannikin controlling

Millwork/ Fixtures:

- Upper and lower cabinets for supply storage
- Upper shelving for folded linens
- Stackable washer and dryer to be purchased by District
- (2) sinks. Provide cut sheets for District approval
- Cubicle (privacy) curtain at each hospital bed

- Hospital head wall systems at hospital beds
- Wall hooks for hanging teacher's coats
- Working countertop with storage cabinets below for (2) instructors in the control room

Furnishings:

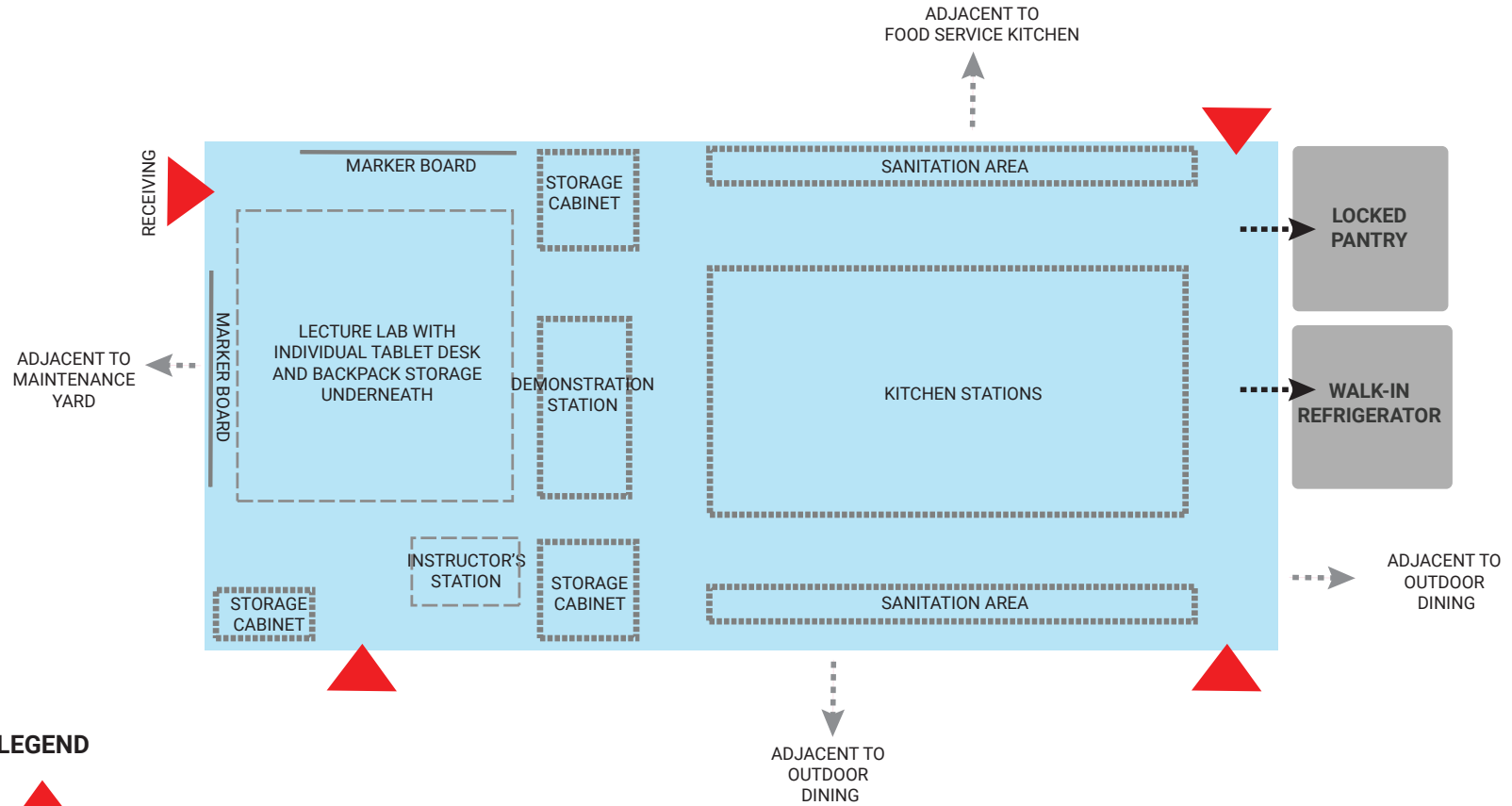
- Storage cart for CPR mannikins
- Hospital Beds (5-6)
- Mobile cart for storing laptops and charging in storage room
- Trolley for linens
- Crash cart for storing and charging laptops
- Task chairs for each workstation in observation/ control room
- Each teacher needs (3) 5 drawer vertical file cabinets

Technology / Electrical




- Mobile interactive flat screen
- Wall mounted blood pressure cuff at each bed
- IV pump at each bed
- Wireless connection to the mannequins
- Outlets for general room requirements and workstation
- Power for crash cart
- Power source for beds and IV pump.
- Flexible power availability for multiple configurations
- Wireless network access
- Synchronized clock system
- IT - Domain names for AV

# SPATIAL RELATIONSHIPS AND ADJACENCIES

## ACADEMIC WING | CTE - CULINARY ARTS



### LEGEND

-  MAIN ENTRY
-  EYE LEVEL TRANSPARENCY
-  DIRECT ACCESS

## INDIVIDUAL SPACE DESCRIPTION

### CULINARY ARTS

Spatial Program:

(1) at 1800 SF

Activities Description:

The Culinary Arts Lab supports the Culinary Arts CTE Pathway in the Hospitality, Recreation and Tourism industry sector for 30 students to develop their professional kitchen skills. The goal is to simulate a real restaurant kitchen as much as possible.

Adjacencies and Support Spaces:

Food Service

- Outdoor dining and learning
- Walk-in Refrigerator (support space)
- Locked Pantry (support space)

Finishes and Materials:

- Floor: Quarry tile
- Walls: Ceramic tiles, painted gypsum board, vinyl wall covering over gypsum board or tackable surface, acoustical wall treatment, wall treatments to be floor to ceiling
- Ceiling: Suspended acoustical tile (ACT) with washable surface
- Door: View panel or sidelite
- Roller shades with visually transparent sunscreens

Millwork/ Fixtures:

- (2) exhaust hood at kitchen area
- (1) exhaust hood at demonstration table
- (3) Hood fire suppression system
- (5) gas cooking stations
- Metal shelving at walk-in refrigerator, pantry and kitchen
- Fixed demonstration station with sink and utility chase
- Hand sinks as needed at sanitation area
- Preparation sinks as needed at sanitation area
- Wall mounted pot rack
- (1) mop sink near but separated from sanitation area

- Upper and Lower cabinets for supply storage
- Linear wire rack shelving for dry goods

Furnishings:

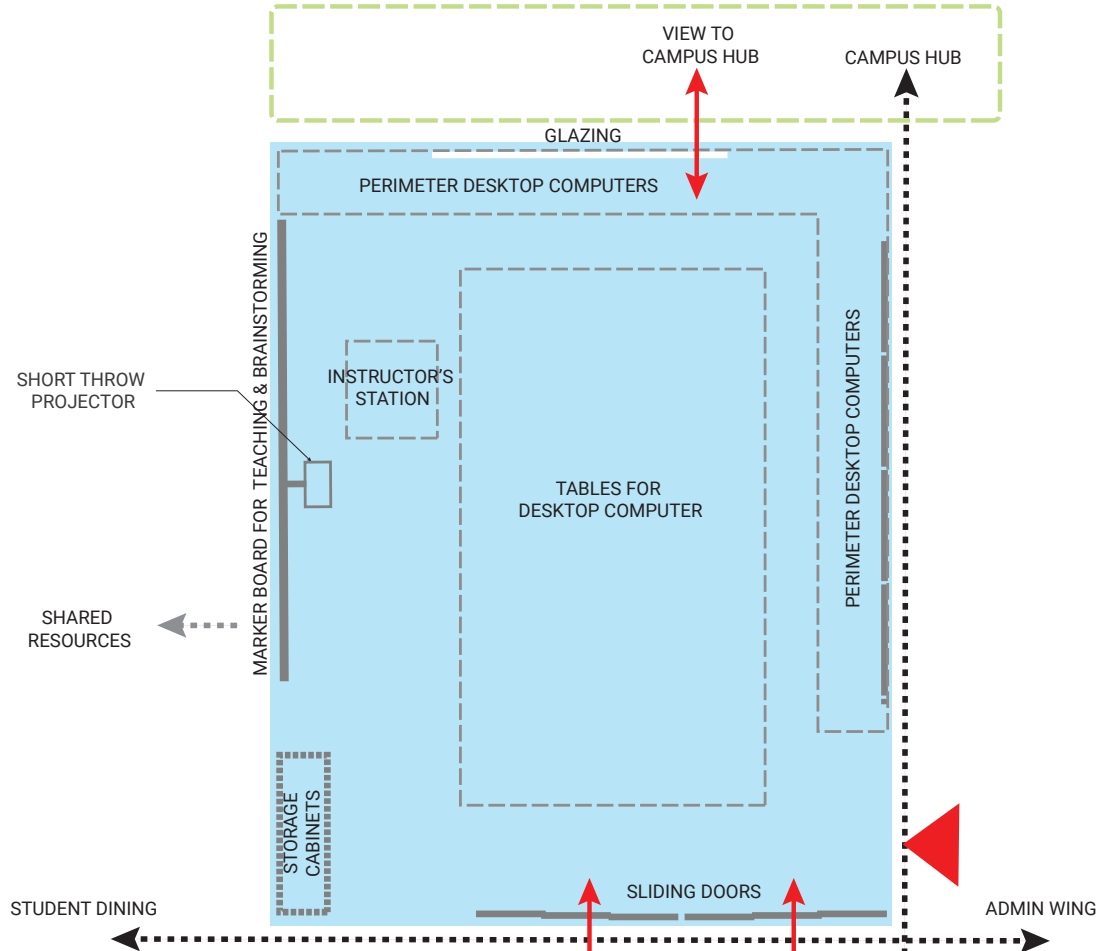
- Instructor station with no outlets attached to desk
- Task chair to use at instructor's desk
- Individual student workstations with backpack storage underneath
- Stools with backs to use at worktables

Technology / Electrical:




- Ceiling mounted document camera
- Sound enhancement equipment and ceiling mounted speakers
- (2) mobile interactive display at prep areas
- Ceiling mounted monitors above demonstration table
- Washer and dryer to be purchased by District
- 1-4 half door reach in freezer
- (2) commercial stoves to be purchased by District
- (2) broilers to be purchased by District
- Freezer to be purchased by District
- Steam kettle to be purchased by District
- Outlets for general room requirements and workstation use
- Wireless network access
- Telephone
- Synchronized clock system
- IT - Domain names for AV

# SPATIAL RELATIONSHIPS AND ADJACENCIES

## ACADEMIC WING | CTE - COMPUTER SCIENCE



**LEGEND**

-  MAIN ENTRY
-  EYE LEVEL TRANSPARENCY
-  DIRECT ACCESS

## INDIVIDUAL SPACE DESCRIPTION

### COMPUTER SCIENCE

Spatial Program:

(1) at 1100 SF

Activities Description:

The Computer Science and E-Sports programs need a flexible space to support various types of learning, a learning space that encourages collaboration and group work with high access to digital technology. This space should have a direct line of sight to an adjacent space to extend the footprint of the Computer Science lab. Wireless connectivity inside this space is crucial for the learning process. Technology should be used as an enhancement to the educational process. This space can also support Business/ Marketing CTE pathway. Adjacencies and Support Spaces:

- CTE Labs
- ASB/ Student Store
- Media Center
- Student Dining
- Learning Studios

Finishes and Materials:

- Floor: Rubber flooring or polished concrete flooring
- Walls: Painted gypsum board, vinyl wall covering over gypsum board or tackable surface, acoustical wall treatment, whiteboard wall treatment for interactive throw projectors approved by projector manufacturer, wall treatments to be floor to ceiling
- Ceiling: Suspended acoustical tile (ACT), painted gypsum board soffit
- Door: View panel or sidelite
- Roller shade with visually transparent sunscreens

Millwork/ Fixtures:

- Perimeter counters for student desktop computer workstations
- Full height storage cabinet
- Furnishings:
- Teacher's desk with integral power for teacher use

- Task chair to use at teacher's desk
- Tables for student desktop computer workstations as needed (all tables to be height adjustable or 34" A.F.F to meet ADA code)
- Chairs on lockable casters for computers
- Stools with backs to use at desktop tables

Furnishings:

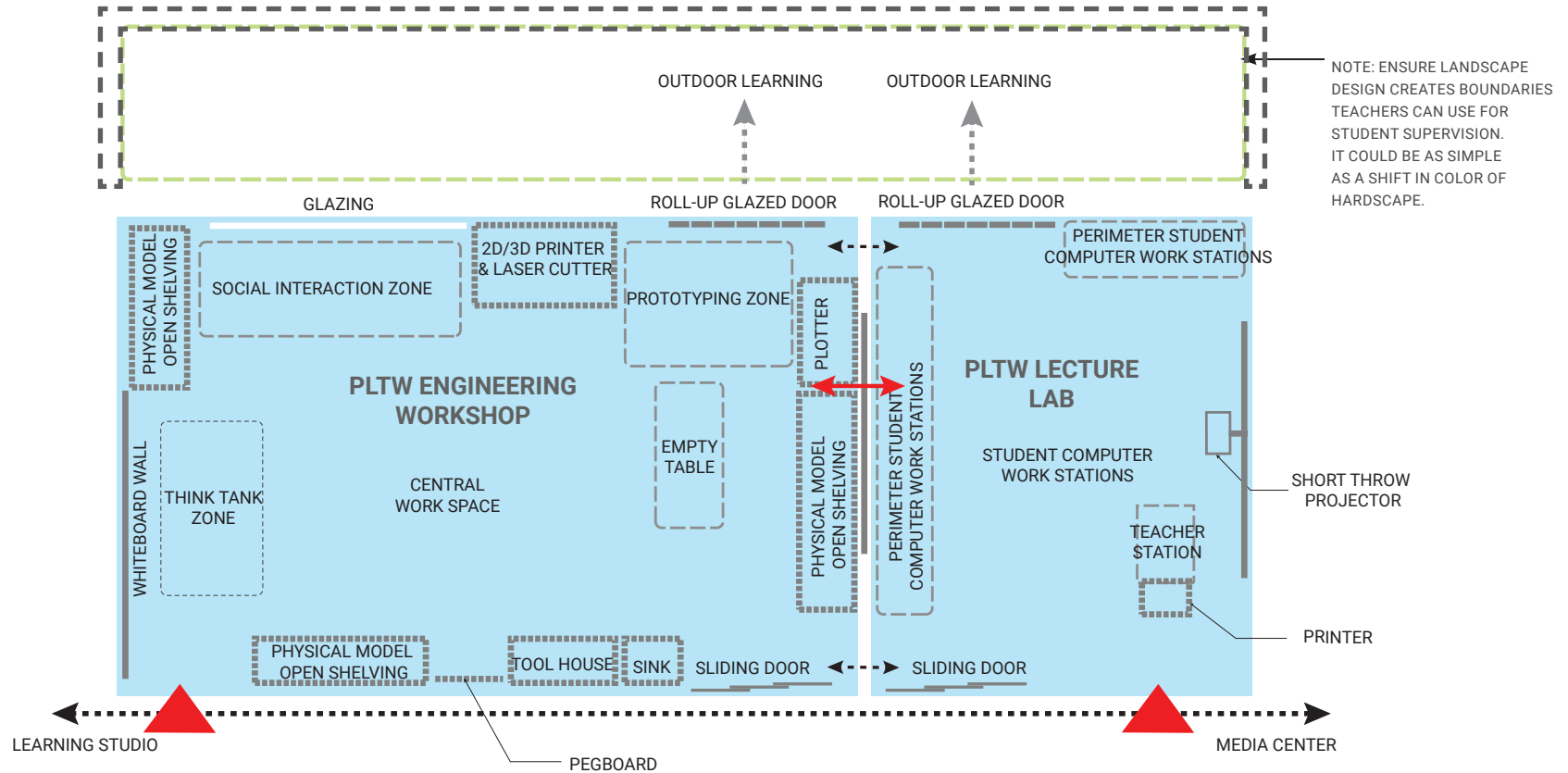
- Teacher's desk with integral power for teacher use
- Task chair to use at teacher's desk
- Tables for student desktop computer workstations as needed (all tables to be height adjustable or 34" A.F.F to meet ADA code)
- Chairs on lockable casters for computers
- Stools with backs to use at desktop tables
- Mobile AV rack

Technology / Electrical:




- Printer to be purchased by District
- Computer desktop at teacher's desk
- Interactive short throw projector (Zoom infrastructure)
- Sound enhancement equipment and ceiling mounted speakers
- Outlets for general room requirements and workstation use
- Ability to share screen on projector from student computers
- Data connections for color printers
- Wireless network access
- Synchronized clock system
- Telephone
- IT - Domain names for AV

## SPATIAL RELATIONSHIPS AND ADJACENCIES

### ACADEMIC WING | PLTW - PROJECT LEAD THE WAY WORKSHOP & LECTURE LAB



#### LEGEND

-  MAIN ENTRY
-  EYE LEVEL TRANSPARENCY
-  DIRECT ACCESS

## INDIVIDUAL SPACE DESCRIPTION

### PLTW WORKSHOP

Spatial Program:

(1) at 2300 SF each.

Activities Description:

The Project Lead The Way program provides hands-on, and creative ways to encourage students to design, experiment, build and invent as they deeply engage in science, engineering and tinkering. This workshop is not solely a science lab, maker space, computer lab or art room, but it may contain elements found in all these familiar spaces. The furniture in this space must be durable and flexible to support multiple programs and disciplines.

Adjacencies and Support Spaces:

- PLTW Lecture Room
- Media Center
- Learning Studios
- Visual Arts Studios

Finishes and Materials:

- Floor: Rubber flooring or polished concrete flooring
- Walls: Painted gypsum board, vinyl wallcovering over gypsum board or tackable surface, acoustical wall treatment, whiteboard wall treatment for interactive throw projectors approved by projector manufacturer, wall treatments to be floor to ceiling
- Pegboard finish next to tool house and in front of countertops for hanging tools
- Ceiling: Exposed structure with acoustical board attached to underside of deck painted gypsum board soffit
- Uni-strut grid hung from ceiling for flexibility
- Door: View panel or sidelite
- Roller shade with visually transparent sunscreens

Millwork/ Fixtures:

- Perimeter 24" deep working counter 36" A.F.F, butcher block countertop with apron only, no cabinets or drawers to have room to fit in mobile storage underneath
- 24" deep open shelving for 60 physical models. Shelving can be distributed across the perimeter space of the workshop

- (1) Utility sink with clean outs. Provide cut sheets for District approval
- Open adjustable shelving for tool house
- Flat storage with drawers for tool house

Furnishings:

- Full height industrial lockable cabinet for equipment storage
- Heavy duty lockable tool chests on casters
- One mobile teacher podium with workstation including storage and seating
- Durable working tables
- Height adjustable studio stools
- Lightweight mobile chairs and lightweight flip top table and small tables for flexibility at social interaction zone and at think tank zone
- Clear containers to be stored in the open shelving at tool house
- Step ladder for tool house
- Mobile storage bins and resource carts

Technology / Electrical:

- 3D printer to be purchased by District
- Laser cutting machine to be purchased by District
- Exhaust for laser cutting machine
- Printer to be purchased by District
- Plotter to be purchased by District
- Mobile device charging station
- Computer station at 3D printer and laser cutting machine
- Sound enhancement equipment and ceiling mounted speakers
- Outlets for general room requirements and workstation use
- Cord reels from ceiling for power for flexibility
- Ability to share screen on projector from student computers
- Data connections for color printers and plotters
- Wireless network access
- Synchronized clock system
- IT - Domain names for AV

## PLTW LECTURE LAB

Spatial Program:

(1) at 1750 SF each.

Activities Description:

Project Lead the Way Lecture Lab is located near the PLTW workshop and Arts to support cross-pollination between the subjects. The room is for 32 students to use desktop computers for 3D modeling or other digital design or art applications

Adjacencies and Support Spaces:

- PLTW Workshop
- Media Center
- Learning Studios

Finishes and Materials:

- Floor: Rubber flooring or polished concrete flooring
- Walls: Painted gypsum board, vinyl wall covering over gypsum board or tackable surface, acoustical wall treatment, whiteboard wall treatment for interactive throw projectors approved by projector manufacturer, wall treatments to be floor to ceiling
- Ceiling: Exposed structure with acoustical board attached to underside of deck
- Uni-strut grid hung from ceiling for flexibility
- Door: View panel or sidelite
- Roller shade with visually transparent sunscreens

Millwork/ Fixtures:

- Perimeter counters for student desktop computer workstations for 3D modeling
- Emergency supply cabinet and any cabinetry 72" not to be mobile.
- Charging station for laptops above emergency supply cabinet

Furnishings:

- Teacher's desk with no outlets attached to the desk
- Tables for student desktop computer workstations as needed (all tables to be height adjustable or 34" A.F.F to meet ADA code)
- Chairs on lockable casters for computers
- Stools for flip top tables
- Mobile AV rack

Technology / Electrical:

- Printer to be purchased by District
- Computer desktop at teacher's desk
- Interactive short throw projector (Zoom infrastructure)
- Sound enhancement equipment and ceiling mounted speakers
- Outlets for general room requirements and workstation use
- Mobile device charging station
- Ability to share screen on projector from student computers
- Data connections for colors printers and plotters
- Cord reels from ceiling for power for flexibility
- Wireless network access
- Synchronized clock system
- IT - Domain names for AV

