TRI-TECH SKILLS CENTER

Programming Document

5929 Metaline Ave Kennewick, WA 99336
Phone: (509) 222-7300

TRI TECH SKILLS CENTER

DESIGN WEST ARCHITECTS

TABLE OF CONTENTS

Existing Facilities

Programmed Spaces

Support Spaces

Appendix

AREA SUMMARY REQUIREMENTS

TEACHING SPACES

AUTO BODY TECHNOLOGY

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom	651			
Shop	4004			
Office	82			
Paint Booth (2)	1134			
Mixing Room	135			
Tool Room	165			
Outdoor shop/ Storage Canopy not included	**Total: 6,171 SF**	**Total: 6,171 SF**	**Total: 23.4**	**Total: 28.8**

CONSTRUCTION TRADES

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom	644			
Shop	3763			
Office	82			
Tool Room	158			
Outdoor shop/ Storage Canopy not included	**Total: 4,647 SF**	**Total: 4,647 SF**	**Total: 27.6**	**Total: 28.8**

FIRE FIGHTING

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom	947			
Office	99			
Engine Bay	1039			
Storage	214			
Indoor Fitness Area				
	Total: 2,299 SF	**Total: 3,000 SF**	**Total: 23.4**	**Total: 28.8**

EARLY CHILDHOOD EDUCATION

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom	1112			
Preschool	1300			
Kitchen	190			
Office (2)	207			
Observation Space	163			
Storage (3)	452			
Restroom	40			
	Total: 3,464 SF	**Total: 3,464 SF**	**Total: 22.2**	**Total: 28.8**

LAW ENFORCEMENT

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom				
Storage				
Office				
Lockable Storage Rooms				
Restroom with Showers				
Dark Room with vision windows				
	Total: 1,696 SF	**Total: 3,000 SF**	**Total: 23.4**	**Total: 30.0**

WELDING TECHNOLOGY

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classrooms	1076			
Welding Shops (2)	5514			
Office (2)	301			
Lockers	160			
Restrooms	123			
Storage (2)	300			
Gas and Oxygen Rooms				
Outdoor shop/ storage canopy not included	**Total: 7,474 SF**	**Total: 7,474 SF**	**Total: 47.4**	**Total: 48.0**

DIESEL TECHNOLOGY

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classrooms	477			
Computer Room (all students need computers)	466			
Shop	3205			
Office	90			
Storage and Mezzanine	2809			
Storage Building Outside	1245			
Tool Rooms (3)	459			
Outdoor Shop/ Storage canopy not included	**Total: 8,751 SF**	**Total: 9,400 SF**	**Total: 34.8**	**Total: 30.0**

AUTOMOTIVE TECHNOLOGY

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom	666			
Shop	4781			
Office	82			
Tool Storage	93			
Lockers	221			
Outdoor Shop/ Storage canopy not included	**Total: 5,843 SF**	**Total: 6,000 SF**	**Total: 32.4**	**Total: 30.0**

DIGITAL ARTS AND FILMMAKING

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classrooms	1344			
Storage Rooms (3)	305			
Green Room	473			
Control/ Sound Room	137			
	Total: 1,954 SF	**Total: 1,954 SF**	**Total: 12.0**	**Total: 15.0**

RADIO BROADCASTING

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom	749			
Office	92			
Recording Rooms (7)	775			
Radio Room	113			
	Total: 1,729 SF	**Total: 1,729 SF**	**Total: 23.4**	**Total: 28.8**

PRE NURSING

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classrooms (2)	2242			
Offices (2)	170			
Bed Storage	586			
Storage (3)	310			
Linen Closet	92			
	Total: 3,400 SF	**Total: 3,400 SF**	**Total: 80.4**	**Total: 72.0**

VIDEO GAME DESIGN/ DIGIPEN

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Computer Lab Classroom	1243			
Office	93			
	Total: 1,336 SF	**Total: 1,720 SF**	**Total: 21.6**	**Total: 28.8**

CYBER SECURITY

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom				
Shop				
Storage				
	Total: 862 SF	**Total: 1,500 SF**	**Total: 21.6**	**Total: 28.8**

DENTAL ASSISTING

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classrooms (2)	2349			
Dark Room	92			
X-Ray Rooms	91			
Suction Room	86			
Office	282			
	Total: 2,900 SF	**Total: 2,900 SF**	**Total: 38.4**	**Total: 43.2**

3D ANIMATION

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Computer Lab				
Open Space for Drawing				
	Total: 0 SF	**Total: 1,696 SF**	**Total: 0**	**Total: 14.4**

PHYSICAL AND OCCUPATIONAL THERAPY

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom				
Lab/ Exercise Area				
Office				
Mock Exam Room				
	Total: 0 SF	**Total: 1,800 SF**	**Total: 0**	**Total: 26.4**

TEEN PARENT NURSERY

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Staff Break Room				
Kitchen				
Office				
Restroom				
Play Area				
Observation Space				
	Total: 1,594 SF	**Total: 1,594 SF**	**Total: 0**	**Total: 0**

TEEN PARENTING

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom				
Office				
Kitchen				
Restroom				
Storage				
	Total: 1,594 SF	**Total: 1,594 SF**	**Total: 12.6**	**Total: 22.8**

PRE VET TECH

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom	903			
Office	69			
Reception Room	155			
X-Ray Room	103			
Laundry Room/ Washing Station	400			
Storage	56			
	Total: 1,686 SF	**Total: 1,686 SF**	**Total: 26.4**	**Total: 28.8**

COSMETOLOGY

(Remote location)

ADVANCED PRECISION MANUFACTURING

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom				
Office				
Material Storage				
Computer Lab				
Shop				
	Total: 0 SF	**Total: 2,400 SF**	**Total: 0**	**Total: 30.0**

SUSTAINABLE TECHNOLOGY

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom				
Shop				
Office				
	Total: 0 SF	**Total: 1,800 SF**	**Total: 0**	**Total: 30.0**

HEATH INFORMATICS

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom	943			
Office	95			
Storage	79			
	Total: 1,117 SF	**Total: 1,117 SF**	**Total: 17.4**	**Total: 28.8**

CULINARY ARTS

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom	906			
Kitchen	1834			
Office	114			
Walk in Cooler and Freezer	164			
Café/ Event Center	1183			
Catering Storage (2)	367			
Demonstration Kitchen	264			
Storage (4)	556			
Dish Wash Area	125			
Lockers	100			
Changing Rooms	173			
	Total: 5,686 SF	**Total: 11,600 SF**	**Total: 25.2**	**Total: 36.0**

COUNSELING AND CAREER SERVICES

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Classroom	427			
	Total: 427 SF	**Total: 427 SF**	**Total: Non-FTE area**	**Total: Non-FTE area**

ACADEMIC SUPPORT

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Computer Lab/ Classroom	771			
Storage	89			
	Total: 860 SF	**Total: 860 SF**	**Total: 10.0**	**Total: 20.0**

SHARED BUILDING COMPUTER LAB

Space	Current Plan	Proposed Plan	Current FTE	Projected FTE
Computer Room	1057			
Support Room	94			
Storage Room (for Projectors and AV Cords)	139			
	Total: 1,290 SF	**Total: 3,420 SF**	**Total: 0**	**Total: 0**

AREA SUMMARY REQUIREMENTS

SPECIAL INSTRUCTION SPACES

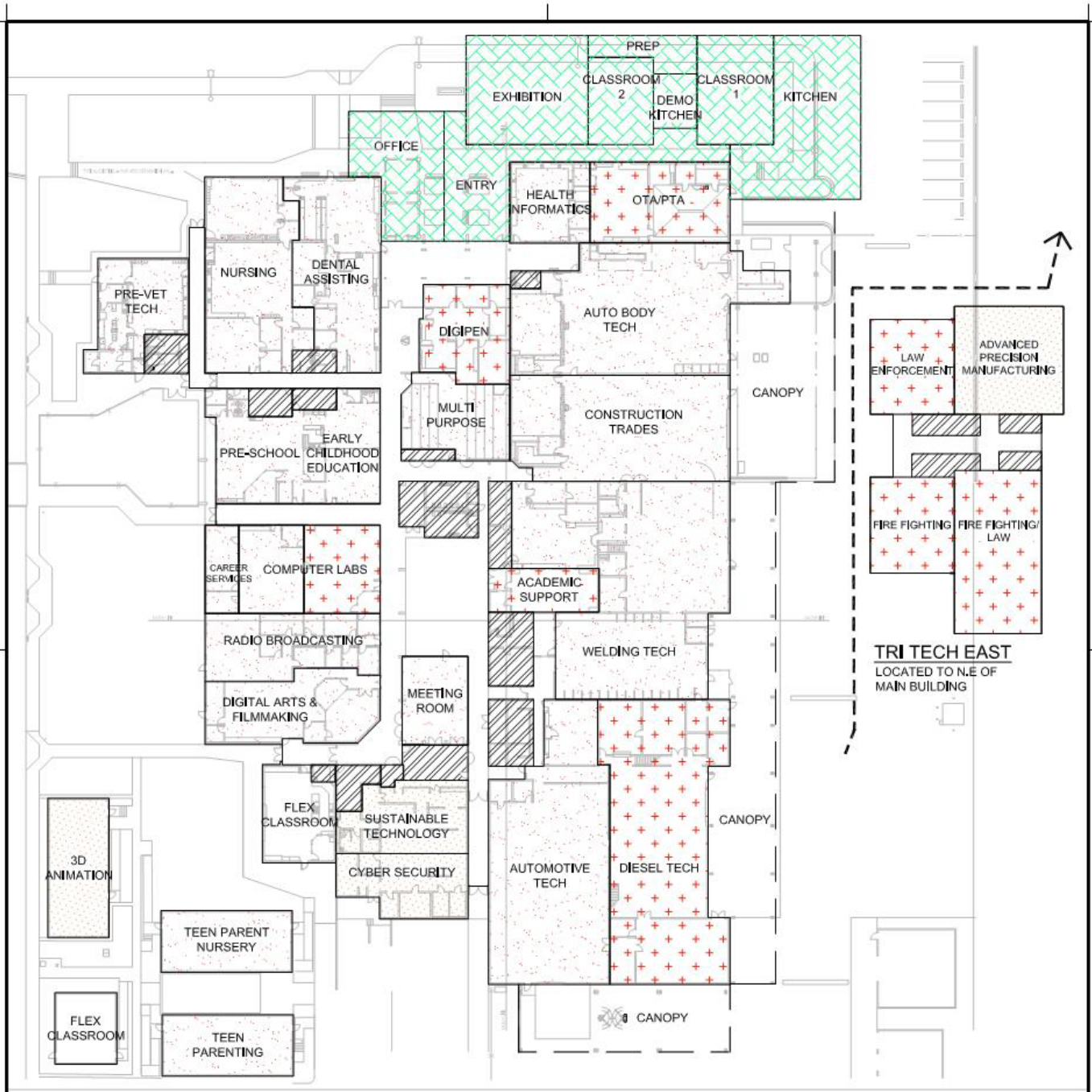
COMMONS

Space	Current Plan	Proposed Plan
Cafeteria	2066	
Table Storage	218	
	Total: 2,284 SF	**Total: 2,284 SF**

AREA SUMMARY REQUIREMENTS

ADMINISTRATIVE SPACES

Space	Current Plan	Proposed Plan
Main Reception/ Secretary Area	681	
Conference Room	283	
Principal's Office	138	
Vice Principal's Office	141	
Assistant Principal's Office	91	
Counselor's Office		
Student Services Office		
Storage	191	
Records Storage		
ISS Area		
Health Room/ Nurse Office		
Staff Break Room	322	
Teacher Workroom	138	
	Total: 1,985 SF	**Total: 1,985 SF**



FLOOR PLAN LEGEND

- SAME PROGRAM, NO CHANGES
- EXISTING PROGRAM MOVED OR REVISED
- NEW PROGRAM
- ADDITION TO BUILDING
- SUPPORT SPACES

DRAFT

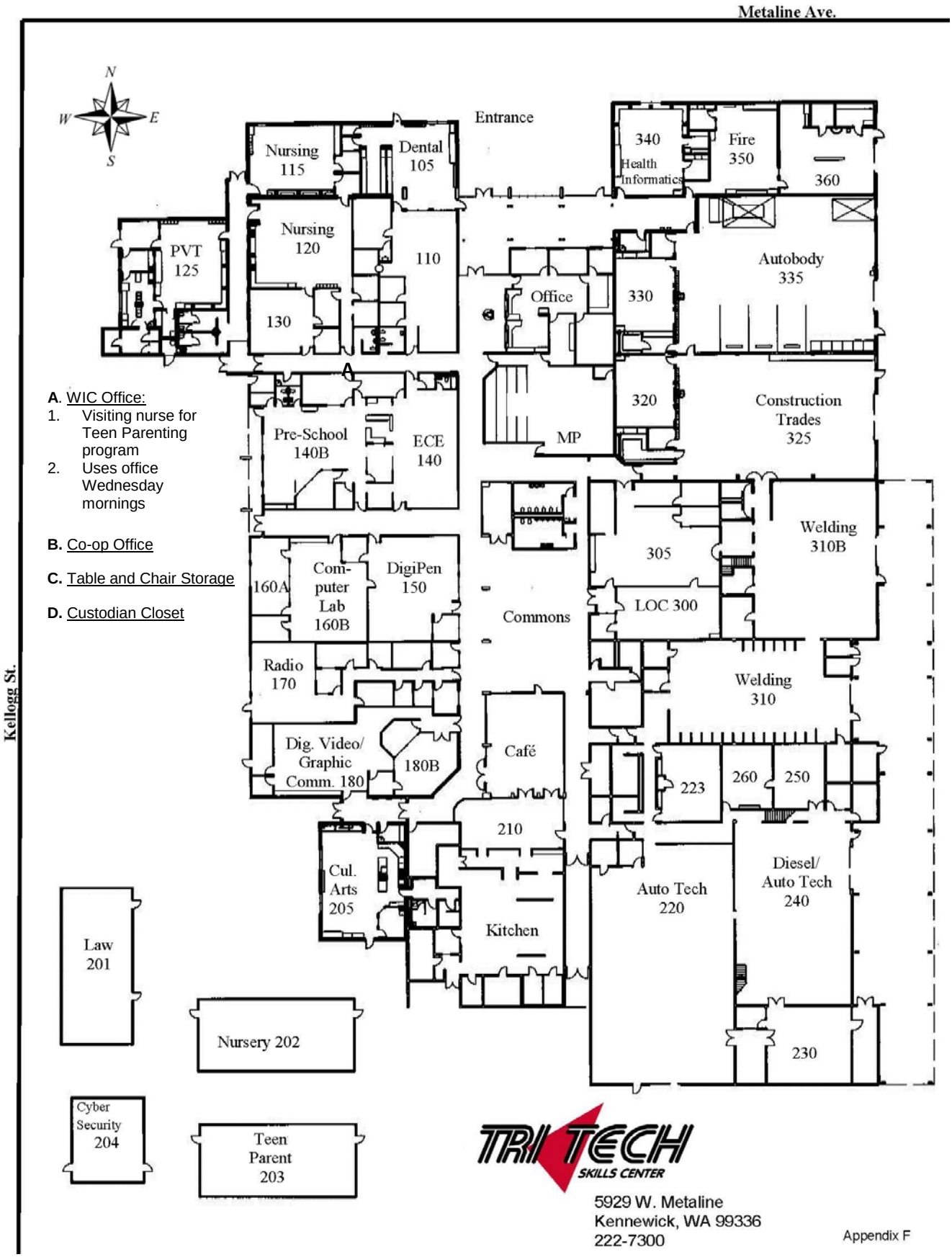
PROPOSED FLOOR PLAN

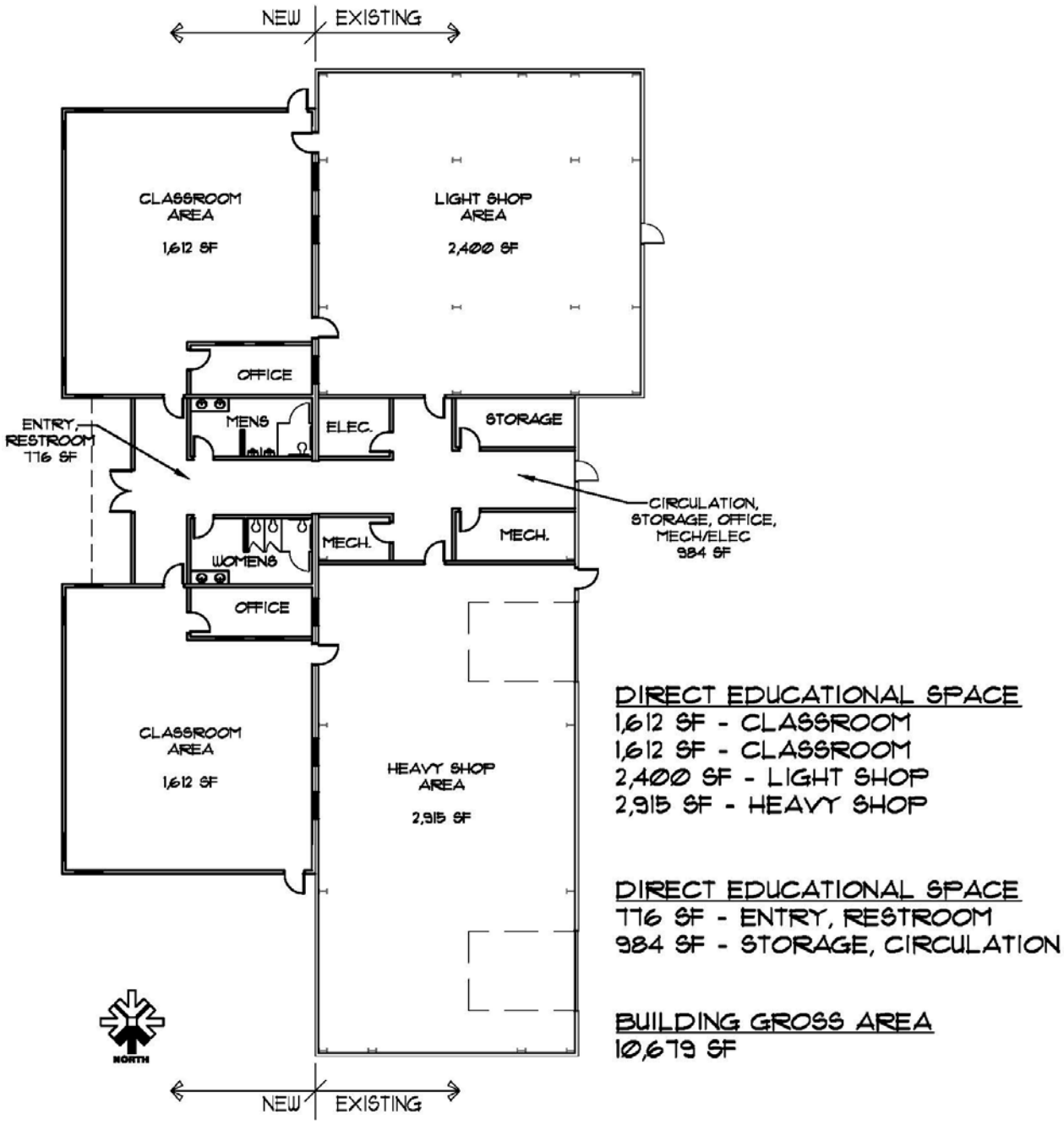
TRI-TECH SKILLS CENTER- KENNEWICK, WA

DESIGN WEST ARCHITECTS

TRI TECH SKILLS CENTER

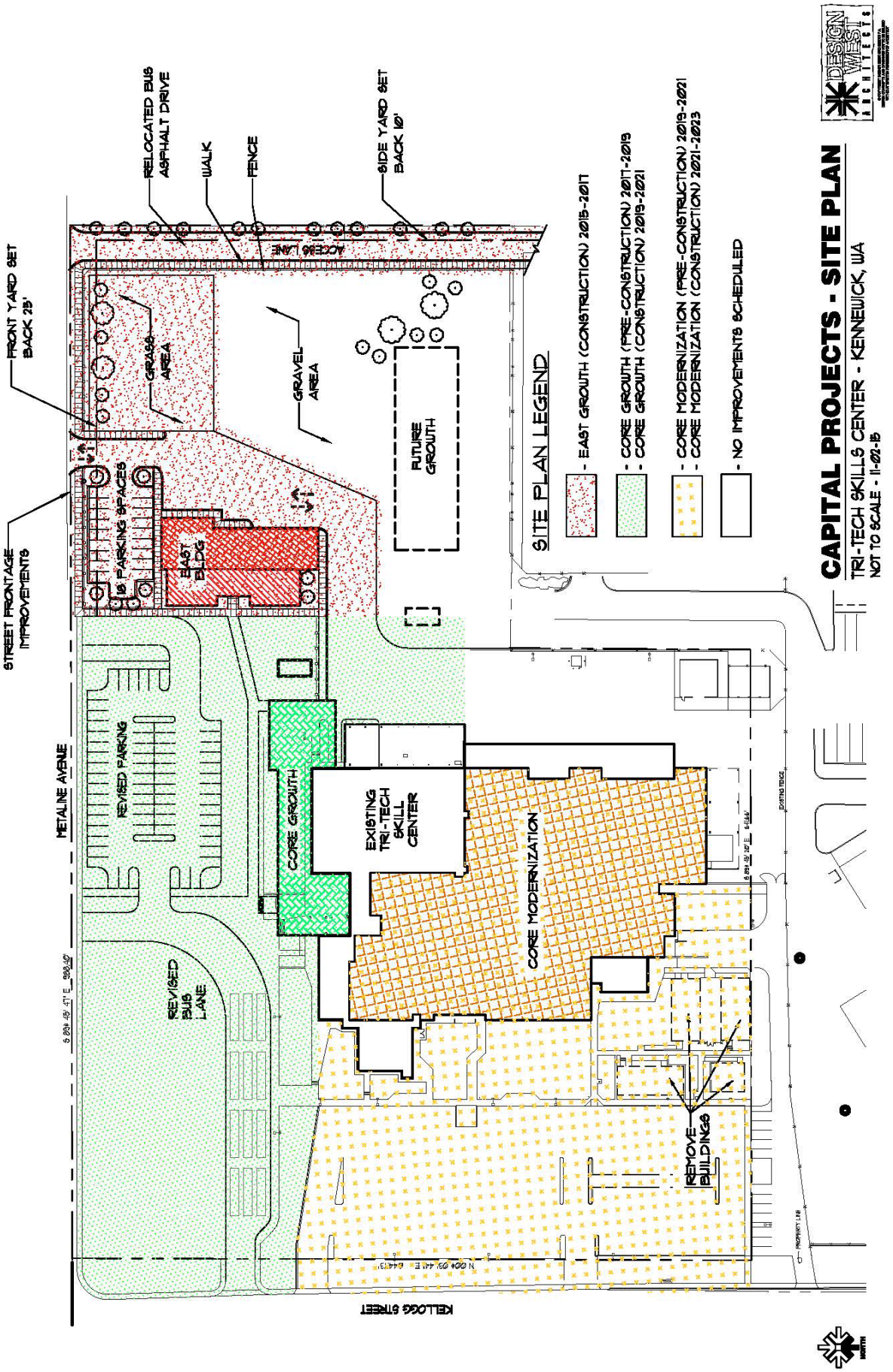
DATE: AUGUST 18, 2016


Metaline Ave.
Kellogg St.
N
W
E
S
Entrance
Nursing 115
Dental 105
Nursing 120
110
PVT 125
130
A
Pre-School 140B
ECE 140
160A
Com-puter Lab 160B
DigiPen 150
Radio 170
Dig. Video/ Graphic Comm. 180
180B
Cul. Arts 205
Law 201
Nursery 202
Cyber Security 204
Teen Parent 203
Commons
Café
210
Kitchen
Office
MP
340 Health Informatics
Fire 350
360
330
Autobody 335
320
Construction Trades 325
305
Welding 310B
LOC 300
Welding 310
223
260
250
Auto Tech 220
Diesel/ Auto Tech 240
230
A. WIC Office:
1. Visiting nurse for Teen Parenting program
2. Uses office Wednesday mornings
B. Co-op Office
C. Table and Chair Storage
D. Custodian Closet
TRI TECH SKILLS CENTER
5929 W. Metaline
Kennewick, WA 99336
222-7300
Appendix F



EAST BUILDING - FLOOR PLAN

TRI-TECH SKILLS CENTER - KENNEWICK, WA


CAPITAL PROJECTS - SITE PLAN
TRI-TECH SKILLS CENTER - KENNEWICK, WA
NOT TO SCALE - 11-02-15
DESIGN WEST ARCHITECTS
SITE PLAN LEGEND
- EAST GROWTH (CONSTRUCTION) 2015-2017
- CORE GROWTH (PRE-CONSTRUCTION) 2017-2019
- CORE GROWTH (CONSTRUCTION) 2019-2021
- CORE MODERNIZATION (PRE-CONSTRUCTION) 2019-2021
- CORE MODERNIZATION (CONSTRUCTION) 2021-2023
- NO IMPROVEMENTS SCHEDULED
RELOCATED BUS ASPHALT DRIVE
WALK
FENCE
SIDE YARD SET BACK 10'
FRONT YARD SET BACK 25'
GRASS AREA
GRAVEL AREA
FUTURE GROWTH
STREET FRONTAGE IMPROVEMENTS
16 PARKING SPACES
EAST BLDG
ACCESS LANE
METALINE AVENUE
REVISED PARKING
REVISED BUS LANE
CORE GROWTH
EXISTING TRI-TECH SKILL CENTER
CORE MODERNIZATION
REMOVE BUILDINGS
KELLOGG STREET

PROGRAM REQUIREMENTS

ROOM #335

AUTOBODY TECHNOLOGY (ABT)

PROGRAM DESCRIPTION

This program provides training in auto body work using a combination of textbook assignments, lectures, lab demonstrations, and one-on-one assistance. The ABT program focuses on safety, tool identification and proper use, vehicle construction, minor body repair, sanding, painting components and techniques, estimating damaged vehicles, welding and other operations related to vehicle repair. ABT students develop the necessary technical skills, knowledge, and attitude to be successful in the industry and continued education. The program meets the National Automotive Technical Education Foundation (NATEF) requirements and standards, and earns related certifications.

INSTRUCTOR

Robert Lozano

NUMBER OF STUDENTS

+/-24 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm
Evening events and clinics with vendors

CAREER OPPORTUNITIES

1. Auto Glass Technician
2. Auto Detailer
3. Body Repair Technician

SPACE REQUIREMENTS

AUTO BODY TECHNOLOGY (ABT)

CURRENT INSTRUCTIONAL SPACE

The Auto Body Technology program's current instructional space consists of a classroom, shop, and outside area.

EXISTING S.F.

6,171 SF

PROPOSED S.F.

Program to remain in current location.

ADJACENCIES

1. Exterior storage
2. Diesel Technology
3. Automotive Technology

CASEWORK

1. Work surface for mixing
2. Paint storage cabinets

FINISHES

1. Sealed concrete floors
2. Rubber Base
3. FRP on all walls
4. Epoxy Paint
5. Tackable wall surfaces

SUPPORT SPACES

1. Classroom
2. Office
3. Mixing room- ventilation
4. Painting booth (2)
5. Equipment storage
6. Exterior storage and covered work space.
7. Lockers for both school bags and coveralls.

SPECIAL EQUIPMENT

1. Additional hose bibs
2. Demonstration shop
3. Mobile storage
4. Interior drains
5. Computer work stations

SPECIAL REQUIREMENTS

1. Space for deliveries
2. Vehicle flow considerations
3. Full use of auto bays is desired (structure currently impedes)
4. Parking space for 10-20 cars
5. Tie into Tri Tech East building
6. Storage under awning
7. Heat trace for exterior drainages (freezes in winter time)

ACCESS AND SECURITY

1. Secure mixing room.

MECHANICAL REQUIREMENTS

AUTO BODY TECHNOLOGY (ABT)

MECHANICAL

1. Shop Area served by single-zone rooftop gas / DX unit for heating, cooling and make up air
2. One roof exhaust fan for general exhaust/purge mode, manual control
3. Relief louver from shop to exterior.
4. One utility-set roof exhaust fan for shop exhaust snorkels- manual control
5. Two utility-set roof exhaust fans for two paint booths- manual control
6. One utility-set roof exhaust fan for six welding booths- manual control
7. Classroom and office served by single zone rooftop gas/DX unit for heating, cooling, and ventilation
8. CO2 sensor in the classroom for demand control ventilation

PLUMBING

1. Wall mounted semi-circular wash sinks in shop
2. Free standing utility sink in shop
3. Emergency Eye Wash in shop
4. Refrigerated drinking fountain in shop

ELECTRICAL REQUIREMENTS

AUTO BODY TECHNOLOGY (ABT)

LIGHTING

1. Shop area lighting to be full color spectrum color rendition with illumination for 50 foot candles minimum.
2. Shop area to have enclosed lighting fixtures with smooth easy to clean lenses.
3. Shop area lighting to have time-off controls and a 50% reduction for vacancy.
4. Work benches to have task lighting.
5. Cord reels with magnetic base LED lights at service bays.
6. Classroom teaching wall to have separate lighting control zone.
7. Teaching wall & general area to have dimmable classroom lighting by area.
8. Classroom to have simple lighting control devices (on/ off, raise/ lower).
9. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Exterior walls of outside covered area to have convenience receptacles.
2. Receptacles for classroom computer counters to have a dedicated circuit per 3-4 stations.
3. Self-contained paint booths (2) to have power connections.
4. Shop equipment to have dedicated power circuits and receptacles.
5. Work benches to have dedicated power circuits and receptacles.
6. Shop & classroom to have convenience receptacles on perimeter walls.
7. Shop area to have overhead cord reels for 120V power at each service bay.
8. Covered outside area to have overhead cord reels for 120V power.
9. Power for air compressor.
10. Power for vehicle exhaust system.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Classroom to have data for Smartboard.
4. Computer and teacher counters to have data outlets.
5. Shop & classroom to have Wireless Access Points.
6. Classroom to have clock & Intercom speaker with call-in switch.
7. Shop to have clock with large digital display.
8. Shop and outside covered area to have paging horns.
9. Shop area to have security camera coverage.
10. Outside covered area to have security camera coverage.
11. Shop & classroom to have lockdown visual indication.


NOTICE
CAUTION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NOTICE

PROGRAM REQUIREMENTS

ROOM #325

CONSTRUCTION TRADES

PROGRAM DESCRIPTION

This program provides a foundation in basic residential and commercial construction, preparing students for a successful career in the construction industry. This includes the fields of skilled craftspeople, construction management or engineering. Instruction includes the proper and safe use of tools, footings and foundations, metal and wood framing and roof structures, estimation of labor and materials, city and county building codes, lot development and design process and blueprint reading.

INSTRUCTOR

Tony Milewski

NUMBER OF STUDENTS

+/-24 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Carpenter
2. Roofer
3. Framer

SPACE REQUIREMENTS

CONSTRUCTION TRADES

CURRENT INSTRUCTIONAL SPACE

The Construction Trades program's space consists of a classroom, shop, and outside area. Additional outside space is desired.

ADJACENCIES

1. Exterior storage/lay down yard

EXISTING S.F.

4,647 SF

PROPOSED S.F.

Program to remain in current location, spaces to be redistributed.

CASEWORK

1. Work benches
2. Tool storage
3. Counters with lower casework

FINISHES

1. Sealed concrete floors
2. Rubber Base
3. FRP on all walls
4. Epoxy Paint
5. Tackable wall surfaces

SUPPORT SPACES

1. Classroom
2. Shop
3. Material Storage
4. Outdoor covered work area
5. Outdoor storage

SPECIAL EQUIPMENT

1. Construction deck
2. Dust collector
3. Drop down power

SPECIAL REQUIREMENTS

1. Slab to drive fork lift
2. Flexibility for space turnover
3. Large area for formwork and stem wall construction
4. Keep the surrounding trees
5. Storage orientation not to be a barrier of the flow of space

ACCESS AND SECURITY

1. Equipment to be secured when not in use.

MECHANICAL REQUIREMENTS

CONSTRUCTION TRADES

MECHANICAL

1. **Shop Area** served by single-zone rooftop gas / DX unit for heating, cooling and make up air.
2. One roof exhaust fan for general exhaust/purge mode, manual control
3. Relief louver from shop to exterior.
4. Utility-set roof exhaust fan for shop exhaust snorkels, manual control
5. Sawdust collection system
6. **Classroom and office** served by single zone rooftop gas/DX unit for heating, cooling, and ventilation
7. **Classroom** to have CO2 sensors for demand control ventilation

PLUMBING

1. **Shop** to have wall mounted semi-circular wash sinks
2. **Shop** to have Emergency Eye Wash
3. **Shop** to have refrigerated drinking fountain in shop

ELECTRICAL REQUIREMENTS

CONSTRUCTION TRADES

LIGHTING

1. **Shop area** lighting full color spectrum color rendition with illumination for 50 foot candles minimum.
2. **Shop area** enclosed lighting fixtures with smooth easy to clean lenses.
3. **Shop area** lighting with time-off control and 50% reduction for vacancy.
4. **Work bench** task lighting.
5. Separate lighting control zone for classroom teaching wall.
6. Dimmable classroom lighting by area (Teaching wall & general area).
7. Simple lighting control devices (On/Off, Raise/Lower) for classroom.
8. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. **Outside covered area** to have convenience receptacles on exterior walls.
2. **Classroom computer counter** to have receptacles with a dedicated circuit per 3-4 stations.
3. Dedicated power circuits and receptacles for shop equipment.
4. **Work benches** to have dedicated power circuits and receptacles.
5. **Shop and classroom** to have convenience receptacles on perimeter walls.

6. **Shop area** to have overhead cord reels for 120V power.
7. **Covered outside area** to have overhead cord reels for 120V power.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. **Classroom** to have voice augmentation.
3. **Classroom** to have data for Smartboard.
4. Data outlets for computer counter and teacher.
5. **Shop and classroom** to have wireless Access Points.
6. **Classroom** to have clock & intercom speaker with call-in switch in.
7. **Shop** to have clock with large digital display.
8. **Shop and outside covered area** to have paging horns.
9. **Shop area** to have security camera coverage.
10. **Outside covered area** to have security camera coverage.
11. **Shop and classroom** to have lockdown visual indication.

PROGRAM REQUIREMENTS

ROOM #350

FIRE FIGHTING

PROGRAM DESCRIPTION

The Fire Fighting program is designed for students interested in emergency service careers. Participants are introduced to structural and wildland fire fighting and the emergency medical system. The program utilizes state of the art equipment and facilities, including an on-site training tower and fire engine. Teamwork, leadership, mental skills, and physical skills are all important focuses in the firefighting program. Students must develop these skills in order to be successful firefighters and emergency technicians. Participants in the program have the opportunity to earn fire service certifications and college credit.

INSTRUCTOR

Nathen Allington

NUMBER OF STUDENTS

+/- 28 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm
Periodic use of fire tower by local fire districts, but not during school hours.

CAREER OPPORTUNITIES

1. Fire Fighter
2. Paramedic
3. Smoke Jumper

LEARNING OBJECTIVES

1. Physical education
2. CPR training
3. Structural and wild fire behaviors
4. Emergency medical services
5. Human factors on the fire line

ACTIVITY DESCRIPTIONS

1. Indoor fitness- requires a lot of space
2. CPR training- requires a lot of space
3. Mock firefighting scenarios
4. Group work with machinery and equipment
5. Program activities are loud, messy, wet, and smelly.

SPACE REQUIREMENTS

FIRE FIGHTING

CURRENT INSTRUCTIONAL SPACE

The Fire Fighting program's current instructional space consists of a classroom, training tower, and engine bay. The program has grown and now needs additional classroom and outside space to accommodate program size and potential future growth.

EXISTING S.F.

2,299 SF

PROPOSED S.F.

3,000 SF

ADJACENCIES

Works with Auto body to train on airbag extraction, saw and torch cars.

CASEWORK

1. Storage for CPR documents
2. Storage for equipment near drill area
3. Storage racks for gear in engine bay
4. Separate locker locations needed for AM and PM sessions

FINISHES

1. FRP walls in engine bay.

2. Tack boards throughout.
3. Carpet or resilient tile

SUPPORT SPACES

1. **Indoor and outdoor fitness areas**- mobile furniture is desired if indoor fitness area is also classroom.
2. Outside drill ground with access to fire tower
3. Engine bay, set up like a fire station- future trucks to be larger in size
4. Currently using Tri-Tech East as an indoor training facility.

SPECIAL EQUIPMENT

1. Tools and machines
2. Sink and eyewash station
3. Shower facilities
4. Commercial washer/ dryer

SPECIAL REQUIREMENTS

1. Dedicated working and non-working hydrants
2. Indoor training areas
3. Cooling station with water mist fan
4. Outside field/ track
5. Storage for donated equipment that will be used at a later date.
6. Tile floor surfaces are preferred to teach students to properly clean station.

ACCESS AND SECURITY

1. Other agencies use the fire tower for training.
2. Truck bay must be secure.
3. Training equipment must be secure at all times.

MECHANICAL REQUIREMENTS

FIRE FIGHTING

MECHANICAL

1. Shop Area served by single-zone rooftop gas / DX unit for heating, cooling and make up air.
2. One roof exhaust fan for general exhaust/purge mode, manual control
3. Relief louver from shop to exterior.
4. Utility-set roof exhaust fan for shop exhaust snorkels, manual control
5. Classroom and office served by single zone rooftop gas/DX unit for heating, cooling and ventilation
6. CO2 sensor in the classroom for demand control ventilation

PLUMBING

1. **Shop** to have wall mounted semi-circular wash sinks.
2. **Shop** to have emergency Eye Wash.
3. **Shop** to have refrigerated drinking fountain.

ELECTRICAL REQUIREMENTS

FIRE FIGHTING

LIGHTING

1. **Teaching** wall to have separate lighting control zone.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

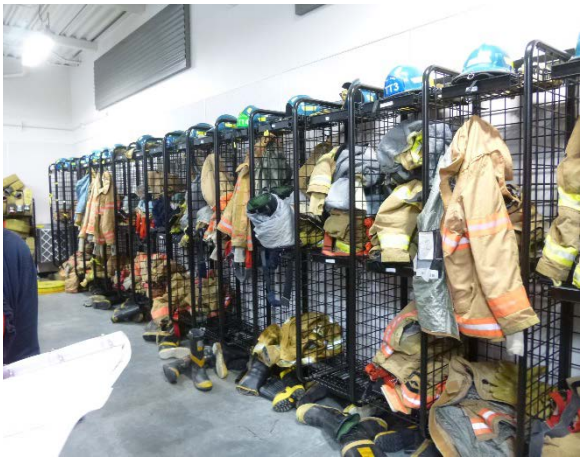
POWER

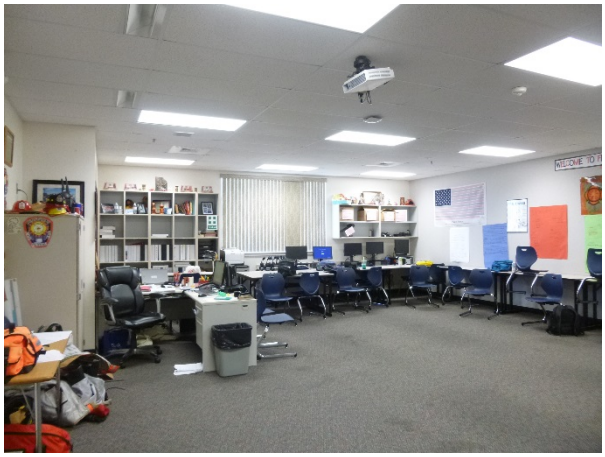
1. Perimeter walls to have convenience receptacles.
2. Receptacles for classroom computer counter with a dedicated circuit per 3-4 stations.

SYSTEMS

1. **Teaching** wall to have audio/Visual projector system with controls.
2. Voice augmentation.
3. **Classroom** to have data for Smartboard.
4. Data outlets for computer counter and teacher.
5. **Classroom** to have Wireless Access Point.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker.
8. Lockdown visual indication.


CAUTION
HIGH PRESSURE BREATHING AIR





PROGRAM REQUIREMENTS

ROOM #140

EARLY CHILDHOOD EDUCATION

PROGRAM DESCRIPTION

Our Early Childhood Education program teaches you about working with young children. The program covers the developmental stages of pre-school children and how to create lessons and work with young children. The Tri-Tech Preschool is only laboratory preschool in the Tri-City area. You will gain hands-on experience with preschoolers in individual and group settings. Students can earn up to 15 college credits towards Early Childhood degree at Columbia Basin College.

INSTRUCTORS

Bobbie Lotz and Bonnie Hansen

NUMBER OF STUDENTS

18-24 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm.

CAREER OPPORTUNITIES

1. Elementary Teacher
2. Social Worker
3. Child Psychologist

LEARNING OBJECTIVES

1. Train students on working with young children and prepare them for the work force.

ACTIVITY DESCRIPTIONS

1. Large group instruction space for students
2. Laboratory for 27 preschool children.
3. Community preschool 2 times a week
4. Lab school, microphone recording for observation

SPACE REQUIREMENTS

EARLY CHILDHOOD EDUCATION

CURRENT INSTRUCTIONAL SPACE

The Early Childhood Education program's current instructional space includes a classroom, preschool, and outside area. The space does not meet the program's needs; an outdoor preschool area is desired.

EXISTING S.F.

3,464 SF

PROPOSED S.F.

Program to remain in current location, spaces to be redistributed.

ADJACENCIES

1. Teen parent program for child development
2. Pre-vet Tech
3. Fire Fighting
4. Outdoor access for play and parent drop off

CASEWORK

1. Kitchen cabinets
2. Preschool cubbies
3. High school lockers
4. Storage for art supplies

FINISHES

1. Carpet
2. Rubber Base
3. Tackable wall surfaces

4. Hard surfaces in kitchen, restrooms and art area.

SUPPORT SPACES

1. Office: for 2 staff (instructor and preschool director), requires a lot of windows
2. Observation space: 3-4 observe at once
3. Outdoor preschool
4. Toddler restroom
5. Adult restroom with shower
6. Indoor/outdoor storage

SPECIAL EQUIPMENT

1. Magnetic wall
2. Tackable wall surface
3. Mess wall for finger paints
4. Washer and dryer, shower, range, sink, dishwasher, microwave, and refrigerator
5. Aquarium
6. Art supplies
7. Outdoor toys

SPECIAL REQUIREMENTS

1. Dividing wall between classroom and preschool
2. Free standing structure for outdoor play school
3. 4’ high fence
4. Parent drop-off area
5. Restrooms for small children
6. Sidewalks used for tricycles

ACCESS AND SECURITY

1. Must be completely secure
2. Parent access

MECHANICAL REQUIREMENTS

EARLY CHILDHOOD EDUCATION

MECHANICAL

1. Early Childhood Ed and Pre-School to have separate HVAC zones with independent heating, cooling and ventilation control
2. Offices share thermostatic control with the adjoining classrooms
3. Classrooms to have CO2 sensors for demand control ventilation
4. Kitchenette to have residential type range hood over electric range
5. Clothes dryer exhaust in kitchenette area

PLUMBING

1. Classroom sinks to have bubblers
2. Plumbing for sink, dishwasher and clothes washer in kitchenette area

ELECTRICAL REQUIREMENTS

EARLY CHILDHOOD EDUCATION

LIGHTING

1. Separate lighting control zone for teaching wall.
2. Multiple zones of lighting control with dimming.
3. Simple lighting control devices (On/Off, Raise/Lower).
4. Low glare LED fixtures to reduce operating cost, maintenance and provide improved illumination.
5. Dimmable lighting in parent observation room.

POWER

1. Convenience receptacles on perimeter walls.
2. Tamper resistant receptacles in all spaces occupied by preschoolers.
3. Power for residential appliances in food preparation area including range, refrigerator, dishwasher and microwave.
4. Power for residential washer & dryer.

SYSTEMS

1. Audio/Visual projector system with controls on teaching wall.
2. Voice augmentation.
3. Data for Smartboard.
4. Data outlets for teacher.
5. Wireless Access Point in classroom.
6. Data and rough-in for surveillance cameras in classroom, all interior areas, and exterior play areas where preschoolers are present.
7. Clock & Intercom speaker with call-in switch in classroom.
8. Audio monitoring for parent observation room of teaching area.
9. Intercom horn at exterior play area.
10. Secure access control from exterior play area.
11. Lockdown visual indication in classroom and exterior play area.

PROGRAM REQUIREMENTS

ROOM #P201

LAW ENFORCEMENT

PROGRAM DESCRIPTION

The Law Enforcement program is an overview of the criminal justice system and the careers available in this growing field, including homeland security. Students will investigate the roles of local and state law enforcement agencies, federal agencies, corrections and supporting careers. Learning opportunities include: field trips to criminal justice and public service facilities. Students will receive training in critical analysis, conflict resolution, record keeping, technical writing, fingerprinting, investigative procedures, patrol procedures and criminal/traffic laws. Additional topics explored include the creation of laws, the difference between criminal and civil laws, and law enforcement ethics.

INSTRUCTOR

Brenda Buroker

NUMBER OF STUDENTS

26-30 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Corrections
2. Dispatcher
3. State and Local Law Enforcement

ACTIVITY DESCRIPTIONS

1. Role playing
2. Fitness training everyday
3. Classroom presentations
4. Case reviews
5. Reports for investigation

SPACE REQUIREMENTS

LAW ENFORCEMENT

CURRENT INSTRUCTIONAL SPACE

The Law Enforcement program is currently housed in a portable building that includes storage and a restroom. Additional classroom and outside space is desired.

EXISTING S.F.

1,696 SF

PROPOSED S.F.

3,000 SF

ADJACENCIES

1. Do not locate near Early Childhood Education
2. Computer lab
3. Outdoor recreation area

CASEWORK

1. Computer casework
2. Counters with upper and lower case work.
3. Lockers for exercise clothing
4. Additional white board teaching space.

FINISHES

1. Tackable wall surfaces required
2. Carpet or athletic surfaces
3. Area with easy to clean surfaces (program uses simulated blood)

SPECIAL EQUIPMENT

1. Additional computers- 15 total
2. Utility and hand wash sinks

3. Water fountain
4. Fitness equipment
5. Awards wall
6. CSI equipment

SUPPORT SPACES

1. Office
2. Lockable storage rooms
3. Restroom with shower
4. Dark room with vision windows

SPECIAL REQUIREMENTS

1. Shelves with lighting
2. Storage for cop cars
3. Open space is required
4. Precision driving course
5. Exercise field
6. A flexible space is desired
7. Current size of classroom is adequate
8. Utilize existing green house and Tri-tech east to run drills and investigations.

ACCESS AND SECURITY

1. Specialty equipment must be secure.
2. Storage rooms to be locking.

MECHANICAL REQUIREMENTS

LAW ENFORCEMENT

MECHANICAL

1. Classroom and office served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Additional cooling and ventilation capacity will be required for times of high physical exertion
3. Manual purge ventilation mode
4. CO2 sensor in the classroom for demand control ventilation
5. Exhaust for exercise area, restroom, shower and dressing room as required

PLUMBING

1. Classroom sinks with bubblers
2. Restroom and shower fixtures as required

ELECTRICAL REQUIREMENTS

LAW ENFORCEMENT

LIGHTING

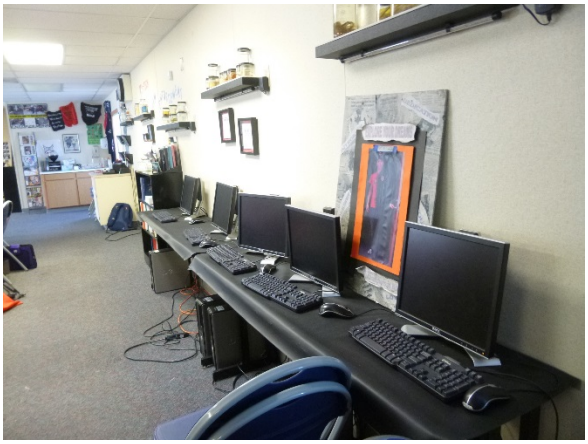
1. Separate lighting control zone for teaching wall.
2. Separate lighting control for Decision Making Simulator area.
3. Dimmable lighting by area (Teaching wall, general classroom area & Decision Making Simulator area).
4. Simple lighting control devices (On/Off, Raise/Lower).
5. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

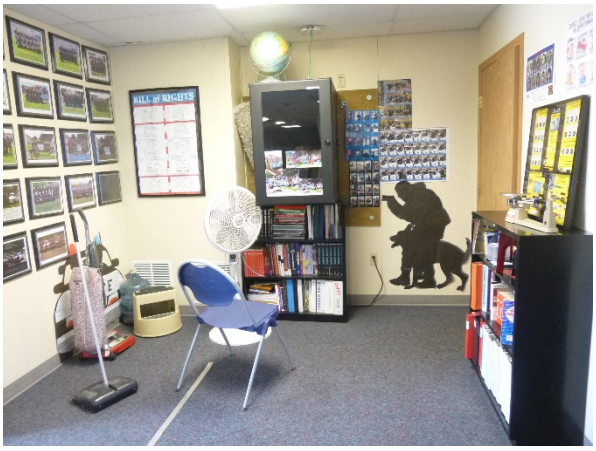
POWER

1. Convenience receptacles on perimeter walls.
2. Receptacles for computer counter with a dedicated circuit per 3-4 stations.
3. Power for Driving Simulator.
4. Power for Decision Making Simulator.
5. Receptacles in storage room for hand held radio chargers.

SYSTEMS

1. Audio/Visual projector system with controls on teaching wall.
2. Voice augmentation.
3. Data for smartboard.
4. Data outlets for computer counter and teaching area.
5. Wireless Access Point.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in classroom.
8. Lockdown visual indication in classroom.
9. Audio/Visual system for Decision Making Simulator.
10. Cable management for Driving Simulator & Decision Making Simulator.






ce to Perfection


E.N.F.O.R.C.E.M.E.N.T

PROGRAM REQUIREMENTS

ROOM #310

WELDING TECHNOLOGY

PROGRAM DESCRIPTION

The Welding program trains students in the basic skills of welding, cutting, shielded metal arc welding, gas metal welding, and many other topics. Other subjects taught include blueprint reading, layout, and the fabrication of welding projects. Welding Technology students can secure jobs in the shipyards and manufacturing and welding shops. Demand for welding apprentices are in sheet metal, iron working, pipefitting, and boiler making. Career opportunities for students include welder, fabricator, metal worker, pipefitter, boiler maker, and machinist.

INSTRUCTORS

Gina Cutts and assistant, Dustin Dunkin

NUMBER OF STUDENTS

35 per session

UTILIZATION HOURS

Monday to Thursday, 8 am to 6 pm;
Fridays 8 am to 2 pm

CAREER OPPORTUNITIES

1. Welder
2. Fabricator
3. Metal Worker

ACTIVITY DESCRIPTIONS

1. Shielded metal arc cutting
2. Fabrication of welded metal projects
3. Blueprint reading

SPACE REQUIREMENTS

WELDING TECHNOLOGY

CURRENT INSTRUCTIONAL SPACE

The Welding Technology program's current instructional space consists of a classroom, shop, and outside area.

EXISTING S.F.

7,474 SF

PROPOSED S.F.

Program to remain in current location, spaces to be redistributed.

ADJACENCIES

1. Advanced Precision Manufacturing

FINISHES

1. Non-reflective surfaces
2. VCT in classroom
3. Sealed concrete floors
4. Rubber Base
5. FRP on all walls
6. Epoxy Paint
7. Tackable wall surfaces

CASEWORK

1. Open shelving for storage
2. Half size lockers grouped together
3. Two desks and storage cabinet in office
4. Casework and counters are not used

SUPPORT SPACES

1. Men's and women's restrooms
2. Office for 2 instructors (adding another staff)
3. Tool room
4. Storage room: currently shared and upstairs
5. Gas and oxygen rooms

SPECIAL EQUIPMENT

1. New eye wash
2. Two (2) utility sinks
3. Grinding station
4. Bench grinder to be bolted to the floor

SPECIAL REQUIREMENTS

1. Additional lighting at north welding booths
2. 24 welding booths: access to leads above booths, double lot leads preferred
3. Outdoor space required
4. Equipment placement walls

ACCESS AND SECURITY

1. Number of exterior doors to be reduced
2. Loading requires special security

MECHANICAL REQUIREMENTS

WELDING TECHNOLOGY

MECHANICAL

1. Shop Area served by single-zone rooftop gas / DX unit for heating, cooling, and make up air, will need additional cooling in welding booth shop.
2. One roof exhaust fan for general exhaust/purge mode, manual control.
3. Relief louver from shop to exterior.
4. Three utility-set roof exhaust fans for 25-30 welding booths/snorkels.
5. Classroom and office served by a common single zone rooftop gas/DX unit for heating, cooling, and ventilation.
6. CO2 sensor in the classroom space for demand control ventilation.

PLUMBING

1. Classroom sinks, no bubblers
2. Wall mounted semi-circular wash sinks in the shop
3. Emergency Eye Wash in the shop
4. Refrigerated drinking fountain in shop

ELECTRICAL REQUIREMENTS

WELDING TECHNOLOGY

LIGHTING

1. Shop area lighting: full color spectrum color rendition with illumination for 50 foot candles minimum.
2. Shop area: enclosed lighting fixtures with smooth, easy to clean lenses.
3. Shop area lighting: time-off control and 50% reduction for vacancy.
4. Classroom lighting: fixtures with smooth, easy to clean lenses.
5. Separate lighting control zone for classroom teaching wall.
6. Dimmable classroom lighting by area (Teaching wall & general area).
7. Simple lighting control devices (On/Off, Raise/Lower) for classroom.
8. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Convenience receptacles on exterior walls of outside covered area.
2. Receptacles for classroom computer counter with a dedicated circuit per 3-4 stations.
3. Receptacles or power connections for welders.
4. Receptacle for portable welder in outside covered area.
5. Dedicated power circuits and receptacles for shop equipment.
6. Dedicated power circuits and receptacles for work benches.
7. Convenience receptacles on perimeter walls of shop & classroom.
8. Overhead cord reels for 120V power in shop area.
9. Overhead cord reels for 120V power in covered outside area.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for computer counter and teaching area.
5. Wireless Access Points in shop & classroom.
6. Clock & Intercom speaker with call-in switch in classroom.
7. Clock with large digital display in shop.
8. Paging horns in shop and outside covered area.
9. Security camera coverage of shop area.
10. Security camera coverage of outside covered area.
11. Lockdown visual indication in shop & classroom.

PROGRAM REQUIREMENTS

ROOM #240

DIESEL TECHNOLOGY

PROGRAM DESCRIPTION

The Diesel Technology program is designed to train individuals in the technical knowledge and mechanical skills required to service, repair, and test various types of machinery and equipment. The program includes instruction on the theory of internal combustion engines, diesel fuel systems, electrical, hydraulics, power trains, and machinery maintenance. The program also includes training in basic shop skills, safety, and instrumentation.

INSTRUCTORS

Lin Grant and Rob Brakett (Assistant)

NUMBER OF STUDENTS

25-30 each session

UTILIZATION HOURS

Monday to Friday, 8 am to 10:30 am

CAREER OPPORTUNITIES

1. Diesel Technician
2. Ag Mechanic
3. Heavy Equipment Technician

SPACE REQUIREMENTS

DIESEL TECHNOLOGY

CURRENT INSTRUCTIONAL SPACE

The Diesel Technology program is housed in a classroom, shop, and outside area. The shop's size is not adequate.

EXISTING S.F.

8,751 SF

PROPOSED S.F.

9,400 SF

ADJACENCIES

1. Automotive and Auto Body
2. Consider diesel exhaust (smell is an issue)
3. Consider noise pollution

CASEWORK

1. Tool box style drawers
2. Open shelving for tools
3. Casework for textbooks and manuals

FINISHES

1. Sealed concrete floors
2. Rubber Base
3. FRP on all walls
4. Epoxy Paint
5. Tackable wall surfaces

SUPPORT SPACES

1. Classroom
2. Offices (2)
3. Beginner students' room
4. Computer based classroom (all students need computers)
5. Storage building outside and 2 storage lofts
6. Tool storage room
7. Lockers for both school bags and coveralls.

SPECIAL EQUIPMENT

1. 16 w x OACD
2. 1 eyewash station
3. Power and compressed arm
4. Plugs and drains

SPECIAL REQUIREMENTS

1. Electrical training in loft
2. Additional lighting in mezzanine
3. Additional vehicle storage
4. Wall space needed for hanging
5. Additional lifts needed
6. Shop and classroom to be larger

ACCESS AND SECURITY

1. Better access to the shop- additional door needed

MECHANICAL REQUIREMENTS

DIESEL TECHNOLOGY

MECHANICAL

1. Shop Area served by single-zone rooftop gas / DX unit for heating, cooling, and make up air
2. One roof exhaust fan for general exhaust/purge mode, manual control
3. Relief louver from shop to exterior.
4. One utility-set roof exhaust fan for overhead vehicle exhaust snorkels
5. Classroom and office served by single zone rooftop gas/DX unit for heating, cooling, and ventilation
6. Computer lab served by single zone rooftop gas/DX unit for heating, cooling, and ventilation
7. Split AC system for computer lab server room.
8. CO2 sensor in the classroom for demand control ventilation

PLUMBING

1. No bubblers in classroom sinks
2. Oil/water separator on shop trench drains
3. Compressed air hose reals along perimeter of shop
4. Compressed air system w/ drier, coalescing, and particulate filter
5. Wall mounted semi-circular wash sinks in the shop
6. Emergency Eye Wash in the shop
7. Refrigerated drinking fountain in shop

ELECTRICAL REQUIREMENTS

DIESEL TECHNOLOGY

LIGHTING

1. Shop area lighting: full color spectrum color rendition with illumination for 50 foot candles minimum.
2. Shop area: enclosed lighting fixtures with smooth, easy to clean lenses.
3. Shop area lighting: time-off control and 50% reduction for vacancy.
4. Work bench task lighting.
5. Cord reels with magnetic base LED lights at service bays.
6. Separate lighting control zone for classroom teaching wall.
7. Dimmable classroom lighting by area (Teaching wall & general area).
8. Simple lighting control devices (On/Off, Raise/Lower) for classroom.
9. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

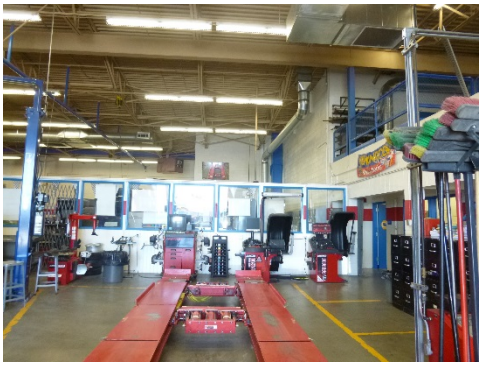
POWER

1. Convenience receptacles on exterior walls of outside covered area.
2. Receptacles for classroom computer counter with a dedicated circuit per 3-4 stations.
3. Dedicated power circuits and receptacles for shop and testing equipment.
4. Power connections to vehicle lifts.
5. Power for air compressor.
6. Dedicated power circuits and receptacles for work benches.
7. Dedicated circuit & multi-outlet assembly for battery charging in tool storage.
8. Convenience receptacles on perimeter walls of shop & classroom.
9. Overhead cord reels for 120V power at each service bay in shop area.
10. Overhead cord reels for 120V power in covered outside area.
11. Power for vehicle exhaust system.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for computer counter and teacher.
5. Wireless Access Points in shop & classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in classroom.
8. Clock with large digital display in shop.
9. Paging horns in shop and outside covered area.
10. Security camera coverage of shop area.
11. Security camera coverage of outside covered area.
12. Lockdown visual indication in shop & classroom.


Hertz




Hertz


Tide

PROGRAM REQUIREMENTS

ROOM #220

AUTOMOTIVE TECHNOLOGY

PROGRAM DESCRIPTION

The Auto Systems Technology program trains students for a variety of careers in the automotive industry. Participants will learn to service and diagnose vehicles, while learning engine fundamentals, maintenance, tune-up and repair, brake and suspension repair, and wheel alignment. The courses are taught by Automotive Service Excellence (ASE) Certified Technicians. The program prepares students to receive ASE certification in brakes, suspension and steering, electrical systems, and engine performance. In order to be successful in this program, students must have a good driving record.

INSTRUCTORS

Larry Brookes, Lin Grant, and Rob Brakett (Assistant)

NUMBER OF STUDENTS

28-30 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Automotive Technician
2. Brake Specialist
3. Alignment Technician

LEARNING OBJECTIVES

1. Diagnose and repair automobile and light truck systems.

ACTIVITY DESCRIPTIONS

1. Working on cars on hoists
2. Lectures and demonstrations in the classroom

SPACE REQUIREMENTS

AUTOMOTIVE TECHNOLOGY

CURRENT INSTRUCTIONAL SPACE

The Automotive Technology program's space consists of a classroom, shop, and outside teaching space and vehicle storage.

EXISTING S.F.

5,843 SF

PROPOSED S.F.

Program to remain in current location, spaces to be redistributed.

ADJACENCIES

1. Closeness to Auto Body and Diesel is ideal, however programs are not taught together
2. Welding
3. Full wall separation between Diesel and Auto Tech

CASEWORK

1. Open shelving in tool room
2. Storage for 60 coveralls- needs to be relocated
3. Work bench with closing cabinets for storage.
4. Open shelving at exterior.
5. Casework uppers and lowers with counter.
6. Full height cabinet storage.
7. Teaching wall with whiteboard.
8. Hand wash station

FINISHES

1. Sealed concrete floors
2. Rubber Base
3. FRP on all walls
4. Epoxy Paint
5. Tackable wall surfaces

6. Existing plywood walls are a durability issue in the shop. Need to be replaced with wipe able hard surfaces.

SUPPORT SPACES

1. Offices (2): Teacher and Assistants.
2. Classroom
3. Computer area in shop
4. Tool storage: needs to be larger than current space
5. Large storage for demo and parts.
6. Lockers for both school bags and coveralls.
7. Outdoor hoist
8. Wash bay

SPECIAL EQUIPMENT

1. Anti-freeze flush machine
2. Alignment hoist
3. Tire changer and balancer
4. Brake lathe
5. Roll up door
6. Front end hoist machine is currently a safety concern because of alignment
7. Easily accessible compressed air.
8. Drop down power.
9. Battery tender at every work station.
10. Water separator for air lines.
11. Exhaust air connections: currently in slab, prefer drop down connections to avoid tripping hazards.

SPECIAL REQUIREMENTS

1. Shop drainage needed with oil/water separator.
2. Work bench with cabinet to house ATECH equipment
3. Teaching station in classroom needs to be located in front or center of room (currently located in back of room).
4. Existing floor is uneven and patched, smooth floor surface with easy to clean finish is needed.
5. Class is split into small groups in order to better utilize teaching spaces.
6. Used oil and antifreeze containment.
7. Needs sound separation from neighboring programs.

ACCESS AND SECURITY

1. Vehicle access gate nearby. Instructor unlocks during emergencies and emergency drills.
2. Space contains vehicle access door and man door to the exterior.
3. Motorized access gate would be preferred.

MECHANICAL REQUIREMENTS

AUTOMOTIVE TECHNOLOGY

MECHANICAL

1. Shop Area served by single-zone rooftop gas / DX unit for heating, cooling and make up air
2. One roof exhaust fan for general exhaust/purge mode, manual control
3. Relief louver from shop to exterior.
4. One utility-set roof exhaust fan for overhead vehicle exhaust snorkels
5. Classroom and office served by single zone rooftop gas/DX unit for heating, cooling and ventilation
6. Computer lab served by single zone rooftop gas/DX unit for heating, cooling and ventilation
7. Split AC system for computer lab server room.
8. CO2 sensor in the classroom for demand control ventilation

PLUMBING

1. Classroom sinks, no bubblers
2. Oil/water separator on shop trench drains
3. Compressed air hose reals at each vehicle lift station, not extended from exterior walls

4. Compressed air system w/ drier, coalescing and particulate filter
5. Wall mounted semi-circular wash sinks in the shop
6. Emergency Eye Wash in the shop
7. Refrigerated type drinking fountain in shop

ELECTRICAL REQUIREMENTS

AUTOMOTIVE TECHNOLOGY

LIGHTING

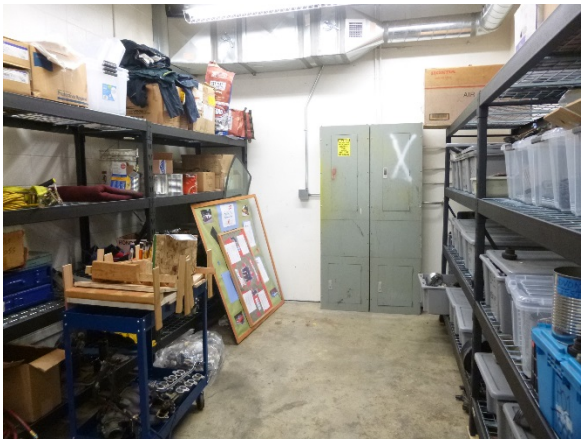
1. Shop area lighting full color spectrum color rendition with illumination for 50 foot candles minimum.
2. Shop area enclosed lighting fixtures with smooth easy to clean lenses.
3. Shop area lighting with time-off control and 50% reduction for vacancy.
4. Work bench task lighting.
5. Cord reels with magnetic base LED lights at service bays.
6. Separate lighting control zone for classroom teaching wall.
7. Dimmable classroom lighting by area (Teaching wall & general area).
8. Simple lighting control devices (On/Off, Raise/Lower) for classroom.
9. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Convenience receptacles on exterior walls of outside covered area.
2. Receptacles for classroom computer counter with a dedicated circuit per 3-4 stations.
3. Dedicated power circuits and receptacles for shop and testing equipment.
4. Power connections to vehicle lifts.
5. Power for air compressor.
6. Dedicated power circuits and receptacles for work benches.
7. Dedicated circuit & multi-outlet assembly for battery charging in tool storage.
8. Convenience receptacles on perimeter walls of shop & classroom.
9. Overhead cord reels for 120V power at each service bay in shop area.
10. Overhead cord reels for 120V power in covered outside area.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for computer counter and teacher.
5. Wireless Access Points in shop & classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in classroom.
8. Clock with large digital display in shop.
9. Paging horns in shop and outside covered area.
10. Security camera coverage of shop area.
11. Security camera coverage of outside covered area.
12. Lockdown visual indication in shop & classroom.




Mobil 1

PROGRAM REQUIREMENTS

ROOM #180

DIGITAL ARTS AND FILMMAKING

PROGRAM DESCRIPTION

The Digital Arts and Filmmaking program is designed for visual students who enjoy the creative process. The program helps students get a jump start into exciting careers in digital media, including graphic design, animation, social media, and film production. Students will be able to design and produce their own graphic materials and films, manage video libraries, as well as manage social media. They will also be introduced to interactive marketing and the role that digital media plays in a successful program. Qualifying students will have the opportunity to job shadow and intern at local multimedia companies, design firms, TV stations and independent production companies. The program will provide students the opportunity to express their personal creativity while developing the ability to conceptualize story ideas and effectively translate these ideas in film productions, animations, graphic designs and websites.

INSTRUCTOR

Mike Greif

NUMBER OF STUDENTS

22 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Graphic Artist
2. Web Designer
3. Filmmaker

SPACE REQUIREMENTS

DIGITAL ARTS AND FILMMAKING

CURRENT INSTRUCTIONAL SPACE

The Digital Arts and Filmmaking space includes a classroom, studio, and lab.

EXISTING S.F.

1,954 SF

PROPOSED S.F.

Program to remain in current location, spaces to be redistributed.

ADJACENCIES

1. Need sound isolation (taping and noise sensitive activities a few times a month)

CASEWORK

1. Casework is not used and could be removed
2. Open shelving in storage

FINISHES

1. Tackable wall surfaces
2. Carpet and VCT existing
3. Smooth surfaces in studio
4. Acoustical separation between green room and surrounding spaces.

SUPPORT SPACES

1. Studio: to be isolated and have acoustical treatments; a square room is desired; 2 layers of gypsum on ceiling
2. Dedicated teaching station
3. Not using all of storage (3)

SPECIAL EQUIPMENT

1. Smaller desk and stage in green room
2. TV in corridor looping students' work

3. Elevated, possibly mobile stage (13’ x 9’ stage)
4. New, smaller studio desk

SPECIAL REQUIREMENTS

1. Teaching space without computers is desired
2. Daylighting in classroom
3. Currently using only half of monitors in production/ monitor room (7-8 students in space)
4. Group work space
5. Corridor display

ACCESS AND SECURITY

1. Green room and control room must be secured when not in use.

MECHANICAL REQUIREMENTS

DIGITAL ARTS AND FILMMAKING

MECHANICAL

1. Classroom and office served by a common single zone rooftop gas/DX unit for heating, cooling, and ventilation
2. Additional cooling capacity required in the classroom to account for the computer heat load.
3. CO2 sensor in the classroom for demand control ventilation
4. Studio and recording room served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation.
5. Split AC systems for recording room to account for equipment cooling load

PLUMBING

No program requirements.

ELECTRICAL REQUIREMENTS

DIGITAL ARTS AND FILMMAKING

LIGHTING

1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.
5. TV studio lights on track system for flexibility
6. TV booth lighting on dimmer switches.

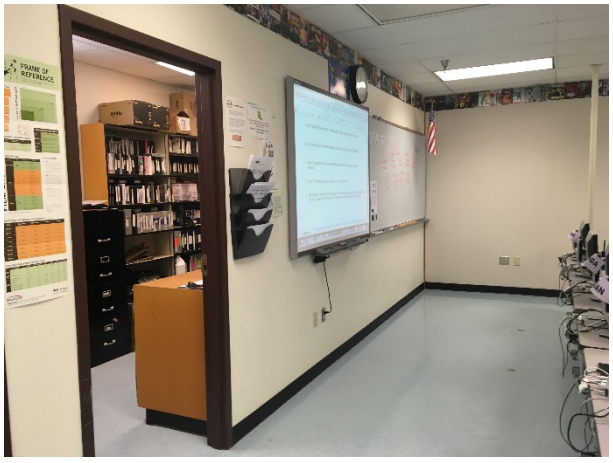
POWER

1. Convenience receptacles on perimeter walls.
2. Circuits and receptacles for 20-25 computers with a dedicated circuit per 3-4 stations.
3. Use power poles for classroom computers to provide flexibility for future classroom configuration. Feed power poles above ceiling with MC Cable and provide 15’ coiled service loops.
4. Receptacles for (2) countertop printers.
5. TV Studio: Receptacles on wall and ceiling track for portable lighting.
6. Receptacles in booth for equipment rack and computers.

7. Dedicated circuit & multi-outlet assembly for battery charging in classroom and storage.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for 20-25 student computers and teacher in classroom.
5. Data outlets in control booth & TV Studio.
6. Wireless Access Point in classroom.
7. Data and rough-in for classroom surveillance cameras.
8. Clock & Intercom speaker in classroom.
9. Clock in TV studio & Booth.
10. Lockdown visual indication in classroom, studio & control booth.
11. Floor trench duct for cabling between TV Studio broadcast table & control booth.
12. TV monitor facing into Commons to show TV Studio broadcast.



PROGRAM REQUIREMENTS

ROOM #170

RADIO BROADCASTING

PROGRAM DESCRIPTION

The Radio Broadcasting and Production program teaches students how to convey their ideas on the radio. You may have the best and brightest ideas but if you are unable to convey them, no one will ever know. In this program you will hone your communication skills every day. You will demonstrate your skills by running 88.1, a student-operated radio station. You will learn to speak and present to small and large groups, record music, produce and record announcements and gain experience in the music entertainment industry. Students have the opportunity to participate in job shadow and internships throughout the year.

INSTRUCTOR

Ed Dailey

NUMBER OF STUDENTS

22-25 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Promoter
2. Music Recorder
3. Radio Broadcaster
4. Public Relations / Communications

LEARNING OBJECTIVES

1. Enhance communication skills

ACTIVITY DESCRIPTIONS

1. Operate a radio station
2. Present to large and small groups
3. Produce and record announcements and music

SPACE REQUIREMENTS

RADIO BROADCASTING

CURRENT INSTRUCTIONAL SPACE

The Radio Broadcasting program's current instructional space includes a classroom, studios, and a radio studio.

EXISTING S.F.

1,729 SF

PROPOSED S.F.

Program to remain in current location, spaces to be redistributed.

ADJACENCIES

1. Location is locked in because of transmitter location
2. Direct access to outside for equipment

CASEWORK

1. Storage for student portfolio work

FINISHES

1. Tackable wall surfaces
2. No hard surfaces- acoustics is an issue
3. Rubber base
4. Acoustic ceiling tile

SUPPORT SPACES

1. Production Room: 2 students; current size is adequate
2. Control Room: current size is adequate; vision window is critical
3. Transmitter Room
4. Recording Rooms: (2) record storage

SPECIAL EQUIPMENT

1. Main operating system
2. Radio transmitting equipment
3. Recording studio equipment
4. Computers

SPECIAL REQUIREMENTS

1. Sound and acoustics are critical; limit noise between spaces
2. AM radio/ tower extension
3. Radio may go digital
4. Radio tower needs retrofitting or replacing- same tower can be used for digital

ACCESS AND SECURITY

1. Transmitter must be locked
2. Radio tower secured so it cannot be climbed
3. Tower requires testing every week for compliance

MECHANICAL REQUIREMENTS

RADIO BROADCASTING

MECHANICAL

1. Classroom and office served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation.
2. Studios served by a common VAV rooftop gas/DX unit for heating, cooling and ventilation with VAV terminal units at each studio for individual control of space temperature.
3. CO2 sensor in the classroom for demand control ventilation

PLUMBING

1. No program requirements.

ELECTRICAL REQUIREMENTS

RADIO BROADCASTING

LIGHTING

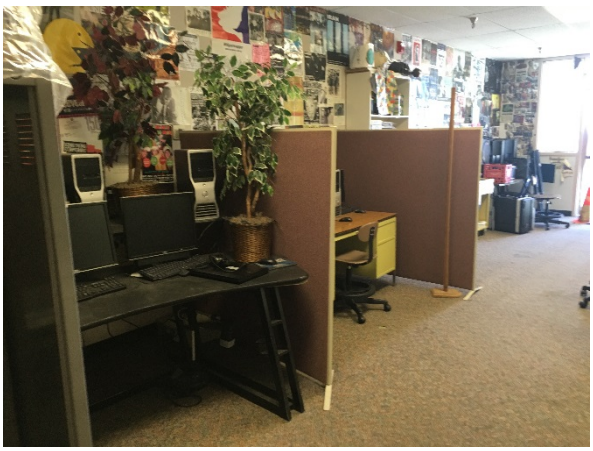
1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Convenience receptacles on perimeter walls.
2. Receptacles for classroom computer counter for 3-4 stations.
3. Power for radio transmitter.
4. Receptacles and power for broadcast booths.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Wireless Access Point in classroom.
5. Data and rough-in for classroom surveillance cameras.
6. Clock & Intercom speaker in classroom.
7. Clock in Broadcast Booths.
8. Lockdown visual indication in classroom.




NO SMOKING
AMERICA

PROGRAM REQUIREMENTS

ROOM #120,125

PRE NURSING

PROGRAM DESCRIPTION

The Pre Nursing program has been developed to meet the needs of students interested in the medical field. The program prepares students for initial certification as a Nursing Assistant as well as continued training in nursing and health care. Students spend time in the classroom and clinical settings learning many procedures for patient care including blood pressure, temperature, pulse and respiration, as well as learning how to bathe, groom, feed, transfer, position and exercise patients. During this time students will become familiar with anatomy, physiology, signs and symptoms and prevention of disease. A portion of the year is spent in a supervised clinical experience working with patients.

INSTRUCTORS

Kathy McKinley and Roger Potts

NUMBER OF STUDENTS

35 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Nursing Assistant
2. Registered Nurse
3. Physician's Assistant

SPACE REQUIREMENTS

PRE NURSING

CURRENT INSTRUCTIONAL SPACE

The Pre Nursing program's current instructional space consists of a classroom and lab.

EXISTING S.F.

3,400 SF

PROPOSED S.F.

Program to remain in current location, spaces to be redistributed.

ADJACENCIES

1. Two classrooms (Mr. Potts)

CASEWORK

1. Cubbies for books desired in teaching classroom
2. Casework for 3 sinks
3. All current casework is used, additional needed.
4. Current counter space is adequate

FINISHES

1. VCT or similar
2. Wipeable surfaces above sinks
3. Tack boards
4. Wall wainscot (FRP) with tackable above

SUPPORT SPACES

1. Storage: for beds and equipment
2. Linen closet
3. Office
4. 2nd Classroom: (Mr. Potts) office, cubbies, 3 sinks desired

SPECIAL EQUIPMENT

1. Two new electronic beds with Call Systems (no oxygen and lights)
2. Dedicated fax line (CS)
3. Glove dispensers (5 slots)
4. Small table and chair/s at each bed
5. 5 sets of curtains needed
6. Movable equipment and furniture

SPECIAL REQUIREMENTS

1. Natural lighting is desired
2. 4’ wide doors
3. Mannequin storage in classroom
4. Space for 6-7 students around beds
5. Foot operated paper towel dispensers
6. Lab and skills to be taught in both classrooms

ACCESS AND SECURITY

1. Locking storage and supplies

MECHANICAL REQUIREMENTS

PRE NURSING

MECHANICAL

1. Both classrooms (Theory, Practical) served by single zone rooftop gas/DX units for independent control of heating, cooling and ventilation. Adjoining support spaces to be on the same systems.
2. CO2 sensor in the classroom for demand control ventilation

PLUMBING

1. Classroom sinks to have faucets with wrist-blade style handles or foot pedal controls.
2. Medical gas headboard fixtures along wall in classroom, not plumbed

ELECTRICAL REQUIREMENTS

PRE NURSING

LIGHTING

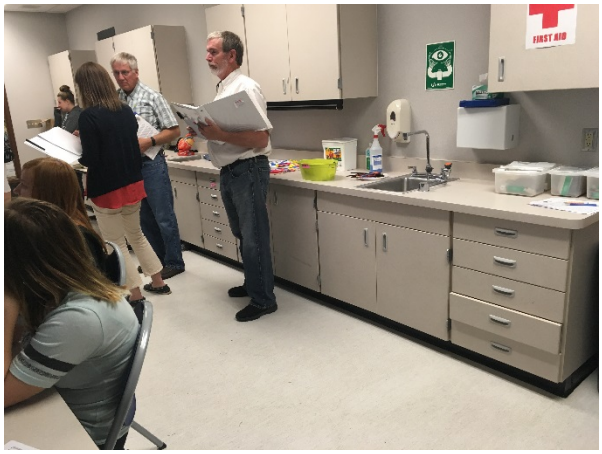
1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall, general classroom area & patient bed stations).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.
5. Power & switch for black light at hand sanitizing sink.

POWER

1. Convenience receptacles on perimeter walls.
2. Receptacles for classroom computer counter with a dedicated circuit per 3-4 stations.
3. Receptacles for patient beds. Devices should be color coded and labeled for normal and emergency power to simulate a real hospital patient bed location.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Wireless Access Point in classroom.
5. Data and rough-in for classroom surveillance cameras.
6. Clock & Intercom speaker in classroom.
7. Lockdown visual indication in classroom.
8. Patient bed areas to have nurse call to simulate a real hospital patient bed location.


FIRST AID


2015 - 2016

PROGRAM REQUIREMENTS

ROOM #150

VIDEO GAME DESIGN

PROGRAM DESCRIPTION

The objective of the Video Game Design program is to create technology. The program focuses on computer animation and programming for video games. In the Video Game Design program, students are trained in object-oriented programming languages, paradigms, and software engineering techniques and practices. Participants will also study the core building blocks of computer mathematics using trigonometry and higher math, computer programming in C++, 2D and 3D computer animation, and computer science.

INSTRUCTOR

Mat Adelmund

NUMBER OF STUDENTS

24 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Computer Programmer
2. Computer Animator
3. Computer Software Engineer

SPACE REQUIREMENTS

VIDEO GAME DESIGN

CURRENT INSTRUCTIONAL SPACE

The Video Game Design program's current instructional space is a computer lab.

EXISTING S.F.

1,336 SF

PROPOSED S.F.

1,720 SF

ADJACENCIES

1. Cyber Security
2. Main Corridor

CASEWORK

1. Counter space works well (no need for sinks)
2. Casework storage

FINISHES

1. Carpet
2. Rubber base
3. Tackable wall and whiteboard surface

SUPPORT SPACES

1. Office
2. Storage

SPECIAL EQUIPMENT

1. Corridor TV to display

SPECIAL REQUIREMENTS

1. Doors to computer labs are not necessary
2. Program has its own MAP/ share drive
3. Windows/ daylighting is desired
4. Current layout is difficult to maneuver around- center aisle is desired

ACCESS AND SECURITY

1. Classroom to be locking to secure computers and shared drive equipment.

MECHANICAL REQUIREMENTS

VIDEO GAME DESIGN

MECHANICAL

1. Classroom and office served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Additional cooling capacity will be required in the classroom to account for the computer heat load
3. CO2 sensor in the classroom for demand control ventilation
4. If required, split AC system for the server room

PLUMBING

1. No program requirements.

ELECTRICAL REQUIREMENTS

VIDEO GAME DESIGN

LIGHTING

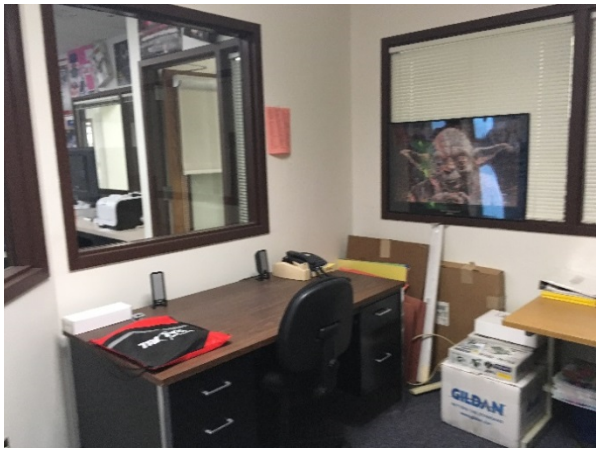
1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Convenience receptacles on perimeter walls.
2. Circuits and receptacles for 20-25 computers with a dedicated circuit per 3-4 stations.
3. Use power poles for classroom computers to provide flexibility for future classroom configuration. Feed power poles above ceiling with MC Cable and provide 15’ coiled service loops.
4. Receptacles for (2) countertop printers.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for 20-25 student computers and teacher in classroom.
5. Wireless Access Point in classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in classroom.
8. Lockdown visual indication in classroom.




Math=
Success
Go figure!


SKYLANDERS

PROGRAM REQUIREMENTS

ROOM #P204

COMPUTER SCIENCE & CYBER SECURITY

PROGRAM DESCRIPTION

The Computer Science and Cyber Security program is designed to prepare students for the fast growing and ever important industry of cyber security. Students learn about computer hardware, networking, IT security, and Linux. Successful students will graduate the program with the tools and skills to enter the industry as an entry level IT security administrator. Students shall also be prepared for industry recognized certifications. The program utilizes a current, web based curriculum that is available to students 24/7.

INSTRUCTOR

Craig Coleman

NUMBER OF STUDENTS

24 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Programmer
2. Intelligence Analysist
3. Software Developer

LEARNING OBJECTIVES

1. Computer programming
2. Network hardware configuration
3. Server configuration
4. Micro controller development
5. Wireless hardware configuration

ACTIVITY DESCRIPTIONS

1. Network cable management
2. Computer hardware management
3. Networking hardware

SPACE REQUIREMENTS

COMPUTER SCIENCE & CYBER SECURITY

CURRENT INSTRUCTIONAL SPACE

The Computer Science & Cyber Security program's current instructional space is a classroom and computer lab.

EXISTING S.F.

862 SF

PROPOSED S.F.

2,360 SF

ADJACENCIES

1. Manufacturing
2. Digipen

CASEWORK

1. Counters with upper and lower casework
2. Sink in shop
3. Work benches

FINISHES

1. Resilient flooring
2. Rubber base
3. Tackable wall surfaces

SUPPORT SPACES

1. Classroom
2. Shop

3. Storage for portfolios, books, extra computers and keyboards, mice, Raspberry Pis and Arduinos
4. Server rack to model server management
5. Storage for test computers, donation computers, and recycled electrons.
6. Ethernet raceway to model cable management
7. 3D printers

SPECIAL EQUIPMENT

1. Smartboard and work station on special network
2. Teacher work station for special network and KSD network
3. Server rack
4. Custom wireless access point mounted on wall or ceiling
5. Soldering station- safety lights

SPECIAL REQUIREMENTS

1. Teaching wall
2. Classroom and shop can be combined into one larger room for sight line observation
3. Standing work surfaces are ideal
4. Race way/ cable tray exposed
5. Separate network- level 7 switch

ACCESS AND SECURITY

1. Need secure location for local servers
2. Locking storage

MECHANICAL REQUIREMENTS

COMPUTER SCIENCE & CYBER SECURITY

MECHANICAL

1. Classroom and office served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Additional cooling capacity will be required in the classroom to account for the computer heat load
3. CO2 sensor in the classroom for demand control ventilation
4. Split AC system to serve the server room if required
5. Roof exhaust fan with snorkels at soldering station, manual control

PLUMBING

1. Classroom sinks, no bubblers

ELECTRICAL REQUIREMENTS

COMPUTER SCIENCE & CYBER SECURITY

LIGHTING

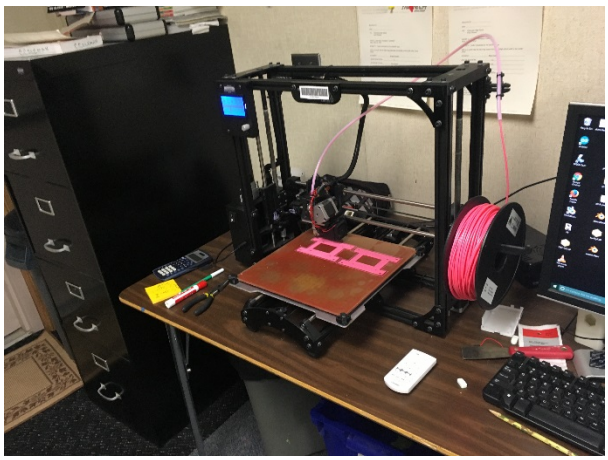
1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.
5. Task lighting over work benches.

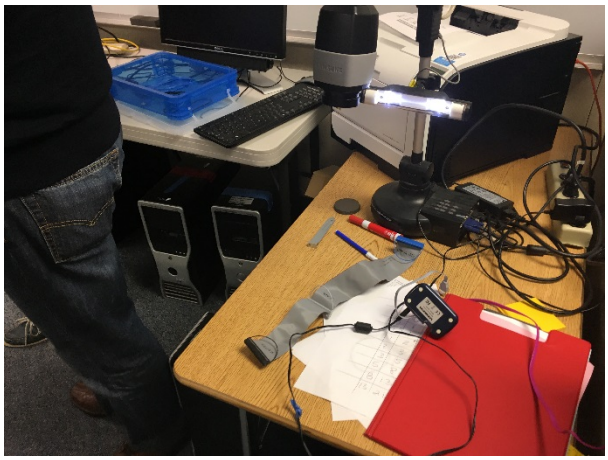
POWER

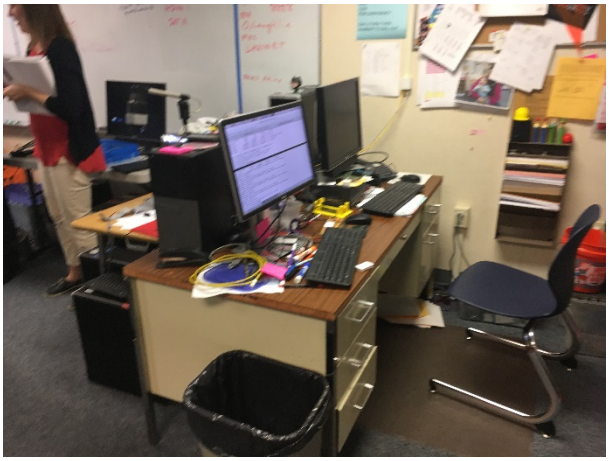
1. Convenience receptacles on perimeter walls.
2. Circuits and receptacles for 20-25 computers with a dedicated circuit per 3-4 stations.
3. Use power poles for classroom computers to provide flexibility for future classroom configuration. Feed power poles above ceiling with MC Cable and provide 15' coiled service loops.
4. Receptacles for (2) countertop printers.
5. Work bench receptacles for soldering and assembly controlled by a master switch.
6. Power for server rack located in classroom.
7. Power to network switch cabinet.

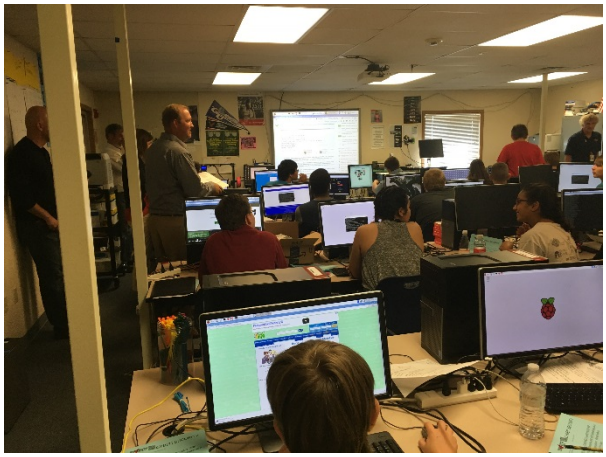
SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for 20-25 student computers and teacher in classroom.
8. Data outlets on perimeter walls.
5. Wireless Access Point in classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in classroom.
8. Lockdown visual indication in classroom.
9. Server rack in classroom with ladder tray above.
10. Cable tray on wall below ceiling to wrap room.









PROGRAM REQUIREMENTS

ROOM #105, 110

DENTAL ASSISTING

PROGRAM DESCRIPTION

The Dental Assisting program teaches students oral anatomy, sterilization, disinfection, oral pathology, preventive dentistry, and radiography (X-rays). Other program objectives include chair side procedures, mouth impressions and study models, safety standards, observations, and internships. In order to succeed, students must be able to communicate clearly and work both independently and on a team in diverse environments. In addition, good hand-eye coordination and manual dexterity are important.

INSTRUCTORS

Sherrie Croshaw and Shelley Hill (dental assistant)

NUMBER OF STUDENTS

35-40 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Dental Assistant
2. Dental Hygienist
3. Lab Tech
4. Dental Sales Representative

LEARNING OBJECTIVES

1. Developing x-rays
2. Dental assisting procedures
3. Sterilization
4. Knowledge of dental instruments
5. Coronal polishing

ACTIVITY DESCRIPTIONS

1. Group lectures and activities
2. Create study models and impressions
3. Dental instrument lessons

SPACE REQUIREMENTS

DENTAL ASSISTING

CURRENT INSTRUCTIONAL SPACE

The Dental Assisting program's instructional space consists of a classroom, sterile dental lab, and a non-sterile dental lab.

EXISTING S.F.

2,900 SF

PROPOSED S.F.

Program to remain in current location, spaces to be redistributed.

ADJACENCIES

1. Not required to be adjacent to other programs

FINISHES

1. Rubber tile flooring
2. Rubber Base
3. FRP on all walls
4. Epoxy Paint
5. Tackable wall surfaces

CASEWORK

1. Metal student lockers (35 per session)
2. Casework for instruments, similar to dental office set up
3. Acid storage cabinets
4. Fixed lab coat storage

SUPPORT SPACES

1. Classrooms (2)
2. X-ray Rooms (2): with sinks and x-ray button outside door, transmits data to computer
3. Suction room
4. Learning lab
5. Office: for 2 staff
6. Dark Room (may not be used in the future)

SPECIAL EQUIPMENT

1. Vacuum/ air compressor
2. Developer/ dark room
3. Computers in the lab area
4. Motion sensor towels- use basket for towels
5. Foot controls on patient chairs, power in floor box near chairs is desired.

SPECIAL REQUIREMENTS

1. Cross contamination is an issue
2. Locking storage rooms
3. Two teaching walls
4. Sterilization and non-sterilization stations (with signage)
5. Lab requires visual display
6. Hazardous chemical storage
7. Backpack and lab coat storage
8. Leaning space for coronal polishing
9. Impression stations

ACCESS AND SECURITY

1. Locking storage for chemicals and equipment

MECHANICAL REQUIREMENTS

DENTAL ASSISTING

MECHANICAL

1. Dental procedure and support areas served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation.
2. Classroom and office served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
3. Roof exhaust fan to remove heat from vacuum pump and compressor room
4. Vacuum pump vent through roof
5. CO2 sensor in the classroom for demand control ventilation

PLUMBING

1. Procedure area sink faucets with wrist blade handles or foot controls
2. Emergency eye wash
3. Fully functional dental chairs (water, suction, air) with utilities fed from below each chair

ELECTRICAL REQUIREMENTS

DENTAL ASSISTING

LIGHTING

1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (teaching wall & general classroom area).
3. Simple lighting control devices (on/off, raise/lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.
5. Low glare lighting located over patient chairs.

POWER

1. Convenience receptacles on perimeter walls.
2. Receptacles for classroom computer counter with a dedicated circuit per 3-4 stations.
3. Power for air compressor.
4. Power for countertop sterilizing equipment.
5. Power for X-Ray machines.
6. Power for film viewers and/or digital charting display monitor.
7. Power to patient chairs through floor trench system.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Floor trench system for patient chair power, water, vacuum lines, etc.
5. Wireless Access Point in classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in Lab area.
8. Clock & Intercom speaker in classroom.
9. Lockdown visual indication in classroom and clinics.


NOTICE

PROGRAM REQUIREMENTS

PROPOSED PROGRAM

3D ANIMATION

PROGRAM DESCRIPTION
New program. Similar to Video Game Design.

INSTRUCTOR
1

NUMBER OF STUDENTS
24

UTILIZATION HOURS
Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Specialized Printer
2. Digital Art

ACTIVITY DESCRIPTIONS

1. Hand drawing
2. Digital media

SPACE REQUIREMENTS

3D ANIMATION

CURRENT INSTRUCTIONAL SPACE
Proposed.

PROPOSED S.F.
1,370 SF

ADJACENCIES

1. Cyber Security
2. Digipen
3. Advanced Precision Manufacturing

CASEWORK

1. Lower and upper casework with counters
2. Storage for art supplies

FINISHES

1. Rubber tile flooring
2. Rubber Base
3. FRP on all walls
4. Epoxy Paint
5. Tackable wall surface

SUPPORT SPACES

1. Classroom
2. Work room for students
3. Storage

SPECIAL EQUIPMENT

1. Sinks (2)
2. CNC machine
3. Tablet storage
4. AV projector

SPECIAL REQUIREMENTS

1. Computer lab with open table areas
2. Teaching wall
3. 24 computer stations needed
4. Open space for drawing

ACCESS AND SECURITY

1. Locking storage

MECHANICAL REQUIREMENTS

3D ANIMATION

MECHANICAL

1. Classroom and office served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Additional cooling capacity will be required in the classroom to account for the computer heat load
3. CO2 sensor in the classroom for demand control ventilation
4. Split AC system to serve the server room if required

PLUMBING

1. No program requirements.

ELECTRICAL REQUIREMENTS

3D ANIMATION

LIGHTING

1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Convenience receptacles on perimeter walls.
2. Circuits and receptacles for 20-25 computers with a dedicated circuit per 3-4 stations.
3. Use power poles for classroom computers to provide flexibility for future classroom configuration. Feed power poles above ceiling with MC Cable and provide 15’ coiled service loops.
4. Receptacles for (2) countertop printers.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for 20-25 student computers and teacher in classroom.
5. Wireless Access Point in classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in classroom.
8. Lockdown visual indication in classroom.

PROGRAM REQUIREMENTS

PROPOSED PROGRAM

PHYSICAL & OCCUPATIONAL THERAPY

PROGRAM DESCRIPTION
New program, no description yet.

INSTRUCTOR
To be determined.

NUMBER OF STUDENTS
24 each session

UTILIZATION HOURS
Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Physical Therapist Assistant
2. Occupational Therapist Assistant
3. Personal Trainer
4. Physical Therapist
5. Strength Coach

SPACE REQUIREMENTS

PHYSICAL AND OCCUPATIONAL THERAPY

CURRENT INSTRUCTIONAL SPACE
Proposed.

PROPOSED S.F.
3,013 SF

ADJACENCIES

1. Can be independent

CASEWORK

1. Casework in lab, uppers and lowers with counter.

FINISHES

1. Athletic floor in gym
2. Carpet in classroom
3. Rubber Base
4. FRP on all walls
5. Epoxy Paint
6. Tackable wall surfaces

SUPPORT SPACES

1. Classroom
2. Gym
3. Office
4. Mock exam room

SPECIAL EQUIPMENT

1. Equipment list to be determined.

SPECIAL REQUIREMENTS

1. Walled office
2. Walled storage
3. Reuse of engine bay?
4. Daylighting

ACCESS AND SECURITY

1. Equipment room to be locking.

MECHANICAL REQUIREMENTS

PHYSICAL AND OCCUPATIONAL THERAPY

MECHANICAL

1. Classroom and office served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Additional cooling and ventilation capacity will be required for times of high physical exertion
3. General exhaust fan for manual purge ventilation mode
4. CO2 sensor in the classroom for demand control ventilation
5. Exhaust for restroom, shower and dressing room as required

PLUMBING

1. Classroom sinks, no bubblers.
2. Restroom and shower fixtures as required

ELECTRICAL REQUIREMENTS

PHYSICAL AND OCCUPATIONAL THERAPY

LIGHTING

1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Convenience receptacles on perimeter walls.
2. Receptacles for classroom computer counter with a dedicated circuit per 3-4 stations.
3. Power/receptacles for work out equipment.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for computer counter and teacher.
5. Wireless Access Point in classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in classroom.
8. Lockdown visual indication in classroom.

PROGRAM REQUIREMENTS

ROOM #P202

TEEN PARENT NURSERY

PROGRAM DESCRIPTION
Nursery to support Teen Parent program. Operates in partnership with the Boys' and Girls' Club.

NURSERY SUPERVISOR
Joy White, Nursery Supervisor
3-6 staff

NUMBER OF CHILDREN
12 infants, 12 toddlers per session

UTILIZATION HOURS
Monday to Friday, 8 am to 2 pm

SPACE REQUIREMENTS

TEEN PARENT NURSERY

CURRENT INSTRUCTIONAL SPACE
Nursery.

EXISTING S.F.
1,594 SF

PROPOSED S.F.
Program to remain in current location

ADJACENCIES
1. Teen Parenting
2. Outdoor play space

CASEWORK
1. Kitchen casework and food storage
2. Toy cubbies
3. Kids cubbies

FINISHES
1. Carpet
2. Rubber tile
3. Rubber base
4. Tack board
5. FRP walls

SUPPORT SPACES
1. Staff breakroom
2. Kitchen- used for preparing breakfast, lunch, and snacks
3. Office
4. Restrooms with toddler sized fixtures

SPECIAL EQUIPMENT
1. Playground

SPECIAL REQUIREMENTS
1. Separation of toddlers and infants
2. Direct access to play area is desired
3. Observation space for parents (vision windows)
4. Parents enter by sign in sheet and come and go

ACCESS AND SECURITY
1. Exterior door locked at all times
2. Second surveillance at door

MECHANICAL REQUIREMENTS

TEEN PARENT NURSERY

MECHANICAL

1. Nursery and support spaces served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Residential type range hood over electric range

PLUMBING

1. Kitchenette with sink, dishwasher

ELECTRICAL REQUIREMENTS

TEEN PARENT NURSERY

LIGHTING

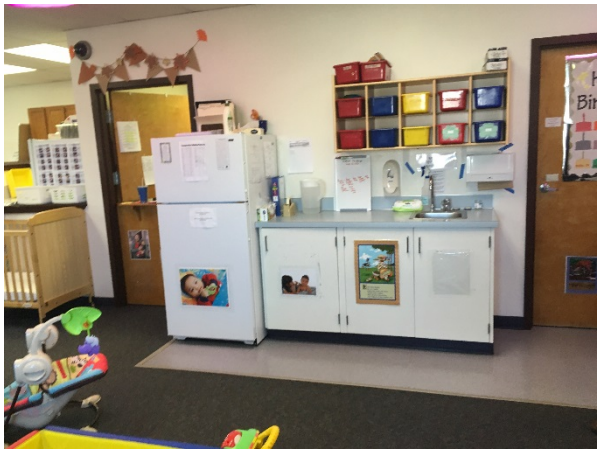
1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Convenience receptacles on perimeter walls.
2. Tamper resistant receptacles in all spaces occupied by infants.
3. Power for residential appliances in food preparation area including stovetop, refrigerator, dishwasher and microwave.
4. Power for residential washer & dryer.
5. Power for nursery refrigerator.
6. Power for copier/printer/fax.

SYSTEMS

1. Data outlets for staff.
2. Data for copier/printer.
3. Landline for fax.
4. Wireless Access Point in nursery.
5. Clock & Intercom speaker with call-in switch in nursery.
6. Lockdown visual indication in Nursery.
7. Access intercom at parent door.
8. Data and rough-in for nursery surveillance cameras with parent viewing access.



PROGRAM REQUIREMENTS

ROOM #P202

TEEN PARENTING

PROGRAM DESCRIPTION

This course is for high school age students who are or are about to become parents. The program teaches parenting skills. Enrollment is open throughout the year and day care is provided on a space-available basis.

INSTRUCTOR

Julie Stott

NUMBER OF STUDENTS

10-20 per session

UTILIZATION HOURS

Monday to Friday, 8 am to pm

LEARNING OBJECTIVES

1. Parenting skills
2. Budgeting

SPACE REQUIREMENTS

TEEN PARENTING

CURRENT INSTRUCTIONAL SPACE

Classroom and small cooking lab.

EXISTING S.F.

1,594 SF

PROPOSED S.F.

Program to remain in current location.

ADJACENCIES

1. Adjacency to Nursery and Early Childhood Ed would be beneficial
2. Can be remote

CASEWORK

1. Craft storage
2. Kitchen cabinets

SUPPORT SPACES

1. Office
2. Kitchen
3. Restrooms with changing table
4. Storage with IDF, filing, and computer station

SPECIAL EQUIPMENT

1. Computers
2. Sewing machine
3. Range, oven, microwave and refrigerator

SPECIAL REQUIREMENTS

1. Similar to Family Consumer Science (FCS) program
2. Enhanced venting needed

MECHANICAL REQUIREMENTS

TEEN PARENTING

MECHANICAL

1. Classroom and support spaces served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Residential type range hood over electric range

PLUMBING

1. No program requirements in the classroom.
2. Kitchenette with sink, dishwasher.

ELECTRICAL REQUIREMENTS

TEEN PARENTING

LIGHTING

1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

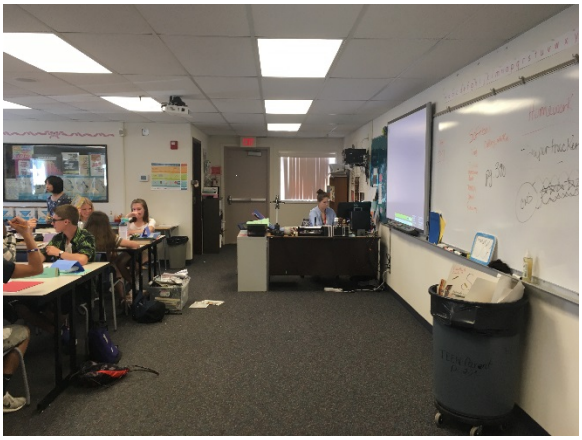
POWER

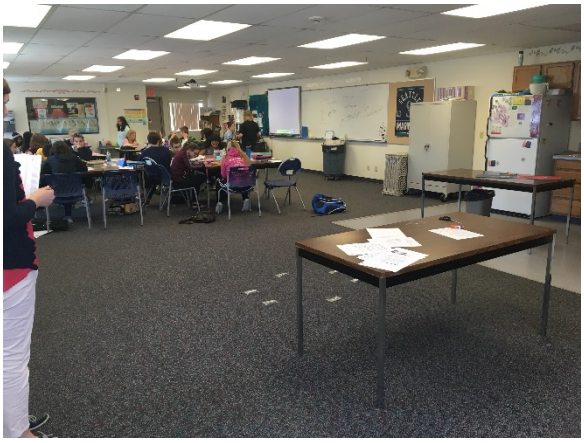
1. Convenience receptacles on perimeter walls.
2. Receptacles for classroom computer counter with a dedicated circuit per 3-4 stations.
3. Power for residential appliances in food preparation area including refrigerator, dishwasher and microwave.
4. Power for countertop printer.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for computer counter and teacher.
5. Wireless Access Point in classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Data and rough-in for classroom surveillance cameras.
8. Clock & Intercom speaker in classroom.
9. Lockdown visual indication in classroom.


SWEET
POISON





PROGRAM REQUIREMENTS

ROOM #125

PRE VET TECH

PROGRAM DESCRIPTION

The Pre-Veterinary Technician program is designed to prepare individuals to enter the animal health care field. Students will become familiar with anatomy, physiology and basic terminology. Areas of training are: safety and zoonotic diseases, restraint techniques, physical examination and patient history, client education and dental care. The program includes both theory and practical application of skills and concepts. Students will gain hands on experience in area clinics. After completion of the program, the student is well prepared to enter a college Vet Tech program or have a good start on their way to becoming a veterinarian.

INSTRUCTOR

Shelley Leatherwood

NUMBER OF STUDENTS

24 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Private Clinics and Hospitals
2. Humane Societies
3. Zoo and Wildlife Management

SPACE REQUIREMENTS

PRE VET TECH

CURRENT INSTRUCTIONAL SPACE

Classroom, science lab, and work areas.

EXISTING S.F.

1,686 SF

PROPOSED S.F.

Program to remain in current location.

ADJACENCIES

1. Exterior access for clients to enter.

CASEWORK

1. Existing casework and storage sufficient.
2. Sinks in counters.
3. Reception counter.

FINISHES

1. New flooring desired- could be concrete
2. Rubber base
3. FRP walls

SUPPORT SPACES

1. Classroom
2. Office
3. Storage
4. Exam room
5. Pet wash room
6. Reception Counter

SPECIAL EQUIPMENT

1. Wash station
2. POS
3. Exam equipment
4. Exam tables

SPECIAL REQUIREMENTS

1. Observation windows.

ACCESS AND SECURITY

1. Exterior entry to be secured

MECHANICAL REQUIREMENTS

PRE VET TECH

MECHANICAL

1. Procedure and support areas served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation.
2. Classroom served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
3. CO2 sensor in the classroom for demand control ventilation

PLUMBING

1. No program requirements in the classroom
2. Foot controls on sink faucets in procedure area

ELECTRICAL REQUIREMENTS

PRE VET TECH

LIGHTING

1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Convenience receptacles on perimeter walls.
2. Receptacles for classroom computer counter with a dedicated circuit per 3-4 stations.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for computer counter and teacher.
5. Wireless Access Point in classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in classroom.
8. Lockdown visual indication in classroom.


welcome


E7
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E9
E10
E11
E12
B3


This is a Positive Thinking Area!


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PROGRAM REQUIREMENTS

SATELLITE LOCATION

COSMETOLOGY

The Cosmetology program is contracted out to local cosmetology schools and are considered satellite locations. This program is not included in the scope of the project.

PROGRAM REQUIREMENTS

PROPOSED PROGRAM

ADVANCED PRECISION MANUFACTURING

PROGRAM DESCRIPTION

New program, no program description. Designing, fabricating, and machining parts.

INSTRUCTOR

To be determined

NUMBER OF STUDENTS

24 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Manufacturing
2. Fabrication

LEARNING OBJECTIVES

1. Safety procedures
2. Common terms and industry expectations
3. Material properties

ACTIVITY DESCRIPTIONS

1. Digital design and machine fabrications.

SPACE REQUIREMENTS

ADVANCED PRECISION MANUFACTURING

CURRENT INSTRUCTIONAL SPACE

Proposed.

PROPOSED S.F.

2,400 SF

ADJACENCIES

1. Cyber Security

FINISHES

1. Sealed concrete floors
2. Rubber Base
3. FRP on all walls
4. Epoxy Paint
5. Tackable wall surfaces

SUPPORT SPACES

1. Classroom
2. Office
3. Material storage
4. Computer lab
5. Shop

SPECIAL EQUIPMENT

1. Overhead door
2. Specialized equipment such as a CNC machine
3. Dust collection

SPECIAL REQUIREMENTS

1. Unique exhaust and power needs

ACCESS AND SECURITY

1. Secured storage and shop.

MECHANICAL REQUIREMENTS

ADVANCED PRECISION MANUFACTURING

MECHANICAL

1. Classroom and support space served by single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Additional cooling capacity required in the classroom to account for the computer heat load.
3. Shop Area served by single-zone rooftop gas / DX unit for heating, cooling and make up air.
4. Relief louver from shop to exterior.
5. Utility-set roof exhaust fan for shop exhaust hood, manual control
6. CO2 sensor in the classroom for demand control ventilation

PLUMBING

1. Classroom sinks with bubblers
2. Wall mounted semi-circular wash sinks in shop
3. Emergency Eye Wash in the shop
4. Drinking fountain in shop

ELECTRICAL REQUIREMENTS

ADVANCED PRECISION MANUFACTURING

LIGHTING

1. Shop area lighting full color spectrum color rendition with illumination for 50 foot candles minimum.
2. Separate lighting control zone for teaching wall.
3. Dimmable lighting by area (Teaching wall & general classroom area).
4. Simple lighting control devices (On/Off, Raise/Lower).
5. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Convenience receptacles on perimeter walls.
2. Circuits and receptacles for 20-25 computers with a dedicated circuit per 3-4 stations.
3. Use power poles for classroom computers to provide flexibility for future classroom configuration. Feed power poles above ceiling with MC cable and provide 15’ coiled service loops.
4. Receptacles for (2) countertop printers.
5. Power for shop equipment (CNC, etc.).
6. Power for exhaust system.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for 20-25 student computers and teacher in classroom.
5. Data for network connected shop equipment (CNC, etc.).
6. Wireless Access Point in classroom.
7. Data and rough-in for classroom surveillance cameras.
8. Clock & Intercom speaker in classroom.
9. Lockdown visual indication in classroom.

PROGRAM REQUIREMENTS

PROPOSED PROGRAM

SUSTAINABLE TECHNOLOGIES

PROGRAM DESCRIPTION

New program. This program teaches students climate control management, construction and maintenance of alternative energy sources including wind, solar, hydro, and geo thermal. Students will develop an entry level understanding of principles and repair of HVAC systems. There are many career opportunities in this fast growing field.

INSTRUCTOR

1

NUMBER OF STUDENTS

24 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Climate control HVAC Technician
2. Wind turbine Technician

LEARNING OBJECTIVES

1. Residential solar integration
2. Obtain understanding of renewable energies industry and trades

SPACE REQUIREMENTS

SUSTAINABLE TECHNOLOGIES

CURRENT INSTRUCTIONAL SPACE

Proposed

PROPOSED S.F.

1,696 S.F.

ADJACENCIES

No adjacencies required

CASEWORK

1. Upper and lower case work with counter
2. Work benches

FINISHES

1. Sealed concrete floors
2. Rubber Base
3. FRP on all walls
4. Epoxy Paint
5. Tackable wall surface

SUPPORT SPACES

1. Classroom
2. Shop
3. Office

MECHANICAL REQUIREMENTS

SUSTAINBLE TECHNOLOGIES

MECHANICAL

1. Classroom and support space served by single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Shop Area served by single-zone rooftop gas / DX unit for heating, cooling and make up air.
3. Relief louver from shop to exterior.
4. Utility-set roof exhaust fan for shop exhaust hood, manual control
5. CO2 sensor in the classroom for demand control ventilation

PLUMBING

1. Classroom sinks, no bubblers
2. Wall mounted semi-circular wash sinks in shop
3. Emergency Eye Wash in the shop
4. Refrigerated type drinking fountain in shop

ELECTRICAL REQUIREMENTS

SUSTAINABLE TECHNOLOGIES

LIGHTING

1. Shop area lighting full color spectrum color rendition with illumination for 50 foot candles minimum.
2. Separate lighting control zone for teaching wall.
3. Dimmable lighting by area (Teaching wall & general classroom area).
4. Simple lighting control devices (On/Off, Raise/Lower).
5. LED fixtures to reduce operating cost, maintenance and provide improved illumination.
6. Task lighting over work benches.

POWER

1. Convenience receptacles on perimeter walls.
2. Receptacles for classroom computer counter with a dedicated circuit per 3-4 stations.
3. Overhead cord reels for 120V power at each service bay in shop area.
4. Receptacles at work benches.
5. Power connections or receptacles for test equipment.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for computer counter and teacher.
5. Wireless Access Point in classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in classroom.
8. Lockdown visual indication in classroom.

PROGRAM REQUIREMENTS

ROOM #340

HEALTH INFORMATICS

PROGRAM DESCRIPTION

From entry level positions in a hospital or health care facility to the chief executive responsible for all system wide patient information systems, the career opportunities are limitless for those students who enjoy working with people and are good with technology. This program is designed for students interested in a health care career but not in hands on patient care. Successful completers of our program will be proficient in basic vitals, anatomy/ physiology, medical terminology, medical coding, electronic records, scheduling/reception, and all information privacy requirements. Students will have the opportunity to participate in off-site internships. Health informatics specialists will work in hospitals, physician offices, medical billing companies, insurance companies and electronic medical records companies

INSTRUCTOR

Kristel Kinder

NUMBER OF STUDENTS

20 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

CAREER OPPORTUNITIES

1. Insurance Claims and Processing
2. Hospital Registration and Scheduling
3. Doctor's Office
4. Healthcare Scribes

SPACE REQUIREMENTS

HEALTH INFORMATICS

CURRENT INSTRUCTIONAL SPACE

Classroom and IT work area.

EXISTING S.F.

1,117 SF

PROPOSED S.F.

Program to remain in current location.

ADJACENCIES

1. No adjacencies required.

CASEWORK

1. Storage for paperwork and supplies.
2. Sink

FINISHES

1. Carpet
2. Rubber Base
3. Tackable wall surface

SUPPORT SPACES

1. Classroom
2. Office

SPECIAL EQUIPMENT

1. Computers
2. Sinks

SPECIAL REQUIREMENTS

1. Used as a flex space
2. Current space is adequate

ACCESS AND SECURITY

1. Classroom to be lockable

MECHANICAL REQUIREMENTS

HEALTH INFORMATICS

MECHANICAL

1. Classroom and office served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Additional cooling capacity will be required in the classroom to account for the computer heat load
3. CO2 sensor in the classroom for demand control ventilation
4. Split AC system to serve the server room if required

PLUMBING

1. Classroom sinks, no bubblers

ELECTRICAL REQUIREMENTS

HEALTH INFORMATICS

LIGHTING

1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

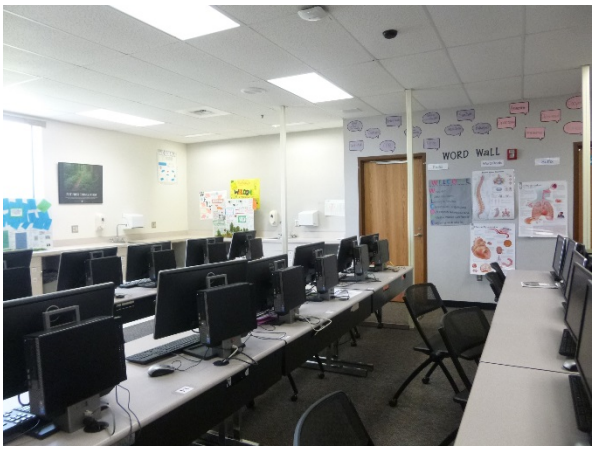
POWER

1. Convenience receptacles on perimeter walls.
2. Circuits and receptacles for 20-25 computers with a dedicated circuit per 3-4 stations.
3. Use power poles for classroom computers to provide flexibility for future classroom configuration. Feed power poles above ceiling with MC Cable and provide 15’ coiled service loops.
4. Receptacles for (2) countertop printers.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for 20-25 student computers and teacher in classroom.
5. Wireless Access Point in classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker with call-in switch in classroom.
8. Lockdown visual indication in classroom.


Intersection of
IT


WORD WALL

PROGRAM REQUIREMENTS

ROOM #205

CULINARY ARTS

PROGRAM DESCRIPTION

Culinary Arts at Tri-Tech is designed to prepare students for a promising career in the food or hospitality industry. Your training will prepare you to work in restaurants, hotels and resorts. Participants learn kitchen procedures, sanitation and safety, dining room service, menu planning and costing, baking / food preparation, banquet and catering service, hosting and storeroom management. The well-respected Sodexo Corporation is and instruction partner for this program. You will receive training towards American Culinary Federation Certification.

INSTRUCTORS

LuAnne Wiles, Kathleen Claymore (Assistant), and Catering Manager

NUMBER OF STUDENTS

42 per session

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm
After hours service to community including Café service and catering.
Adult evening classes.

CAREER OPPORTUNITIES

1. Chef
2. Pastry Chef
3. Restaurateur

SPACE REQUIREMENTS

CULINARY ARTS

CURRENT INSTRUCTIONAL SPACE

Classroom/ lab, instructional kitchen, dining.

EXISTING S.F.

5,686 SF

PROPOSED S.F.

11,600 SF

ADJACENCIES

1. Prep and cooking areas should be adjacent
2. Commons
3. Main entry

FINISHES

1. Carpet in classroom
2. Quarry tile in Kitchen and Demonstration space
3. Rubber Base
4. FRP on all walls
5. Epoxy Paint
6. Tackable wall surface

CASEWORK

1. Lockers for students
2. Additional open storage, height restrictions
3. Student lockers
4. Open shelving in storage rooms.

SPECIAL EQUIPMENT

1. Washer and dryer
2. Custodial mop sink
3. in Demonstration classroom
4. Grease trap (cleaned once a year)

5. Kitchen equipment: reach in fridge/ freezer, grill, steam kettle, buffalo chopper, deep fryer in demonstration classroom
6. Benches near oven for baking

SUPPORT SPACES

1. Classroom (2)
2. Offices (2)
3. Demonstration classroom: all pull down power; one large demonstration table; camera or screen; current equipment is adequate
4. Serving area
5. Café/ event center: about 3000 SF; 120-200 occupants for events; elegant (currently too industrial) and flexible; catering business; would like the space to function like a restaurant; additional natural light; movable walls
6. Prep kitchen: mixing station; all mobile equipment; power from above; floor drain; additional open storage; no walls; more counter space for demonstrations and working; currently is crowded
7. Catering storage (2): 1.5 times more space needed
8. Dry storage: 1.5 times more storage
9. Walk-in cooler and freezer: 1.5 times more space needed; mobile units are helpful
10. Restroom and changing area.

SPECIAL REQUIREMENTS

1. Table and chair storage
2. Storefront
3. Loading dock and dumpster- 2 deliveries a week
4. Staging zone for events between kitchen and café/ event center
5. Additional working counter surfaces
6. Dish wash area for 4-5 students, possibly a rolling rack
7. Upgraded, mid-sized equipment
8. Mixing stations lined up with safety cages

ACCESS AND SECURITY

1. Exterior access for catering and deliveries

MECHANICAL REQUIREMENTS

CULINARY ARTS

MECHANICAL

1. Kitchen and support spaces served by a common single zone rooftop gas/DX unit for heating, cooling and minimum ventilation. Make-up air for hood exhaust provided by a separator make-up air unit with gas heat, no cooling.
2. Cul Arts served by a single zone rooftop gas/DX unit for heating, cooling, ventilation and makeup air for the demonstration kitchen hood
3. Café to be provided split AC system for supplemental cooling.
4. Type I grease removal hoods with roof exhaust fans, fire wrapped grease ducts, fire suppression system
5. Type II vapor hoods with roof exhaust fans
6. Dishwasher hood with roof exhaust fan
7. Split AC systems for Walk-in freezer and cooler per food service consultant

PLUMBING

1. Plumbing connections for Kitchen equipment including prep sinks, pot sinks, scullery sink with garbage disposal, dishwasher, and convection ovens
2. Plumbing connections for appliances such as coffee makers, ice makers, etc. in the kitchen, culinary arts room, and the café.
3. Floor drains and floor sinks will be provided as required
4. Grease interceptor outside the building

ELECTRICAL REQUIREMENTS

CULINARY ARTS

LIGHTING

1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.
5. Full spectrum color rendition lighting with illumination for 50 foot candles minimum in kitchen and demonstration areas.
6. Manual switching with nighttime sweep off in kitchen.

POWER

1. Convenience receptacles on perimeter walls of classroom.
2. Circuits and receptacles for food service equipment.
3. Power for refrigeration systems.
4. GFCI receptacles for 120V food service equipment.
5. Receptacles for Point Of Sale.
6. Power & control to shutdown gas solenoids under type 1 hood.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data for Point Of Sale.
5. Wireless Access Point in classroom and kitchen.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in classroom.
8. Clock & Intercom for kitchen.
9. Lockdown visual indication in classroom and Kitchen.
10. Delivery bell system.
11. Access control for delivery.
12. Audio sound system for restaurant area.

KITCHEN CONSULTANT COMMENTS

CULINARY ARTS

PROGRAM

To create a larger, more spacious kitchen with mobile work tables placed in and around all cooking pods. The current classroom size is 30, but the program would like to increase that to about 42 students per session. A cold prep area will be created. Larger aisle ways and large island tables utilized for banquet plating and group work areas. The key is flow, efficiency, and flexibility. Chefs should not have to take more steps to equipment and work areas than necessary. Mobile, refrigerated work boxes are helpful. A possibility is to design the walk-in coolers to not only store food, but to utilize service doors near cooking areas, along with accompanying cold boxes next to the cooking lines. The new kitchen must feed the Event Center (occupancy 240) and serve the catering business.

WALK IN COOLER & FREEZER

Increase size by about 20 percent

DRY STORAGE ROOM

Increase size by about 20 percent

CATERING STORAGE ROOM

Enlarged and the addition of a camera

COOKING AND PREP AREAS

Larger aisles to create more space for students to work

BAKERY SPACE

Enlarge to include new support equipment, including:

1. Dough Sheeter
2. Deck Oven
3. Convection Oven
4. Mini Rotating oven

SCULLERY AREA

1. Larger and more efficient
2. Utilize a 2-rack conveyor Dish machine

SERVING/ WAITRESS STATION

More efficient

CLASSROOM

Increase size

EVENT CENTER

1. Relaxed atmosphere, similar to an upscale campus dining area
2. Additional natural light
3. Verify any increase in seating
4. Reconfigure the banqueting plating system

STEAM COOKING POD

1. Floor Troughs
2. Tilting skillet
3. Tilting steam kettle
4. Convection steamer

SAUTE COOKING AREA

Enlarge to include new equipment pieces.

EQUIPMENT

Include the following equipment to increase efficiency of the ‘short order’ cooking line:

1. Salamander Broiler
2. Broiler
3. Grill
4. Fryer

1. All equipment to be on casters
2. Utilize electrical drop cords to easy movement of small equipment
3. Blast Chiller
4. Additional mobile work tables with above counter storage

PROGRAM REQUIREMENTS

ROOM #160A

COUNSELING AND CAREER SERVICES

PROGRAM DESCRIPTION

This space is open to all students, who come to the Career Center to get guidance and help with college and careers.

INSTRUCTOR

Karen Sunk, Para Professional

NUMBER OF STUDENTS

6- 10

UTILIZATION HOURS

Monday to Friday, 8 am to 2 pm

ACTIVITY DESCRIPTIONS

1. Job searches
2. Resume and cover letter assistance
3. Scholarship applications

SPACE REQUIREMENTS

COUNSELING AND CAREER SERVICES

CURRENT INSTRUCTIONAL SPACE

Career center with computers and tables.

EXISTING S.F.

427 SF

PROPOSED S.F.

Program to remain in current location.

ADJACENCIES

1. Shared building computer lab

CASEWORK

1. Lower cabinets for filing.

FINISHES

1. Carpet or VCT
2. Rubber Base
3. Tackable wall surface

SPECIAL EQUIPMENT

1. Computer stations
2. White board

SUPPORT SPACES

1. Shared building computer lab
2. Teaching station

SPECIAL REQUIREMENTS

1. Power and data for computer stations

MECHANICAL REQUIREMENTS

COUNSELING AND CAREER SERVICES

MECHANICAL

1. Served by a common single zone rooftop gas/DX unit for heating, cooling, and ventilation.

PLUMBING

1. No program requirements.

ELECTRICAL REQUIREMENTS

COUNSELING AND CAREER SERVICES

LIGHTING

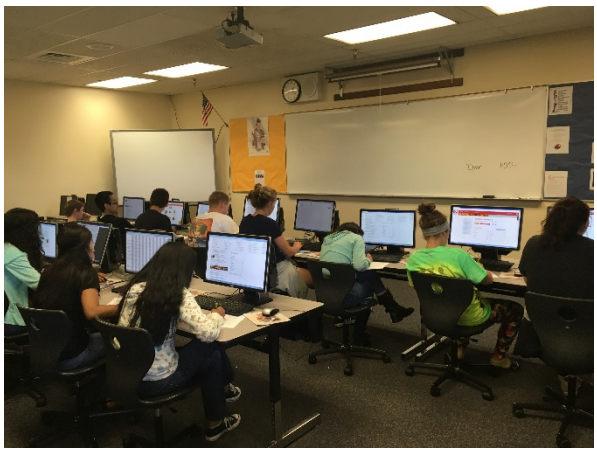
1. Dimmable lighting.
2. Simple lighting control devices (On/Off, Raise/Lower).
3. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Convenience receptacles on perimeter walls.
2. Receptacles for computers with a dedicated circuit per 3-4 stations.
3. Power for copier/printer/printer/fax.

SYSTEMS

1. Data outlets for computers.
2. Wireless Access Point.
3. Clock & Intercom speaker.
4. Lockdown visual indication in counseling center.
5. Data for copier/printer.
6. Landline for fax.



PROGRAM REQUIREMENTS

ROOM #300

ACADEMIC SUPPORT

PROGRAM DESCRIPTION
Serves the 0 and 7th hours- before and after school. Works as an extra computer lab.

STAFF
Leslie Rutz and Special Ed Para Professional

NUMBER OF STUDENTS
20 students maximum

UTILIZATION HOURS
Before and after school.

ADJACENCIES
Can be located anywhere in the building, however centrally located and adjacent to the circulation corridor is ideal

LEARNING OBJECTIVES

1. Support academic needs of students
2. Provide additional opportunity for students to take academic classes.

SPACE REQUIREMENTS

ACADEMIC SUPPORT

CURRENT INSTRUCTIONAL SPACE
The Academic Support program's current instructional space is a classroom and computer lab.

ACCESS AND SECURITY

1. Secure locking storage for files

SPECIAL EQUIPMENT

1. Visual projector (re use existing)

EXISTING S.F.
860 SF

PROPOSED S.F.
860 SF

SPECIAL REQUIREMENTS

1. Two teaching desks at the front of room
2. 16-20 computer stations
3. Used for Teen Parenting too, 6- 7 students
4. Little or no direct instruction

CASEWORK

1. Storage casework; current amount of storage is adequate
2. Lockable storage closets

MECHANICAL REQUIREMENTS

ACADEMIC SUPPORT

MECHANICAL

1. Served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Additional cooling capacity will be required in the classroom to account for the computer heat load
3. CO2 sensor in the classroom for demand control ventilation

PLUMBING

1. No program requirements.

ELECTRICAL REQUIREMENTS

ACADEMIC SUPPORT

LIGHTING

1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Convenience receptacles on perimeter walls.
2. Circuits and receptacles for 20 computers with a dedicated circuit per 3-4 stations.
3. Use power poles for classroom computers to provide flexibility for future classroom configuration. Feed power poles above ceiling with MC Cable and provide 15’ coiled service loops.
4. Receptacles for (2) countertop printers.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for 20 student computers and teacher in classroom.
5. Wireless Access Point in classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in classroom.
8. Lockdown visual indication in classroom.

PROGRAM REQUIREMENTS

ROOM #160

SHARED BUILDING COMPUTER LAB

PROGRAM DESCRIPTION
All programs use this space as a support space.

INSTRUCTOR
Karen Sunk, Para Professional

NUMBER OF STUDENTS
30

UTILIZATION HOURS
Monday to Friday, 8 am to 2 pm
Evening activities

ACTIVITY DESCRIPTIONS

1. Job searches
2. Scholarship applications
3. Outside training (ASE professional evaluation)

SPACE REQUIREMENTS

SHARED BUILDING COMPUTER LAB

CURRENT INSTRUCTIONAL SPACE
Computer lab and career center.

EXISTING S.F.
1,290 SF

PROPOSED S.F.
3,420 SF

ADJACENCIES

1. Central location
2. Career center

CASEWORK

1. Casework upper and lower cabinets with counter

FINISHES

1. Carpet
2. Rubber base
3. Tack board

SUPPORT SPACES

1. Computer lab
2. Career center: current space is adequate, for 10 occupants
3. Support room: about 120 SF
4. Storage room for projectors and AV cords

SPECIAL EQUIPMENT

1. White board
2. Smart board

SPECIAL REQUIREMENTS

1. Teaching wall
2. Teacher work space
3. Do not need office
4. Para professional work station
5. Computer room can be reserved by a teacher

ACCESS AND SECURITY

1. Computer lab to be locking

MECHANICAL REQUIREMENTS

SHARED BUILDING COMPUTER LAB

MECHANICAL

1. Served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Additional cooling capacity will be required in the classroom to account for the computer heat load
3. CO2 sensor in the classroom for demand control ventilation

PLUMBING

1. No program requirements.

ELECTRICAL REQUIREMENTS

SHARED BUILDING COMPUTER LAB

LIGHTING

1. Separate lighting control zone for teaching wall.
2. Dimmable lighting by area (Teaching wall & general classroom area).
3. Simple lighting control devices (On/Off, Raise/Lower).
4. LED fixtures to reduce operating cost, maintenance and provide improved illumination.

POWER

1. Convenience receptacles on perimeter walls.
2. Circuits and receptacles for 20-25 computers with a dedicated circuit per 3-4 stations.
3. Use power poles for classroom computers to provide flexibility for future classroom configuration. Feed power poles above ceiling with MC Cable and provide 15’ coiled service loops.
4. Receptacles for (2) countertop printers.

SYSTEMS

1. Classroom Audio/Visual projector system with controls on teaching wall.
2. Classroom voice augmentation.
3. Data for smartboard in classroom.
4. Data outlets for 20-25 student computers and teacher in classroom.
5. Wireless Access Point in classroom.
6. Data and rough-in for classroom surveillance cameras.
7. Clock & Intercom speaker in classroom.
8. Lockdown visual indication in classroom.

SUPPORT SPACES

ADMINISTRATIVE SPACES

MAIN RECEPTION/ SECRETARY AREA

1. (3) Administration offices, (3) Secretary stations and (1) part time station.
2. Restrooms
3. Administration and Faculty Work rooms are needed

CONFERENCE ROOMS

1. Two (2) conference rooms are needed
2. One large conference room for 12+ occupants
3. One small parent conference room

FACULTY LOUNGE/ STAFF BREAK ROOM

1. Needs to be larger
2. Used by bus drivers
3. Does not need to be adjacent to Administration
4. Kitchenette, including a Dishwasher
5. Receives heavy use
6. PLC's meet in this space
7. Copy Room to be adjacent to Faculty Lounge
8. Do not need a projector

HEALTH ROOM/ NURSE OFFICE

1. A Health Room is needed
2. Nurse's Office currently operates out of WIC Office one day a week

MECHANICAL REQUIREMENTS

1. Offices served by a common single zone rooftop gas/DX unit for heating, cooling and ventilation
2. Conference room served by separate single zone rooftop gas/DX unit for heating, cooling and ventilation with CO2 sensor in the room for demand control ventilation
3. Residential range rood over electric range in break room

PLUMBING REQUIREMENTS

1. Break room sink and dishwasher

ELECTRICAL REQUIREMENTS

1. LED lighting would work well in all spaces

SUPPORT SPACES

SPECIAL INSTRUCTION SPACES

MULTI PURPOSE

1. Receives heavy use
2. Has enhanced auto system
3. Current design and size is working well
4. Fits 100-125 people

COMMONS

1. Space is at capacity
2. Occupancy of about 460
3. Space functions okay for day to day
4. Tile floors are desired

MECHANICAL REQUIREMENTS

1. Served by a single zone rooftop gas/ DX unit for heating, cooling, and ventilation.
2. CO2 sensor in the room for demand control ventilation

PLUMBING REQUIREMENTS

1. Refrigerated type drinking fountains in Commons

ELECTRICAL REQUIREMENTS

1. LED lighting would work well in all spaces

SUPPORT SPACES

RELATED SERVICES SPACES

RESTROOMS

1. Possibly not ADA compliant
2. Tile floors are desired
3. FRP walls are desired

CORRIDORS

1. Concrete floors are desired
2. Currently has hard lid ceilings- ACT ceilings are desired for easier above ceiling access
3. FRP walls are desired

CUSTODIAL CLOSETS

1. Current spaces are adequate
2. Custodial closet is needed for Tri Tech East
3. Currently 4 mop closets
4. The custodial space in Welding currently holds larger equipment

LOADING DOCK

1. Currently only used for the kitchen
2. Does not affect maintenance

SUPPORT SPACES

DARLENE SHOENROCK

OPERATIONS AND MAINTENANCE

1. Shop to be concrete with all-purpose sealer, Therma gloss plus

GENERAL PROGRAM COMMENTS

MECHANICAL REQUIREMENTS

MECHANICAL SYSTEMS

1. All mechanical systems to be controlled by a Web-accessible, Direct Digital Controls (DDC) system to control and monitor all HVAC equipment, space temperatures, and selected exterior lighting systems. Each Classroom and major program space will have individual scheduling, heating, cooling and ventilation controls.
2. Toilet and shower room exhaust will be provided by centrifugal roof exhausters with either wall switches or tied into the lighting control occupancy sensors.
3. Single zone air handling units will be located on the roof. Where feasible units will be located away from the spaces they serve to reduce the transmission of noise into the occupied areas.

PLUMBING SYSTEMS

1. Classroom, dental, nursing, and other major program area sinks will be heavy-duty stainless steel for longevity and ease of maintenance. Lab sinks if required will typically be integral to the architectural casework with mechanical providing the plumbing such as faucets, traps and stops.
2. Art classroom and Project rooms if required will have under-sink plaster traps.
3. Restrooms to have wall hung water closets and urinals sensor-operated flush valves and wall hung/counter mounted lavatories with sensor-operated faucets.
4. Drinking fountains will be dual-level, refrigerated type with bottle filling station.
5. Mop sinks will be provided at Custodian rooms.
6. Floor drains will be provided in all toilet rooms, custodian rooms, kitchen and mechanical rooms.
7. A central gas-fired, water heating system will be provided.
8. A central gas-fired water heater with thermostatic mixing valve will serve the Kitchen fixtures and dishwasher as well as all the general use plumbing fixtures.
9. Domestic hot water systems will have pumped circulation to maintain water temperature at the fixtures.
10. Water softeners will provide conditioned water to the water heater system.
11. Water heaters, water softeners, and pumps will all be located in the 2nd floor/mezzanine mechanical room adjacent to the existing Automotive Technology.

ELECTRICAL REQUIREMENTS

1. LED lighting would work well in all spaces

Tri-Tech Skills Center - Program Questionnaire

Title of Program: Auto Systems

Instructor's Name: Larry Brookes

Number of Students per Session: 24-30 Number of Faculty per Session: 2

Program Description: See Attached

Learning Objectives: Students diagnose & repair systems of the automobile/light trucks using hand held test equipment and stationary machines in a "live" simulated environment.

Student Activities within the Classroom Space: Everything related to Automotive Service except engine & transmission rebuilding. Students are working in lab on hoists, flat stalls and computers. Students are also working in the classroom in a Lecture/demo mode.

Unique or Specialty Equipment Required: Alignment hoist, hoists, brake lathe tire changer/balancer

Support Spaces – other than Classroom (storage, office, lab, work stations, etc.): Outdoor hoist, wash bay.

June 2016 – Ed Specs/Space Programming -- Please attach second sheet, if additional information provided.

Program Description

AUTOMOTIVE SYSTEMS TECHNOLOGY

Learn to diagnose and repair today's complex and technological advanced vehicles in a job like atmosphere. This two year course is taught by ASE Master Certified technicians. Our Automotive Systems Technology program is nationally certified as an Automotive Service Excellence (ASE) and Automotive Youth Education Systems (AYES) training facility. Areas of certification are: Brakes, Engine Performance, Steering and Suspension and Electrical/Electronics Systems. Students are also prepared to pass the ASE Certification test and qualified students will have the opportunity for a paid AYES summer internship.

Tri-Tech Skills Center - Program Questionnaire

Title of program: Cyber Security Instructor name: Craig Coleman
Number of students per session: 20
Number of faculty per Session : 1

Program description:
This one to two year program is designed to prepare students for a career in the Cyber Security Industry, Computer Programming, Database Administration, and Network Administrator. Students will gain knowledge and the experience in computer hardware, networking, computer security and Linux. Integration of Windows based computers will also be included in this course. Introduction to programming in C/C++, Java, Python, php, html and Javascript (NodeJS) will also be introduced. Linux Bash along with applications such as nano, vi, ssh and ftp will be a major emphasis in this program.

Learning objectives:
Programming and networking:
- Computer programming.
- Network hardware configuration.
- Wireless hardware configuration.
- Server configuration.
- Micro controller development.

Computer hardware and electronics:
- Introduction to computer building
- 568A/568B punchdown
- Cable management
- Soldering
- Server hardware management
- Switch management

Student activities within the classroom space:
- Network cable management
- Computer hardware management
- Networking hardware management

Unique or Specialty Equipment Required:
- Smartboard and work station on special network (10.183.x.x)
- Teacher workstation for special network.
- Teacher workstation for KSD network. (Attendance and email)
- Gateway (KSD managed 48 port switch)
- Server rack
- Custom wireless access point mounted on wall or ceiling.
- Soldering station
- Support for computer donation program
- Ethernet raceway to model cable management

Support Spaces – other than Classroom (storage, office, lab, work stations, etc.):
- Storage for portfolios and books
- Storage for extra computers and monitors
- Storage for extra keyboards and mice
- Storage for Raspberry Pis and Arduinos
- Server rack to model server management.
- Storage for the following: Test computers, donation computers, recycled electrons.

Draft: 6/21/16

Tri-Tech Skills Center - Program Questionnaire

Title of Program: DENTAL ASSISTING

Instructor's Name: SIERRIE CROSHAW

Number of Students per Session: 35-40 Number of Faculty per Session: 2

Program Description: DENTAL ASSISTANTS PROVIDE SUPPORT AND ASSISTANCE TO THE DENTIST, WHICH ENABLES DENTAL PROCEDURES TO BE COMPLETED IN A TIMELY, EFFICIENT & SAFE MANNER. STUDENTS WILL LEARN SKILLS TO BECOME A REGISTERED DENTAL ASSISTANT IN WASHINGTON STATE.

Learning Objectives: * STUDENTS LEARN DENTAL ASSISTING PROCEDURES; CORONAL POLISH (RECALL APPOINTMENT AT OFFICE) X-RAYS DEVELOPE X-RAYS STERILIZATION,

Student Activities within the Classroom Space: ROOM 105 - LECURE, GROUP ACTIVITIES, 3 COMPUTERS, LAB SPACE FOR IMPRESSIONS, STUDY MODELS, INSTRUMENT KNOWLEDGE. ROOM 110 - DENTAL CLINIC - RECALL APPT, STERILIZATION, X-RAY

Unique or Specialty Equipment Required: COMPUTER STATIONS, STORAGE

Support Spaces – other than Classroom (storage, office, lab, work stations, etc.): 3 RADIOGRAPH (X-RAY) ROOMS, DARK ROOM, 3

June 2016 – Ed Specs/Space Programming -- Please attach second sheet, if additional information provided.

Tri-Tech Skill Center-Program Questionnaire

Title of program: Early Childhood Education

Instructor's Name: Bobbie Lotz

Number of Students per session: 18 to 24 high school students

Number of Faculty per session: 2, instructor and preschool director

Program Description: The program teaches high school students about working with young children three to five years of age, the program operates a preschool for community members.

Learning Objectives: The objectives of the program are to train high school students how to work with young children and prepare them for the work force.

Student Activities within the Classroom Space: The classroom space has two purposes. One portion of the environment is a classroom area for large group instruction for the high school students. The second portion of the environment is used as a laboratory preschool for 27 preschool children. During the time the preschool students are in the classroom there are also 12 to 14 high school students that are working one-on-one with the children. Concurrently high school students are in the high school classroom during the operation of the preschool, this is currently accomplished by the use of an accordion that closes when the preschool is in session.

Unique or Specialty Equipment Required: A unique aspect of our environment is the observation room that is used for the high school students to utilize as well as the preschool parents. In addition the preschool utilizes for wide open space for the operation of the preschool. A separate entrance is provided for the preschool with a coat room for the children. Restrooms are also in the environment for the laboratory preschool.

Support Spaces- other than Classroom: The support space would include an office for the instructor and preschool director. A locker room area for the high school students. Storage is important, we have many materials that are used for the operation of the preschool. An outside storage is also used for outside play equipment.

Tri-Tech Skills Center- Program Questionnaire

Title of Program: Firefighting Program

Instructor's Name: Nathen Allington

Number of Students per Session: Up to 25 1st Year and 3 2nd year 28 total Number of Faculty per Session: 1

Program Description: The Firefighting Program consists of a 1st and 2nd year program and is a Washington State Pre-Apprenticeship program. We also participate is an Explorer Program. We work across a broad spectrum of the Fire Service. Our Program covers structural firefighting, wildland firefighting, and emergency medical services. Leadership, teamwork and employability are big components and we have a fitness program.

Learning Objectives: We are a preparatory course that works closely with local agencies. We give industry certifications and have required space and equipment needs. We focus on IFSAC Firefighter 1 and 2, Incident Command 100, 200, 300 (300 exposure only), NIMS 700a and 800, Wildland certification, 190 Fire Behavior, 130 Basic Wildland Firefighter, and 180 Human Factors on the Fireline. We earn AHA BLS CPR and AHA 1st Aid. We have a fitness program designed to prepare the student for firefighter physical exams. We have Tech Prep credits with CBC for 1st, 2nd year students and 2nd year can participate in a Conditional Volunteer program and earn addition certifications and college credit.

Student Activities within the Classroom Space: Indoor fitness during the 1st and last parts of the year; P90x exercises, body weight exercises and movements. CPR training (my class, KSD staff, special groups: a lot of space is needed), Firefighting training such has don and doffing PPE, SCBA, mock scenarios, group work with machinery, equipment, maps, etc. We also have to move training inside during bad weather and lack space or training areas when this occurs.

Unique or Specialty Equipment Required: Training across the broad spectrum of the Fire Service (structure, EMS, Wildland) creates a need for a lot of equipment. Tools, machines, PPE, and apparatus to name a few. We have had the ability to obtain most of the equipment needed. The things we need to support this equipment has become the problem. Staying current with industry standards (safety) and laws is another issue.

Support Spaces – other than Classroom (storage, office, lab, work stations, etc.): See attached list of need and or concerns.

June 2016 – Ed Specs/Space Programming -- please attach second sheet, if additional information provided.

1. Functional Outside Drill Ground (see picture)

    a. 360 access to tower, tower improvements (fall arrest anchors (law), windows, new room, doors), some updates and issues are due to wear a tear and or new standards/laws, no vehicle traffic through the drill area

    b. Dedicated working hydrant (1-2 with water capability so that we are not connected to a hydrant needed in case of fire); dedicated non-working hydrants (no water, but function for training purposes), water run off area capable of catching runoff or have proper draining

    c. More props: car fire prop, force entry, flashover simulator, etc.

    d. Wildland fire training area with props: chopping stations, sand table

    e. EVOC course area

    f. Storage for equipment near drill area (we have so much equipment and it is costly)

    g. Outside covered area with water (drinking) bleachers, white board (area to teach or remediate without dropping all of our gear/PPE and returning to the class, it is also a rehab area (out of the sun and hydration)

    h. Large open areas for movement of equipment (apparatus)

    i. Cooling station (water mist fan) (safety and new laws)

2. Functional Truck Bay/Classroom (ideally set-up like a fire station)

    a. PPE storage racks (1 rack for each individual with doors to secure their gear)

    b. Inside storage for equipment, extra PPE, hose, SCBA

    c. Inside training area in the truck bay for inclement weather and safety (need space-see picture)

    d. Commercial washer dryer, sink, eye wash station (wash PPE: Staff infections, fungus potential in PPE gear if not cleaned)

    e. More space for hands on training in the classroom; PPE donning, CPR, etc.

    f. Truck exhaust system (current law or current standard??) with better access for parking (our area is tight- law or standard calls for 3 feet all the way around clearance); larger bay door or pull through bay)

    g. CPAT area and equipment (candidate physical agility test) CPAT information link

    h. Computers needs due to all web based training used in firefighting

3. Fitness Area

    a. Large enough to workout (inside)

    b. Facilities for shower, water, etc.

    c. Outside field, track, with fitness equip- Pull-ups, etc. + grass area

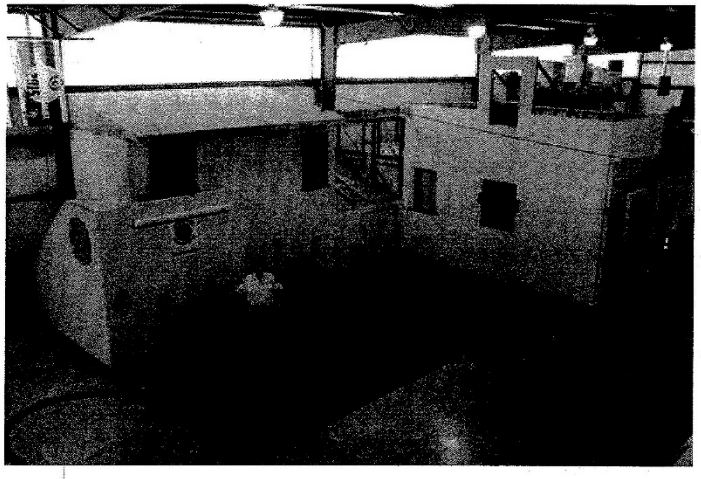
    d. Main road concerns (we currently practice to close to roads in our current exercise area)

4. Neighbors (other classes we are next to or a supposed to share area with)

    a. We are loud (sirens, horn, engine noise), messy (lot of equipment), wet (Fire Streams, over spray) smell (diesel fumes)

    b. A lot of other agency's share our training area as part of current agreements. (KFD, BCFD #1, KPD)

Example of Inside Training Area.



Example of Drill Ground:

LAW ENFORCEMENT
What we do and what we need to do it.

Students Enrolled: 30 in each session

In addition to classroom presentations the students do

Role playing
Working out daily in classroom: minimum 10' ceilings, good ventilation, water source (fountain), bathroom, utility sink, small lockers for PE clothing
Plug-ins for microscopes

Current Equipment:

Driving Simulator (space needed 10' x 10')
Decision Making Simulator (space needed 12' x 25') –
2- overhead projectors

Work station
Media – document camera, DVD/VCR, sound system
5 computers (would like 14)
Lighted Shelves (7 floating shelves – wall mounted)

Storage for current equipment / supplies:

Duty Belts
Radios (10) – plug-ins for chargers
Shelving for red guns, knives, make-up kit
1st Aid training equipment
Microscopes (12)

Multiple shelves for labs, traffic, fingerprinting, plaster, CSI supplies (tents, tape measures, templates etc.)

Mannequins (5 adult size)

Equipment / Supplies Cont.

Red Man suite
Workout Equipment – Big balls, power chair, bags
Clothing Rack

Outside the classroom:

EVOC
Traffic Stops – TTE drive around and pull each other over
Building Searches – TTE provides a 2-story building with halls and various rooms
Crime Scene Investigation

** Police Cars (2)