

Master Facility Plan
Update

FUNCTIONAL
TEAM
REPORT



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Executive Summary

Purpose

The Career and Technology Education departments have a strong commitment to provide District 86 students with college and career readiness skills. The Business, Family Consumer Science and Technology departments will continue to face challenges providing innovative curriculum to our students with the current physical space and technology limitations. As we continue to look into the future of CTE curriculum, the spaces at both schools will be unable to support the state-of-the-art direction of all the disciplines. The following were the basic needs that have been identified:

- Insufficient and unsuitable working lab spaces for Family Consumer Sciences and Technology Education Departments
- Inadequate storage space for equipment and supplies for lab classes
- Need of collaboration space for students to engage in problem solving and communication skills
- Lack of faculty space to accommodate the department members while also maintaining proximity to their classrooms and labs.

Priorities

Based on the various goals of each of the disciplines in the Career and Technical Departments we found the following priorities within the Technology Education, Family Consumer Science and Business departments. These three departments serve various populations of students and the following recommendations will suit the disciplines and the students enrolled into the future of Career and Technology Education. (Components 1 & 2 are both a top priority)

1. Component 1 Option 3- (Tech Central) – Relocation of the Tech Ed spaces to the first floor with an addition is the preferred option. This option provides the opportunity for overhead doors and 20 foot high spaces to accommodate the size of equipment and projects needed for the program;

1. Component 2 Option 2 - (FACS Central) Heavy lab renovation of the existing FACS spaces with an expansion of Sewing into General Classrooms 106 and 108, and storage expansion into 114. Total heavy lab renovation of 6,600 square feet. Displaces 1 general classroom. Addresses Needs items 4 through 34

3. Component 5- (FACS South) -An addition of +/-8,000 square feet grouping 3 foods labs, a sewing lab, a child development room, FACS offices, CTE Department offices, storage, building storage, and an outdoor play area. Renovates 2,700 square feet of existing Foods Labs into a Commons area near the Cafeteria. Addresses Needs items 37, and 41 through 50;

4. Component 4- (Tech South) – Heavy lab renovation of 6,700 feet. Displaces 1,200 square feet of building storage. Addresses needs items 37, 38, 39, and 40.

5. Component 3 (Business Central) – 1,200 square feet medium renovation to convert standard Computer Lab 234 into a flexible, “Google” Garage type Innovation Lab with flexible furniture and multiple configuration options. This lab should be a highly visible focal point of the Business Department with possible glass walls to the corridor and the potential to open up to the adjacent classroom or north corridor. Introduction of a window to the outside at the north end of the adjacent corridor.

Contributors

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CTE Team Needs and Issues List

CENTRAL HIGH SCHOOL

Technical Education - Re-planning and support for growth of the three existing Technology Education programs: Engineering & Architecture, Graphic Communications, and Photography as follows:

1. Engineering & Architecture:
 - A) Existing 1600 square feet CAD lab (Room 16) is insufficient/unsuitable for fabrication materials and equipment. Re-plan the Lab adjacent to the Eng/Arch Fabrication Lab;
 - B) Add a 2000+ square feet dedicated Engineering/Architecture Fabrication Lab supporting both metal and wood fabrication;
 - C) Incorporate direct visual connection as well as direct access door between CAD lab and Eng/Arc Fabrication lab;
 - D) All rooms need ample storage space for student project materials to be stored.
2. Graphic Communications:
 - A) Re-design of existing 1300 square feet Graphics computer lab (Room 15);
 - B) Add 600 square feet Group Planning/Critique space with direct access to Graphics computer lab.
3. Photography:
 - A) Re-design of existing 3400 square feet Photography space (Rooms 17 & 20) to better utilize space and provide dedicated work spaces for different activities;
 - B) Incorporate dedicated 800 square feet Chemical (Wet) Darkroom;
 - C) Incorporate dedicated 1300 square feet Digital Darkroom;
 - D) Incorporate dedicated 700 square feet Dry Work area;
 - E) Incorporate dedicated 600 square feet Photo Studio;
 - F) Add 500 square feet of storage.
4. Faculty Space:
 - A) Re-design/expansion of existing office space (Room 18) to 400SF to accommodate up to six teacher work stations;
 - B) Space to be adjacent/central to all three program classroom labs/spaces.
5. Staff Washrooms are needed on the Lower Level close to Technical Education;
6. Technical Education should be located on the main level to facilitate installation of large equipment;

FACS

7. Both Foods Labs should be on the same side of the hall so storage can be shared, minimizing disruptions during class;
8. Foods Lab 112 needs upgraded casework to replace delaminating and broken casework; Needs a commercial dishwasher for the commercial kitchen, and adequate electrical for tablets;
9. Foods Lab 116 needs a HC accessible station;
10. At 1100 square feet Foods Lab 116 is undersized by 300 square feet and lacks a dedicated storage space, and does not accommodate testing. Need a larger space to hold desk or tables appropriate for testing;
11. At 1294 square feet Foods Lab 112 is undersized by +/- 100 square feet causing issues with testing and HC accessible pathways;
12. Noise from commercial equipment in Lab 112 is disruptive to teaching;
13. Foods Lab 112 does not have adequate storage for commercial equipment;
14. Foods Lab 112 does not have a designated food storage / sorting area causing classroom interruptions;
15. Separate, dedicated storage is needed for both Foods Lab 112 and Sewing 110;

16. Foods Lab 116 does not have dedicated food storage / sorting area;
17. Foods Lab 116 needs adequate electrical for tablets, additional marker board and tack surface, and upgrades to deteriorating casework;
18. Foods Lab 116 exhaust system is not working properly;
19. Sewing machines in lab 110 do not fold away, and are too high for students;
20. Sewing/Fashion Merchandising/Interior Design Lab 110 does not have enough storage;
21. Sewing/Fashion Merchandising/Interior Design Lab 110 does not have adequate electrical for sewing machines and tablets;
22. At 1200 square feet, Sewing/Fashion Merchandising/Interior Design Lab 110 is not large enough for project based learning or computer design;
23. Building columns in Sewing/Fashion Merchandising/Interior Design Lab 110 limit visibility and supervision;
24. Sewing/Fashion Merchandising/Interior Design Lab 110 is not large enough to have fabric layout / cutting space (floor is used.);
25. Preschool Rm 118, at 739 square feet, is undersized and does not support project based learning for HS students or pre-schoolers;
26. Preschool Rm 118 does not have adequate storage;
27. Preschool Rm 118 does not have a toilet room for preschoolers;
28. Preschool Rm 118 does not have direct access to the courtyard outside play area;
29. The outside play area is not fenced off for security, and is lacking equipment and storage;
30. The outside play area is lacking equipment and storage;
31. The observation room for the preschool classroom is used as a storage room;
32. The observation room does not have a student work space and is lacking ventilation;
33. The Preschool kitchenette needs a separate sink for food from the clean up sink;
34. Preschool is not conveniently located for parent drop-off/pick-up;
35. At 221 sqft, the FACS Office is undersized for teachers and support staff, and does not support parent meetings, private conversations, or teacher collaboration;

Business

36. Modify Computer Lab 234 to become a flexible, "Google Garage" type Innovation Lab with flexible furniture, multiple configuration options. Room should be highly visible part of the Business wing;
37. Collaboration spaces are lacking in the Business classroom area (and throughout the building.);

SOUTH HIGH SCHOOL

Technical Education

38. The CTE Department office is located in the Business Department on the second floor remote from Tech Ed;
39. A direct visible connection between the CAD Lab and the Woods Shop is needed;
40. A dedicated Tech Ed CAD (Industrial Tech) Lab is needed, not shared with Art;
41. A Control Room / Office is needed with views into both CAD and Woods Shop;

FACS

42. At 818 square feet each, the Foods Labs are undersized by +/- 600 square feet each, do not support computer needs, and are in need of better planning (one of the two.);
43. Sewing and Child Development are scheduled in the same room, off-semesters. An additional classroom is needed dedicated to Sewing/Interior Design/Fashion;
44. The FACS office is too small for four teachers and very remote from Sewing / Child Development;
45. Child Development drop-off/pick-up is not convenient for parents;
46. A restaurant area for students to serve meals during class is desired;

- 47. Commercial cooking equipment is needed in one of the Foods Labs;
- 48. Direct access from both Foods Labs to the storage area is needed;
- 49. Child Development needs an observation room;
- 50. Child Development needs direct access to the outside for play;
- 51. A 3rd Foods Lab is needed to meet current needs.



CTE Team Component List

CENTRAL HIGH SCHOOL

COMPONENT 1 - Re-plans and Expands Technical Education

OPTION 1

A heavy renovation of 11,500 square feet of existing space. Displaces the current Tech Lab and assumes it will be recaptured with an Arts department expansion. Displaces Drivers' Ed classroom 14C, Conference Room 13, a mechanical room, and a small storage room. General Classroom 14B is rescheduled to the Shop Room adjacent to the elevators. Assumes the displaced spaces will be recaptured with a P.E./Athletics expansion. Addresses Needs items 1 - 5;

OPTION 2

Assumes an E/W corridor addition on the upper 2 levels is added, heavy renovation to re-plan 6,000 square feet of existing Tech Ed space plus a 3,000 square feet Lower Level addition extending south to the Field House. Borrowed light openings in the new 1st floor above could be provided to bring light into the Tech Ed spaces below. Addresses Needs items 1 - 5;

OPTION 3

Assumes an E/W corridor addition on the upper 2 levels is added, a new 11,500 square foot addition on the 1st floor at the west end of the new corridor. Addresses Needs items 1 - 6;

OPTION 4

Heavy renovation of the Drivers' Ed room to a Arch/Eng Production Lab, with visual connection to the Arch/Eng CAD Lab - temporary solution. Displaces Drivers' Ed classroom 14C, Conference Room 13, a mechanical room, and a small storage room. General Classroom 14B is rescheduled to the Shop Room adjacent to the elevators. Assumes the displaced spaces will be recaptured with a P.E./Athletics expansion. Addresses Needs items 1 only;

COMPONENT 2 - FACS

OPTION 1

Heavy lab renovation of the exiting 5,300 square feet of FACS spaces in place, with an expansion for storage into 114. Addresses Needs items 5, 6, 9, 11, 12, 14, 15, 16, 17, 19, 20, 21, 26, 27, 28, 29, 32;

OPTION 2

Heavy lab renovation of the existing FACS spaces with an expansion of Sewing into General Classrooms 106 and 108, and storage expansion into 114. Total heavy lab renovation of 6,600 square feet. Displaces 1 general classroom. Addresses Needs items 4 through 34;

COMPONENT 3 - Business

1,200 square foot medium renovation to convert standard Computer Lab 234 into a flexible, "Google Garage" type Innovation Lab with flexible furniture and multiple configuration options. This lab should be a highly visible focal point of the Business Department with possible glass walls to the corridor and the potential to open up to the adjacent classroom or north corridor. Introduction of a window to the outside at the north end of the adjacent corridor;

SOUTH HIGH SCHOOL

COMPONENT 4 - Re-Plans Technical Education

Heavy lab renovation of 6,700 square feet. Displaces 1,200 square feet of building storage. Addresses Needs items 37, 38, 39, and 40;

COMPONENT 5 - FACS Addition

An addition of +/-8,000 square feet grouping 3 foods labs, a sewing lab, a child development room, FACS offices, CTE Department offices, storage, building storage, and an outdoor play area. Renovates 2,700 square feet of existing Foods Labs into a Commons area near the Cafeteria. Addresses Needs items 37, and 41 through 50;



Works well

Equipment available works good

CENTRAL FACS

Classroom space for PP and SS works well, when not conflicting with another class.

Room 112 Kitchen Layout works!

- What is NOT working for your existing department space and why? (no fair saying everything)

Appendix B

Room	Issues	Recommendations
110	<ul style="list-style-type: none"> Room does not accommodate project based curriculum with 24 students. Sewing machines occupy valuable counter top, are too high for proper student use and due to location pose a higher risk for damage. Risk of theft with machines left exposed. Inadequate storage for equipment & student supplies. Inadequate electrical for sewing machines & tablets. Building support in classroom space obstructs view of students as well as students' view of teachers. Teacher cannot monitor access to/from the classroom through the door to the math hallway. Computer cart and printer are a disruption to classes when accessed by other courses. Testing is difficult to administer with room setup. Fabric must be cut on floor or in cafeteria or hallway due to lack of work space. 	<ul style="list-style-type: none"> Expand room out toward Grant Street or encompass additional storage and work space. Install in floor or additional electrical outlets for sewing machines. Provide cabinetry that allows for sewing machine placement for safety and space. Create a dressing room utilizing the placement of sewing machines. Relocate computer cart and printer to new teaching area. By relocating machines and adding onto room make space for testing and fabric preparation.
Storage Room Between 110 and 112	<ul style="list-style-type: none"> Due to door and classroom configurations this area poses a high probability for theft to occur. Unorganized and unusable due to high volume of use by numerous students and clubs, as well as the large amount of storage within the space. Use of the dishwasher & work space is hindered. Sanitation and safety issues. Multipurpose use of room distracts from student engagement. 	<ul style="list-style-type: none"> Designate room for one purpose by providing additional storage purposes elsewhere. Reorganize room to provide more efficient storage. Install commercial dishwasher designated to be used by the department.
Room	Issues	Recommendations
112	<ul style="list-style-type: none"> Inadequate electrical to facilitate use of the tablets. Inadequate storage for commercial equipment. Classroom area used as a public dining space. Handicapped accessibility in table area is limited and unsafe due to space. No designated food storage/sorting areas exist; as a result 	<ul style="list-style-type: none"> Install in floor or additional electrical outlets for sewing machines. Lower class divisor. Create a food storage/sorting area that would: provide food, provide space for commercial refrigerator. Move refrigeration compressors to crawl space under the building to hold commercial food storage/sorting room to hold commercial equipment.

	<p>classroom interruptions are frequent.</p> <ul style="list-style-type: none"> ○ Lack of commercial dishwasher to sanitize commercial cookware. ○ Testing is difficult to administer. ○ Noise of compressors and other equipment interferes with classroom effectiveness. 	<ul style="list-style-type: none"> ○ Expand room toward Grant Street and/or create traditional classroom with public access. ○ Install a commercial dishwasher
Room	Issues	Recommendations
116A Office	<ul style="list-style-type: none"> ○ Space constraints lead to a less productive work environment for teaching and support staff. ○ Student and parent contact is hindered due to the space constraints and high level of noise. ○ Lack of privacy to conference amongst staff and with parents or students. ○ Lack of teacher work and collaboration space. 	<ul style="list-style-type: none"> ○ Create a new office with an addition toward Grant Street, Franklin Hill, using a room in the Math Hall ○ Provide a separate meeting room within a new space ○ Redefine the current office space as a food prep area
116	<ul style="list-style-type: none"> ○ No designated food storage or sorting area exists; as a result classroom interruptions are frequent. ○ No handicapped accessible unit. ○ Inadequate electrical capabilities for use of tablets. ○ Limited white board/bulletin board space. ○ Cabinetry is outdated & in constant need of repair. ○ Sanitation of cabinetry, cleanable finish is damaged. ○ Testing is difficult to administer. • Noise of compressors and other equipment interferes with classroom effectiveness. • Layout of room and positioning of LCD screen force students to either have back to teacher demonstration or back to screen. 	<ul style="list-style-type: none"> ○ Create food storage/sorting area that would: provide food, provide space for commercial refrigerator ○ Redesign space to accommodate handicapped students ○ Redesign space to focus student learning, white board space ○ Replace cabinetry and redesign the room to better fit curriculum and students. ○ Move refrigeration compressors to crawl space under stairs ○ Redesign food storage/sorting room to hold commercial kitchen ○ Restructure demo kitchen for better utilization of space ○ Install in floor or additional electrical outlets for equipment • Lower class divisor. • Larger room to reposition demo counter area
Room	Issues	Recommendations
118	<ul style="list-style-type: none"> ○ Loss of instructional time due to reconfiguration to accommodate the variety of classes taught here. ○ Project based classes lack adequate work space. ○ Preschool equipment is stored in main classroom. ○ Loss of instructional time, due to need to accommodate materials for high school students as well as preschoolers. 	<ul style="list-style-type: none"> ○ This classroom needs to be redefined as either a more efficient storage so it can function as a preschool, or provide the department with a dedicated preschool room ○ Install a door in classroom with direct access to outside activities. <p>Create dedicated preschool room located away from high school students such as computer labs where testing may occur</p>

	<ul style="list-style-type: none"> No outside access to the courtyard. <p>Preschool outdoor area is located by Principal's/APS' offices, preschoolers can be noisy may disrupt important meetings</p>	
Courtyard	<ul style="list-style-type: none"> Additional play equipment is needed. <p>No fence/partition in outdoor area for preschooler safety</p>	<ul style="list-style-type: none"> Install additional play equipment <p>Install fence/partition in outdoor area</p>
Observation Booth, Outdoor Storage Closet & Kitchenette	<ul style="list-style-type: none"> Observation booth utilized as a storage closet. Safety of stacked desks on both sides of booth. No student work space in booth. Sink is used for food preparation as well as clean up. No lower sink or bathroom available for preschoolers. Outdoor access unsafe due to 3 doors to access and mandatory closer. No sanitary space is designated for the preparation of preschool foods. Serves as a semi-secure location to store equipment during summer months/when rooms are emptied out for cleaning. Theft and damage have occurred when left in the hallway during cleaning periods. 	<ul style="list-style-type: none"> Provide ample storage in rooms so that observation storage closet. Needs installed counter and stools for observation Provide a prep sink, and low level hand washing safe preparation of preschool snacks and pre-accessibility. <p>Ideally, install a small preschooler-sized bathroom, &</p> <ul style="list-style-type: none"> Proper cabinet storage in 110 would allow away in individual cabinets eliminating the observation booth.

In a dream world list what are IDEAL spaces and sizes of your classroom & Why?. Where would the location of the FACS department be & Why? Is there anything or any departments you would prefer to have close proximity to and again Why?

Closer to the loading dock for food delivery with a designated entrance for preschoolers and other FACS specific functions.

I think the size of the foods labs are ok, the rooms need redesign so there is uninterrupted visual space and K5&6 in 116, need redesign so larger.

NEED storage areas to eliminate distractions during instruction getting equipment/supplies from classrooms. One shared storage space for food and one shared storage space for computer cart/sewing supplies/interior design.

Please take a look at the plans that were created in the current Masters Facility plans (attached here). What are your comments on this plan. Do you see anything that you do or do not like and why?

It doesn't look like enough classrooms/office/storage to accommodate the number of teachers, classes, and students we serve, appears smaller than current space.

No easy access for preschoolers or parents coming for entertainments depending on where main entrance now is.

Have to have windows in classroom/outside wall for ventilation.

On those lists can you please highlight the ones in which are a top priority to your department?

If you could discuss between your entire department and give me one collective document I would GREATLY appreciate it. Of course our hope is that are suggestions & concerns are taken into consideration when moving forward.

THANK YOU THANK YOU THANK YOU!

Have a great weekend.

Elizabeth Meersman

What is currently working well for your department space wise and why?

- Two foods labs adjacent to each other
- A third multi-purpose classroom with a sink and toilet room
- Large storage closet near the multi-purpose classroom
- Large Multi-purpose classroom with plugs in the floors for sewing
- Department office near 2 foods classrooms

What is NOT working for your existing department space and why?

- Foods lab classrooms are too small when larger class sizes are being suggested. Room size barely fits 20 students with 5 kitchens.
- One poorly designed foods lab classroom
- Inadequate space for a true commercial kitchen
- Three classrooms for 4 teachers forcing teachers to teach FACS classes in other department's empty classrooms all over the building
- A multi-purpose classroom that requires child development and sewing to be offered alternate semesters
- Lack of computer space
- Department office that is too small for 4 teachers that sponsor multiple clubs and sports
- Department office that is too far from multi-purpose classroom (opposite corners of the school)
- No outside entrance for preschool drop off/pick up (parents can drop off/pick up kids without having to sign in to the building)

In a dream world list what are IDEAL spaces and sizes of your classroom & Why?

- 2 Foods classrooms large enough to seat students in a demonstration area with adequate lab space to hold 5 kitchen areas that freely fit 4 students each. There must be adequate storage space, laundry space, and commercial refrigerator/freezer space. Technology would include copier and printer for each classroom
- A restaurant area that students could serve meals to during their class
- One of the kitchens would have commercial cooking equipment
- A shared walk in closet between the 2 rooms for Foods supplies.
- A dedicated child development room
- A multi-purpose room that would also be fitted for a sewing lab/interior design/fashion
- Child development room and multi-purpose room should share a wall so the multi-purpose can serve as the observation room during preschool
- Enclosed outdoor space connected to the child development room
- Keep the large storage closet

Where would the location of the FACS department be & Why?

- Location should be on the first floor with access to the dock so staff can bring groceries to the classrooms easily
- Child development room should be ground level (could be 1st or second floor depending on its location within South)

Is there anything or any departments you would prefer to have close proximity to and again Why?

- With a CTE division head, the entire CTE department should be located in close proximity to each other so the department chair can effectively monitor all departments

Please take a look at the plans that were created in the current Masters Facility plans (attached here). What are your comments on this plan? Do you see anything that you do or do not like and why?

- The classrooms that are being built into the courtyard appear be too small.
- Our current 111 does not appear to stay a FACS classroom. That room was specifically built to our specifications with a bathroom, sink, and floor plugs for sewing machines. The rooms that are now labeled as ours on the plan are currently small special education rooms that do not have the necessary amenities listed. They would not be large enough for preschool either as we have 18 students, 2 adults, and 12 preschool children.