# Ivy Tech Building Standards

## Space Standards

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# Statement of Purpose

**Ivy Tech Community College Mission Statement:**

As a state wide, open-access, community college, Ivy Tech Community College provides residents of Indiana with professional, technical, transfer, and lifelong education for successful careers, personal development, and citizenship. Through its affordable, quality educational programs and services, the College strengthens Indiana's economy and enhances its cultural development.

**Purposes (Ten purposes are listed; the last purpose refers directly to facilities):**

Ivy Tech Community College strives to accomplish its mission placing strategic emphasis on –

- **Continuous improvement** of all instruction and services offered to students, employers, and the community . . . Continuous improvement also encompasses . . . improving the condition and amount of space, and acquiring new types of space for student activities, continuing education, and community services.

**Statement of Purpose for architectural and space standards**

The intent of all space and systems standards is to ensure that all facilities within the Ivy Tech system support the mission and purpose of Ivy Tech, focusing on providing the residents of Indiana an affordable, quality education.

In order to accomplish this purpose, the space standards follow the guiding principles below.

**Guiding principles**

**General**

1. Facilities should reflect the value placed on education by the students, faculty, staff, and State and Regional Boards of Trustees.

2. Facilities should create a setting that is conducive to learning.

3. Facilities should be enduring (75-year buildings) that are an asset to their community.

4. Facilities should provide a safe and secure environment for students, faculty, staff, and visitors.

5. Flexibility should be inherent in building design to accommodate programmatic changes and to minimize the impact on building systems and the cost and time required to make facility changes.

6. Facilities should provide a wide variety of spaces to encourage learning and participation in and out of the classroom and teaching lab.

7. Facilities should foster communication between and among students, teachers, administrators, counselors, and support staff.

8. The design of facilities should encourage the development of community, both within the buildings and campus and with the surrounding community.

9. Facilities should be efficiently designed to minimize energy usage, provide maximum assignable space and utilization, be easily maintained and operated, and provide maximum life cycle value.

10. Systems design (based on architectural, mechanical, plumbing, electrical, and telecommunications standards) should support all of the aforementioned guiding principles.

**Space Specific**

1. Classroom design should provide for active student engagement, lowered barriers to participation (thereby increasing self-directed learning), increased flexibility (easy to rearrange components in the classroom), support of self-directed learning, and an inviting environment using, at a minimum, College best practices.

2. Teaching and open laboratory design should be appropriate for the technologies being taught and learning occurring in the spaces and provide for active student engagement, support of self-directed learning, and where possible, increased flexibility.

3. Office design should provide for adequate and appropriate space for all full-time and part-time staff including access to technology.

4. Library design should provide for active student engagement, lowered barriers to participation, increased flexibility, support of self-directed learning, and closely reflect Association of College and Research Libraries (ACRL) recommended community college space allocations as modified by the Ivy Tech Statewide Library Committee (SLC).

5. Support spaces design should provide for adequate and appropriate space for the functions needed to support building operations, credit and non-credit instruction and training, community and college meeting spaces, wellness and fitness centers, student activity and gathering spaces, and merchandizing spaces that are, where appropriate, flexible to accommodate changes in use.

# Facilities Planning Process

Ivy Tech Community College's facilities planning process has a number of components that start with a development concept and, in some cases, culminates in a capital or lease project approved by the General Assembly.

**Development Concept**

When establishing a new presence in a community, Ivy Tech first attempts to use space in existing schools, businesses, or community facilities. Depending on the magnitude of the demand, a courses-only site could grow in to an extension center. When demand warrants, facilities may be acquired on a short-term lease basis with renewal options. Purchase or construction of a facility is pursued when there is evidence that some permanence in local demand has been established.

**Facility and Space Planning**

Facility and space planning at Ivy Tech starts with long term planning (ten or more years) at the regional and campus level and is based on gross space needs to meet enrollment and new program projections. As the need for additional space draws nearer, approximately four years out, a facility master-planning study is conducted. The study could be as simple as a staff analysis of enrollment projections and the need for additional programs. The study is often more complex, designed to address facility or program issues. The larger study would include a community based planning committee that could analyze and recommend siting of a facility, type of facility (new construction verses purchase or renting and renovating an existing building), and facility use (single or joint).

A facility project is then developed and submitted as part of the campus and regional strategic plans and the project is considered for possible inclusion in the College's next capital budget request. The decision for possible inclusion is made by the State Trustees who make the final decisions on inclusion and priority of projects in the capital and operating budget request.

Once selected for possible inclusion, directions for required planning documents and space planning guidelines are distributed to the regions involved (directions are available to regions at any time in the planning process). The required planning documents include enrollment projections, an educational program statement, and a space by program matrix. The space planning guidelines used by the College are as follows:

**Space Planning Guidelines of Ivy Tech**

***Introduction***

These guidelines are used by the College as a basis to start estimating a construction project. They can be modified due to special conditions for a specific project.

***General/Overall Guidelines***

Estimate of space needed is based on the Paulien Space Needs Model (see the next section) which uses fall student full-time-equivalent (FTE) enrollments, faculty and staff FTE, and library bound volume units

to determine the need for space. On average 84.86 assignable square feet (ASF) per fall FTE can be used until the model is calculated for a particular set of data. ASF/GSF ratio 65%

**Accreditation standards for specific programs supersede classroom and laboratory space standards.**

***Classrooms***

ASF per WSCH 1.18

*Assumes:*

| | |
|---|---|
| *Scheduled hours* | *Only Monday through Friday hours are used for planning: evening hours 5 pm - 10 pm, M - Th and daytime hours 8 am - 5 pm, M - Th and 8 am - 5 pm F* |
| *Weekly Room Hours* | *32 - based on 70% of scheduled evening hours + 40% of scheduled daytime hours. (.70 * 20 + .40 * 45)* |
| *Station Occupancy Rate* | *66%* |
| *ASF/Station* | *25* |

***Laboratories***

See Ivy Tech Community College system standards at www.ivytech.edu/facilities ASF/WSCH 2.33 to 17.33 depending on the type of lab

*Assumes:*

| | |
|---|---|
| *Scheduled hours* | *Same as classroom hours.* |
| *Weekly Room Hours* | *20 - based on 45% of scheduled evening hours + 25% of scheduled daytime hours. (.45 * 20 + .25 * 45)* |
| *Station Occupancy Rate* | *70% if total lab WSCH is less than 30,000 or*<br>*75% if total lab WSCH is greater than or equal to 30,000* |
| *ASF/Station* | *Depends on discipline.* |

***Offices***

Total office space: 165 ASF per FTE faculty or staff requiring offices

Total office space is to cover all office, office service, office conference room, and conference room service space needed.

***Libraries***

The following algorithm for the provision of library space for community colleges has been adopted by the Ivy Tech Statewide Library Committee (SLC).

Total Space = initial increment of 2,500 sq. ft. + 3.83 sq. ft. per fall FTE

The algorithm has been adapted from the standard for California community college facilities, which closely reflects Association of College and Research Libraries (ACRL) recommended community college space allocations. The initial ACRL increment has been decreased from 3,795 to 2,500 sq. ft. to reflect the smaller collection sizes of Ivy Tech campuses. The ACRL student-seating standard requires that seating be provided for 10 percent of student FTE. The average amount of space needed for the variety of different types of workstations is approximately 38.3 sq. ft. and at 10 percent would be 3.83 sq. ft. per FTE. Half of the workstations should be Internet connected.

***Special use Facilities***

Information on the use of other spaces - special use facilities (athletic and media production), general use facilities (assembly, exhibition, food service, lounge, bookstore, recreation, and meeting rooms), and support facilities (central computer, shop, central storage, vehicle storage, and central service) - has been colleted by various higher education groups and some recommendations exist. However, few states or institutions have guidelines for determining the amount of space needed for these other spaces.

Preliminary schematic design planning is done at the local campus level with the assistance of an architect. Final schematic design and design development planning is done after the project is approved by the General Assembly and released to proceed by the State Budget Committee and Governor.

***Parking Calculations Standard***

1. Parking Design Standard will be calculated as a sum of the following:
   a. Classroom: 16 Parking Stalls per Classroom
   b. Laboratory: 13 parking Stalls per Lab
   c. Full Time Staff / Faculty 1 Stall per 80% of total count
   d. Adjunct / Part Time 1 Stall per 25% of total count
   e. Assembly Spaces Parking stalls for 1/3 of capacity

2. Parking calculations shall be reviewed with the Region and Central Offices Facilities Planning during design. The total classrooms, laboratories, faculty and staff (full time, part time, and adjunct projections), and assembly spaces size used to develop the calculation shall be recorded in the meeting minutes and provided in the design manual for record.

# Use of Space Standards

1. The Space Standards are intended to outline square footage allotments and requirements for each space. Each space type includes the following (as appropriate). They are not intended to be all inclusive but to establish a minimum standard. Especially equipment must be verified in detail.
   a. Space Description & Overview
   b. General Requirements
   c. Adjacencies / Location
   d. Mechanical/ Plumbing
   e. Power & Electrical
   f. Technology
   g. Lighting
   h. Doors and Windows
   i. Equipment
   j. Furnishings
   k. Accessories
   l. Finishes

2. Capital Project Teams should work with each region to program the number and type of each type required as part of the project scope.
   a. Programs under further development that should be discussed include:
      1) Fitness Center
      2) Food Service

3. All possible spaces have not been standardized. Additional standardization is expected in the future.

**Centers for Excellence**

1. Ivy Tech has identified specific Centers for Excellence focusing on the following fields of study:
   a. Advanced Manufacturing
   b. Nursing / Simulation
   c. Automotive / Diesel
   d. Cyber Security
   e. Culinary
   f. Innovative/Entrepreneurship

2. Coordinate with the Region if any of the Centers for Excellence currently exist in the Region or if there is a future plan for these programs.

# Space Standards Index

| Room No. | Room Name |
|---|---|
| 070 | Unfinished Area |
| 110 | Classroom |
| 120 | Large Lecture Hall / Auditorium |
| 210.01-A | Computer Lab - Fixed Rows / Tiered |
| 210.01-B | Computer Lab - Fixed Rows / Non-tiered |
| 210.01-C | Computer Lab - Double U |
| 210.02 | Computer Aided Drafting Lab |
| 210.03 | Automotive Technology |
| 210.04 | Advanced Manufacturing |
| 210.05 | Medical Assisting |
| 210.06 | Dental Assisting |
| 210.07 | Nursing |
| 210.08 | Radiologic Technology |
| 210.09 | Respiratory Care |
| 210.10 | Surgical Technology |
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| 210.12 | Paramedic Labs |
| 210.13 | Culinary Lab |
| 210.14 | Advanced Automation and Robotics Labs |
| 210.15 | Art Lab |
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| 215.01 | Class Laboratory Service |
| 220 | Open Computer Lab |
| 310.01 | Executive Office |

| | |
|---|---|
| **310.02** | **Open Office** |
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| **315** | **Office Service** |
| **320** | **Express Enrollment** |
| **350** | **Conference Room** |
| **355** | **Conference Room Service** |
| **410.01** | **Study Room Enclosed** |
| **410.02** | **Study Room "Nook Areas"** |
| **420** | **Stack Room** |
| **430** | **Open-Stack Study Room** |
| **440** | **Processing Room** |
| **455** | **Study Service** |
| **520** | **Athletic or Physical Education** |
| **530** | **Media Production** |
| **535** | **Media Production Service** |
| **560** | **Testing Lab** |
| **610** | **Assembly** |
| **615** | **Assembly Service** |
| **630** | **Food Facility** |
| **635** | **Food Facility Service** |
| **640** | **Community Room** |
| **650** | **Lounge** |
| **655** | **Lounge Service** |
| **660** | **Merchandising** |
| **661** | **Book Store** |
| **665** | **Merchandising Service** |
| **670** | **Recreation - Wellness Center** |

| | |
|---|---|
| **675** | **Recreation Service** |
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| **680.01-B** | **Meeting Room** |
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| **695** | **Testing Service** |
| **710** | **Central Comp. or Telecommunications** |
| **720** | **Shop** |
| **725** | **Shop Service** |
| **730** | **Central Storage/Service** |
| **740** | **Vehicle Storage/Service** |
| **750** | **Central Service** |
| **755** | **Central Service Support** |
| **760** | **Hazardous Materials Storage** |
| **W05** | **Main Lobby** |
| **X03** | **Public Restroom** |
| **X04** | **Family Restroom** |
| **X05** | **Lactation Room** |
| **X06** | **Public Corridor** |
| **YYY** | **Mechanical Area** |

## Room 070 Unfinished Area

### Executive Summary

SPACE DESCRIPTION

The intent of shell space is to accommodate miscellaneous future program expansion.

GENERAL REQUIREMENTS

Room size can vary significantly for expansion space. Potential layouts should be explored to ensure that reasonable egress paths and classroom, lab, office, etc. layouts can be accommodated at a future time.

UNIQUE ROOM REQUIREMENTS

Architectural: Space shall include insulated walls and ceiling and a concrete floor at a minimum.

Mechanical: Extend future main chilled water and hot water and ductwork lines, etc. as required for future build-out to corridor wall of shell space. Provide valve and cap for future connections. Install temporary unit heater to condition space above point of freezing.

Electrical: Provide electrical distribution system to nearest electrical room to serve shell space. Installation of panels and wires is not required except for those necessary for egress signage and temporary lighting.

Telecommunications: Locate Telecommunications Room within appropriate distance from shell space to accommodate future system build-out.

Plumbing: Consider the distance from shell space to nearest restroom. If necessary, provide water to corridor wall of shell space to accommodate future restroom. Sprinkler systems should be installed in the shell space with expansion built in for future classrooms, offices, etc.

ADJACENCIES

Shell space shall be provided adjacent to a major corridor and anticipated growth areas. Consideration shall be given to second floor space, for ease of plumbing, etc.

## Room 070 Unfinished Area

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Base | 09250.GWB | Gypsum Wall Board | Unpainted and taped |
| **Ceiling** | | | |
| Type 1 | N/A | No finish | |
| **Floor** | | | |
| Finish | N/A | No finish | Unfinished concrete |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 110 Classroom

**Classroom Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

This Classroom is designed for flexibility. Various instructional arrangements can be accommodated (including lectures, small group discussions, project teams, etc.). Tables and chairs with casters allow for easy spatial reorganization and multiple locations for a teacher's station. Educational tools include white boards on multiple walls as well as a projector, arranged for simultaneous use. Additional flexibility will be provided through the incorporation of wireless technology and multiple power locations for student laptops. Room proportions must incorporate proper viewing angles of all visual display surfaces. Room size may vary based on the number of students to be accommodated.

GENERAL ROOM REQUIREMENTS

-Room Size: 25 ASF per student
-Anticipated Room Occupancy: 30 (flexible)
-Minimum ceiling height: 9'-0" A.F.F.
-Minimum acoustical rating: STC 50

**Accreditation standards for the specific program supersede anticipated occupancy and size requirements**

For table layout, minimum row spacing should be 5'-6" from front to front of tables. The distance from the projection surface should be 1.5 times the width of the screen or projected area. Screen size needs to consider viewing angles, distances to screen, lighting, and types of information to be projected.

All equipment, accessories, furnishings, and projection requirements need to be shown in room layout and reviewed during the design process.

Accreditation standards for the specific program supersede anticipated occupancy and size requirements

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

Instructional areas should be accessed from major corridors and isolated from industrial or service areas of the building. Acoustics should be considered during the design of classroom space to ensure that sound does not travel to or from adjacent spaces. All instructional spaces should have windows with shading devices. Refer to the system standards for shading device standards. Classrooms should be designed for use by any departments to maximize use.

## Room 110 Classroom

**Classroom Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.07 | Wall-Mounted Raceways | * | Power to serve all equipment and each student workstation. |
| 16143.61-1 | 20amp Duplex Receptacle, General Use | * | |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.DC100 | Data Connections | 6 | Data connections for one video display device, two wireless access, one telephone, and one location for the teaching station. |
| 00000.PRJ1 | LCD Computer Projector or Display Monitor Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted or Display Monitor | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks:

## Room 110 Classroom

**Classroom Facilities**

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed valumetric troffer (basket style fixture) | * | |
| 16515.L170 | White Board Lighting | * | Markerboard lighting and front row should be on separate toggle switch for control at front of |

Remarks: Quantity as required.

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.SC10 | Student Chairs | 30 | FF&E | No casters |
| FURN.SW09 | Student Workstation | 30 | FF&E | 24"D X 72" (or 96" if on casters) |
| FURN.TCHR | Teacher Chair | 1 | FF&E | On casters |
| FURN.TS01 | Teaching Station | 1 | FF&E | Accommodate equipment |

Note Ref #:
Remarks

## Room 110 Classroom

**Classroom Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | * | CFCI | Front wall, full height |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:

Remarks: Option to use marker board and screen or presentation dry erase surface. Layout of accessories should allow for simultaneous use. Option for additional wall marker surface using standard markerboard. Provide a minimum of 4 LF of marker tray at the front wall. Locate the tray to the right/left of marker wall (not centered).

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GYP | Gypsum Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:

Remarks

# Room 120 Large Lecture Hall/Auditorium

**Classroom Facilities**

## Executive Summary

SPACE DESCRIPTION & OVERVIEW
The Lecture / Auditorium is designed for large groups of students. Essential tools include white boards on the presentation wall as well as a projector. Additional flexibility will be provided through the incorporation of wireless technology and multiple power locations for student laptops. Room proportions must incorporate proper viewing angles of all visual display surfaces. Room size man vary based on the number of students to be accommodated. Additional acoustical treatment may be required.

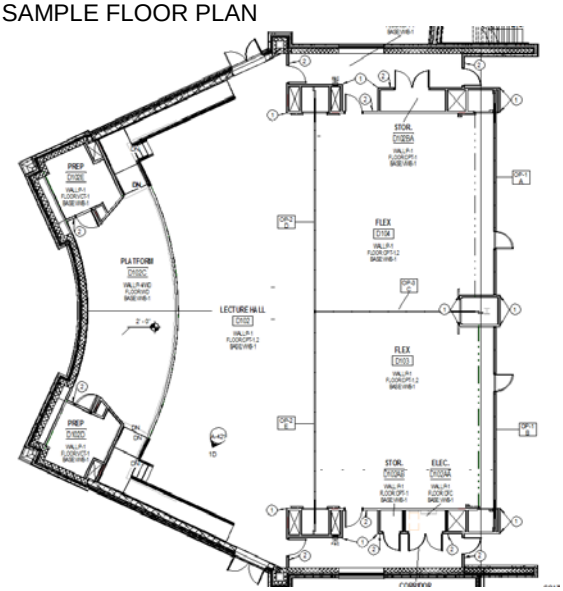
Consider use of operable partition to subdivide the room for maximum flexibility.

GENERAL ROOM REQUIREMENTS
-Room Size: 10-12 ASF per person. Meet code requirements.
-Anticipated Room Occupancy: 60 students (flexible)
-Minimum Ceiling Height: 10'-0" A.F.F.
-Minimum Acoustical Rating: STC 50

SUPPORT SPACE
Storage

LOCATION/ADJACENCIES
Instructional areas should be accessed from major corridors and isolated from industrial or service areas of the building. Acoustics should be considered during the design of classroom space to ensure that sound does not travel to or from adjacent spaces. All instructional spaces should have windows with shading devices. Refer to the system standards for shading device standards. Classrooms should be designed for use by any departments to maximize use.
Locate near main entrance and public restrooms.
Securing the facility and the lecture hall/auditorium should be considered as the function of the space may occur after hours.

SAMPLE FLOOR PLAN




Ivy Tech Bloomington

## Room 120 Large Lecture Hall/Auditorium

**Classroom Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: C02 Sensors / Reduce HVAC noise by lowering air speed and locating equipment away from space.

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | 1 | |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.AES | Independent Audio Enhancement System | 1 | Control panel in space. |
| 00000.DC100 | Data Connections | 1 | Data connections for projector, wireless access, telephone, and three locations for the teaching station. |
| 00000.MIC | Wired Microphone | 1 | 1 for 1 microphones in furniture system (fixed) if applicable. |
| 00000.PRJ1 | LCD Computer Projector Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |

Remarks:

## Room 120 Large Lecture Hall/Auditorium

**Classroom Facilities**

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | * | |
| 16515.L170 | White Board Lighting | * | Markerboard lighting and front row should be on separate toggle switch for control at front of |

Remarks: Dimming capabilities

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 2 | | If rated door is needed, adjust window size or type of glass appropriately. Quantity of doors as required for exiting requirements. |

Remarks:

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.PS18 | Projection Screen | 1 | CFCI | |
| 080000 | Operable Partition | 1 | CFCI | |

Note Ref #:
Remarks

## Room 120 Large Lecture Hall/Auditorium

**Classroom Facilities**

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.SC10 | Student Chairs | 60 | FF&E | Unless fixed seating |
| FURN.T04 | Table, 24"D x 72"W | 30 | FF&E | Unless fixed seating |
| FURN.T08 | Teaching Lectern | 1 | CFCI | |
| 12710.02 | Fixed Audience Seating, Tablet Arm | 1 | CFCI | Option |

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Front Wall, mounting height, 36" A.F.F. |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:
Remarks If large space may need to use projector for presentation rather than dry erase surface.

## Room 120 Large Lecture Hall/Auditorium

**Classroom Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Acoustical** | | | |
| Treatment | 09841.AWP | Acoustical Wall Panels | As required for appropriate acoustics |
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09680.CP | Carpet | |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 210.01-A Computer Labs - Fixed Rows / Tiered

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

This computer lab is designed to lecture style (i.e., an instructor at the front of the room), with fixed furniture (tables and chairs) on tiered levels. Educational tools include a wall of display boards and a projector, arranged for simultaneous use. Room proportions will incorporate proper viewing angles of all visual display surfaces.

GENERAL ROOM REQUIREMENTS

-Room Size: 35 ASF per student
-Anticipated Room Occupancy: 30 students
-Minimum ceiling height: Min. 9'-0" A.F.F.
-Minimum acoustical rating: STC 50

Room layout should not have more than four rows to keep sightlines and visibility to the front maximized. Minimum row spacing should be 5'-6" from front to front of tables. The distance from the projection surface should be 1 to 1.5 times the width of the screen or projected area. Image size needs to consider viewing angles, distances to screen, lighting, and types of information to be projected.

All equipment, accessories, furnishings, and projection requirements need to be shown in room layout and reviewed during the design process.

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

Instructional areas should be accessed from major corridors and isolated from industrial or service areas of the building. Acoustics should be considered during the design of classroom space to ensure that sound does not travel to or from adjacent spaces. Classrooms within departments should be designed for use by other departments to maximize use.

## Room 210.01-A Computer Labs - Fixed Rows / Tiered

**Laboratory Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Cooling as required to accommodate increased load of Computer Lab.

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.07 | Wall-Mounted Raceways | 8 | Provide two circuits per row at face of tiered element. |
| 16143.62-1 | 20amp Receptacle, Equipment Use | * | Provide power to serve all equipment in the room. |

Remarks: * Quantity determined by equipment requirements. Electrical panel for two (2) computer labs to be located within either room.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C210 | Student Computers - Desktop, Hardwired | 30 | |
| 00000.PRJ1 | LCD Computer Projector or Display Monitor Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted or Display Monitor | 1 | |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks:

## Room 210.01-A Computer Labs - Fixed Rows / Tiered

**Laboratory Facilities**

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed volumetric troffer (basket style fixture) | | |

Remarks: Quantity as requred

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.SC10 | Student Chairs | 30 | FF&E | |
| FURN.TCHR | Teacher Chair | 1 | FF&E | |
| FURN.TS01 | Teaching Station | 1 | FF&E | Accommodate equipment |
| 12000.ST100 | Student Computer Table, Fixed | 30 | CFCI | 30" X 42" per student with wiring trough and CPU slings |

Note Ref #:
Remarks

## Room 210.01-A Computer Labs - Fixed Rows / Tiered

**Laboratory Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Full height |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:
Remarks Provide a minimum of 4 LF of marker tray at the front wall. Locate the tray to the right/left of marker wall (not centered).

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GYP | Gypsum Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | Broadloom may be used at stairs to minimize nosings needed. |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 210.02 Computer Aided Drafting Lab

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

CAD Labs are used for hands-on instruction of Computer-Aided Design tools. Educational tools include a wall of writing surface (marker paint) and a projector. Room proportions will incorporate proper viewing angles of all visual display surfaces. Room size may vary based on the number of students to be accommodated. The lab should be arranged so that student workstations have a view to the instructor's area.

GENERAL ROOM REQUIREMENTS

-Room Size: 50 ASF per student
-Anticipated Room Occupancy: 20 students
-Minimum ceiling height: 9'-0" A.F.F.
-Minimum acoustical rating: STC 50

Room layout should not have more than four rows to keep sightlines and visibility to the front maximized. Minimum row spacing should allow for an instructor to circulate around the room to assist students. The distance from the projection surface should be 1 to 1.5 times the width of the screen or projected area. Screen size needs to consider viewing angles, distances to screen, lighting, and types of information to be projected.

All equipment, accessories, furnishings, and projection requirements need to be shown in room layout and reviewed during the design process.

Indirect lighting should be utilized to minimize screen glare.

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

CAD Labs should be accessed from major corridors. Acoustics should be considered during the design of classroom space to ensure that sound does not travel to or from adjacent spaces. Locate labs near other industrial, technology or design areas.

## Room 210.02 Computer Aided Drafting Lab

**Laboratory Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.10 | Panduit Wall Mounted Raceway | 1 | |
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 2 | |

Remarks: *Quantity determined by equipment requirements. Conduit on walls 100A panel within room.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.DC100 | Data Connections | * | Minimum 1 per station |
| 00000.PLT | Plotter | 1 | |
| 00000.PRJ1 | LCD Computer Projector or Display Monitor Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted or Display Monitor | 1 | |
| 00000.PRT | Printer | 1 | |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |

#### Instructional

| | | | |
|---|---|---|---|
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks: Desktop wiring connection. All data connections for required equipment.

## Room 210.02 Computer Aided Drafting Lab

**Laboratory Facilities**

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed volumetric troffer (basket style fixture) | * | |
| 16515.L170 | White Board Lighting | * | Markerboard lighting and front row should be on separate toggle switch for control at front of |

Remarks: Quantity as required

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.FFD15 | 36"D flat file drawers | 2 | FF&E | |
| FURN.SC10 | Student Chairs | 20 | FF&E | |
| FURN.SW08 | Student workstation, 24"D x 48"W | 20 | FF&E | with an add-on drafting |
| FURN.TCHR | Teacher Chair | 1 | FF&E | |
| FURN.TS17 | Teaching Station, 24" x 60" Table | 1 | FF&E | Accommodate equipment |

Note Ref #:
Remarks

## Room 210.02 Computer Aided Drafting Lab

**Laboratory Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | * | CFCI | Full height |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:

Remarks: Provide a minimum of 4 LF of marker tray at the front wall. Locate the tray to the right/left of marker wall (not centered).

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Countertops** | | | |
| Finish 2 | 09000.001 | Hard Surface/No-wax Flooring | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:

Remarks

## Room 210.01-C Computer Lab - Double U

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

This computer lab is designed to lab style with an instructor, with furniture (tables and chairs) for flexibility around the room's perimeter. Educational tools include a wall of display boards and a projector, arranged for simultaneous use. Room proportions will incorporate proper viewing angles of all visual display surfaces.

Option to make lab tiered; all furniture to be fixed if floor is tiered.

GENERAL ROOM REQUIREMENTS

-Room Size: 45 ASF per student
-Anticipated Room Occupancy: 30 students
-Minimum ceiling height: Min. 9'-0" A.F.F.
-Minimum acoustical rating: STC 50

Computer tables should line 3 walls and also tables in the center for general instruction. The distance from the projection surface should be 1 to 1.5 times the width of the screen or projected area. Screen size needs to consider viewing angles, distances to screen, lighting, and types of information to be projected.

All equipment, accessories, furnishings, and projection requirements need to be shown in room layout and reviewed during the design process.

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

Instructional areas should be accessed from major corridors and isolated from industrial or service areas of the building. Acoustics should be considered during the design of classroom space to ensure that sound does not travel to or from adjacent spaces. Classrooms within departments should be designed for use by other departments to maximize use.

## Room 210.01-C Computer Lab - Double U

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Cooling as required to accommodate increased load of Computer Lab.

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.07 | Wall-Mounted Raceways | 3 | Provide wall raceways on 3 walls for table connections |
| 16143.62-1 | 20amp Receptacle, Equipment Use | * | Provide power to serve all equipment in the room. |

Remarks: * Quantity determined by equipment requirements. Electrical panel for two (2) computer labs to be located within either room.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C210 | Student Computers - Desktop, Hardwired | 30 | |
| 00000.PRJ1 | LCD Computer Projector or Display Monitor Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted or Display Monitor | 1 | |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks:

## Room 210.01-C Computer Lab - Double U

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed volumetric troffer (basket style fixture) | 1 | |
| 16515.L170 | White Board Lighting | * | Markerboard lighting and front row should be on separate toggle switch for control at front of |

Remarks: Quantity as required.

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.SC10 | Student Chairs | 30 | FF&E | |
| FURN.T140 | Student Computer Table | 30 | FF&E | 2'-6" deep with wiring trough and CPU slings |
| FURN.TCHR | Teacher Chair | 1 | FF&E | |
| FURN.TS01 | Teaching Station | 1 | FF&E | Accommodate equipment |

Note Ref #:
Remarks

## Room 210.01-C Computer Lab - Double U

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Full height |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:
Remarks Provide a minimum of 4 LF of marker tray at the front wall. Locate the tray to the right/left of marker wall (not centered).

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GYP | Gypsum Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 210.02 Computer Aided Drafting Lab

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

CAD Labs are used for hands-on instruction of Computer-Aided Design tools. Educational tools include a wall of writing surface (marker paint) and a projector. Room proportions will incorporate proper viewing angles of all visual display surfaces. Room size may vary based on the number of students to be accommodated. The lab should be arranged so that student workstations have a view to the instructor's area.

GENERAL ROOM REQUIREMENTS

-Room Size: 50 ASF per student
-Anticipated Room Occupancy: 20 students
-Minimum ceiling height: 9'-0" A.F.F.
-Minimum acoustical rating: STC 50

Room layout should not have more than four rows to keep sightlines and visibility to the front maximized. Minimum row spacing should allow for an instructor to circulate around the room to assist students. The distance from the projection surface should be 1 to 1.5 times the width of the screen or projected area. Screen size needs to consider viewing angles, distances to screen, lighting, and types of information to be projected.

All equipment, accessories, furnishings, and projection requirements need to be shown in room layout and reviewed during the design process.

Indirect lighting should be utilized to minimize screen glare.

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

CAD Labs should be accessed from major corridors. Acoustics should be considered during the design of classroom space to ensure that sound does not travel to or from adjacent spaces. Locate labs near other industrial, technology or design areas.

## Room 210.02 Computer Aided Drafting Lab

**Laboratory Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.10 | Panduit Wall Mounted Raceway | 1 | |
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 2 | |

Remarks: *Quantity determined by equipment requirements. Conduit on walls 100A panel within room.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.DC100 | Data Connections | * | Minimum 1 per station |
| 00000.PLT | Plotter | 1 | |
| 00000.PRJ1 | LCD Computer Projector or Display Monitor Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted or Display Monitor | 1 | |
| 00000.PRT | Printer | 1 | |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks: Desktop wiring connection. All data connections for required equipment.

## Room 210.02 Computer Aided Drafting Lab

**Laboratory Facilities**

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed valumetric troffer (basket style fixture) | * | |
| 16515.L170 | White Board Lighting | * | Markerboard lighting and front row should be on separate toggle switch for control at front of |

Remarks: Quantity as required.

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.FFD15 | 36"D flat file drawers | 2 | FF&E | |
| FURN.SC10 | Student Chairs | 20 | FF&E | |
| FURN.SW08 | Student workstation, 24"D x 48"W | 20 | FF&E | with an add-on drafting |
| FURN.TCHR | Teacher Chair | 1 | FF&E | |
| FURN.TS17 | Teaching Station, 24" x 60" Table | 1 | FF&E | Accommodate equipment |

Note Ref #:
Remarks

## Room 210.02 Computer Aided Drafting Lab

**Laboratory Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | * | CFCI | Full height |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:

Remarks: Provide a minimum of 4 LF of marker tray at the front wall. Locate the tray to the right/left of marker wall (not centered).

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Countertops** | | | |
| Finish 2 | 09000.001 | Hard Surface/No-wax Flooring | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:

Remarks

## Room 210.03 Automotive Technology

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Used to train students in Automotive and Auto Body disciplines. The hands-on training component requires specific training hardware and equipment. The specialized training equipment requires support utilities such as three-phase power, special exhaust systems and specific material requirements.

GENERAL REQUIREMENTS

-Room Size: 250 ASF per student
-Anticipated Room Occupancy: 25
-Minimum Clear Height: 20'

**Accreditation standards for the specific program supersede anticipated occupancy and size requirements**

Supplemental Spaces
-Resource Room - 50 ASF / student
-Dyno Lab - 32 ASF / student
-Engine Lab - 50 ASF / student
-Classroom - 40 ASF / student
-Transmission - 30 ASF / student

Space will be organized into repair bays. Several, but not all, will have automotive lift, power and controls. Room requires storage for equipment, tools, parts and accessories.

SPECIAL REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

The Main Lab space should be accessed from main corridors and also have direct exterior access. Specialized support spaces such as the Resource Room, Dyno Lab, and Transmissions Lab may be accessed from the Main Lab. Acoustics should be considered to ensure sound does not travel to or from spaces. Exterior access is critical.

## Room 210.03 Automotive Technology

**Laboratory Facilities**

# UNIQUE ROOM REQUIREMENTS

## Mech/Electrical/Plumbing Requirements

### Mechanical

| Item | | Qty | Remarks |
|---|---|---|---|
| 15851.MD200 | Automotive Exhaust | 1 | Overhead at each Maintenance Bay |

Remarks:

### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.EW110 | Emergency Eye Wash Station | 1 | | |
| 15440.FD102 | Continuous Floor Drain | * | | as required per bay |
| 15440.HS22 | Hose Bid | 4 | | |
| 15440.OI16 | Oil interceptor | 1 | | |
| 15440.PSL25 | Pneumatic Supply | * | | for air |
| 15440.S110 | Sinks | 2 | | Stainless steel with foot pedal |
| 15440.SH120 | Emergency Shower | 1 | | |

Remarks:

### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.3 | Emergency Shut-off Switch | 1 | |
| 16143.61-2 | Duplex Receptacle, General Use | * | |
| 16143.62-2 | Receptacle, Equipment Use | * | Provide power to serve all equipment in the room. |

Remarks: * Quantity determined by equipment requirements. This must be confirmed by project. Plug-in bus duct located throughout room, confirm ampacity and voltage based on equipment provided.

## Room 210.03 Automotive Technology

**Laboratory Facilities**

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.DC100 | Data Connections | 1 | Located near the tool or supplies area for parts tracking. |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks: * Quantity determined by equipment requirements

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L04 | HID Lighting | 1 | High Bay |
| 16515.L160 | Task Lighting | * | |

Remarks:

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side; double Doors to corridor and exterior. |
| 08000.OD100 | Overhead Door | 2 | | | One will be an entry and one will be an exit and should be 10' W X 12' H with electric operators (wall and remote) |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

## Room 210.03 Automotive Technology

**Laboratory Facilities**

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.AEL19 | Automotive Electric Lift | * | FF&E | Floor mounted |

Note Ref #:

Remarks *Quantity to be determined.

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.CS.110 | Cubbie Storage | 50 | FF&E | Must be large enough for holding transmission or project parts and must be lockable |
| 12310.GS130 | General Storage Cabinet - Closed | * | CFCI | Size and quantity varies by program |
| FURN.WTC27 | Wire Tool Cage | 1 | CFCI | Size varies by program |

Note Ref #:

Remarks Provide tool cage, student storage, casework for specialized equipment. Quantity determined by equipment.

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | at each sink location |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | at each sink location |
| **Visual Display** | | | | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 2 | CFCI | |

Note Ref #:

Remarks

## Room 210.03 Automotive Technology

**Laboratory Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color - black |
| **Ceiling** | | | |
| Type 1 | EX | Exposed Structure - Painted | |
| **Floor** | | | |
| Finish | 09960.SC-1 | Sealed Concrete | Slip-resistant finish |

Note Ref #:
Remarks

## Room 210.04 Advanced Manufacturing

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Spaces in the MIT Technology area are used to train students in the primary disciplines of machine tool, technology, industrial maintenance, electricity, hydraulics, pneumatics, welding, and safety. The training is at least 50% hands-on in all courses. The hands-on (or lab) training component requires specific equipment. The specialized training equipment requires support utilities such as power, telecommunications, plumbing, etc. The space standards will outline general lab standards and some specifics by specialty. Owner must verify needs and equipment at each project.

Due to the hazardous nature of this work, MIT classrooms are also outfitted with safety equipment.

This space standard will outline general needs and requirements; however, each program will vary. Equipment and programmed use must be reviewed in detail at the beginning of each project.

Not all labs will be required for the MIT program.

All MIT Labs shall be located on the ground floor as a single story structure with a thickened slab 6" minimum, with no less than 12'-0" clear ceiling height. A unistrut grid shall be provided as applicable.

Minimum electrical requirements are shown. Additional may be required and must be verified by the project.

ELECTRICAL LAB

A. Room Size: 85 ASF per student
B. Anticipated Room Occupancy: 12 students
C. Ceiling Height: 12'-0" minimum - exposed
D. Special Requirements:
- 6 lab stations with 12 stools
- 1 teacher desk / chair
- 9 rectangular tables with 16 stackable chairs
- Electrical: 208 VAC, 3-phase and 120 VAC single phase (to be verified by project)
- Adjacent storage room with cabinets, shelves and small parts storage (100 SF)
- Adjacent Repair Lab with electrical repair bench, many receptacles, and 6 electrical component experiment boxes (300 SF)

MOTOR AND MOTOR CONTROLS LAB

A. Room Size: 135 ASF per student
B. Anticipated Room Occupancy: 8 students
C. Ceiling Height: 12' clear based on equipment - exposed
D. Special Requirements:
- 8 computer stations with monitors (POD setup)
- 3 lab stations with 6 stools
- 1 teacher desk / chair or stool
- Plumbing: line
- Electrical: 208 VAC, 3-phase and 120 VAC single phase (to be verified by project)

- Adjacent storage room with cabinets, shelves and small parts storage (400 SF)

PROCESS AUTOMATION LAB

A. Room Size: 165 ASF per student
B. Anticipated Room Occupancy: 8 students
C. Ceiling Height: 12' clear based on equipment - exposed

## Room 210.04 Advanced Manufacturing

**Laboratory Facilities**

D. Special Requirements:
- 8 computer stations with monitors (POD setup)
- 4 robotics machines
- 1 teacher desk / chair or stool
- Plumbing: LP line
- Electrical: 208 VAC, 3-phase, 230 VAC, 1-phase, and 120 VAC single phase (to be verified by project)

HVAC LAB

A. Room Size: 260 ASF per student
B. Anticipated Room Occupancy: 15 students
C. Ceiling Height: 12'-0" - exposed
D. Special Requirements:
- Accommodation for fuel oil storage tanks - above ground

WELDING LAB

A. Room Size: 225 ASF per student
B. Anticipated Room Occupancy: 16 students
C. Ceiling Height: 12'-0" clear - exposed
D. Special Requirements:
- Separate room to be provided for tank storage with exterior access
- 16 individual welding booths

CNC LAB (Table Top / Full Lab)

A. Room Size: 50 ASF per student pneumatic station (Table Top); 225 ASF per student pneumatic station (Full Lab)
B. Anticipated Room Occupancy: 20 students
C. Ceiling Height: 12'-0" clear - exposed
D. Special Requirements:
- 20 stations in the center of the room for pneumatic machines
- 20 computer workstations around the perimeter that control the machines

MACHINE TOOL TECHNOLOGY LAB

A. Room Size: 215 ASF per student
B. Anticipated Room Occupancy: 12 students
C. Ceiling Height: 12'-0" minimum - exposed
D. Special Requirements:
- 1 teacher desk with chair
- Electrical: 208 VAC, 3-phase and 120 VAC single phase (to be verified by project)
- Lab to include standard machine shop machinery, power fluid training equipment, pump, coupling,

powertrain, piping and rigging (millwright training equipment) and an overhead crane
- Fireproof storage area
- Adjacent computer lab with 12 desktop computers (600 SF)
- Adjacent storage room with cabinets, shelves and small parts storage (200 SF)
- Some campuses may combine the CNC and Machine Tool Lab

NON-DESTRUCTIVE TEST LAB

A. Room Size: 80 ASF per student
B. Anticipated Room Occupancy: 15 students
C. Ceiling Height: 10'-0" - finished ceiling
D. Special Requirements:
- This lab is outfitted with equipment between the Machine Tool and Welding Labs
- A work table in the room center is required

CONSTRUCTION TECHNOLOGY

A. Room Size: 215 ASF per student
B. Anticipated Room Occupancy: 12 students
C. Ceiling Height: 18'-0" - clear to bottom of the structure
D. Special Requirements:
- Dust recovery collector (could be portable)
- Lockable tool storage (Roll-in tool units)
- Pneumatic air
- Butcher block tables
- Sand and cement trap on all sinks

## Room 210.04 Advanced Manufacturing

**Laboratory Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

| Item | | Qty | Remarks |
|---|---|---|---|
| 15815.MD180 | Emergency Exhaust, Wall Switch | 1 | Each Maintenance Bay |

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.AL18 | Air Lines | 1 | | 1 compressed air line (min. 90 PSI) for small pneumatic tools / robotic |
| 15440.EW110 | Emergency Eye Wash Station | 1 | | 1 Per lab |
| 15440.FD101 | Floor Drain | * | | As required |
| 15440.L111 | Lavatory - Group, Solid Surface | 1 | | 1 each in MIT, HVAC and welding labs |
| 15440.NG | Natural Gas | 6 | | HVAC Lab with emergency shut-off manifold |
| 15440.O2 | Oxygen | 1 | | Welding Lab. Tanks with headers stored in separate, adjacent room with exterior access. |
| 15440.S170 | Sinks - Single Bowl | 1 | | one each lab with foot |
| 15440.SH120 | Emergency Shower | 1 | | Per lab |

Remarks:

## Room 210.04 Advanced Manufacturing

**Laboratory Facilities**

### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.07 | Wall-Mounted Raceways | * | |
| 16143.11 | Bus Duct | * | Locate with consideration for service |
| 16143.3 | Emergency Shut-off Switch | 1 | |
| 16143.61-2 | Duplex Receptacle, General Use | * | |
| 16143.62-2 | Receptacle, Equipment Use | * | Provide power to serve all equipment in the room. |

Remarks: * Quantity and capacity determined by equipment requirements. MULTI-PHASE POWER WILL LIKELY BE REQUIRED. An overhead bus duct may be appropriate in most applications.

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C210 | Student Computers - Desktop, Hardwired | 20 | CNC - Other labs located with computers in adjacent Computer Lab |
| 00000.CR100 | Card Reader | 1 | At suite entry |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L04 | HID Lighting | 1 | |
| 16515.L160 | Task Lighting | * | |
| 16515.L170 | White Board Lighting | * | |

Remarks:

## Room 210.04 Advanced Manufacturing

**Laboratory Facilities**

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 2 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side; double doors for each lab |
| 08331.OCD | Overhead Coiling Door | 1 | | | 10' X 10' for each lab. Access to exterior should be confirmed. |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

Note Ref #:

Remarks: Each Lab will have unique equipment requirements. Verify all equipment and provide necessary power, data, air, etc.

### Furnishings

Note Ref #:

Remarks: Each Lab will have unique furnishing requirements. Verify all equipment / furnishings and provide all necessary power, data, air, etc.

## Room 210.04 Advanced Manufacturing

**Laboratory Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10520.D1 | Fire Extinguisher Cabinet & Fire Extinguisher | 1 | CFCI | One per lab |
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | One per sink location |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | One per sink location |
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | One per lab area |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 2 | CFCI | Two per lab |

Note Ref #:

Remarks Reference Executive Summary for each space's requirements. Provide marker tray at each marker paint location.

## Room 210.04 Advanced Manufacturing

**Laboratory Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color - black |
| **Countertops** | | | |
| Finish | PL | Plastic Laminate | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | or exposed structure - painted |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | |
| **Floor** | | | |
| Finish | 09960.SC-1 | Sealed Concrete | Process Automation / HVAC / Welding |
| Finish 2 | 09000.001 | Hard Surface/No-wax Flooring | Electrical and Motors / CNC |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 210.05 Medical Assisting

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Medical Assisting Labs are used for skill practice and demonstration. The labs are also used for lecture and for lab presentations. The hands-on training component requires specific training equipment, support utilities, and space requirements.

GENERAL REQUIREMENTS

-Room Size: 90 ASF per student
-Anticipated Room Occupancy: 24 students
-Ceiling Height: 9' - 10'-0"

**Accreditation standards for the specific program supersede anticipated occupancy and size requirements**

Supplemental Spaces Required: (included in 90 ASF)
2 - 10' x 12' Exam Room
1 -10' x 15' Storage Room

Stations for each student to use a microscope, do laboratory procedures and simple skills required by the program. Tables and chairs to accommodate 24 students. Examination rooms (at least two) with exam tables, rolling stools, mayo stand, privacy curtain, cabinets, sinks in each exam room, table and chair for students to document assessments. Storage room attached for easy access of equipment. All cabinets should be lockable.

Spaces need to meet all guidelines of accrediting agencies.

SPECIAL ROOM REQUIREMENTS

A mock restroom may be provided if space permits.

ADJACENCIES/LOCATION

Medical-related labs should be grouped near their department offices. Storage areas for the spaces should have direct connection to the rooms for which they are used.

## Room 210.05 Medical Assisting

**Laboratory Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.S170 | Sinks - Single Bowl | 2 | | One in each Exam Room, preferably in a countertop |
| 15440.S171 | Sinks - Double Bowl | 4 | | In Lab Room |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | 2 | Provide one on each wall of Main Lab |
| 16143.62-2 | Receptacle, Equipment Use | 2 | within Exam Room |

Remarks: * Quantity determined by equipment requirements.

## Room 210.05 Medical Assisting

**Laboratory Facilities**

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.CR100 | Card Reader | 1 | At suite entry |
| 00000.DC100 | Data Connections | 1 | In Lab |
| 00000.PRJ1 | LCD Computer Projector or Display Monitor Infrastructure | 1 | In Lab |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted or Display Monitor | 1 | In Lab |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |

**Instructional**

| | | | |
|---|---|---|---|
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks: * Quantity determined by equipment requirements.

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed volumetric troffer (basket style fixture) | 1 | |
| 16515.L170 | White Board Lighting | * | Markerboard lighting and front row should be on separate toggle switch for control at front of |

Remarks: Quantity as required.

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR111 | Door - Type A (Solid) | 5 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side; total anticipated |

Remarks:

### Special Requirements

Remarks:

## Room 210.05 Medical Assisting

**Laboratory Facilities**

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | 20 | CFCI | Lab |
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | 8 | CFCI | Exam Room |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | 20 | CFCI | Lab |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | 8 | CFCI | Exam Room |
| FURN.ER100 | Exam Table | 2 | FF&E | |
| FURN.ER101 | Rolling Stool | 2 | FF&E | |
| FURN.ER102 | Mayo Stand | 1 | FF&E | |
| FURN.SC10 | Student Chairs | 24 | FF&E | |
| FURN.SW09 | Student Workstation | 24 | FF&E | |
| FURN.T210-2 | Work Table, 36" x 72" | 6 | FF&E | Lab |
| FURN.TS01 | Teaching Station | 1 | FF&E | Lab, Accommodate equipment |
| 12360.MS110 | Microscope Storage | 1 | CFCI | Lab |

Note Ref #:
Remarks

## Room 210.05 Medical Assisting

**Laboratory Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10191.A1 | Cubicle Curtain & Track | 2 | CFCI | Exam Rooms |
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | at each sink location |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | at each sink location |
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Full height |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:

Remarks Provide a 4 LF of marker tray at the front wall. Locate the tray to the right/left of marker wall (not centered).

## Room 210.05 Medical Assisting

**Laboratory Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Countertops** | | | |
| Finish | EPR | Epoxy Resin | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-2 | Acoustical Panel Ceiling-Washable | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |
| **Casework** | | | |
| | PL | Plastic Laminate | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 210.06 Dental Assisting

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Usage of this space depends upon whether the area will be used as a clinic or just for training students. Clinics will require area for record keeping, insurance filing, reception area, waiting area, bathroom for patients.

Lab will require dental chairs with air, suction, oxygen and water supply at each station. Lab would need sinks and area or room for manikins to learn to brush teeth and a room or area for making dental impressions and mixing dental fillings. Drills, and equipment for cleaning teeth. Rolling chairs and tables for storage at each bedside, mayo stands, overhead lights. Lab will require darkroom and x-ray machine and developing machine. Rooms for computers, record keeping skills and DVD and display for training.

GENERAL REQUIREMENTS

-Room Size: 90 ASF per student
-Anticipated Room Occupancy: 12 students
-Ceiling Height: 9' - 10'-0"

**Accreditation standards for the specific program supersede anticipated occupancy and size requirements**

Supplemental Spaces Required (included in the 90 SF ASF):
1-Lab
1-Dental Exam Room: 12' x 12', Exam Chair, drills, cleaning equipment, mayo stand
1-Darkroom: X-ray machine and developing machine
1-Materials Lab: 32 ASF per student

As noted above, other space requirements are needed if this is an operating community clinic.

SPECIAL ROOM REQUIREMENTS

No requirements

ADJACENCIES/LOCATION

Medical related labs should be grouped near their department offices. A classroom should be nearby for lecture use, but not dedicated to this program. Storage areas for the spaces should have direct connection to the rooms for which they are used.

## Room 210.06 Dental Assisting

**Laboratory Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.MA24 | Medical Air | 1 | | Exam Room |
| 15440.MV23 | Medical Vac | 1 | | Exam Room |
| 15440.S170 | Sinks - Single Bowl | 1 | | Exam Rooms in countertop & drains must have screen traps. |
| 15440.WS21 | Water Supply | 1 | | Exam Room |

Remarks: Accommodation for hazardous materials disposal must be made.

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | * | |
| 16143.62-2 | Receptacle, Equipment Use | * | |

Remarks: * Quantity determined by equipment requirements.

## Room 210.06 Dental Assisting

**Laboratory Facilities**

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.CR100 | Card Reader | 1 | at suite entry |
| 00000.DC100 | Data Connections | 1 | Teaching station in Lab or in Reception Area if appropriate |
| 00000.PRJ1 | LCD Computer Projector or Display Monitor Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted or Display Monitor | 1 | |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed valumetric troffer (basket style fixture) | * | |
| 16515.L220 | Overhead Exam Light | 1 | Exam Rooms |
| 16515.L170 | White Board Lighting | * | Markerboard lighting and front row should be on separate toggle switch for control at front of |

Remarks: Quantity as required.

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side; lead for X-Ray Room |

Remarks:

## Room 210.06 Dental Assisting

**Laboratory Facilities**

### Special Requirements

Remarks: Lead up to 7'-0" in X-Ray Room

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 11000.AC | Autoclave | 1 | OFOI | |
| 11000.DA100 | Dental Chair | 1 | OFOI | |
| 11000.DA110 | Drills & Cleaning Equipment | 1 | OFOI | |
| 11000.XR120 | X-Ray Machine | 1 | OFOI | |
| 11000.XR130 | X-Ray Developing | 1 | OFOI | |

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | 6 | CFCI | |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | 6 | CFCI | |

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | at each sink location |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | at each sink location |
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Full height |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:
Remarks

## Room 210.06 Dental Assisting

**Laboratory Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Countertops** | | | |
| Finish | EPR | Epoxy Resin | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-2 | Acoustical Panel Ceiling-Washable | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |
| **Casework** | | | |
| | PL | Plastic Laminate | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 210.07 Nursing

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Nursing Labs are used for skill practice and demonstration. The labs are also used for lecture and for lab presentations. The hand-on training component requires specific training equipment, support utilities, and space requirements.

GENERAL REQUIREMENTS

-Room Size: 90 ASF per student and includes instructional, hands-on and storage
-Anticipated Room Occupancy: 20 students

**Accreditation standards for the specific program supersede anticipated occupancy and size requirements.**

Supplemental Spaces Required:
1-Storage: Varies by equipment needs, 250 SF minimum
1-Mock Nurse's Station within the Lab area to accommodate 6 - 8 computers
1-Simulation Patient Room - should be equipped to match standard hospital Patient Room set-up. In addition, a 2-way window for instructor oversight is needed.

Each nursing lab will require 10 hospital beds, 10 bedside tables, over the bed tables, stretchers, tables and chairs to accommodate at least 10 and up to 20 students. Cabinets, sinks and counter tops must be in each lab. Privacy curtains are between each bed. DVD and display in each lab with capability for laptop and internet access. Nursing stations with computer access are required with record keeping programs and charting capability. Adjacent storage room for supplies.

References: Current Guidelines for Design and Construction of Health Care Facilities; Nursing Lab Guidelines

SPECIAL REQUIREMENTS AND ELEVATORS

All doors leading up to this room must be wide enough for a hospital bed.

ADJACENCIES/LOCATION

Medical related labs should be grouped near their department offices. A classroom should be nearby for lecture and some hands-on activities but is not dedicated to this program. Storage areas for the equipment should have direct connection to the rooms for which they are used.

## Room 210.07 Nursing

**Laboratory Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.S110 | Sinks | 3 | | Handwashing sink, locate in countertop. Elbow blades. |
| 15440.S160 | Utility Sink | 1 | | Locate in countertop. Elbow blades. |
| 15440.SL19 | Suction Line | 1 | | Needs compressed air. |
| **Fixed** | | | | |
| 15440.SC130 | Vacuum | 1 | | |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | * | |
| 16143.62-2 | Receptacle, Equipment Use | * | |

Remarks: * Quantity determined by equipment requirements.

## Room 210.07 Nursing

**Laboratory Facilities**

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.CR100 | Card Reader | 1 | at suite entry |
| 00000.DC100 | Data Connections | 16 | Provide one at each bed, teaching station, nurse's station, and exam room. |
| 00000.PRJ1 | LCD Computer Projector or Display Monitor Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted or Display Monitor | 1 | |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |

**Instructional**

| | | | |
|---|---|---|---|
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed valumetric troffer (basket style fixture) | * | |
| 16515.L230 | Wall Light | * | at beds |
| 16515.L170 | White Board Lighting | * | Markerboard lighting and front row should be on separate toggle switch for control at front of |

Remarks: Quantity as required.

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side; must accommodate hospital bed width; double doors to the lab. |

Remarks:



## Room 210.07 Nursing

**Laboratory Facilities**

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.BT | Bedside Tables | 10 | OFOI | |
| 12000.HB100 | Hospital Bed | 10 | OFOI | |
| 12000.OBT | Over Bed Tables | 10 | OFOI | |
| 12000.STR | Stretcher | 10 | OFOI | |

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | 24 | CFCI | |
| 12310.GS130 | General Storage Cabinet - Closed | 3 | CFCI | |
| 12310.NS100 | Plastic Laminate Nurse Station | 1 | CFCI | |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | 24 | CFCI | |
| FURN.D120 | Standard Desk & Chair | 1 | FF&E | Teacher |
| FURN.SC10 | Student Chairs | 20 | FF&E | |
| FURN.T23 | Table | 10 | FF&E | 24" X 72"; 2 per table |
| 12310.BIOHZD100 | Biohazard Storage Cabinet | 1 | CFCI | |
| 12310.HC100 | Hazardous Chemicals Storage | 1 | CFCI | |

Note Ref #:
Remarks

## Room 210.07 Nursing

**Laboratory Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10191.A1 | Cubicle Curtain & Track | * | CFCI | per bed location |
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | * | OFOI | per sink location |
| 10801.G1 | Automatic Soap Dispenser | * | OFOI | per sink location |
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Full height |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 2 | CFCI | |

Note Ref #:
Remarks

## Room 210.07 Nursing

**Laboratory Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Countertops** | | | |
| Finish | PL | Plastic Laminate | |
| Finish 2 | EPR | Epoxy Resin | For all "wet" or "chemical" areas |
| **Ceiling** | | | |
| Type 1 | 09511.APC-2 | Acoustical Panel Ceiling-Washable | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |
| **Casework** | | | |
| | PL | Plastic Laminate | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 210.08 Radiologic Technology

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Use of Radiologic Technology Labs are for skill practice and demonstration. The labs are also used for lecture and for lab presentations. The hand-on training component requires specific training equipment, support utilities, and space requirements.

GENERAL REQUIREMENTS

-Room Size: 90 ASF per student
-Anticipated Room Occupancy: 20
-Ceiling Height: 10'-0"

**Accreditation standards for the specific program supersede anticipated occupancy and size requirements**

Bathroom access next to the x-ray rooms for special procedures. X-ray room or rooms special leaded rooms. Darkroom and viewing room.

They would need a room for ultrasound training and equipment. Equipment needs to be specifically identified to provide accurate layouts.

Rooms Required and Approximate Sizes:
- X-Ray Room: 12' x 15', lead-lined walls and doors
- Dark Room: 8' x 10'
- Developing Lab: TBD
- Ultrasound: 12' x 12'

References: Guidelines for Design and Construction of Health Care Facilities

SPECIAL ROOM REQUIREMENTS

No requirements

ADJACENCIES/LOCATION

Medical related labs should be grouped as a department near department offices, and adjacent to classroom. Storage areas for the spaces should have direct connection to the rooms for which they are used.

## Room 210.08 Radiologic Technology

**Laboratory Facilities**

# UNIQUE ROOM REQUIREMENTS

## Mech/Electrical/Plumbing Requirements

### Mechanical

Remarks: Exhaust as required by code

### Plumbing/Gases/Utilities

Remarks:

### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | * | |
| 16143.62-2 | Receptacle, Equipment Use | * | Provide power to serve all equipment in the room. |

Remarks: * Quantity determined by equipment requirements.

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.CR100 | Card Reader | 1 | at suite entry |
| 00000.DC100 | Data Connections | * | |
| 00000.TEL | Telephone | 1 | |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed valumetric troffer (basket style fixture) | * | |

Remarks: Quantity as required.

## Room 210.08 Radiologic Technology

**Laboratory Facilities**

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side; lead lined for X-Ray Room; oversized |

Remarks:

### Special Requirements

Remarks: Lead lined walls to 7'-0" min. A.F.F.; Infrastructure above ceiling to support X-Ray machines

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 11000.US100 | Ultrasound Machine | 1 | OFOI | |
| 11000.XR100 | X-Ray Table | 1 | OFOI | |
| 11000.XR120 | X-Ray Machine | 1 | OFOI | |
| 11000.XR130 | X-Ray Developing | 1 | OFOI | |
| 11000.XR140 | X-Ray viewer, wall-mounted | 1 | OFOI | |

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.102 | Lineal Feet of Countertop w/ Knee space | 6 | CFCI | |
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | 6 | CFCI | |

Note Ref #:
Remarks

## Room 210.08 Radiologic Technology

**Laboratory Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Full height |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Countertops** | | | |
| Finish | PL | Plastic Laminate | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-2 | Acoustical Panel Ceiling-Washable | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | Provide lead lining around X-Ray room |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |
| **Casework** | | | |
| | PL | Plastic Laminate | |
| **Doors** | | | |
| Face | WD | Wood | Lead doors |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 210.09 Respiratory Care

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Use of Respiratory Care Labs are for skill practice and demonstration. The labs are also used for lecture and for lab presentations. The hand-on training component requires specific training equipment, support utilities, and space requirements.

GENERAL REQUIREMENTS

-Room Size: 90 ASF per student (includes all areas and storage for Respiratory programs)
-Anticipated Room Occupancy: 20
-Ceiling Height: 10'-0"
-Acoustic Rating: STC 50

**Accreditation standards for the specific program supersede anticipated occupancy and size requirements**

Lab space with Hospital Room adjacent.

The space would require a hospital room that is equipped with air, oxygen, suction, hospital beds, bedside tables, and chairs. This room would be solely for respiratory therapy. The Hospital Room could also double for the sleep study portion of the program and could accommodate the equipment necessary for sleep study. The walls would need to be sound-proofed for this room to be the most effective.

A room for the pulmonary function testing with room for the pulmonary function capsule, chair table and monitoring station.

Required Rooms:
- Hospital Room / Sleep Study Room / Check-Off Room: 12' x 14' (one room serves three functions).
- Pulmonary Function Room: 8' X 10'

References: Guidelines for Design and Construction of Health Care Facilities

SPECIAL ROOM REQUIREMENTS

No requirements

ADJACENCIES/LOCATION

Medical related labs should be grouped as a department near department offices. Storage areas for the spaces should have direct connection to the rooms for which they are used.

## Room 210.09 Respiratory Care

**Laboratory Facilities**

# UNIQUE ROOM REQUIREMENTS

## Mech/Electrical/Plumbing Requirements

### Mechanical

Remarks: Exhaust as required by code

### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.O2 | Oxygen | 1 | | per Hospital Room |
| 15440.S170 | Sinks - Single Bowl | 1 | | per Hospital Room |
| 15440.SL19 | Suction Line | 1 | | per Hospital Room |

Remarks:

### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.3 | Emergency Shut-off Switch | 1 | |
| 16143.61-2 | Duplex Receptacle, General Use | * | |
| 16143.62-2 | Receptacle, Equipment Use | * | |

Remarks: * Quantity determined by equipment requirements.

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.CR100 | Card Reader | 1 | at suite entry |
| 00000.DC100 | Data Connections | 4 | |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

## Room 210.09 Respiratory Care

**Laboratory Facilities**

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed valumetric troffer (basket style fixture) | * | |

Remarks: Quantity as required.

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side; 1-1/2 doors |

Remarks:

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 11000.PLM | Pulmonary Function Capsule and Monitoring Station | 1 | OFOI | |
| 12000.BT | Bedside Tables | 1 | OFOI | |
| 12000.HB100 | Hospital Bed | 1 | OFOI | |

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | 10 | CFCI | in Lab |
| 12310.B120 | Lineal Feet of Base Cabinets - Closed | 6 | CFCI | Sink base in hospital room |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | 10 | CFCI | in Lab |
| FURN.C20 | Chair | 2 | FF&E | 1 in each room |

Note Ref #:
Remarks *Cabinets - as much as possible.

## Room 210.09 Respiratory Care

**Laboratory Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10191.A1 | Cubicle Curtain & Track | 1 | CFCI | Exam Rooms |
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | per sink |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | per sink |
| **Visual Display** | | | | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | in Lab |

Note Ref #:
Remarks

## Room 210.09 Respiratory Care

**Laboratory Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Countertops** | | | |
| Finish | PL | Plastic Laminate | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-2 | Acoustical Panel Ceiling-Washable | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |
| **Casework** | | | |
| | PL | Plastic Laminate | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 210.10 Surgical Technology

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Use of Surgical Technology Labs are for skill practice and demonstration. The labs are also used for lecture and for lab presentations. The hand-on training component requires specific training equipment, support utilities, and space requirements.

GENERAL REQUIREMENTS

-Room Size: 90 ASF per student
-Anticipated Room Occupancy: 12
-Ceiling Height: 10'-0"

**Accreditation standards for the specific program supersede anticipated occupancy and size requirements**

Separate classroom and OR. Mock OR (Operating Rooms) needed with one OR bed each, anaesthesiology machine, (oxygen, air, suction available). Cabinets for storage of supplies, OR lights, room for mayo stands and back tables to set up instruments. Needs at least one area for scrub sinks with storage attached. Dirty utility room attached to OR for simple removal of contaminated equipment with Autoclave and sink.

Supplemental Spaces Required:

Mock Surgical (Class B, intermediate procedures): Minimum of 250 sf with minimum dimension of 15 feet, provide 3'-6" clearance around all sides of Scrub Room. Provide room at entrance to Surgical Room for simulation of cleaning prior to entering OR.
Soiled Work Room: 8' x 10' containing an autoclave and sink.
Storage Room: 10' x 12'
Scrub Room: TBD
Sterilizer Room: TBD
Locker Rooms: TBD

SPECIAL ROOM REQUIREMENTS

No requirements

ADJACENCIES/LOCATION

Medical related labs should be grouped as a department near department offices. Storage areas for the spaces should have direct connection to the rooms for which they are used.

References: Guidelines for Design and Construction of Health Care Facilities

## Room 210.10 Surgical Technology

**Laboratory Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Exhaust as required by code

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.AL18 | Air Lines | 1 | | OR |
| 15440.SL19 | Suction Line | 1 | | |
| 15440.SS150 | Scrub Sink | 2 | | Knee operated. 1 in workroom, 1 in surgical technology |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | * | Provide at front and rear of Labs. |
| 16143.62-2 | Receptacle, Equipment Use | * | |

Remarks: * Quantity determined by equipment requirements.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.CR100 | Card Reader | 1 | at suite entry |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |

Remarks:

## Room 210.10 Surgical Technology

**Laboratory Facilities**

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed volumetric troffer (basket style fixture) | * | |

Remarks: Quantity as required.

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side; enlarged doors (1-1/2 size) |

Remarks: Swinging doors (partial glass) from Prep to Operating Room. Interior window - view to corridor with blinds.

### Special Requirements

Remarks: Above ceiling structural grid for lights, etc.

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 11000.AC | Autoclave | 1 | OFOI | |
| 11000.ORTBL | Operating Room Table | 1 | OFOI | |
| 11000.XR140 | X-Ray viewer, wall-mounted | 1 | OFOI | |
| 12000.AM17 | Anesthesiology Machine | 1 | OFOI | |
| 12000.INSTBL | Instrument Table | 1 | OFOI | |

Note Ref #:
Remarks

## Room 210.10 Surgical Technology

**Laboratory Facilities**

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B120 | Lineal Feet of Base Cabinets - Closed | * | CFCI | |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | * | CFCI | |
| FURN.ER102 | Mayo Stand | 1 | FF&E | OR |
| 12310.SC200 | Storage Cabinets, Stainless Steel | 3 | CFCI | OR |

Note Ref #:

Remarks * Glass-faced cabinets in Prep Room. Verify amount per space with users. As much as possible.

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | per sink |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | per sink |
| **Visual Display** | | | | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:
Remarks

## Room 210.10 Surgical Technology

**Laboratory Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black. Consider a rolled base if a sheet flooring is used. |
| **Countertops** | | | |
| Finish | EPR | Epoxy Resin | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-2 | Acoustical Panel Ceiling-Washable | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | Consider a sheet good. |
| **Casework** | | | |
| | PL | Plastic Laminate | Under counters; glass-faced above counter |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 210.11 Science Labs

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION AND OVERVIEW

Science Labs are to be designed to accommodate multiple lab activities, including Anatomy, Physiology, General Microbiology, Biology, Biotechnology, Chemistry, Geology, Ecology, Physics, etc. As much as possible, flexibility should be designed in each space so that programmatic change can be accounted for.

GENERAL REQUIREMENTS

-Room Size (number of square feet per student): 66 sq.ft.
-Room Dimensions: 40’ x 40’
-Number of Students: 24
-Ceiling Height: 10'-0"
-Acoustical considerations: None
-Storage needs: Need adjacent room(s) for supplies and hazardous chemicals at least 250 sq. ft.
-Delivery access: None

SPECIAL ROOM REQUIREMENTS

Each Lab should be provided with infrastructure necessary for all listed equipment. Equipment to be provided only as needed.

120v outlets to accommodate a variety of electrical equipment (a minimum of a 20amp circuit per 4 students). One dedicated 208/220v circuit for a drying oven and for autoclaves, minimum.

Need at least (1) special exhaust hood station for working with harsh chemicals in the science labs and space to hang a periodic table wall chart.

Each of the science labs will require stations for the students to perform their projects/assignments for each class and tables for the students to use during the lecture portion of the class period.

Ventilation fan must remove air at a minimum of 8 air changes/hour or 3,200 cu. ft./minute.

Equipment: autoclave, refrigerator, freezer, microbial incubator, spectrophotometer, electrophoresis set ups, micro-centrifuges, plant work and growth stations, aquarium, terrarium, 20 microscopes , safety wash station, hand sink, glassware washing equipment, commercial sink (16” x 20”, cold/hot water).

Maintain proper aisles and traffic patterns through the laboratory area for student movement as well as for instructor’s supervision and capability to react to laboratory conditions needing the instructor’s quick response.

Include one (1) ADA station in each Lab.

Special Electronic Access can be considered at the discretion of each campus.

ADJACENCIES/LOCATION

Located off of a major corridor, adjacent to other labs/classrooms.

Labs should share prep/storage space to increase efficiency. Example: (2) labs share (1) 500 SF storage space. Each laboratory must be connected to a preparatory laboratory room to be use by instructors and staff. The preparatory laboratory room should provide adequate areas for preparing materials for laboratory use as well as cleaning up after the laboratory activity. The prep room should be connected to the laboratory room and be furnished with lab benches, a large sink with water supply and drain, eye wash, locking cabinets above and below the bench for equipment storage, one fume hood (ventilation directly outside the room), cabinets for chemicals and for flammable materials, one computer and a telephone. Hood should have water, gas, and electricity

## Room 210.11 Science Labs

**Laboratory Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

| Item | | Qty | Remarks |
|---|---|---|---|
| 15815.MD141 | Chemistry Hood Exhaust 10" | 5 | 4 per classroom, 1 per storage space |
| 15815.MD210 | General Classroom Exhaust | 1 | |

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.AP | Acid Piping | * | | At all drain locations. |
| 15440.DIDHS | Dishwasher with DI Water | 1 | | |
| 15440.DIH20 | DI Water | 1 | | |
| 15440.DW | Dishwasher | 1 | | |
| 15440.EW110 | Emergency Eye Wash Station | 2 | | 1 in storage, 1 in classrooom. Requires floor drain. |
| 15440.NITR | Nitrogen Tank | 1 | | |
| 15440.OSM | Reverse Osmosis Package, wall-mounted | 1 | | |
| 15440.OSMCT | Reverse Osmosis Cart | 1 | | |
| 15440.S110 | Sinks | 12 | | Hot and cold water. |
| 15440.SC100 | Gas Turrets | 12 | | |
| 15440.SC110 | Air Turrets | 12 | | |
| 15440.SC120 | Compressed Air | 12 | | |
| 15440.SH120 | Emergency Shower | 2 | | 1 in storage, 1 in classrooom. Requires floor drain. |

#### Fixed

| | | |
|---|---|---|
| 15440.SC130 | Vacuum | 12 |

Remarks: Central shut-off for all gas. One outlet for two students for each type of service. Compressed air, gas, and vacuum should be supplied overhead with flexible workstations.

## Room 210.11 Science Labs

**Laboratory Facilities**

### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.R130 | 20 amp circuit per 4 students | 3 | For 10 student computers |

Remarks:

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.CR100 | Card Reader | 1 | |
| 00000.DC100 | Data Connections | 28 | Each workstation, teaching station, telephone, wireless access point |
| 00000.PRJ1 | LCD Computer Projector or Display Monitor Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted or Display Monitor | 1 | |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed valumetric troffer (basket style fixture) | * | |
| 16515.L170 | White Board Lighting | * | Markerboard lighting and front row should be on separate toggle switch for control at front of |

Remarks: Quantity as required.

## Room 210.11 Science Labs

**Laboratory Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.FRZ | Freezer | 1 | FF&E | Located in support space. |
| 12000.REF | Refrigerator | 1 | FF&E | Located in support space. |
| 12000.E120 | Ice Machine | 1 | FF&E | Located in support space. |
| 11000.AC | Autoclave | 1 | OFOI | Located in support space. |
| 12000.DO16 | Drying Oven | 1 | OFOI | Located in support space. |
| 11610.A1 | Fume Hood | 2 | CFCI | One in support space, one in lab |
| 12360.F1 | Goggle Storage Cabinet | 1 | CFCI | with cleaning area |

Note Ref #:
Remarks

## Room 210.11 Science Labs

**Laboratory Facilities**

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.KC100 | Key Cabinet | 1 | CFCI | Wall-mounted in lab |
| FURN.S300 | Student Stool | 24 | FF&E | Metal or plastic |
| FURN.TCHR | Teacher Chair | 1 | FF&E | |
| 12360.B110 | Lineal Feet of Base cabinets | 30 | CFCI | Lockable |
| 12360.DM102 | Teacher's Demonstration Island w/ Desk | 1 | CFCI | with gas, hot/cold water & electricity. Accommodate equipment. |
| 12360.DM103 | Student Workstation, 4 per table | 6 | CFCI | Including lockable student storage |
| 12360.GS110 | General Storage Cabinet - Closed | 4 | CFCI | Lockable |
| 12360.GS130 | Flammable/Chemical Storage | 1 | CFCI | |
| 12360.W110 | Lineal Feet of Wall Cabinets | 30 | CFCI | Provide some for growing plants, with access to natural light. |

Note Ref #:

Remarks: Furniture must be placed in such a way to allow maintaining effective sight lines for student participation in demonstration activities.

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10520.D1 | Fire Extinguisher Cabinet & Fire Extinguisher | 1 | CFCI | |
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | |
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Full height |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 2 | CFCI | |

Note Ref #:

Remarks

## Room 210.11 Science Labs

**Laboratory Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09671.RS | Resinous | |
| **Countertops** | | | |
| Finish | EPR | Epoxy Resin | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09671.RS | Resinous | |
| **Casework** | | | |
| | MT | Metal | /Wood |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

# Room 210.12 Paramedic Labs

**Laboratory Facilities**

## Executive Summary

SPACE DESCRIPTION AND OVERVIEW

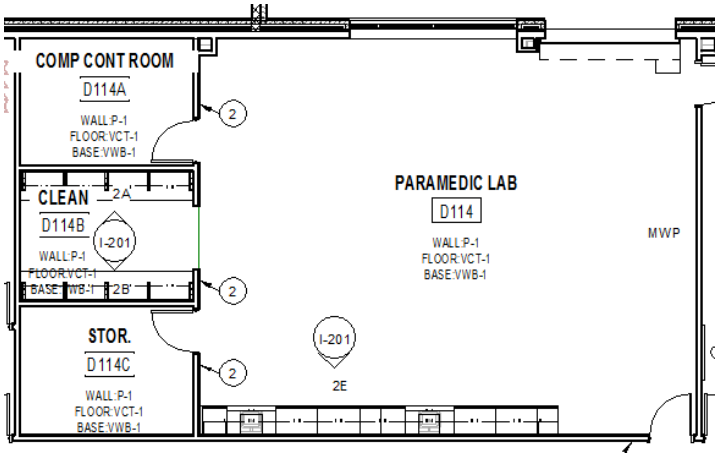
Parametric labs are for skill practice and demonstrations. The labs are used for lab presentations. The hands-on training component requires specific training equipment, support utilities, and space requirements.
General Requirements
Ceiling Height: 10'-0"
Room size to accommodate ambulance compartment if applicable.

**Accreditation standards for the specific program supersede anticipated occupancy and size requirements**

SUPPLEMENTAL SPACES REQUIRED:
Computer Control Room
Clean Room - Open countertop of 2 walls and closed upper cabinets.
Storage Room 10'x10'

ADJACENCIES / LOCATIONS
Located on first floor at an exterior wall if using ambulance box.

SAMPLE FLOOR PLAN

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## Room 210.12 Paramedic Labs

**Laboratory Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.S110 | Sinks | 2 | | Single compartment |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 1 | Quantity determined by requirements of System Standards. |
| 16143.62-3 | Receptacle, Equipment Use | 1 | Power for ambulance box (if applicable) |

Remarks:

#### Technology

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L02 | 2x4, fluorescent | * | |

Remarks: Quantity as required.

## Room 210.12 Paramedic Labs

**Laboratory Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | |
| 08000.OD100 | Overhead Door | 1 | | 9'-0" Wide min., for ambulance box (if applicable) |

Remarks:

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 21013 | Ambulance Compartment | 1 | OFOI | (if applicable) |

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B120 | Lineal Feet of Base Cabinets - Closed | 25 | CFCI | |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | 25 | CFCI | |

Note Ref #:
Remarks Provide adequate storage for training mannequins and equipment.

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | |

Note Ref #:
Remarks

## Room 210.12 Paramedic Labs

**Laboratory Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Countertops** | | | |
| Finish | PL | Plastic Laminate | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09651.VCT | Vinyl Composition Tile | |
| **Casework** | | | |
| | PL | Plastic Laminate | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 210.13 Culinary Lab

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Culinary labs are used for skill practice and demonstration. The hands-on training will require additional supporting equipment and utility connections. Verify equipment and supporting needs based on the specific course taught. This space standard will outline general needs and requirements. However, each program will vary. Equipment, courses, and programmed use must be reviewed in detail at the beginning of the project.

Additional electrical, gas, plumbing, heating, cooling, ventilation or other utilities may be required based on the educational program.

GENERAL ROOM REQUIREMENTS

Minimum Ceiling Height: 10'-0" A
Anticipated occupancy: 16 students

CULINARY LAB TYPES:

Foods Culinary Lab / Multipurpose
Garde Manger – Additional storage and aging room required. Humidity and temperature control required for these spaces.
Bakery / Pastry
Chocolate Room – Additional humidity and temperature control required for this space.
Bakery Breads
Meat Fabrication - Additional cooler storage room required.
Teaching Restaurant -Consideration for different types of seating, Point of Sale System, and Server Station.

Support Space

Dry Storage, Cooler Storage, Freezer Storage – Food and material storage for the culinary labs. Access to the storage should be through a 6 foot wide double door. Provide desk space for staff to prepare and check out of ingredients and equipment. Storage should be located near the labs.

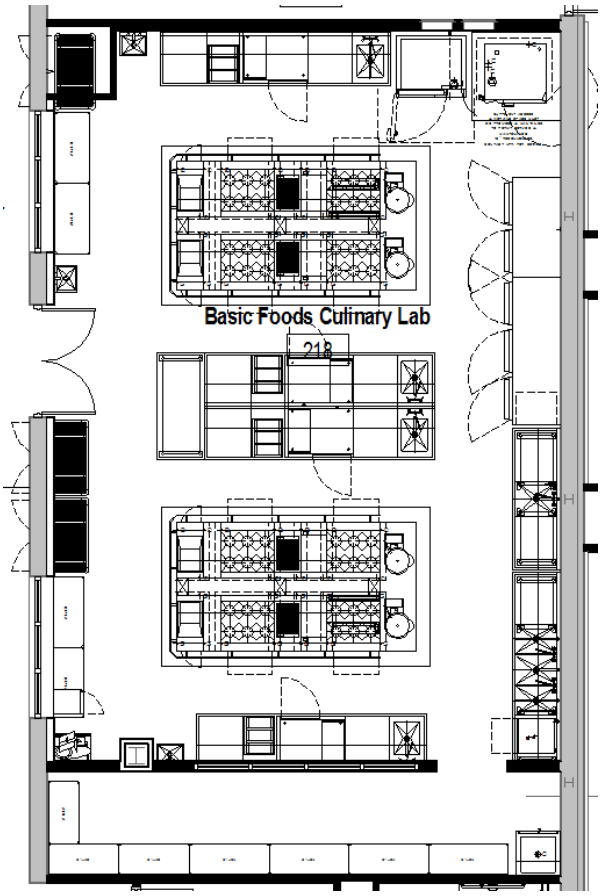
Locker Rooms - Changing rooms and restrooms for students to change. Provide lockers.

LOCATION/ADJACENCIES

Wide corridors should be considered to allow the movement of the equipment and materials between spaces.

Access shall be provided to a trash location and receiving. Confirm the access is large and wide enough for equipment and carts to easily be moved. Consider sustainable practices for the organic trash.

SAMPLE FLOOR PLAN



Ivy Tech Central Indiana – Corporate College and Culinary Center

## Room 210.13 Culinary Lab

**Laboratory Facilities**

# UNIQUE ROOM REQUIREMENTS

## Mech/Electrical/Plumbing Requirements

### Mechanical

| Item | Qty | Remarks |
|---|---|---|
| Kitchen Exhaust | 1 | Exhaust system as required for kitchen |

Remarks: HVAC System to be coordinated with the kitchen exhaust system and the equipment in the specific lab. Provide adaquate ventilation and coordinate with the exhaust system.

### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.FD101 | Floor Drain | * | | Quantity to be determined by program and layout. |
| 15440.GI17 | Grease Interceptor | 1 | | As required by Board of Health and local requirements. |
| 15440.S110 | Sinks | * | | Quantity to be determined by program and layout. |
| **Fixed** | | | | |
| 231123.GSE | Gas Service for Kitchen Equipment | * | | Quantity to be determined by program and layout. |
| 231123.GSO | Gas Emergency Shut Off | 1 | | |

Remarks: Coordinate plumbing with kitchen equipment. Meet Board of Health requirements. Recirculation of hot water system for hand washing to be considered.

### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | 1 | As required by Electrical System Standards |
| 16143.62-2 | Receptacle, Equipment Use | 1 | Coordinate with Owner equipment needs |

Remarks: Provide electrical

## Room 210.13 Culinary Lab

**Laboratory Facilities**

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.AES | Independent Audio Enhancement System | 1 | |
| 00000.M | Video Monitors - Flat Screen | 1 | Quantity to allow each student to view display. Coordinate screen size with distances. |
| 00000.VCAM | Video Camera | 1 | At each table including demonstration table |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | Switching camera display |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L120 | Indirect Lighting | | |

Remarks: Quantity as required.

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR113 | Door - Type C (Window in top 1/2 of door) | 1 | | 6' Wide Double door |
| **Window** | | | | |
| 08000.IW | Interior Window | 1 | | Window from the hallway. Coordinate height and sill of window with the equipment. |

Remarks:

### Special Requirements

Remarks:

## Room 210.13 Culinary Lab

**Laboratory Facilities**

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 11400.FS | Food Service Equipment, As required | 1 | FF&E | |

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.S300 | Student Stool | 16 | FF&E | Final quantity by program and region. |

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09671.RS | Resinous | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-2 | Acoustical Panel Ceiling-Washable | |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | |
| **Floor** | | | |
| Finish | 09671.RS | Resinous | Heat resistant |

Note Ref #:
Remarks

## Room 210.14 Advanced Automation and Robotics Labs

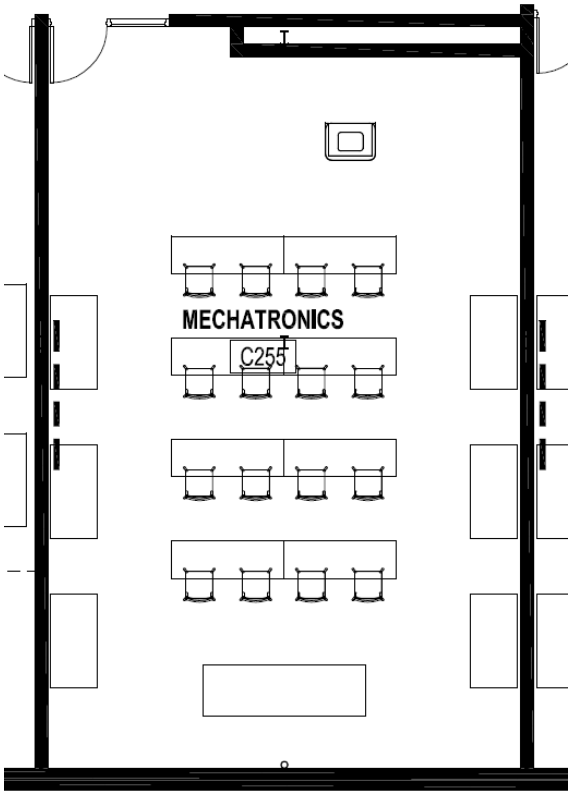
**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW
Advanced manufacturing type labs train students by using the Mechatronics training equipment. The majority of the lab use will involve hands-on training and will require specific equipment. The space is divided into computer stations along the perimeter and the training equipment in the center of the room. Coordinate the utility needs for the specific units used. The space standard will outline general lab standards and some specifics. Final verification of utility and space needs must be coordinated with the equipment.

GENERAL ROOM REQUIREMENTS
-Minimum Ceiling Height: 10'-0" – 12'-0" A.F.F.
-Minimum Room Size: 900 ASF
-Anticipated Room Occupancy: 12

SAMPLE FLOOR PLAN




Ivy Tech Hamilton County

## Room 210.14 Advanced Automation and Robotics Labs

**Laboratory Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.SC120 | Compressed Air | 1 | | Review utility requirements with equipment. |

Remarks: Provide emergency utility shut off at instructor location.

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 1 | |
| 16143.62-2 | Receptacle, Equipment Use | 1 | Computer Station power. |
| 16143.62-2 | Receptacle, Equipment Use | 1 | As required for equipment. Coordinate with proposed equipment. |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C210 | Student Computers - Desktop, Hardwired | 12 | |
| 00000.DC100 | Data Connections | 1 | As required for training equipment. |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

## Room 210.14 Advanced Automation and Robotics Labs

**Laboratory Facilities**

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L120 | Indirect Lighting | | |

Remarks: Quantity as required.

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | |

Remarks:

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 121112 | Motor Drive Trainers (MDT) | 3 | CFCI | |
| 121212 | Compressor | 1 | CFCI | |

Note Ref #:

Remarks: Coordinate other equipment requirements with Region or Instructor.

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.SC10 | Student Chairs | 12 | FF&E | |
| FURN.T140 | Student Computer Table | 6 | FF&E | 2 stations per table |
| FURN.TCHR | Teacher Chair | 1 | FF&E | |
| FURN.TS01 | Teaching Station | 1 | FF&E | |

Note Ref #:

Remarks

## Room 210.14 Advanced Automation and Robotics Labs

**Laboratory Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | |

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | Exposed structure is an option. |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | |
| **Floor** | | | |
| Finish | 09651.VCT | Vinyl Composition Tile | |
| Finish 2 | 09960.SC-1 | Sealed Concrete | Option. |
| **Doors** | | | |
| Face | WD | Wood | Option for Metal door. |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

# Room 210.15 Art Lab

**Laboratory Facilities**

## Executive Summary

SPACE DESCRIPTION & OVERVIEW
Used to allow students to express their talents through multiple mediums. These spaces may require different components, infrastructure, and equipment based on the specific program. Coordinate the space standard with the needs of the program, type of art, and existing or proposed equipment. Durability and the ability to clean are important aspects of the finishes and material selection.

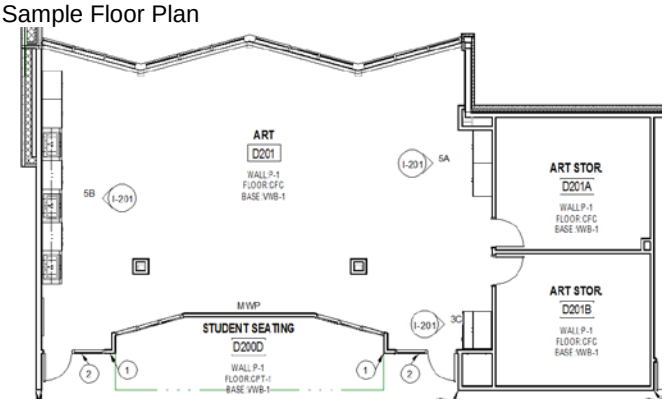
GENERAL REQUIREMENTS:
-Room Size 50 ASF per student
-Anticipated Room Occupancy 24
- Minimum Height: 9'-0" AFF

SUPPLEMENTAL SPACES:
Supplemental spaces may be required based on the specific program.
-General Storage
-Kiln Room
-Photo Dark Room
-Photo Print Processing
-3d Art
-Drawing Studio
-Painting Studio

LOCATION/ADJACENCIES
Prefer to access to north facing natural daylight. If using kiln, prefer outside wall location to exhaust.

GALLERY SPACE
Display space for student, faculty, or local art work. Support and lighting of the specific art pieces. Coordinate with the region the design for display cases for 3d artwork display. Locate the gallery near or in public spaces. Coordinate finishes with the adjacent spaces.

Sample Floor Plan




Ivy Tech Bloomington

## Room 210.15 Art Lab

**Laboratory Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Special air handling and ventilation for ceramics, kilns, glazing, photo dark room, painting, studio oil/solvents. Provisions for spray painting for 3D art or adhesives should be considered. Coordinate with program requirements special requirements.

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.S111 | Sinks w/ Plaster Trap | 1 | | |
| 15440.S130 | ADA sink | 1 | | |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | 1 | |
| 16143.62-2 | Receptacle, Equipment Use | 1 | Determine any additional equipment based on the specific program. |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| **Instructional** | | | |
| 00000.DC100 | Data Connections | 6 | Data connections for one video display device, two wireless access, one telephone, and one location for the teaching station. Additional As required. |
| 00000.PRJ1 | LCD Computer Projector or Display Monitor Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted or Display Monitor | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |

## Room 210.15 Art Lab

**Laboratory Facilities**

### Instructional

| | | |
|---|---|---|
| 00000.AVS100 | A/V Switching Control System | 1 |
| 00000.C140 | Teacher Computer with Media Package | 1 |
| 00000.CAM100 | Document Camera | 1 |
| 00000.DVD100 | DVD | 1 |

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L08 | 2x4 T8 lamp with prismatic lens | * | |
| 16515.L130 | Track Lighting | * | Drawing lab / Painting Lab |
| 16515.L170 | White Board Lighting | * | Markerboard lighting and front row should be on separate toggle switch for control at front of room. |

Remarks: Determine specific space needs based on the specific art program. Quantity as required.

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | |

Remarks:

### Special Requirements

Remarks: Provide provisions for waste materials from darkroom, painting, ceramics, 3D art, etc.

### Equipment

Remarks Equipment based on program requirements.

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | * | CFCI | Total length to be determined by space and program |
| 12310.GS140 | General Storage Cabinet - Open | * | CFCI | Total quantity to be determined by program |
| FURN.S300 | Student Stool | 24 | FF&E | |
| FURN.SW08 | Student workstation, 24"D x 48"W | 24 | FF&E | |

Note Ref #:

Remarks Determine specific furniture needs based on program. Programs may require specialized furniture.

## Room 210.15 Art Lab

**Laboratory Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 2 | CFCI | |

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Floor** | | | |
| Finish | 09651.VCT | Vinyl Composition Tile | Option |
| Finish 2 | 09960.SC-1 | Sealed Concrete | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

# Room 210.16 Information Technology Labs

**Laboratory Facilities**

## Executive Summary

SPACE DESCRIPTION & OVERVIEW

Information Technology Labs are used for hands-on instruction of computing and informatics software, hardware, infrastructure, and proper use of information based tools. This computer lab is designed to provide for working on computers and network equipment and lecture style (i.e., an instructor at the front of the room), with moveable furniture (tables/benches and chairs) and a larger work space for running wire, network racks/cabinets, and computer storage. Educational tools include a wall of presentation surface and a projector, arranged for simultaneous use. Room proportions will incorporate proper viewing angles of all visual display surfaces.

Additional electrical, cooling, ventilation or other utilities may be required based on the educational program.

GENERAL ROOM REQUIREMENTS

-Room Size: 65 ASF per student
-Anticipated Room Occupancy: 20 students
-Minimum ceiling height: Min. 9'-0" A.F.F.
-Door height: Min. 7’-6” A.F.F.
-Minimum acoustical rating: STC 50

Room layout should not have more than four rows to keep sightlines and visibility to the front maximized. Minimum row spacing should be 5'-6" from front to front of tables. The distance from the projection surface should be 1 to 1.5 times the width of the screen or projected area. Screen size needs to consider viewing angles, distances to screen, lighting, and types of information to be projected.

All equipment, accessories, furnishings, and projection requirements need to be shown in room layout and reviewed during the design process.

INFORMATION TECHNOLOGY LAB TYPES:
Cyber Security - Network communications devices, hardwiring, and wireless connectivity to attack and defend the network. Space for team work and spaces for capture the flag activities.

IT Support/Help Desk – Supporting IT equipment, phone support scenarios. Multipurpose lab with working IP telephony on non-production network and access to machines/tools.

Server – Network operating systems, servers, devices, and data center concepts. Space for secondary network cabinets, software, and students to physically work on servers in the classroom.

Infrastructure – Network communications devices, hardwiring, wireless, and data center concepts. Space provided for running cable, conduit, termination panels, and wall mount racks, termination points, etc.

Data Center – Computing and Informatics Data Center consists of the primary equipment for the Server Administration and Network Infrastructure Programs which must have connectivity back to the 4 versions of Information Technology Labs listed above. Spaced provides for racks, cabinets, and communication equipment. Additional cooling, electrical and raised floor are required.

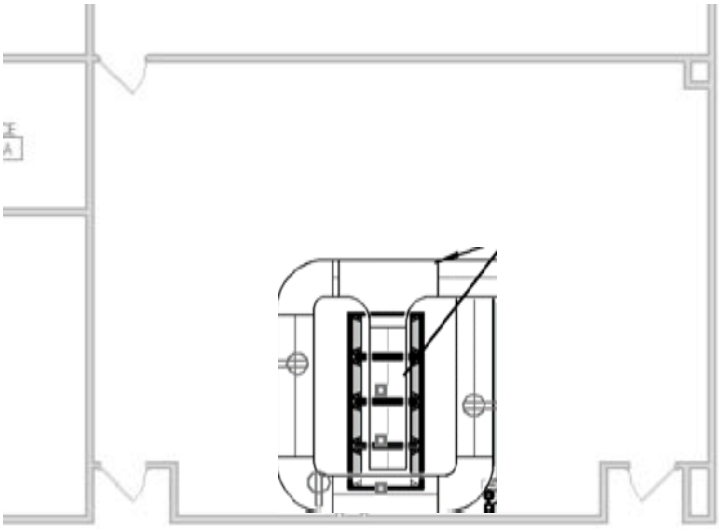
Support Space

Dry Storage with electrical, data connections and work bench for staff, shelving for information technology equipment, and space for rolling racks/carts. Tool Crib and storage concept. Approximately 150-200 square feet in size with access from IT Lab and hallway/corridor.

LOCATION/ADJACENCIES

Wide corridors should be considered to allow the movement of the equipment and materials between spaces. Instructional areas should be accessed from major corridors and isolated from industrial or service areas of the building. Acoustics should be considered during the design of classroom space to ensure that sound does not travel to or from adjacent spaces. Classrooms within departments should be designed for use by other departments to maximize use.

SAMPLE FLOOR PLAN



Ivy Tech Bloomington

## Room 210.16 Information Technology Labs

**Laboratory Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Cooling as required to accommodate increased load of Computer Lab may vary based on specific Information Technology Labs purposes and equipment.

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.07 | Wall-Mounted Raceways | 2 | Provide wall raceway on 2 walls for table connections. |
| 16143.62-2 | Receptacle, Equipment Use | 1 | Provide equipment to service all equipment in the room. |

Remarks: Quantity determined by equipment requirements. Electrical panel located within the room. No more than three computers per circuit. Power to student work stations to have an emergency shut off button located at the teaching station or door.

## Room 210.16 Information Technology Labs

**Laboratory Facilities**

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C210 | Student Computers - Desktop, Hardwired | 20 | |
| 00000.P200 | Student - Printer (Network/Local) | 1 | |
| 00000.PRJ1 | LCD Computer Projector or Display Monitor Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted or Display Monitor | 1 | |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed valumetric troffer (basket style fixture) | * | |
| 16515.L170 | White Board Lighting | * | Markerboard lighting and front row should be on separate toggle switch for control at front of room. |

Remarks: Quantity as required.

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | 08710.DH02 | Classroom Lock Function | Door size to be 7'-6" x 36" |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

## Room 210.16 Information Technology Labs

**Laboratory Facilities**

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.SC10 | Student Chairs | 30 | FF&E | |
| FURN.T140 | Student Computer Table | 30 | FF&E | |
| FURN.TCHR | Teacher Chair | 1 | FF&E | |
| FURN.TS01 | Teaching Station | 1 | FF&E | |

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:
Remarks Provide a minimum of 4 LF of marker tray at the front wall. Locate the tray to the right or left of the marker wall (not centered)

## Room 210.16 Information Technology Labs

**Laboratory Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GYP | Gypsum Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 215.01 Class Laboratory Service - Computer Lab

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION AND OVERVIEW

Class Laboratory Service Space directly serves a Computer Lab or series of Labs, and should be provided for every four Computer Labs.

GENERAL ROOM REQUIREMENTS

-Room Size: 250 sf
-Anticipated Room Occupancy: 2
-Minimum ceiling height: 9'-0" A.F.F.

Countertop/layout space and storage space should be accommodated for working on equipment and storing inventory.

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

Space should be located near or adjacent to Computer Labs, instructional or open labs.

## Room 215.01 Class Laboratory Service - Computer Lab

**Laboratory Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 2 | 2 quads per wall at height above the counters. |

Remarks: Provide additional circuits for testing.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C110 | Staff Computers - Desktop, Hardwired | 2 | |
| 00000.DC100 | Data Connections | 4 | One per wall |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed valumetric troffer (basket style fixture) | 1 | |

Remarks:

## Room 215.01 Class Laboratory Service - Computer Lab

**Laboratory Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | | |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

## Room 215.01 Class Laboratory Service - Computer Lab

**Laboratory Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| Base | 09912.P | Acrylic Paint System | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GYP | Gypsum Board | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 220 Open Computer Lab

**Laboratory Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Open Computer Labs are unscheduled Computer Labs for student use. The room should include a check-in station to monitor the room and a printer area.

GENERAL ROOM REQUIREMENTS

-Room Size: 35 ASF per station
-Anticipated Room Occupancy: 20 - 40 stations (some campuses may go up to 80 stations/lab)
-Minimum ceiling height: 9'-0" A.F.F.
-Minimum acoustical rating: STC 50

Check-in station should be centrally located with a view of all workstations. Layout should accommodate computers at perimeter walls with projecting islands of computers.

All equipment, accessories, furnishings, and projection requirements need to be shown in room layout and reviewed during the design process. 48" clear space between the tables.

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

Instructional areas should be accessed from major corridors and isolated from industrial or service areas of the building. Acoustics should be considered during the design of classroom space to ensure that sound does not travel to or from adjacent spaces. Classrooms within departments should be designed for use by other departments to maximize use.

## Room 220 Open Computer Lab

**Laboratory Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.07 | Wall-Mounted Raceways | 2 | Provide wall raceway on two walls for table connections |
| 16143.62-1 | 20amp Receptacle, Equipment Use | * | |

Remarks: * Provide power to serve equipment. Quantity determined by equipment requirements.

## Room 220 Open Computer Lab

**Laboratory Facilities**

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C210 | Student Computers - Desktop, Hardwired | * | One per workstation |
| 00000.CR100 | Card Reader | 1 | |
| 00000.DC100 | Data Connections | 1 | For VIN print |
| 00000.P200 | Student - Printer (Network/Local) | 1 | |
| 00000.PRJ1 | LCD Computer Projector Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted | 1 | |
| 00000.TEL | Telephone | 1 | |
| 00000.VINPRT | VIN Print Equipment | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | * | One per workstation |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed volumetric troffer (basket style fixture) | * | |

Remarks: * Quantity determined by requirements of Systems Standards.

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

## Room 220 Open Computer Lab

**Laboratory Facilities**

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 06402.RD110 | Reception Desk | 1 | CFCI | Check-in Station |
| FURN.SC10 | Student Chairs | * | FF&E | Nesting type |
| FURN.T140 | Student Computer Table | * | FF&E | 2'-6" deep moveable tables with wire trough and CPU sling. |
| FURN.TCHR | Teacher Chair | 1 | FF&E | |

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Full height |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:
Remarks Provide a 4 LF of marker tray at the front wall. Locate the tray to the right/left of marker wall (not centered).

## Room 220 Open Computer Lab

**Laboratory Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GYP | Gypsum Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 310.01 Executive Office

**Office Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Executive offices are private offices for one person. Rooms should be designed to accommodate multiple locations for the staff workstation and furnishings. Executive offices must have exterior windows. Office should be able to accommodate the room user, two individuals at guest seating, and a conference area with a conference table. The size of the conference table will depend on the user's needs, but should not seat less than four.

Offices will be provided for Chancellors, Campus Presidents, and those individuals who report directly to them.

GENERAL SPACE REQUIREMENTS

Room Size:

Executive Directors: 250 SF – 350 SF

Minimum ceiling height: 9'-0"
Sound Transmission Class (STC): 50
Number of Occupants: 1 plus conference seating

Width of offices should not be less than 15'-0".

Walls surrounding office areas should be constructed to extend to the deck or structure above or be sealed to prevent transfer of sound. The gypsum board on one side needs to extend to deck or structure above and cavity of wall filled with sound attenuating blankets.

The Chancellor's office should have a separate restroom and coat closet accessed within their office suite.

SPECIAL ROOM REQUIREMENTS

No requirements

ADJACENCIES/LOCATION

Offices should be grouped within their departments adjacent to shared functions within the office suite. Locate away from noise-producing spaces such as restrooms, mechanical, or electrical spaces.

## Room 310.01 Executive Office

**Office Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 6 | |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C110 | Staff Computers - Desktop, Hardwired | 3 | 1 each of three walls |
| 00000.C130 | Staff Computers - Laptop | 1 | |
| 00000.P100 | Staff - Printer (Network/Local) | 1 | |
| 00000.TEL | Telephone | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | |

Remarks:

## Room 310.01 Executive Office

**Office Facilities**

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | 08710.DH02 | Classroom Lock Function | |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.BC110 | Bookcase | 2 | FF&E | |
| FURN.CC19 | Conference Chair | 1 | FF&E | 4 minimum |
| FURN.D120 | Standard Desk & Chair | 1 | FF&E | Executive |
| FURN.D140 | Desk Credenza | 1 | FF&E | |
| FURN.D170 | Seating | 2 | FF&E | for a minimum of 4 guests |
| FURN.D171 | Guest Seating | 4 | FF&E | |
| FURN.F103 | Filing Cabinets - Lateral | 2 | FF&E | |
| FURN.T130 | Conference Table | 1 | FF&E | |

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| ACC.CH100 | Coat Hook | * | CFCI | Behind door |

Note Ref #:
Remarks

## Room 310.01 Executive Office

**Office Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09720.VWC | Vinyl Wall Covering | |
| Base | WD | Wood | 6" H |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GYP | Gypsum Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

# Room 310.04 Open Office

**Office Facilities**

## Executive Summary

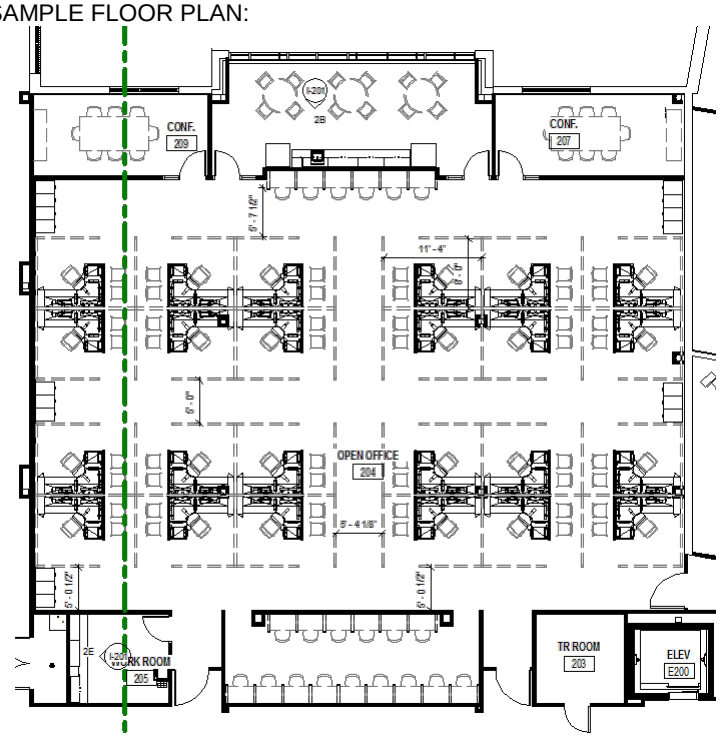
SPACE DESCRIPTION
Open work environments will be provided for all faculty and staff not previously addressed in the office standard. Open work stations allows for access to natural light, improve communications and collaboration, and increase space long term efficiency and flexibility. Consider small open collaborative spaces within the system furniture layout.

GENERAL ROOM REQUIREMENTS
Faculty/Staff SF: 45 – 55 SF/person
Typical work station size: 9'x6' and 7'x6'
Minimum Ceiling Height: 9'-0"

ADDITIONAL SPACE/ADJACENCIES
Staff Lounge Space -Locate a staff lounge near the open office space

LOCATIONS AND ADJACENCIES
Locate near or adjacent to adjunct work space. Locate office area central work area that is accessible to students. Provide 1-2 small conference room spaces nearby to allow faculty and staff to meet privately with students.
Collaborative space to provide ergonomically flexible work environments for small and medium groups.

SAMPLE FLOOR PLAN:




Ivy Tech Anderson

## Room 310.04 Open Office

**Office Facilities**

# UNIQUE ROOM REQUIREMENTS

## Mech/Electrical/Plumbing Requirements

### Mechanical

Remarks:

### Plumbing/Gases/Utilities

Remarks:

### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | 1 | Coordinate with work station electrical needs. Provide outlets at each station ran through the panel system. |

Remarks:

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C110 | Staff Computers - Desktop, Hardwired | 2 | Provide 2 data per station |
| 00000.CP | Copier | 1 | |
| 00000.P100 | Staff - Printer (Network/Local) | 1 | |
| 00000.TEL | Telephone | 1 | Provide 1 per station. |

Remarks: Technology to be run through panel systems to each station.

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | |

Remarks:

## Room 310.04 Open Office

**Office Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | Quantity as determined by occupancy count. |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.D120 | Standard Desk & Chair | 1 | FF&E | Per station |
| FURN.D130 | Standard Computer Return | 1 | FF&E | Per station |
| FURN.D171 | Guest Seating | 2 | FF&E | Per station |
| FURN.OO310 | Open Office Workstation | 1 | CFCI | 42” panels should be considered for light. 60” panels should be considered for visual privacy. Quantity as required to meet layout. Electrical and technology to be provided in modular cubical system. |

Note Ref #:
Remarks Provide for locked storage as required.

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| ACC.CH100 | Coat Hook | 1 | CFCI | |

Note Ref #:
Remarks

## Room 310.04 Open Office

**Office Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |

Note Ref #:
Remarks

## Room 310.05 Adjunct Open Office

### Executive Summary

The Adjunct Open Office is a landing zone for adjunct professors to prepare for class. The space is shared and not dedicated to individual adjunct professors.

GENERAL REQUIREMENTS
Room Size: To be determined by number of adjunct professors
Ceiling Height: 9'0"
Provide 30 to 40 SF per Adjunct.

ADJACENCIES / LOCATIONS
Locate near a printing location.
Provide small conference room for meetings with students
Prefer to be located near faculty offices.

## Room 310.05 Adjunct Open Office

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | 1 | Provide general use outlets receptacles and receptacles for each station. |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C110 | Staff Computers - Desktop, Hardwired | 1 | Provide one data connection per station. |
| 00000.CP | Copier | 1 | Option to locate near centralized copy room. |
| 00000.P100 | Staff - Printer (Network/Local) | 1 | Option to locate near centralized printing |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | |

Remarks:

## Room 310.05 Adjunct Open Office

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | Door if open to hallway. Option to open directly (without door) to open office area. |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.D170 | Seating | 1 | FF&E | |
| FURN.F101 | Filing Cabinets - Letter | 1 | FF&E | Provide one lockable cabinet drawer per adjunct in centralized location. |
| FURN.L140 | Computer Stations (Sit down) | 1 | FF&E | |

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

## Room 310.05 Adjunct Open Office

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |

Note Ref #:
Remarks

## Room 315 Office Service

**Office Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Office work rooms are support spaces for adjacent staff and building users. Work rooms should be designed to provide work surfaces, copy areas, storage, and small groups to work on required tasks. Work rooms may serve a department or several departments depending on the program requirements of the Project.

GENERAL SPACE REQUIREMENTS

Square Footage: 400-600 SF
Anticipated Room Occupancy: 4-6
Minimum ceiling height: 10'-0"

SPECIAL ROOM REQUIREMENTS

No requirements

ADJACENCIES/LOCATION

Work room should be grouped within their departments, within the office suite. Utilized work room and storage spaces to buffer private offices from public or noise-producing areas.

## Room 315 Office Service

**Office Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.S120 | Sink w/ Garbage Disposal | 1 | | |

Remarks:

#### Power & Electrical

Remarks: Verify electrical requirements for equipment.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.CP | Copier | 1 | |
| 00000.FM | Fax Machine | 1 | |

Remarks: Data and phone lines to copier and fax machine

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | |

Remarks:

## Room 315 Office Service

**Office Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.CM100 | Coffee Machine | 1 | FF&E | |
| 12000.DW | Dishwasher | 1 | FF&E | Optional |
| 12000.MW | Microwave | 1 | FF&E | |
| 12000.REF | Refrigerator | 1 | FF&E | |

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | 12 | CFCI | |
| 12310.GS130 | General Storage Cabinet - Closed | 12 | CFCI | |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | 1 | CFCI | |
| 12000.T210 | Work Table | 1 | FF&E | |
| FURN.C20 | Chair | * | FF&E | |
| 12511.MB120 | Mail Slots | * | FF&E | |

Note Ref #:
Remarks * Per user served. Verify mail distribution system. Equipment could be located in another space if appropriate, per campus.

## Room 315 Office Service

**Office Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | |
| **Visual Display** | | | | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Countertops** | | | |
| Finish | PL | Plastic Laminate | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GYP | Gypsum Board | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |
| **Casework** | | | |
| | PL | Plastic Laminate | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 320 Express Enrollment

**Office Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW
Express Enrollment provides students one location to fulfill their enrollment and administrative needs. The core of this space is the student kiosk locations where students can access the online student services. The kiosks are supported by the Student Services Professionals (SSP). The SSP role is to assist students at the individual kiosks. Shared SSP offices are provided to allow for private or sensitive conversations.

GENERAL ROOM REQUIREMENTS
-Minimum Ceiling Height: 9'-0" A.F.F.
-Minimum Acoustical Rating: STC 50

SPACES
-Express Enrollment Kiosks
-Express Enrollment Waiting (Shared space with commons)
-New Student Orientation / Assessment Lab (Adjacent function to be considered)

Work Stations For:
-SSP Offices (One less office than total SSPs. Not dedicated offices. One SSP office to be oversized for 4 people minimum).
-Express Enrollment Director
-Financial Aid
-Registrar
-Career Services
-Admissions
-Veteran Career Service
-Bursar (including bursar safe room) - and Transaction Window.
-Imaging
-Disability Services

Support Spaces:
-Work Room
-Kitchenette
-Locker area for SSPs.

LOCATION/ADJACENCIES
The express enrollment should be located near the main student entrance to the building. The spaces should be organized to allow students to access the Express Enrollment with the SSP offices surrounding it. Access should be made to the support spaces.

REGISTRAR
ASST. REG.
BURSAR
STORAGE
WORK STUDY
COUNSELOR
STAFF
FA ASST. DIR.
FA DIRECTOR
STAFF
STAFF
STAFF
STUDENT RECORDS
WORK STUDY
STAFF
SAFE
STAFF
TRANSACTION
STORAGE
STAFF
STAFF
IMAGING
CORRIDOR
STORAGE
FULL-HEIGHT GLASS WALL
SSP
SSP
STORAGE
SSP
SSP
COORDINATOR
K RM/LOCKERS
ONE STOP SHOP DIR.
ID/SSP
KIOSKS (10)
SSP
VETERAN AFFAIRS
RECEPTION
DISABILITY SUPPORT SERVICES
VENDING
CORRIDOR
WALL-MOUNTED MONITOR
SEATING (15)
VESTIBULE
SEATING (15)
ASSESSMENT COMPUTER LAB

## Room 320 Express Enrollment

**Office Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 1 | |
| 16143.62-1 | 20amp Receptacle, Equipment Use | 1 | Additional Electrical for the Kiosks |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C210 | Student Computers - Desktop, Hardwired | 1 | Quantity to be determined by student population |
| 00000.DISPL | Display (Wall-mounted) | 1 | Locate in waiting area |
| 00000.P200 | Student - Printer (Network/Local) | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L120 | Indirect Lighting | 1 | |

Remarks:

## Room 320 Express Enrollment

**Office Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | Support Offices |
| 08000.DR114 | Door - Type D (Full window) | 1 | | SSP Offices |
| **System** | | | | |
| 08410.SF | Storefront | 1 | | Entrance to Express Enrollment |
| **Window** | | | | |
| 102219 | Demountable Partition | 1 | | Glazing between SSP Offices and Kiosks |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 06402.RD110 | Reception Desk | 1 | CFCI | |
| FURN.L141 | Computer Stations (Stand up) | 1 | FF&E | Kiosks - quantity to be determined. |

Note Ref #:
Remarks See furniture standards.

## Room 320 Express Enrollment

**Office Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10505.PLA | Plastic Laminate Lockers | 1 | CFCI | Provide for each SSP. |

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09815.AWC | Acrylic Wall Coating | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

# Room 350 Conference Room

**Office Facilities**

## Executive Summary

SPACE DESCRIPTION & OVERVIEW

Conference rooms are non-classroom spaces designed for meetings and seminars. Conference spaces need to have full access to technology, flexibility, and good acoustics. The layout and size should accommodate the required number of persons programmed with circulation around the room.

Board Rooms are specialized Conference Rooms. Their finish package will be a higher cost per square ft. Refer to data.

GENERAL SPACE REQUIREMENTS

Room Size: 35 ASF per occupant
Anticipated Room Occupancy: 6 - 32
Square Feet: 200 - 1100 minimum

Walls surrounding Conference Rooms should be constructed to extend to the deck or structure above or be sealed to prevent transfer of sound. The gypsum board on one side needs to extend to the deck or structure above and cavity of wall filled with sound attenuating blankets.

All windows should have blackout capability for the use of A/V equipment.

SPECIAL ROOM REQUIREMENTS

Conference rooms should have full A/V capability.

ADJACENCIES/LOCATION

Conference rooms should be distributed within the office areas for use by multiple groups. Conference rooms should be acoustically isolated from noise producing rooms either by wall construction or buffered with other spaces.

Conference rooms are defined by three different levels of technology and equipment. Indicate on the Drawings the level of each conference room.

CLASS A - EXECUTIVE CONFERENCE ROOM ADDITIONAL REQUIREMENTS:

Technology and Power shall be provided from below and connected to the furniture systems. Do not daisy chain data or power cabling. Provide power and data for each occupant hidden in the furniture system. Presenter computers and any support technology infrastructure or equipment shall be hidden in casework. Telephone base unit to be installed in a side table and wireless phone system on the table or installed in the ceiling.

Interactive Display monitor – 80" (Size to be confirmed to fit room).
Computer – Hidden behind monitor with wireless keyboard and mouse.
Crestron – Air Media Capabilities
Video Conferencing capable
Teleconference module with wireless microphones
Electrical connections for all seats at table with standard USB connection.
Consider Audio Enhancement.

CLASS B – CONFERENCE ROOM

Display Monitor – 55 " (Size to be confirmed to fit room).
Computer – Hidden behind monitor with wireless keyboard and mouse.
Crestron – Air Media Capabilities
Marker Board
Video Conferencing capable
Teleconference module with wireless microphones
Electrical connections for all seats at table with standard USB connection.

CLASS C – MEDIA RICH COLLABORATION ROOM

Presentation Monitor – 55" (Size to be confirmed to fit room)
Computer – Hidden behind monitor with wireless keyboard and mouse.
Crestron – Air Media Capabilities
Electrical connections for all seats at table with standard USB connection.

## Room 350 Conference Room

**Office Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 2 | Floor, 4 walls & wired to the table |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.AES | Independent Audio Enhancement System | 1 | for Board Room only. |
| 00000.CR100 | Card Reader | 1 | |
| 00000.DC100 | Data Connections | * | Multiple walls and in floor |
| 00000.MIC | Wired Microphone | 1 | for Board Room only. |
| 00000.PRJ1 | Display surface. Coordinate with room type. | | |
| 00000.TEL | Telephone | 1 | Integrated table top system. Base location with table top plug. |
| 00000.WRLMK | Wireless Mouse and Keyboard | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks: Coordinate technology requirements with specific conference room type.

#### Lighting

Remarks: Lighting for standard conference room: Controllable, 2 lighting levels. Board Room shall have dimmable lighting.

## Room 350 Conference Room

**Office Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B120 | Lineal Feet of Base Cabinets - Closed | * | CFCI | Wood Finishes for all Board Rooms; plastic laminate for Conference |
| FURN.C29 | Cabinet | 1 | CFCI | For LCD screen in Board Room |
| FURN.CC19 | Conference Chair | * | FF&E | |
| FURN.T130 | Conference Table | 1 | FF&E | |

Note Ref #:
Remarks *Along length of one wall; amount varies per Conference Room size. Quantity of conference chairs dependent upon room size / number of occupants.

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Full height |

Note Ref #:
Remarks Provide a 4 LF of marker tray at the front wall. Locate the tray to the right/left of marker wall (not centered).

## Room 350 Conference Room

**Office Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09720.VWC | Vinyl Wall Covering | |
| Base | 09653.VWB | Vinyl Wall Base | Conference Room. 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| Base 2 | WD | Wood | Board Room |
| **Floor** | | | |
| Finish | 09680.CP | Carpet | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 355 Conference Room Service

**Office Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

A small kitchenette should be designed to service the Board Rooms only. It should include a refrigerator, sink, garbage disposal, microwave and cabinetry.

GENERAL SPACE REQUIREMENTS

-Room Size: 150 ASF minimum
-Minimum ceiling height: 9'-0"

SPECIAL ROOM REQUIREMENTS

No requirements

ADJACENCIES/LOCATION

Locate as a separate room adjacent to Board Room.

## Room 355 Conference Room Service

**Office Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.S120 | Sink w/ Garbage Disposal | 1 | | |
| 15440.WS21 | Water Supply | 1 | | for refrigerator - icemaker |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 2 | GFCI along the cabinetry with sink |
| 16143.62-2 | Receptacle, Equipment Use | * | |

Remarks: Review electrical requirements for equipment to be provided by Owner

#### Technology

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | |

Remarks: * In addition to general lighting

## Room 355 Conference Room Service

**Office Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | | |

Remarks:

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.DW | Dishwasher | 1 | FF&E | |
| 12000.MW | Microwave | 1 | FF&E | |
| 12000.REF | Refrigerator | 1 | FF&E | with icemaker |

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | 10 | CFCI | |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | 10 | CFCI | |
| FURN.W22 | Wastebasket | 1 | FF&E | |

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | |

Note Ref #:
Remarks

## Room 355 Conference Room Service

**Office Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |
| **Casework** | | | |
| | PL | Plastic Laminate | |

Note Ref #:

Remarks Flooring may be modified to match adjacent room.

## Room 410.01 Study Room (Enclosed Room)

**Study Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Study spaces are rooms or areas used by individuals to study at their convenience. The space should not be restricted to a particular subject or discipline by contained equipment. A variety of spaces should be provided, including "nook areas" and enclosed rooms (see 410.2).

GENERAL SPACE REQUIREMENTS

-Room Size: ASF: 150
-Anticipated Room Occupancy: 4-6 people
-Minimum Ceiling Height: 9'-0"
-Sound Transmission Class (STC): 50

Wall surrounding office areas should be constructed to extend to the deck or structure above and be sealed to prevent transfer of sound. The gypsum board on one side needs to extend to the deck or structure above and cavity of all filled with sound attenuating blankets.

SPECIAL ROOM REQUIREMENTS

Viewing windows are required for visual monitoring of activities in the space.

ADJACENCIES/LOCATION

Ideally these spaces would have natural light and should be distributed throughout the academic area.

## Room 410.01 Study Room (Enclosed Room)

**Study Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 2 | |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.HDP | Hard Data Port | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | |

Remarks:

#### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR114 | Door - Type D (Full window) | 1 | | |

Remarks:

## Room 410.01 Study Room (Enclosed Room)

**Study Facilities**

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.CC19 | Conference Chair | 4 | FF&E | |
| FURN.T130 | Conference Table | 1 | FF&E | |

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Full height |

Note Ref #:
Remarks: Paint entire display wall with marker paint. If not economical, provide trim to distinguish writing surface from wall paint.

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |

Note Ref #:
Remarks

## Room 410 Study Room

**Study Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Study rooms are provided to accommodate both quiet study or group study for students. Educational tools include tables and chairs for group study and individual study carrels or tables. Spaces for group projects and for individual study should be programmed separately for the needs of the Campus. Room size may vary based on the number of students to be accommodated.

GENERAL ROOM REQUIREMENTS

-Room Size: 25 ASF per student
-Anticipated Room Occupancy: 4-6 students
-Room Size: 100 SF min.
-Minimum ceiling height: 9'-0" A.F.F.
-Minimum acoustical rating: STC 50

Group study rooms should contain a conference table for the number of occupants and marker boards for use by the students. All equipment, accessories, furnishings, and projection requirements need to be shown in room layout and reviewed during the design process.

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

Study rooms should be located within or adjacent to the library. The rooms should be acoustically separated from noise producing spaces to provide an quiet environment for study.

## Room 410 Study Room

**Study Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 4 | One outlet per wall |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.HDP | Hard Data Port | 2 | |
| 00000.TELWIRING | Telephone Wiring | 2 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L160 | Task Lighting | 1 | |

Remarks:

## Room 410 Study Room

**Study Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.L112 | Study Tables - Round | 1 | FF&E | |
| FURN.SC10 | Student Chairs | 6 | FF&E | |

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Full height |

Note Ref #:
Remarks: Paint entire display wall with marker paint. If not economical, provide trim to distinguish writing surface from wall paint.

## Room 410 Study Room

**Study Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GYP | Gypsum Board | |
| **Floor** | | | |
| Finish | 09680.CP | Carpet | |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 410.02 Study Room - Nook Areas

**Study Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Study spaces are rooms or areas used by individuals to study at their convenience. The space should not be restricted to a particular subject or discipline by contained equipment. A variety of spaces should be provided, including "nook areas" and enclosed rooms (see 410.1).

GENERAL SPACE REQUIREMENTS

-Room Size: 150 SF
-Minimum Ceiling Height: 9'-0"
-Anticipated Room Occupancy: 4-6 people

"Nook areas" are typically adjacent to larger public areas (commons, cafeterias, libraries, etc.) or corridors. "Nook areas" are small semi-private areas for study; ideally, they allow for quiet, small group study within the context of a larger space.

SPECIAL ROOM REQUIREMENTS

No requirements

ADJACENCIES/LOCATION

Ideally these spaces would have natural light and should be distributed throughout the academic area.

## Room 410.02 Study Room - Nook Areas

**Study Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.62-1 | 20amp Receptacle, Equipment Use | 2 | |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | |

Remarks:

#### Doors and Windows

Remarks: Typically, these spaces are not enclosed.

#### Special Requirements

Remarks:

## Room 410.02 Study Room - Nook Areas

**Study Facilities**

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks Nook areas could have either typical conference table and chairs or soft furnishings; depending upon location.

### Accessories

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |

Note Ref #:
Remarks *Flooring may vary to match adjacent space

## Room 420 Stack Room

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Stack space is space utilized to store collections of educational materials for use as a study resource, including collections of maps, musical scores, books, periodicals, etc.

GENERAL SPACE REQUIREMENTS

Space Requirements: Varies based on size/type of collection. Expansion space should be incorporated.
Minimum Ceiling Height: 10'-0" A.F.F.
Minimum Acoustical Rating: STC 50

-Space should be as flexible and reconfigurable as possible.
-Varieties of spaces are desirable.
-All spaces should be planned with commuter students in mind.
-Consideration should be given to ADA specifications.
-Spaces should be configured to allow for some individual quiet study space and some collaborative learning group space. There is a growing need for collaborative spaces as well as a need for quiet space. These two spaces often conflict with each other's needs.

Utilize the 2002 - 2007 Statewide Ivy Tech Comprehensive Library Services Plan for additional information.

LOCATION / ADJACENCIES

Stack space should be located within the Library next to the study room space. The library should be located adjacent to a main corridor, at the heart of the campus where it is easily accessible. It should be near the front entrance to the building, near elevators and restrooms. It could also have similar services such as writing, math, tutoring, or testing labs located near it. A separate entrance/exit to the outside could be considered to allow for extended hours when the rest of the building might be closed.

## Room 420 Stack Room

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.DC100 | Data Connections | 1 | |
| 00000.I110 | Intercom Reception (Speaker) | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L02 | 2x4, fluorescent | 1 | |

Remarks: Ensure lighting is between the stacks so as to illuminate the aisles and books.

#### Doors and Windows

Remarks:

#### Special Requirements

Remarks:

## Room 420 Stack Room

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.T210 | Work Table | * | FF&E | |
| FURN.BC110 | Bookcase | * | FF&E | 92" H for circulating materials; 45" H for reference or open areas |
| FURN.S25 | Shelving | * | FF&E | 45" H for periodicals |

Note Ref #:
Remarks *Amount needed varies based on size of collection. Expansion space should be included in the

### Accessories

Note Ref #:
Remarks

## Room 420 Stack Room

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09000.SGL | Semi Gloss Latex | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Casework** | | | |
| | MT | Metal | Wood is an approved upgrade |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

# Room 430 Open-Stack Study Room

**Study Facilities**

## Executive Summary

SPACE DESCRIPTION & OVERVIEW

Open Stack Study Rooms are combinations of study space and stack spaces without physical boundaries between the two.

GENERAL ROOM REQUIREMENTS

Space Requirements: Varies based upon the type and number of materials to be stored and the desired number of occupants. Seating should be provided for 10% of the student FTE within the library.

-Average workstation space should be provided at 40 SF per workstation
-Minimum Ceiling Height: 10'-0" A.F.F.
-Minimum Acoustical Rating: 50 STC
-Space should be as flexible and reconfigurable as possible.
-Varieties of spaces are desirable.
-A variety of seating types should be incorporated.
-Raised access floor can be considered if cost allows.
-Consideration should be given to incorporating display space.
-All spaces should be planned with commuter students in mind.
-Consideration should be given to ADA specifications.
-Spaces should be configured to allow for some individual quiet study space and some collaborative learning group space. There is a growing need for collaborative spaces as well as a need for quiet space. These two spaces often conflict with each other's needs.

Utilize the 2002 - 2007 Statewide Ivy Tech Comprehensive Library Services Plan for additional information.

LOCATION / ADJACENCIES

Open Stack Study space should be located within the main library off of a major circulation path, and adjacent to 420, Stack Room space.

A cybercafé (food and computers) could be considered in an adjacent space.

## Room 430 Open-Stack Study Room

**Study Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.7 | Quad 20amp Duplex Receptacles | * | 2 per single person workstation and convenience outlets and help desk. |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C110 | Staff Computers - Desktop, Hardwired | 1 | One per staff member |
| 00000.C210 | Student Computers - Desktop, Hardwired | 4 | Standing height stations |
| 00000.CP | Copier | * | One minimum |
| 00000.DC100 | Data Connections | * | 1 per every other workstation |
| 00000.I110 | Intercom Reception (Speaker) | * | |
| 00000.P100 | Staff - Printer (Network/Local) | * | |
| 00000.P200 | Student - Printer (Network/Local) | * | |
| 00000.SC110 | Surveillance Camera | * | |
| 00000.SECGT | Security Gates | * | at each entrance / exit |
| 00000.WRLSAD | Wireless Access Device | * | |

Remarks: * Amount varies based on the number of students served and Media Center configuration.

## Room 430 Open-Stack Study Room

**Study Facilities**

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L02 | 2x4, fluorescent | * | |
| 16515.L160 | Task Lighting | * | |

Remarks:

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR113 | Door - Type C (Window in top 1/2 of door) | 2 | 08710.DH05 | Electronic Security Access | Security Gates located at each main library entrance/exit |

Remarks: Include automatic ADA door operator.

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

## Room 430 Open-Stack Study Room

**Study Facilities**

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.102 | Lineal Feet of Countertop w/ Knee space | * | CFCI | |
| FURN.BC110 | Bookcase | * | FF&E | 45" H - reference |
| FURN.BC110 | Bookcase | * | FF&E | 72" H - circulation |
| FURN.L110 | Study Tables - Square | * | FF&E | |
| FURN.L120 | Student Seating | * | FF&E | Total - 10% student FTE |
| FURN.L130 | Card Catalog - Online | 1 | FF&E | |
| FURN.L140 | Computer Stations (Sit down) | * | FF&E | 50% of total seating |
| FURN.L141 | Computer Stations (Stand up) | 4 | FF&E | Card Catalog |
| FURN.L150 | Circulation Desk | 1 | CFCI | |
| FURN.L152 | Book Drop | 1 | CFCI | |
| FURN.L170 | Dictionary Stand | 2 | CFCI | |
| FURN.L211 | Lounge Seating - Sofa | * | FF&E | |
| FURN.L212 | Lounge Seating - Chairs | * | FF&E | |
| FURN.S25 | Shelving | * | FF&E | Periodicals - 45" H |

Note Ref #:
Remarks * Amount varies based on size of collection and student population served.

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Display Case** | | | | |
| 10125.DC102 | Display Case - Built-in | * | CFCI | Glass-enclosed |
| **Visual Display** | | | | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 3 | CFCI | |

Note Ref #:
Remarks *Amount varies based on size of collection and student population served.

## Room 430 Open-Stack Study Room

**Study Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09000.SGL | Semi Gloss Latex | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | 2 X 2 |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 440 Processing Room

**Study Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Processing Rooms support the Library functions, including card catalog and microfiche areas, reference and circulation desks, including processing, etc.

GENERAL SPACE REQUIREMENTS

-Space Requirements: Varies based on the size of the library.
-Minimum Ceiling Height: 9'-0"
-Minimum Acoustical Rating: STC 50
-Provide double doors with full glazing
-Provide ADA automatic access
-Plan and provide space for security gates (take considerable space)

The Processing Room includes multiple areas:

-Technical Services Processing Room
-Circulation Desk
-Card Catalog
-Reference Desk

LOCATION/ADJACENCIES

The Circulation and Reference Desk should be located in the Open Stack space, adjacent to office space.

The Library in general should be located with consideration of acoustics off of a main corridor, close to staff restrooms and a staff break room.

Where possible, a book drop from the corridor should be included.

IVY TECH
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## Room 440 Processing Room

**Study Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.S110 | Sinks | 1 | | Technical Services Processing Room |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 1 | Circulation / Reference / Technical Services Processing Room |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C110 | Staff Computers - Desktop, Hardwired | * | Circulation / Reference / Technical Services Processing Room |
| 00000.DC100 | Data Connections | * | Circulation / Reference / Technical Services Processing Room |
| 00000.FM | Fax Machine | * | Technical Services Processing Room |
| 00000.I110 | Intercom Reception (Speaker) | * | Circulation / Reference / Technical Services Processing Room |
| 00000.PRT | Printer | * | Circulation / Reference / Technical Services Processing Room |
| 00000.TEL | Telephone | * | Circulation / Reference / Technical Services Processing Room |

Remarks: *Amount varies based on the size of the Library.

## Room 440 Processing Room

**Study Facilities**

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed valumetric troffer (basket style fixture) | 1 | |

Remarks: *Varies

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 2 | | For entry to Media Area. Accommodate Security Gates. |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

## Room 440 Processing Room

**Study Facilities**

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.102 | Lineal Feet of Countertop w/ Knee space | * | CFCI | Circulation / Reference / Technical Services Processing Room |
| 12310.GS130 | General Storage Cabinet - Closed | * | CFCI | Technical Services Processing Room |
| 12000.T210 | Work Table | * | FF&E | Technical Services Processing Room |
| FURN.C20 | Chair | * | FF&E | 1 per staff |
| FURN.D120 | Standard Desk & Chair | 3 | FF&E | Technical Services Processing Room |
| FURN.F105 | Filing Cabinets | * | FF&E | Circulation / Reference / Technical Services Processing Room |
| FURN.L150 | Circulation Desk | * | CFCI | Circulation Desk and Reference Desk can be combined at Owner's discretion. Generally, access should be provided for more than 1 staff person to work |
| FURN.L152 | Book Drop | * | CFCI | Circulation Desk |
| FURN.REF | Reference Desk | * | CFCI | Circulation Desk and Reference Desk can be combined at Owner's discretion. Generally, access should be provided for more than 1 staff person to work |
| FURN.S25 | Shelving | * | FF&E | Open Book Shelves - Circulation / Reference / Technical Services Processing Room |
| 12511.MB120 | Mail Slots | * | FF&E | Technical Services Processing Room |

Note Ref #:

Remarks *Amount varies based upon the size of the Library.

### Accessories

Note Ref #:

## Room 440 Processing Room

**Study Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09000.SGL | Semi Gloss Latex | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Casework** | | | |
| | PL | Plastic Laminate | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 455 Study Service

**Study Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Study Service spaces are used to service the activities in spaces 410, 420, 430 and 440, including closets, storage, copy rooms, etc.

GENERAL SPACE REQUIREMENTS

Room Size(s): Varies depending upon the sizes of Rooms 410, 420, 430 and 440.
Ceiling Height: 9'-0" minimum.
Acoustical Considerations: None

Spaces may include:

-Storage Space - A/V Equipment
-Storage Space - Supplies
-Storage Space - Periodicals
-Storage Space - DVD/Videos
-Staff Locker Room
-Student Lockers
-Book Drop
-Copy Room
-Centralized Video Distribution Room (if applicable)

Note: Spaces may or may not be separated by walls from the areas they service.

LOCATION/ADJACENCIES

Adjacent to areas served. DVD/Video storage should be adjacent to Circulation Desk.

## Room 455 Study Service

**Study Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.CP | Copier | * | As needed. |
| 00000.DC100 | Data Connections | 1 | As required to serve video/copiers, etc. |
| 00000.I110 | Intercom Reception (Speaker) | 1 | |
| 00000.SC110 | Surveillance Camera | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | |

Remarks:

## Room 455 Study Service

**Study Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.GS130 | General Storage Cabinet - Closed | * | CFCI | |
| 12000.T210 | Work Table | 1 | FF&E | |
| FURN.L151 | Book Cart | * | CFCI | Adjacent to copiers |
| FURN.L152 | Book Drop | * | CFCI | |
| FURN.S25 | Shelving | * | FF&E | DVDs & VHS tapes; periodical back issues, supplies, paper |

Note Ref #:
Remarks * Quantity as needed

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10505.ML110 | Metal Locker | * | CFCI | Half height; 1 per staff, 30 for students |

Note Ref #:
Remarks

## Room 455 Study Service

**Study Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09000.SGL | Semi Gloss Latex | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |
| Finish 2 | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 520 Athletic or Physical Education

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Gymnasium for students, staff or public or athletic or physical education activities.

GENERAL SPACE REQUIREMENTS

Space layout should accommodate a competition-sized gymnasium to support walking track, volleyball, basketball, cross-courts, seating for 200 minimum and should be flexible for other sports.

Size: 12,000 SF minimum

Ceiling Height: 25'-0" to bottom of structure

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

Gym should be located near the Wellness Center, showers and restroom spaces.

## Room 520 Athletic or Physical Education

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.DF110 | Drinking Fountains | 2 | | |
| 15440.S300 | Spit Station | 1 | | |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | * | |
| 16143.62-1 | 20amp Receptacle, Equipment Use | * | |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.AES | Independent Audio Enhancement System | 1 | |
| 00000.DISPL | Display (Wall-mounted) | 1 | |
| 00000.MICJK | Microphone Jacks | 2 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

## Room 520 Athletic or Physical Education

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L04 | HID Lighting | * | Caged |
| 16515.L07 | Fluorescent "F" bay troffers | 1 | with full solid body, wire guard, clear lens |

Remarks: * See Systems Standards

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR130 | Double Doors | * | | Provide all double doors |

Remarks:

### Special Requirements

Remarks:

## Room 520 Athletic or Physical Education

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 00000.RWT | Running / Walking Track | 1 | FF&E | |
| 11480.B1 | Basketball Backboard | 6 | CFCI | |
| 11480.B2 | Basketball Backstop Electric Operator | 6 | CFCI | |
| 11480.B7 | Basketball Goal | 6 | CFCI | |
| 11480.E1 | Volleyball Floor Insert | 2 | CFCI | |
| 11480.E3 | Volleyball Net | 1 | FF&E | |
| 11480.E4 | Volleyball Net Tensioning System | 1 | FF&E | |
| 11480.E5 | Volleyball Post Standard | 2 | FF&E | |
| 11480.E6 | Volleyball Post Standard Transporter | 1 | FF&E | |
| 11480.E8 | Volleyball Storage Cart | * | FF&E | |
| 11480.F3 | Safety Pads, Wall | * | CFCI | Quantity as needed. |
| 12660.MB | Motorized Bleachers | 1 | CFCI | |
| 12660.ST | Scorers table | 1 | CFCI | |
| 16680.SB | Scoreboard | 1 | CFCI | Wireless |

Note Ref #:

Remarks Verify equipment with Owner.

### Furnishings

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

## Room 520 Athletic or Physical Education

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| **Ceiling** | | | |
| Type 1 | N/A | No finish | Painted exposed structure |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | |
| **Floor** | | | |
| Finish | 09644.B1 | Wood Athletic-Floor Assembly | |

Note Ref #:
Remarks

## Room 530 Media Production

**Special Use Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Space used for production and distribution of multimedia materials. Clearly defined production or distribution functions that serve a broader area than a typical service room. This space does not include teaching labs or media storage, but does include Distance Learning Labs.

GENERAL ROOM REQUIREMENTS

Distance Learning:

-Room Size: 25 ASF per student
-Anticipated Room Occupancy: 30 students (Note: If room is a receiving lab only, it could seat 4-8 students)
-Total Room Size: 750 SF
-Minimum ceiling height: 9'-0" A.F.F.
-Minimum acoustical rating: STC 50 (special consideration given to avoid sound leak from adjacent spaces)

Control Room - Minimum 15' X 10' - Verify size with equipment

SPECIAL ROOM REQUIREMENTS

Each Distance Learning Lab must be provided with two way communication and additional power and data. In all other ways, however, the room should be outfitted as a typical classroom. A Control Room may be provided, however, equipment controls within the room are preferred. Refer to Room 535.

LOCATION/ADJACENCIES

Locate Media Production space off of a major corridor. If possible, this space should be located near the front door and/or the Media Center for easy public access.

## Room 530 Media Production

**Special Use Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.07 | Wall-Mounted Raceways | * | |
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 30 | + 2 X amount in a typical classroom |

Remarks:

## Room 530 Media Production

**Special Use Facilities**

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.AES | Independent Audio Enhancement System | 1 | |
| 00000.DC100 | Data Connections | 30 | 1 per student + 2 X amount in a typical classroom |
| 00000.MICC | Microphones, Ceiling-mounted | * | 1 per 3 students |
| 00000.MICJK | Microphone Jacks | * | Multiple connections for mobile microphones |
| 00000.PRJ1 | LCD Computer Projector Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted | 1 | |
| 00000.VCAM | Video Camera | 2 | minimum |
| 00000.WRLSAD | Wireless Access Device | 2 | |

**Instructional**

| | | | |
|---|---|---|---|
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed volumetric troffer (basket style fixture) | 1 | Controllable |
| 16515.L170 | White Board Lighting | 1 | |
| 16515.L250 | Programmable Lighting Control Board | 1 | within room if 535 is not constructed |

Remarks:

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | 08710.DH02 | Classroom Lock Function | Thumb lock on room side |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

## Room 530 Media Production

**Special Use Facilities**

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.SC10 | Student Chairs | 30 | FF&E | No casters |
| FURN.SW09 | Student Workstation | 15 | FF&E | 24"D X 72" (or 96" if on casters) |
| FURN.TCHR | Teacher Chair | 1 | FF&E | On casters |
| FURN.TS01 | Teaching Station | 1 | FF&E | Accommodate equipment |

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | * | CFCI | Front wall, full height |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:
Remarks Provide a 4 LF of marker tray at the front wall. Locate the tray to the right/left of marker wall (not centered).

## Room 530 Media Production

**Special Use Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GYP | Gypsum Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 535 Media Production Service

**Special Use Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Space that serves as an extension of activities in Space 530, including storage, equipment, prep, control booths, etc.

GENERAL SPACE REQUIREMENTS

Spaces may include:
-Storage of film, tape, cassettes, supplies, etc.
-Receiving Room
-Dark Room
-Prep Room
-Control Room

Size dependent upon spaces being served.
Ceiling Height: 9'-0" minimum

SPECIAL ROOM REQUIREMENTS

Each room should be outfitted to specifically service its designated space. Central Room, an option, could be chosen to include the equipment within its space in lieu of building an independent room.

LOCATION / ADJACENCIES

Adjacent to space being serviced.

## Room 535 Media Production Service

**Special Use Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

Remarks: *Provide power & data to all specialized equipment in addition to typical service outlets.

#### Technology

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | |

Remarks:

#### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | 08710.DH05 | Electronic Security Access | as needed |
| **Window** | | | | | |
| 08000.IW | Interior Window | 1 | | | 3' X 5' window to adjacent space |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

#### Special Requirements

Remarks:

## Room 535 Media Production Service

**Special Use Facilities**

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.102 | Lineal Feet of Countertop w/ Knee space | * | CFCI | |
| 12310.GS130 | General Storage Cabinet - Closed | * | CFCI | |
| FURN.S25 | Shelving | * | FF&E | |

Note Ref #:
Remarks * As needed for items being stored.

### Accessories

Note Ref #:
Remarks

## Room 535 Media Production Service

**Special Use Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Countertops** | | | |
| Finish | PL | Plastic Laminate | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |
| **Casework** | | | |
| | PL | Plastic Laminate | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 540 Clinic

**Special Use Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Open-stack study room or libraries serve as a study resource for students at Ivy Tech. Space needs to include areas for multiple types of media, books, magazines, display. It also serves as a computer lab and study area. Zones should be provided to accommodate student computers, soft seating, and seating at tables.

GENERAL ROOM REQUIREMENTS

Space Requirements
-Anticipated Room Occupancy: 4-6 students
-Minimum ceiling height: 9'-0" A.F.F.
-Minimum acoustical rating: STC 50

Group study rooms should contain a conference table for the number of occupants and marker boards for use by the students. All equipment, accessories, furnishings, and projection requirements need to be shown in room layout and reviewed during the design process.

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

Study rooms should be located within or adjacent to the library. The rooms should be acoustically separated from noise producing spaces to provide an quiet environment for study.

## Room 540 Clinic

**Special Use Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

### Finishes

Note Ref #:
Remarks

## Room 610 Assembly

**General Use Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Assembly spaces are primarily Auditoriums with sloped or tiered flooring to accommodate more than 60 occupants; if fixed tables are provided, use tiered levels. If no fixed tables are provided, for over 60 occupants, use sloped floor. The space needs to be equipped with projection systems, audio, video, and lighting to accommodate a number of functions, including but not limited to, Drama, Music, Devotional or Commencement Activities. Room acoustics, viewing angles, and sight lines to the front need to be carefully considered in the design of assembly spaces.

GENERAL ROOM REQUIREMENTS

-Room Size: 12-15 ASF per occupant
-Anticipated Room Occupancy: 60-400
-Minimum ceiling height: Determined by viewing angles
Room occupancy should be determined through programming.

Access to equipment and lighting in the ceiling needs to be considered. Access can be with a lift, but design should accommodate lift and access to all equipment.

Windows should be avoided to optimize projection images within the space.

Tiered or sloped floor is required.

Seating should be fixed with self-closing seats.

SPECIAL ROOM REQUIREMENTS

Acoustical considerations.

ADA areas in front and rear. Fixed table with moveable seating.

Support spaces may not be required for all assembly spaces, especially those that are to serve 60 - 80 people.

LOCATION/ADJACENCIES

Assembly spaces should be located near public entries and restrooms. Adequate space needs to be allowed (3-5 SF per occupant) in the lobbies outside of the assembly space.

## Room 610 Assembly

**General Use Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

| Item | | Qty | Remarks |
|---|---|---|---|
| 15851.MD191 | Reference Mechanical Standard for Cooling Requirements | * | |

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.DF110 | Drinking Fountains | 1 | | Provide in Lobby near the Auditorium |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | * | Provide receptacles at seats to accommodate power for laptops. |

Remarks:

## Room 610 Assembly

**General Use Facilities**

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.AES | Independent Audio Enhancement System | 1 | Include overhead mikes for Distance Learning. Speakers & Microphones with surround sound |
| 00000.C110 | Staff Computers - Desktop, Hardwired | 1 | |
| 00000.DC100 | Data Connections | 1 | |
| 00000.PRJ1 | LCD Computer Projector Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted | 1 | |
| 00000.WRLSAD | Wireless Access Device | 2 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L160 | Task Lighting | * | |
| 16515.L200 | Theatrical Lighting | * | |
| 16515.L210 | House Lighting | * | |

Remarks:

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR111 | Door - Type A (Solid) | * | | |

Remarks:

### Special Requirements

Remarks:

## Room 610 Assembly

**General Use Facilities**

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.PS18 | Projection Screen | 1 | CFCI | |

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.D170 | Seating | * | FF&E | Tiered floor |
| FURN.TD110 | Teacher Demonstration (Mobile) | 1 | FF&E | Accommodate equipment |
| 12710.02 | Fixed Audience Seating, Tablet Arm | * | CFCI | Sloped floor; Seating width - 22" |
| 12710.04 | Fixed Audience Tables | * | CFCI | Tiered floor |

Note Ref #:
Remarks * Amount per occupant

### Accessories

Note Ref #:
Remarks

## Room 610 Assembly

**General Use Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Acoustical** | | | |
| Treatment | 09841.AWP | Acoustical Wall Panels | |
| **Wall** | | | |
| Finish | 09720.VWC | Vinyl Wall Covering | |
| Finish 2 | 09681.CPT | Carpet Tile | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | Provide ceiling type required by acoustical design. |
| Type 2 | 09250.GYP | Gypsum Board | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09680.CP | Carpet | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 615 Assembly Service

**General Use Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Assembly service spaces include A/V rooms, storage rooms or other ancillary spaces serving an assembly function.

GENERAL ROOM REQUIREMENTS

AV Rooms - Locate at the rear of the assembly space, elevated above the seating. Room should accommodate power and technology for audio-visual presentations, theatrical lighting, sound system and video projection. Room should have operable openings into the Assembly space. Determine ceiling height by the opening needs.

-Speaker Prep Room: 12' X 12'
-Room size: 10'-10" deep X 20' wide minimum
-Ceiling Height: 8'-0" minimum

Storage Rooms: Storage area should be provided for equipment use within assembly space and accommodate equipment planned for space. Consideration should be given to storage of a lift for service of lighting.

MEP, Equipment and Furnishings should be determined by requirements of service spaces for Assembly Room.

Assembly and service space should be equipped with multiple conduits for distribution of technology and power throughout the space.

## Room 615 Assembly Service

**General Use Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 2 | for Speaker Room |
| 16143.62-1 | 20amp Receptacle, Equipment Use | * | for A/V Room |

Remarks: As required to support Technology Controls.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C110 | Staff Computers - Desktop, Hardwired | 2 | 1 for Speaker Room and A/V Room |
| 00000.TEL | Telephone | 2 | 1 for Speaker Room and A/V Room |

Remarks: As required to serve space, Staff Desktop Hardwired computers.

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | * | Speaker Room |

Remarks:

## Room 615 Assembly Service

**General Use Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | * | | |
| 08000.DR130 | Double Doors | 1 | | A/V Room |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.102 | Lineal Feet of Countertop w/ Knee space | * | CFCI | For A/V Room |
| FURN.D120 | Standard Desk & Chair | 1 | FF&E | For Speaker Room |
| FURN.D150 | Teacher Aide Standard Desk & Chair | 2 | FF&E | |
| FURN.TCHR | Teacher Chair | 2 | FF&E | For A/V Room |

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | |

Note Ref #:
Remarks

## Room 615 Assembly Service

**General Use Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | Black for A/V Room |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | For Speaker Room and A/V Room |

Note Ref #:
Remarks

# Room 630 Food Facility

**General Use Facilities**

## Executive Summary

SPACE DESCRIPTION & OVERVIEW

General use food facilities are seating areas where students can obtain and eat food.

GENERAL ROOM REQUIREMENTS

Room Size: 400-600 SF and may vary based on Food Service provided.

Minimum Ceiling Height: 9'-0" A.F.F.

Food service needs to be determined by campus needs.

Food service component should allow for food service counter. Not required if food is supplied by vending machine only.

Graphics and signage above the counter should highlight the space and make it appealing to students, faculty, and staff.

All equipment, accessories, and furnishings, need to be shown in room layout and reviewed during the design process and coordinated with vendor.

SPECIAL ROOM REQUIREMENTS

No requirements

ADJACENCIES/LOCATION

The food facility should be located in a central area. Easy access to a Janitor's closet would be helpful.

## Room 630 Food Facility

**General Use Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

| Item | | Qty | Remarks |
|---|---|---|---|
| 15851.MD191 | Reference Mechanical Standard for Cooling Requirements | 1 | |

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 2 | Per wall |
| 16143.62-1 | 20amp Receptacle, Equipment Use | * | Provide multiple areas for student laptop power |

Remarks: *Coordinate electrical requirements with equipment for food service

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.M | Video Monitors - Flat Screen | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks: * Staff Computers, hardwired. Cash registers & credit card machines.

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | |

Remarks:

## Room 630 Food Facility

**General Use Facilities**

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | 08710.DH01 | Closer | |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.C20 | Chair | * | FF&E | |
| FURN.T23 | Table | * | FF&E | Loose tables |

Note Ref #:
Remarks *Seating / tables based upon number of occupants

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | Use for display of health-related information |

Note Ref #:
Remarks

## Room 630 Food Facility

**General Use Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-2 | Acoustical Panel Ceiling-Washable | in serving area |
| Type 2 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |

Note Ref #:
Remarks

## Room 735 Central Storage Service

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION & USE

Central Storage Facilities are utilized for general building storage of the following items, including but not limited to: furniture, cleaning and maintenance, computers, light fixtures, etc.

SQUARE FOOTAGE

Determined by user needs, 1000 SF min.

SPECIAL ROOM REQUIREMENTS

No requirements.

LOCATION/ADJACENCIES

Inventory storage needs and provide storage areas where needed around the building. Locate near other service areas and utilize for acoustical separation between mechanical rooms and academic spaces.

## Room 735 Central Storage Service

**Support Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | N/A | No finish | |
| Base | N/A | No finish | |
| **Ceiling** | | | |
| Type 1 | N/A | No finish | |
| **Floor** | | | |
| Finish | 09960.SC-1 | Sealed Concrete | |

Note Ref #:
Remarks

## Room 640 Community Room

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Community Rooms are used by community organizations and the neighborhood. Consider operable partitions to allow the space to be subdivided.

GENERAL ROOM REQUIREMENTS

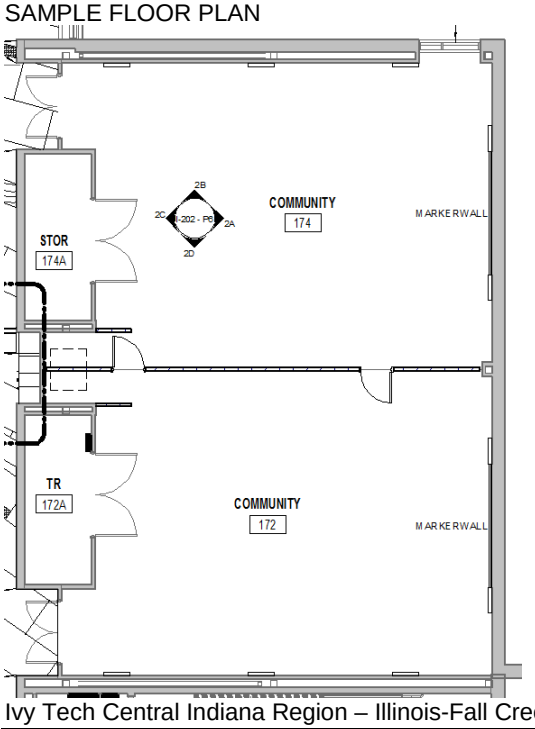
Room Size: Assume 15 SF/Person

Room Occupancy:
Ceiling height: Varies due to space size. Consider 12'-0"

LOCATION/ADJACENCIES

Community rooms should be located near the main entrance and in the public area. Public restrooms should be provided near the Community Room.
Consider locating near catering function if available.
Securing the facility and the community room should be considered as the function of the space occurs at multiple times and after hours.

SAMPLE FLOOR PLAN




Ivy Tech Central Indiana Region – Illinois-Fall Creek

## Room 640 Community Room

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | 1 | |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.AES | Independent Audio Enhancement System | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |
| **Misc.** | | | |
| 00000.MICW | Wireless Microphones | 12 | |

Remarks:

## Room 640 Community Room

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | with dimming capabilities |

Remarks:

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | Quantity to be determined by code requirements. If rated door is needed, adjust size of glass appropriately |

Remarks: Consider operable partition to subdivide space

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.L120 | Student Seating | 30 | FF&E | |
| FURN.SW08 | Student workstation, 24"D x 48"W | 15 | FF&E | |

Note Ref #:
Remarks: Quantity to be determined by size and community needs.

## Room 640 Community Room

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | |

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09720.VWC | Vinyl Wall Covering | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 650 Lounge

**General Use Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Lounges are used by students for socialization, eating, and gathering. The lounge should contain seating at tables and chairs, soft seating, vending area, and displays. The space should be zoned to provide separation of more quiet activity with noisier activity.

GENERAL ROOM REQUIREMENTS

Room Size: 15 ASF per person

Room Occupancy: For planning purposes, provide room for 10% FTE.
Minimum ceiling height: Varies due to space size. Minimum: 9'-0"

Vending area should be provided within the lounge or in an adjacent space.
Natural light should be provided.

All equipment, accessories, furnishings, and projection requirements need to be shown in room layout and reviewed during the design process.

A variety of seating types should be provided to accommodate both individuals and groups.

LOCATION/ADJACENCIES

Student lounges should be centrally located to create an active campus environment and interaction within the building. Adjacent spaces need to be acoustically separated from the lounge. Locate a Janitor's closet near all lounges.

## Room 650 Lounge

**General Use Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Reference Mechanical Systems Standard.

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.DF110 | Drinking Fountains | 2 | | |
| 15440.S171 | Sinks - Double Bowl | 1 | | |

Remarks: Water to coffee machine.

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | * | |
| 16143.62-1 | 20amp Receptacle, Equipment Use | * | |
| 16143.R130 | 20 amp circuit per 4 students | * | Provide multiple areas for student laptop |

Remarks: Reference Electrical Systems Standard.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.ATM | Automated Teller Machine | 1 | |
| 00000.CP | Copier | 1 | Coin-Operated |
| 00000.DISPL | Display (Wall-mounted) | 3 | Quantity is size dependent. |
| 00000.TELWIRING | Telephone Wiring | 1 | Required for ATM |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

## Room 650 Lounge

**General Use Facilities**

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | |

Remarks:

### Doors and Windows

Remarks:

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.CM100 | Coffee Machine | * | FF&E | with water |
| 12000.MW | Microwave | * | FF&E | |
| 12000.VM | Vending Machine | 6 | | Vendor supplied / installed |

Note Ref #:
Remarks Verify quantity with campus

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | 8 | CFCI | |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | 8 | CFCI | |
| FURN.C20 | Chair | * | FF&E | Nesting seats |
| FURN.L211 | Lounge Seating - Sofa | * | FF&E | Soft seating - 20% of seating capacity |
| FURN.L212 | Lounge Seating - Chairs | * | FF&E | |
| FURN.T23 | Table | * | FF&E | Nesting tables |

Note Ref #:
Remarks Seating count based upon number of occupants

## Room 650 Lounge

**General Use Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 2 | CFCI | with glass doors and lockable |

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | at vending areas and some tables |
| Finish 2 | 09681.CPT | Carpet Tile | |

Note Ref #:
Remarks

## Room 655 Lounge Service

**General Use Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Lounge service areas provide vending service to the lounge areas and are typically separated from the Lounge area by a wall. An area for recycling should be incorporated.

Approximate Room Size: 160-250 SF
Minimum ceiling height: 9'-0" A.F.F.

General: Vending Areas should be in full view and have easy access for students and staff. Verify with the college which vending options will be made available. This is a funding source for the Foundation.

## Room 655 Lounge Service

**General Use Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.S150 | Mop Sink | 1 | | Within closet, with drop-in strainer |
| 15440.S171 | Sinks - Double Bowl | 1 | | |
| **Fixed** | | | | |
| 15440.FD12 | Floor Drain | 1 | | |

Remarks: Provide plumbing as required for vending machines.

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.62-1 | 20amp Receptacle, Equipment Use | * | Coordinate power with equipment use. |

Remarks:

#### Technology

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | |

Remarks:

## Room 655 Lounge Service

**General Use Facilities**

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | 08710.DH01 | Closer | Door not required |

Remarks:

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.MW | Microwave | 1 | FF&E | |
| 12000.VM | Vending Machine | 6 | | Vendor furnished & |

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | 8 | CFCI | |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | 8 | CFCI | |

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

## Room 655 Lounge Service

**General Use Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-2 | Acoustical Panel Ceiling-Washable | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | with slip resistant finish |
| **Casework** | | | |
| | PL | Plastic Laminate | |

Note Ref #:
Remarks

# Room 660 Merchandising

**General Use Facilities**

## Executive Summary

SPACE DESCRIPTION & OVERVIEW

Merchandising space is utilized as a retail space for Ivy Tech and other merchandise. The size may vary greatly by campus.

GENERAL ROOM REQUIREMENTS

For campuses with Healthcare and Industrial Tech programs, additional display areas will be needed for equipment sales.

Two small dressing areas should also be provided for clothing sales (especially with Healthcare programs).

The retail area should be designed to have storefront windows or glazing to the public corridor. The space should be large enough for a variety of supplies and other merchandise. The retail area should have slat wall from floor to ceiling on all wall surfaces where possible.

The merchandising area will need to be large enough to house shelving for sales. The Merchandising may need direct access to a large storage and should be located near a receiving area for delivery and unpacking.

The Merchandising area may be a vendor-provided service and may be a "tenant build-out" approach. Confirm with the campus on the approach prior to full design. A division of responsibilities must be discussed.

A flow of students for registration must be discussed to ensure adequate space.

Office space may be provided in an adjacent space (Category 310).

Ceiling heights should be based upon the room size and should consider security needs of the room (i.e camera heights, mirror heights, etc.).

LOCATION/ADJACENCIES

The retail merchandising area should be connected to a main corridor (High Traffic Area) for access by students and the public. The rear of this space needs to have access to a receiving and delivery area for the building. If possible, this space should be located adjacent to a student lounge.

## Room 660 Merchandising

**General Use Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | * | |
| 16143.62-1 | 20amp Receptacle, Equipment Use | 1 | |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C110 | Staff Computers - Desktop, Hardwired | 2 | Provide power and data at each sales station |
| 00000.SC110 | Surveillance Camera | * | In bookstore and storage |
| 00000.SECGT | Security Gates | * | At each entrance / exit |
| 00000.SRV | Video Surveillance System | * | |
| 00000.TEL | Telephone | 1 | |
| 00000.TELWIRING | Telephone Wiring | 1 | Connection for charge card/cash register |

Remarks: * As required per store layout. Verify number and type with vendor / college.

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | * | Retail space |

Remarks: Lighting in retail space needs to be coordinated with the layout and needs of the merchandise.

## Room 660 Merchandising

**General Use Facilities**

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR111 | Door - Type A (Solid) | 2 | | | Double door from Work Room to storage and receiving room |
| 08000.DR111 | Door - Type A (Solid) | 1 | 08710.DH05 | Electronic Security Access | Door from retail area to Work Room/Bookstore |
| **System** | | | | | |
| 08410.SF | Storefront | 1 | | | Use at main entry to retail area |

Remarks:

### Special Requirements

Remarks: *Curtains at dressing rooms or could be doors.

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 00000.CCM | Charge Card Machine | 1 | FF&E | Required power & data |
| 00000.CR | Cash Register | 2 | FF&E | |
| 12900.SF120 | Safe | 1 | FF&E | |

Note Ref #:

Remarks *Verify number and type of equipment with vendor / college

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.RD111 | Sales Counter, Lineal feet | 20 | CFCI | Sales area |
| 10671.MS101 | Metal Shelving | * | CFCI | Bookstore /storage shelving. Plastic laminate optional. |
| 12000.SW100 | Slat wall | * | CFCI | |

Note Ref #:

Remarks *Verify number and types with vendor / college.

## Room 660 Merchandising

**General Use Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10431.SB100 | Retail Signage above counter | 1 | FF&E | |
| **Visual Display** | | | | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 1 | CFCI | |

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Finish 2 | 06402.SW | Slat wall system | Provide in retail area on a minimum of two walls |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | Retail Area |
| Finish 2 | 09000.001 | Hard Surface/No-wax Flooring | Work room/bookstore |
| **Casework** | | | |
| | SS | Solid Surface/Corian | Optional at retail counter |

Note Ref #:
Remarks

## Room 661 Bookstore

### Executive Summary

SPACE DESCRIPTION & OVERVIEW
Ivy Tech works with Follett to provide book store spaces in their campuses. The space standard indicates a white box space including infrastructure to be prepared for Follett to build out with finishes and fixtures.

GENERAL ROOM REQUIREMENTS
-Minimum Ceiling Height: 10'-0" A.F.F.
-Minimum Acoustical Rating: STC 50

LOCATION/ADJACENCIES
The bookstore should be located near student congregation areas such as the student commons or main entrance.
Provide separate storage room. Connect storage room to the bookstore.
Provide separate office. Connect office room to the bookstore.
An exterior entrance dedicated to the book store is optional. Discuss this option with the Region and Follett.

SPACE ALLOCATION
Follett to provide space requirements based on student FTE
-Sq/ft - Retail 80%,
-Sq/ft - Storage, Shipping/Receiving, Offices 20%

CONSTRUCTION
-Structural columns as few as possible.
-Internal (not perimeter) plumbing or mechanical chases should be avoided where possible.
-Floor loads:
----The minimum live load requirement for the text sales floor is 125 lb./sq.ft.
-----The clothing and gifts sales areas only require a live load of 100 lb./sq.ft.
-Direct, secured access to loading dock from shipping/receiving areas.
-Dock should have covered bay for 18-wheel semi trailer. If located on a floor other than the bookstore elevator access is required.
-Direct access to waste disposal – preferably in the loading dock area.
-Finished ceiling height in retail areas minimum 10' –0" height is recommended.
-Minimal perimeter glazing to maximize retail wall space. All exterior glazing should be tinted to reduce fading.
-Provisions for exterior signage if allowed by code.
-Adequate parking – defined by local codes, five to ten parking spaces with a 30 minute limit for bookstore customers is preferred.
-All interior office and storage partitions required by the bookstore to be finished & installed by owner per Follett's design requirements
-All gypsum board partitions sanded, primed ready for finish.
-Floors prepped and ready for finished flooring.
-Space to meet Uniform Building Code, local codes, and be ADA compliant.
-ADA compliant employee only restroom(s) if required by code. (Public restrooms may be required if the building is single tenant structure or larger than 10,000 square feet.)

MECHANICAL
-HVAC requirements to be determined by engineer. Minimum of one ton of cooling per 300 square foot of space.

LIGHTING
-General lighting – 2x2 (8' o.c.) or 2x4 (10' o.c.) energy efficient florescent with parabolic lens.

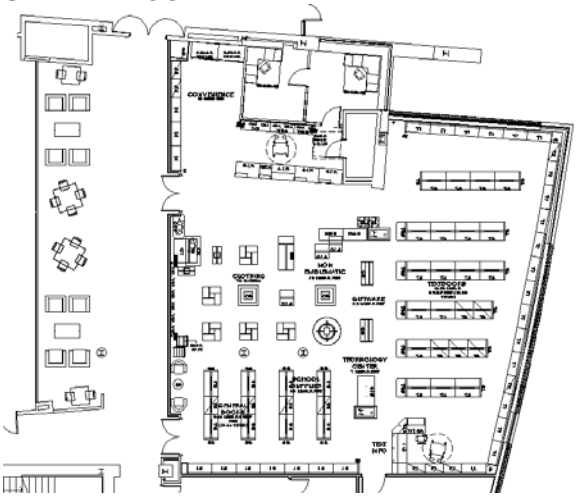
-60 to 70 foot-candles at 3'AFF is minimum recommendation for sales floor general lighting.
-Accent lighting – track or recessed lighting locations to be specified based on bookstore final display fixture layout and will be prepared by Follett.

ELECTRICAL
-Amperage to be determined by engineer. Minimum of 200amp service, the amperage will increase based on the square foot of the space.
-Follett to provide electrical locations including rough-in for telecom and data.
-Convenience outlets (quantity regulated by code) should not be located in the retail area until final display fixture plan is completed.

FIRE PROTECTION
-Fire protection systems to be determined by engineer.
-Strobes are typically mounted at 80" AFF. Standard wall shelving is 86" high. If allowed by code, mount devices at 9' AFF or locate on columns or ceiling.
-Emergency egress doors with direct access from the sales floor to include hardware that is alarmed with a 15 second delay panic device. This installation will need to be approved by the College and the local Fire Marshall. (May need to be wired into the fire alarm system for immediate access.)
-Prefer concealed sprinkler heads.
TELECOMMUNICATIONS
-Telephone service (voice) is typically provided by the College. If not, Follett will install a stand-alone telephone system in the bookstore.
-Modem and fax lines are typically direct dial lines ordered through the local telephone company by Follett but may also be provided by the College (TBD). Provide a path (3/4" empty conduit w/pull-string) from point of demarcation in the building to bookstore space.
-A T-1 line is typically ordered by Follett. Provide a path (3/4" empty conduit w/pull-string) from point of demarcation in the building to bookstore space.

DATA
-All data cable within the bookstore will be part of the Follett network unassociated with the College data network system. All data cable from retail floor, offices, and storage space are to be home-run to Follett patch panel located within the bookstore – not the building's telecom closet.
-If the bookstore requires access to the College's network for e-mail, registration, student charges…etc., it is suggested that the cable be pulled from the building's telecom closet to a separate patch panel located near the Follett patch panel and run to the specified location within the bookstore.

SAMPLE FLOOR PLAN



Ivy Tech South Bend

## Room 661 Bookstore

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.62-2 | Receptacle, Equipment Use | 1 | Electrical for Follett technology server |
| Remarks: | Provide junction box above the ceiling for extension by Follett (2 circuits min.) | | |

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.ADC100 | Additional Data Connections | 1 | Junction box at technology server location |
| 00000.ADC100 | Additional Data Connections | 1 | 6 data cables min. at junction box above ceiling for terminations by Follett |
| 00000.WRLSAD | Wireless Access Device | 1 | |
| Remarks: | Coordinate technology needs with Follett | | |

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L120 | Indirect Lighting | 1 | |
| Remarks: | Directional or specialized lighting provided by Follett | | |

## Room 661 Bookstore

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR114 | Door - Type D (Full window) | 1 | | |
| **System** | | | | |
| 08410.SF | Storefront | 1 | | |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks Furniture and display casework by Follett

### Accessories

Note Ref #:
Remarks

## Room 661 Bookstore

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09250.GWB | Gypsum Wall Board | |
| Base | N/A | No finish | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | Unpainted and taped. |
| **Floor** | | | |
| Finish | N/A | No finish | Prepare to finish |

Note Ref #:
Remarks

## Room 665 Merchandising Service

**General Use Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Merchandising service rooms are to support the merchandising space. This room will serve as the central storage and receiving area for the bookstore. The room will be used to open and breakdown book and merchandise delivery before stocking within the merchandising space.

GENERAL ROOM REQUIREMENTS

Room Size: 20' x 40' minimum.

Provide overhead door or double doors from storage room into building receiving area. Opening should be minimum 6'W x 8'H

Provide double doors from receiving area into the bookstore.

Ceiling height to be 12' clear to bottom of structure. Exposed structure will be acceptable in this area.

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

The retail merchandising area should be connected to a main corridor for access by students and the public. The bookstore should be connected to a storage area with double doors between the spaces. The rear of this space needs to have access to a receiving area and loading dock for the building. The merchandising receiving area needs to have easy access to a separate or central delivery area for the building. Books and merchandise should not be carted through the building.

Some campuses need to hold a minimum of 15 book pallets near registration time.

## Room 665 Merchandising Service

**General Use Facilities**

# UNIQUE ROOM REQUIREMENTS

## Mech/Electrical/Plumbing Requirements

### Mechanical

Remarks:

### Plumbing/Gases/Utilities

Remarks:

### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 1 | |
| 16143.62-1 | 20amp Receptacle, Equipment Use | 1 | |

Remarks:

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.SC110 | Surveillance Camera | 1 | |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L02 | 2x4, fluorescent | 3 | Prismatic lens |

Remarks:

## Room 665 Merchandising Service

**General Use Facilities**

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR111 | Door - Type A (Solid) | 4 | 08710.DH05 | Electronic Security Access | 3' W X 7'-6" H |
| 08000.OD100 | Overhead Door | * | | | |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10671.MS101 | Metal Shelving | * | CFCI | or build-out by vendor |

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

## Room 665 Merchandising Service

**General Use Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | EX | Exposed Structure - Painted | |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | |
| **Floor** | | | |
| Finish | 09960.SC-1 | Sealed Concrete | |

Note Ref #:
Remarks

## Room 670 Recreation / Wellness Center

**Special Use Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

The Wellness Rooms are for student and staff use for strength and aerobic training. One should be for equipment training and one for aerobics.

GENERAL ROOM REQUIREMENTS

Space Requirements: Accommodate 30 people per day on average for equipment and aerobic classes of 25 students/per class.

Equipment Training: 2,500 SF
Aerobics: 1,100 SF

Space layout should accommodate minimum equipment identified by the campus. If additional equipment is required by program, layout should dictate room size.

Provide wall-mounted televisions viewable to equipment. Drinking fountain should be provided within the equipment room.

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

These rooms should be located off of a main corridor, preferably first floor space. It should be acoustically separated from study/classroom spaces.

## Room 670 Recreation / Wellness Center

**Special Use Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.DF110 | Drinking Fountains | 2 | | One in each room |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | * | |
| 16143.62-1 | 20amp Receptacle, Equipment Use | * | |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C110 | Staff Computers - Desktop, Hardwired | 1 | |
| 00000.CR100 | Card Reader | 1 | For Student IDs (at Reception Desk) |
| 00000.DISPL | Display (Wall-mounted) | 4 | |
| 00000.SC110 | Surveillance Camera | * | |
| 00000.TEL | Telephone | 1 | |
| **Instructional** | | | |
| 00000.DVD100 | DVD | 1 | |
| **Misc.** | | | |
| 00000.SA | Sound Amplification | 2 | |

Remarks: * Verify amount.

## Room 670 Recreation / Wellness Center

**Special Use Facilities**

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L08 | 2x4 T8 lamp with prismatic lens | 3 | |

Remarks:

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR113 | Door - Type C (Window in top 1/2 of door) | 1 | | |

Remarks: Fitness Room may not be staffed - special card access locking should be considered.

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 00000.BIKE | Exercise Bicycle | 20 | FF&E | |
| 00000.BIKE2 | Sit-down Bicycles | 2 | FF&E | |
| 00000.ELLIP | Elliptical Trainer | 2 | FF&E | |
| 00000.ST | Stepper | 2 | FF&E | |
| 00000.TRD | Treadmill | 4 | FF&E | |
| 00000.WGT | Weight Machine | 2 | FF&E | |

Note Ref #:
Remarks: Verify equipment with Owner. Above indicates an example only.

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 06402.RD110 | Reception Desk | 1 | CFCI | Check-in desk |
| 12310.CS.110 | Cubbie Storage | * | FF&E | In each exercise space |

Note Ref #:
Remarks

## Room 670 Recreation / Wellness Center

**Special Use Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Bathroom Accessories** | | | | |
| 10801.D1 | Mirrors | 2 | CFCI | Two walls of each room (wall to wall) |
| **Visual Display** | | | | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | 2 | CFCI | One in each room |

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09622.RAF | Rubber Athletic | Exercise Equipment Room |
| Finish 2 | WD | Wood | Cushioned wood floor in Aerobics Room |

Note Ref #:
Remarks

## Room 675 Recreation Service

**General Use Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Spaces to support a Wellness Center include locker room facilities for 30-40, office area for staff & consultants.

GENERAL SPACE REQUIREMENTS

Space layout should accommodate the specific requirements for each campus.

Offices may be provided in adjacent spaces (see Space Code 310).

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

Support spaces should be adjacent to the Wellness Center.

## Room 675 Recreation Service

**General Use Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

| Item | | Qty | Remarks |
|---|---|---|---|
| 15815.MD120 | Dryer Exhaust Size 6" | 1 | Verify exhaust size to equipment. |

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.DF110 | Drinking Fountains | * | | |
| 15440.FD101 | Floor Drain | * | | |
| 15440.L111 | Lavatory - Group, Solid Surface | * | | |
| 15440.SH110 | Shower | * | | |
| 15440.T110 | Toilets - Wall - Automatic | * | | |
| 15440.U110 | Urinal - Manual | * | | |
| **Fixed** | | | | |
| 15440.MS13 | Mop Sink, 24" x 24", 12"H | 1 | | |

Remarks: Provide Janitor Closet with mop sink adjacent to space.

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 1 | |
| 16143.62-1 | 20amp Receptacle, Equipment Use | 1 | |
| 16143.S130 | Key Switch | 1 | |

Remarks:

## Room 675 Recreation Service

**General Use Facilities**

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | 1 | in office areas |
| 16515.L08 | 2x4 T8 lamp with prismatic lens | 3 | in locker areas |

Remarks:

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | | |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.D120 | Standard Desk & Chair | 1 | FF&E | |

Note Ref #:
Remarks

## Room 675 Recreation Service

**General Use Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10505.E1 | Locker Bench | * | CFCI | |
| 10505.ML110 | Metal Locker | * | CFCI | Half height |
| **Bathroom Accessories** | | | | |
| 10155.ADA | ADA Toilet Compartment | * | CFCI | |
| 10155.STND | Standard Toilet Compartment | * | CFCI | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | * | OFOI | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | * | OFOI | |
| 10801.C1 | Grab Bars | * | CFCI | |
| 10801.D1 | Mirrors | * | CFCI | 2 full-length mirrors also |
| 10801.E3 | Sanitary Disposer | * | OFOI | Women's Restroom |
| 10801.E4 | Sanitary Dispenser | * | OFOI | Women's Restroom |
| 10801.G1 | Automatic Soap Dispenser | * | OFOI | |
| 10801.G2 | Toilet Paper Dispenser | 1 | OFOI | |
| 10801.H1 | Electric hand-air dryer | * | CFCI | |
| 10801.R1 | Diaper Changing | * | CFCI | Men's and Women's Restrooms |

Note Ref #:
Remarks

## Room 675 Recreation Service

**General Use Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09671.RS | Resinous | |
| **Ceiling** | | | |
| Type 1 | 09250.GYP | Gypsum Board | |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | with ceramic tile |
| **Floor** | | | |
| Finish | 09671.RS | Resinous | |

Note Ref #:
Remarks

## Room 680.01-A Meeting Room - A

**General Use Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Meeting rooms are utilized for a variety of functions. The room is designed to be lecture style (i.e. a speaker at the front of the room), with moveable furniture (tables and chairs on casters) for flexibility. Educational tools include a wall of white boards and a projector, arranged for simultaneous use. Room proportions will incorporate proper viewing angles of all visual display surfaces. Room size may vary based on the number of persons to be accommodated. Rooms should be able to be divided for smaller meeting rooms or opened for one large meeting room. This room could also be used as a student project room.

GENERAL ROOM REQUIREMENTS

-Room Size: 25 ASF per person
-Room Occupancy: 50 (varies, provide multiple sizes for flexibility)
-Minimum ceiling height: 9'-0" A.F.F.
-Minimum acoustical rating: STC 50

Minimum row spacing should be 5'-0" from front to front of tables. The distance from the projection surface should be 1 to 1.5 times the width of the screen or projected area. Screen size needs to consider viewing angles, distances to screen, lighting, and types of information to be projected.

All equipment, accessories, furnishings, and projection requirements need to be shown in room layout and reviewed during the design process.

Meeting rooms should have an adjacent storage room for tables and chairs.

Consideration should be given to providing an adjacent Kitchenette / Service Room in lieu of incorporating counters/sink in room.

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

Meeting rooms should be accessed from major corridors and isolated from industrial or service areas of the building. Consider access to meeting rooms at times when other areas of the building may not be occupied. Acoustics should be considered to ensure that sound does not travel to or from adjacent spaces.

## Room 680.01-A Meeting Room - A

**General Use Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

| Item | | Qty | Remarks |
|---|---|---|---|
| 15851.MD191 | Reference Mechanical Standard for Cooling Requirements | * | |

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.S120 | Sink w/ Garbage Disposal | 1 | | Could be incorporated in an adjacent space |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.07 | Wall-Mounted Raceways | 3 | Provide on three walls |
| 16143.61-1 | 20amp Duplex Receptacle, General Use | * | |
| 16143.62-1 | 20amp Receptacle, Equipment Use | * | |

Remarks:

## Room 680.01-A Meeting Room - A

**General Use Facilities**

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.AES | Independent Audio Enhancement System | 1 | |
| 00000.C230 | Student Computers - Laptop | 1 | |
| 00000.PRJ1 | LCD Computer Projector Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted | 1 | |
| 00000.TEL | Telephone | 1 | |
| 00000.VCON | Two-way Interactive Video Conferencing | 1 | Wiring / infrastructure |
| 00000.WRLSAD | Wireless Access Device | 1 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed volumetric troffer (basket style fixture) | * | |

Remarks:

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | 1 | | |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

## Room 680.01-A Meeting Room - A

**General Use Facilities**

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | 6 | CFCI | Could be incorporated in an adjacent space |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | 6 | CFCI | Could be incorporated in an adjacent space |
| FURN.C110 | Student Stacking Chairs | 50 | FF&E | |
| FURN.T04 | Table, 24"D x 72"W | 25 | FF&E | table on Casters |

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10322.01 | Operable Joiner Partitions | 1 | CFCI | Use when conjoining two rooms. |

**Visual Display**

| | | | | |
|---|---|---|---|---|
| 09720.02 | Marker Paint | 1 | CFCI | Full height |

Note Ref #:
Remarks Provide a 4 LF of marker tray at the front wall. Locate the tray to the right/left of marker wall (not centered).

## Room 680.01-A Meeting Room - A

**General Use Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09720.VWC | Vinyl Wall Covering | Chair rail and wainscot |
| Finish 2 | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | Optional wood |
| **Countertops** | | | |
| Finish | PL | Plastic Laminate | |
| Finish 2 | SS | Solid Surface/Corian | Optional |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09680.CP | Carpet | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 680.01-B Meeting Room - B

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Meeting rooms are utilized for a variety of functions. The room is designed to be a flexible room, with moveable furniture similar to a general classrooom or Computer Lab. Educational tools include a wall of white boards and a projector, arranged for simultaneous use. Room proportions will incorporate proper viewing angles of all visual display surfaces. Room size may vary based on the number of persons to be accommodated.

GENERAL ROOM REQUIREMENTS

-Room Size: 35 ASF per occupant
-Minimum ceiling height: 9'-0" A.F.F.
-Minimum acoustical rating: STC 50

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

Meeting rooms should be accessed from major corridors and isolated from industrial or service areas of the building. Consider access to meeting rooms at times when other areas of the building may not be occupied. Acoustics should be considered to ensure that sound does not travel to or from adjacent spaces.

## Room 680.01-B Meeting Room - B

# UNIQUE ROOM REQUIREMENTS

## Mech/Electrical/Plumbing Requirements

### Mechanical

Remarks:

### Plumbing/Gases/Utilities

Remarks:

### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.07 | Wall-Mounted Raceways | * | Power to serve all equipment and each student workstation. |
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 2 | Provide at front and rear of classrooms. |

Remarks:

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.AES | Independent Audio Enhancement System | 1 | |
| 00000.PRJ1 | LCD Computer Projector Infrastructure | 1 | |
| 00000.PRJ2 | LCD Computer Projector, ceiling-mounted | 1 | |
| 00000.VCON | Two-way Interactive Video Conferencing | 1 | Wiring / infrastructure |
| 00000.WRLSAD | Wireless Access Device | 1 | |
| **Instructional** | | | |
| 00000.AVS100 | A/V Switching Control System | 1 | |
| 00000.C140 | Teacher Computer with Media Package | 1 | |
| 00000.CAM100 | Document Camera | 1 | |
| 00000.DVD100 | DVD | 1 | |

Remarks:

## Room 680.01-B Meeting Room - B

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed volumetric troffer (basket style fixture) | * | |

Remarks:

### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR112 | Door - Type B (6" X 30" window lite) | * | 08710.DH02 | Classroom Lock Function | Thumb lock on room side |

Remarks: If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.SC10 | Student Chairs | 30 | FF&E | No casters |
| FURN.SW09 | Student Workstation | 30 | FF&E | |

Note Ref #:
Remarks All furnishings should have casters for ease of relocation and use change. Nesting tables should also be considered.

## Room 680.01-B Meeting Room - B

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 09720.02 | Marker Paint | 1 | CFCI | Full height |

Note Ref #:
Remarks: Provide a 4 LF of marker tray at the front wall. Locate the tray to the right/left of marker wall (not centered).

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GYP | Gypsum Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 685 Meeting Room Service

**General Use Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Meeting Room Service is used for the storage of tables, chairs and equipment used to support the Meeting Room.

Meeting Room Service may also include a small Kitchenette, if Meeting Room is in the Conference Center.

GENERAL ROOM REQUIREMENTS

Minimum Room Size: 15% of meeting room size. Room should be able to store all tables and 50% of chairs used within the space. Room should have double doors for easy access to room. Storage room size should also consider storage of smart boards, lectern, microphone stands, and other equipment needed for presentations.

SPECIAL ROOM REQUIREMENTS

No requirements

## Room 685 Meeting Room Service

**General Use Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-1 | 20amp Duplex Receptacle, General Use | 1 | |

Remarks:

#### Technology

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L05 | 2x4 recessed valumetric troffer (basket style fixture) | 1 | |

Remarks:

#### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR111 | Door - Type A (Solid) | 2 | | |

Remarks:

## Room 685 Meeting Room Service

**General Use Facilities**

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.CM100 | Coffee Machine | 1 | FF&E | |
| 12000.MW | Microwave | 1 | FF&E | |
| 12000.RG | Stove/Oven | 1 | FF&E | |
| 12000.UR | Under counter Refrigerator | 1 | FF&E | |
| 12000.E120 | Ice Machine | 1 | FF&E | |

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | |

Note Ref #:
Remarks

## Room 685 Meeting Room Service

**General Use Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | EX | Exposed Structure - Painted | |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | or Gypsum Wall Board |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | or hard-surface, no-wax flooring |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

# Room 690 Testing Room

## Executive Summary

SPACE DESCRIPTION & OVERVIEW

Testing Labs are used to allow students to take proctored certified exams. There must be visual connections between the testing lab and the reception to allow observation by the proctor. Testing candidates must be monitored continuously throughout their exams. Multiple proctors are required to monitor an exam if more than 15 candidates are taking an exam at one time. A dedicated video camera system will be required for monitoring of testing candidates.

The Testing Room must be an enclosed space housing the number of divided carrel workstations necessary to meet requirements. It should be dedicated to providing testing services, but can be used for other activities when not in testing use.

Private Testing Rooms (to accommodate one examinee only) may be required and should be physically separated from the Main Testing Room. One Private Room per testing facility is sufficient. Sized per ADA. Allow for attendant.

Each campus should validate the number of testing stations to be provided.

Testing lab requirements may change based on the testing vendor. Coordinate with the region for additional requirements.

Three areas are required to create a Testing Center:

-690 - Testing Room
-695 - Testing Service
-310 - Office

GENERAL ROOM REQUIREMENTS

Room Size: 35 ASF per person
Room Occupancy: Standard based upon 6 testing stations. Spaces could require up to 20 stations.
Ceiling Height: 9'-0"
This room must be acoustically private.

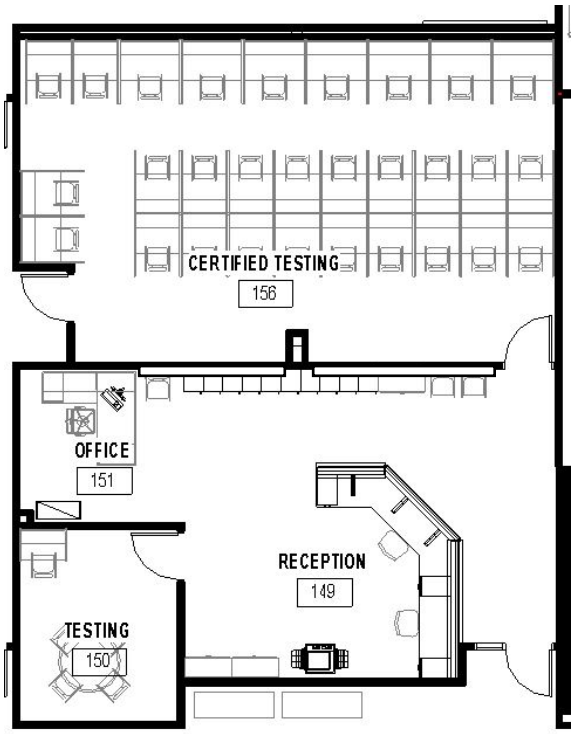
SPECIAL ROOM REQUIREMENTS

This must be a secure room. Walls must extend to the deck and must accommodate any certified testing requirements by the campus.

LOCATION/ADJACENCIES

It should be located near the front entry or Administration Area and restrooms should be located on the same floor. Convenience to vending is appreciated.

SAMPLE FLOOR PLAN




Ivy Tech Anderson

**Ivy Tech Community College** **Space Standards Sheet**

**Room 690 Testing Room**

## UNIQUE ROOM REQUIREMENTS

## Mech/Electrical/Plumbing Requirements

### Mechanical

Remarks:

### Plumbing/Gases/Utilities

Remarks:

### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.07 | Wall-Mounted Raceways | 2 | one on each wall |
| 16143.61-1 | 20amp Duplex Receptacle, General Use | * | |

Remarks:

### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.AUDSV | Audio Surveillance | * | |
| 00000.C210 | Student Computers - Desktop, Hardwired | As determined by Region. | |
| 00000.SRV | Video Surveillance System | * | |

Remarks: * 1 camera per workstation, monitored and recorded; connected to the proctor.
A video camera with a viewing screen at the testing administrator's desk which allows monitoring from outside of the testing room. This may also include audio monitoring. Video cameras also included in reception area.

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L02 | 2x4, fluorescent | * | As required. |

Remarks: Indirect lighting to reduce glare.

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR112 | Door – Double Glass | | | |
| **Window** | | | | |
| 08000.W120 | Fixed Observation Window | As req'd | | Administrator must be able to view the entire testing area. |

Remarks: Prefer no exterior windows. If rated door is needed, adjust window size or type of glass appropriately.

### Special Requirements

Remarks: Insulate above the ceiling. Must be sound insulated so that conversations and external noise cannot be heard or distract candidates. Wall insulation.

## Equipment

Note Ref #:
Remarks

## Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.C20 | Chair | 6 | FF&E | must be adjustable for the stations |
| FURN.T26 | Table, 30" D X 42" W | 6 | FF&E | Stations to include divider carrels per each computer. Top of divider 48" AFF. Work stations to be 48" D x 48" W preferred, 48" D x 36" W. Minimum. Meet ADA requirements for quantity of size of accessible stations. |

Note Ref #:
Remarks

## Accessories

Note Ref #:
Remarks

## Room 690 Testing Room

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09680.CP | Carpet | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 695 Testing Service

### Executive Summary

SPACE DESCRIPTION AND OVERVIEW

Testing Room Service Area should include Reception Area, Administrators work/check-in area, and a separate IT Equipment Room. The testing services room should be large enough to function as a reception, check in space, and waiting room for the testing center.

GENERAL ROOM REQUIREMENTS

Reception Area: 100 SF
Administrator's Area: 200 SF
IT Equipment Room: 90 SF
Ceiling Height: 9'-0"
Administrative Office - Refer to Space Code 310.

Reception Area should accommodate a waiting area and lockers to secure testing candidate's belongings. A wall clock must also be visible. Visual connection between the testing room and the reception is required.

Administrator's work - check-in area must be separate but adjacent to the Testing Room. A desk should be placed in a location to enable the Test Administrator to view the testing room through the viewing window. The desk must allow for the Administrator's computer workstation and web camera, and locking drawers. The room must accommodate a telephone, printer, fax machine, and a locking cabinet for storage of videotapes, sign-in sheet, reports, etc. The area must be configured to take the candidate's digital image.

IT Equipment Room should house the server and ancillary equipment. It must either be a locked closet or room, secure from public access and out of public view. It must contain an intrusion alarm and must be properly ventilated for proper operation of equipment.

## Room 695 Testing Service

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | * | |
| 16143.62-2 | Receptacle, Equipment Use | * | |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C110 | Staff Computers - Desktop, Hardwired | * | |
| 00000.FM | Fax Machine | 1 | |
| 00000.IA100 | Intrusion Alarm | 1 | IT Equipment near door |
| 00000.P100 | Staff - Printer (Network/Local) | 1 | |
| 00000.SC110 | Surveillance Camera | 2 | in Admin and Reception |
| 00000.TEL | Telephone | * | |
| 00000.WC | Wall Clock | 1 | Required in Reception Room |
| Remarks: | * Quantity varies based on number of staff. | | |

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | | |

Remarks:

## Room 695 Testing Service

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR111 | Door – Double Glass | | | |

Remarks:

### Special Requirements

Remarks: Requires place for taking digital image of the test candidates.

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.D120 | Standard Desk & Chair | 1 | FF&E | Option for casework desk. |
| FURN.D171 | Guest Seating | * | FF&E | 3 chairs per 3 test stations |
| FURN.F101 | Filing Cabinets - Letter | 1 | FF&E | |

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10505.ML120 | Metal Box Lockers | | CFCI | |

Note Ref #:
Remarks

## Room 695 Testing Service

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | |
| **Floor** | | | |
| Finish | 09681.CPT | Carpet Tile | |
| **Casework** | | | |
| | PL | Plastic Laminate or solid surface, optional countertop | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 710 Central Computer or Telecommunications

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Central technology rooms are utilized for the primary and secondary distribution of structured cabling systems for a building. These rooms are to be designed and used exclusively for technology purposes. Storage, electrical, and custodial functions should not be provided in these rooms. The Technology Systems Standards define further the use, size, and requirements for technology spaces and should be referenced in addition to this space standard.

ASF PER USER

-Equipment Room Minimum Size: 12' X 12'
-Technology Room Minimum Size: 8' X 10'

SPECIAL ROOM REQUIREMENTS

No requirements.

LOCATION/ADJACENCIES

Technology Rooms should be centrally located on floors and distributed throughout the building for appropriate cabling run lengths.

Technology Rooms & ER should have 3/4" fire retardant plywood around the perimeter of the room for attachment of equipment racks and other devices. The room requires separate cooling, power, and backup power. The room door should swing out and it is recommended to have Electronic Door Access for security.

## Room 710 Central Computer or Telecommunications

**Support Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Reference Mechanical Standard for Cooling Requirements

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.5 | Devices on Emergency Circuit: RED | * | |
| 16143.61-1 | 20amp Duplex Receptacle, General Use | * | |

Remarks: Multiple interruptible backup generator hierarchy

#### Technology

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L09 | Pendant-mounted, fluorescent industrial type lighting with 10% up-light | * | |

Remarks:

#### Doors and Windows

| Item | | Qty | Hardware | | Remarks |
|---|---|---|---|---|---|
| **Door** | | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | 08710.DH05 | Electronic Security Access | |

Remarks:

## Room 710 Central Computer or Telecommunications

**Support Facilities**

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | EX | Exposed Structure - Painted | |
| **Walls** | | | |
| Substrate | 06105.PWD | Fire-Retardant Treated Plywood | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room 720 Shop

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Shop space is used for facility maintenance and repair. Shops may be a separate building located on the campus used for storage of materials, equipment and parts.

As required by campus needs.

Office: 120 SF (Refer to 310 - Standard for Office Requirements)
Break Room: Approximately 300 SF
Rest Room: 120 SF
Secure Key Cutting: 120 SF
Workstation: Approximately 75 SF (Refer to Standard for Workstations)

SPECIAL ROOM REQUIREMENTS

Shop space should have access for vehicles and equipment with an overhead door sized as required for the largest piece of equipment. Interior should have a higher volume with storage area for materials and equipment. Facilities and maintenance personnel should be involved to determine the needs for the space.

LOCATION/ADJACENCIES

Shop space should be detached from the building or located in a remote portion of the building. Close or adjacent to a loading dock / receiving area.

## Room 720 Shop

**Support Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Heating /Cooling.

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.FD101 | Floor Drain | 1 | | |
| 15440.S160 | Utility Sink | 1 | | |

Remarks:

#### Power & Electrical

Remarks: As required for equipment design.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L09 | Pendant-mounted, fluorescent industrial type lighting with 10% up-light | 1 | |

Remarks:

## Room 720 Shop

**Support Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | | |
| 08000.DR116 | Door - Type AA (Double) | 1 | | 3' X 7' each door (consideration should be given to a larger door) |
| 08000.OD100 | Overhead Door | 1 | | |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks Verify required equipment with college.

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.S25 | Shelving | 1 | FF&E | Industrial shelving / |

Note Ref #:
Remarks * Secured storage for high pressure gas / flammables.

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10505.ML130 | Metal Locker, Full Height | 1 | CFCI | 1 per staff |

Note Ref #:
Remarks

## Room 720 Shop

**Support Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | Painted CMU |
| Base | N/A | No finish | |
| **Ceiling** | | | |
| Type 1 | N/A | No finish | Exposed, option to paint |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | |
| **Floor** | | | |
| Finish | 09960.SC-1 | Sealed Concrete | |

Note Ref #:
Remarks

# Room 725 Shop Service

**Support Facilities**

## Executive Summary

SPACE DESCRIPTION & OVERVIEW

Shop space is used for facility maintenance and repair. Shops may be a separate building located on the campus used for storage of materials, equipment and parts.

ASF

As required by user needs.

SPECIAL ROOM REQUIREMENTS

Shop space should have access for vehicles and equipment with an overhead door as required for the largest piece of equipment. Interior should have a higher volume with storage area for materials and equipment. Facilities and maintenance personnel should be involved to determine the needs for the spaces.

LOCATION/ADJACENCIES

Shop space should be detached from the building or located in a remote portion of the building.

## Room 725 Shop Service

**Support Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Heating /Cooling.

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.FD101 | Floor Drain | 1 | | |
| 15440.S160 | Utility Sink | 1 | | |

Remarks:

#### Power & Electrical

Remarks: As required for equipment design.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L09 | Pendant-mounted, fluorescent industrial type lighting with 10% up-light | 1 | |

Remarks:

## Room 725 Shop Service

**Support Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | | |
| 08000.DR116 | Door - Type AA (Double) | 1 | | 3' X 7' each door (consideration should be given to a larger door) |
| 08000.OD100 | Overhead Door | 1 | | |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks Verify required equipment with college.

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.S25 | Shelving | 1 | FF&E | Industrial shelving / |

Note Ref #:
Remarks * Secured storage for high pressure gas / flammables.

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10505.ML130 | Metal Locker, Full Height | 1 | CFCI | 1 per staff |

Note Ref #:
Remarks

## Room 725 Shop Service

**Support Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | Painted CMU |
| Base | N/A | No finish | |
| **Ceiling** | | | |
| Type 1 | N/A | No finish | Exposed, option to paint |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | |
| **Floor** | | | |
| Finish | 09960.SC-1 | Sealed Concrete | |

Note Ref #:
Remarks

## Room 730 Central Storage

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION & USE

Central Storage Facilities are utilized for general building storage of the following items, including but not limited to: furniture, cleaning and maintenance, computers, light fixtures, etc.

SQUARE FOOTAGE

Determined by user needs, 1000 SF min.

SPECIAL ROOM REQUIREMENTS

No requirements.

LOCATION/ADJACENCIES

Inventory storage needs and provide storage areas where needed around the building. Locate near other service areas and utilize for acoustical separation between mechanical rooms and academic spaces. Close or adjacent to a loading dock / receiving area.

## Room 730 Central Storage

**Support Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

Remarks:

#### Technology

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L08 | 2x4 T8 lamp with prismatic lens | 3 | |

Remarks:

#### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR116 | Door - Type AA (Double) | 1 | | 3' X 7' each door |
| 08000.OD100 | Overhead Door | 1 | | |

Remarks:

#### Special Requirements

Remarks:

## Room 730 Central Storage

**Support Facilities**

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.S25 | Shelving | * | FF&E | Pallet sized heavy duty. Enough room for loaders to pass. No central structure. |

Note Ref #:
Remarks *As required per college.

### Accessories

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | N/A | No finish | |
| Base | N/A | No finish | |
| **Ceiling** | | | |
| Type 1 | N/A | No finish | |
| **Floor** | | | |
| Finish | 09960.SC-1 | Sealed Concrete | |

Note Ref #:
Remarks

## Room 735 Central Storage Service

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION & USE

Central Storage Facilities are utilized for general building storage of the following items, including but not limited to: furniture, cleaning and maintenance, computers, light fixtures, etc.

SQUARE FOOTAGE

Determined by user needs, 1000 SF min.

SPECIAL ROOM REQUIREMENTS

No requirements.

LOCATION/ADJACENCIES

Inventory storage needs and provide storage areas where needed around the building. Locate near other service areas and utilize for acoustical separation between mechanical rooms and academic spaces.

## Room 735 Central Storage Service

**Support Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | N/A | No finish | |
| Base | N/A | No finish | |
| **Ceiling** | | | |
| Type 1 | N/A | No finish | |
| **Floor** | | | |
| Finish | 09960.SC-1 | Sealed Concrete | |

Note Ref #:
Remarks

## Room 740 Vehicle Storage

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION & USE

Space designed for the storage of vehicles for transportation and campus maintenance.

Building does not require heating /cooling.

SPECIAL ROOM REQUIREMENTS

No requirements

LOCATION/ADJACENCIES

Vehicle storage should be a separate building from the main campus.

## Room 740 Vehicle Storage

**Support Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Special exhaust

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.FD101 | Floor Drain | 1 | | |
| 15440.OI16 | Oil interceptor | 1 | | |
| 15440.S160 | Utility Sink | 1 | | |

Remarks:

#### Power & Electrical

Remarks: * Convenience outlets

#### Technology

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L09 | Pendant-mounted, fluorescent industrial type lighting with 10% up-light | 1 | |

Remarks:

#### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR116 | Door - Type AA (Double) | 1 | | 3' X 7' |

Remarks:

## Room 740 Vehicle Storage

**Support Facilities**

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | N/A | No finish | |
| **Ceiling** | | | |
| Type 1 | EX | Exposed Structure - Painted | |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | |
| **Floor** | | | |
| Finish | 09960.SC-1 | Sealed Concrete | |

Note Ref #:
Remarks

## Room 745 Vehicle Storage Service

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION & USE

Space designed for the storage of vehicles for transportation and campus maintenance.

SQUARE FOOTAGE

SPECIAL ROOM REQUIREMENTS

LOCATION/ADJACENCIES

Vehicle storage should be a separate building from the main campus.

## Room 745 Vehicle Storage Service

**Support Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Special exhaust

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.FD101 | Floor Drain | 1 | | |
| 15440.OI16 | Oil interceptor | 1 | | |
| 15440.S160 | Utility Sink | 1 | | |

Remarks:

#### Power & Electrical

Remarks: * Convenience outlets

#### Technology

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L09 | Pendant-mounted, fluorescent industrial type lighting with 10% up-light | 1 | |

Remarks:

#### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR116 | Door - Type AA (Double) | 1 | | 3' X 7' |

Remarks:

## Room 745 Vehicle Storage Service

**Support Facilities**

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | N/A | No finish | |
| **Ceiling** | | | |
| Type 1 | EX | Exposed Structure - Painted | |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | |
| **Floor** | | | |
| Finish | 09960.SC-1 | Sealed Concrete | |

Note Ref #:
Remarks

## Room 750 Central Service

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Central Service spaces include centralized printing services, mail facilities and central shipping and receiving and other rooms serving occupants in more than one building for processing, testing and delivery. Mail sorting space must be provided.

SQUARE FOOTAGE REQUIREMENTS

Specifically designed for the size of the equipment and required clearances.

SPECIAL ROOM REQUIREMENTS

Doors to these areas should swing out wherever possible.

LOCATION/ADJACENCIES

Central service spaces should be located to provide easy access for maintenance and service for main floor levels. Should be located on an exterior wall with easy access for deliveries. Noise producing rooms should be grouped together, away from offices or academic spaces; or special provisions should be made to acoustically separate these functions.

## Room 750 Central Service

**Support Facilities**

# UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

Remarks: *Verify power requirements with equipment.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks: *Verify requirements with equipment.

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L08 | 2x4 T8 lamp with prismatic lens | 3 | |
| 16515.L160 | Task Lighting | 1 | |

Remarks:

#### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DD100 | Delivery Door | * | | 10' X 10' |
| 08000.OSD100 | Oversized door | * | | 48" X 7'-0" |

Remarks:

## Room 750 Central Service

**Support Facilities**

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| FURN.D120 | Standard Desk & Chair | * | FF&E | |
| FURN.F105 | Filing Cabinets | * | FF&E | |

Note Ref #:
Remarks

### Accessories

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | |
| **Floor** | | | |
| Finish | 09000.001 | Hard Surface/No-wax Flooring | |

Note Ref #:
Remarks

## Room 755 Central Service Support

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION AND OVERVIEW

Central Support Service includes staff space, lockers and restrooms and storage that serve the Central Service Facility.

SQUARE FOOTAGE REQUIREMENTS

Room Size:
Break Room: 120 SF
Restroom: (2) at 60 SF each
Bulk Paper Storage: 500 SF minimum

LOCATION/ADJACENCIES
Near loading dock or "Back of House" / Service Space and near custodial entry.

## Room 755 Central Service Support

**Support Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Conditioned - humidity control required at storage for all paper products.

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.S120 | Sink w/ Garbage Disposal | 1 | | |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.62-1 | 20amp Receptacle, Equipment Use | 2 | 1 each wall and 2 at cabinetry |

Remarks:

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.TEL | Telephone | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L08 | 2x4 T8 lamp with prismatic lens | 3 | |

Remarks:

## Room 755 Central Service Support

**Support Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | | |

Remarks:

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.MW | Microwave | 1 | FF&E | |
| 12000.REF | Refrigerator | 1 | FF&E | |

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12310.B110 | Lineal Feet of Base Cabinets - Door & Drawer | 6 | CFCI | |
| 12310.W110 | Lineal Feet of Wall Cabinets - Closed | 6 | CFCI | |
| FURN.C20 | Chair | 6 | FF&E | |
| FURN.T23 | Table | 1 | FF&E | for 4 - 6 |

Note Ref #:
Remarks

## Room 755 Central Service Support

**Support Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10505.ML130 | Metal Locker, Full Height | * | CFCI | 1 per staff |
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | |

Note Ref #:
Remarks

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09960.EP | Epoxy Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Walls** | | | |
| Base 2 | 09671.RS | Resinous | Optional finish for restrooms and locker rooms |
| **Floor** | | | |
| Finish | 09960.SC-1 | Sealed Concrete | |
| Finish 2 | 09671.RS | Resinous | Optional finish for restrooms and locker rooms |

Note Ref #:
Remarks

## Room 760 Hazardous Materials

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION & USE

Space Designed for the storage of materials planned for future use or distribution that are considered hazardous.

SQUARE FOOTAGE

Room Size: 90 SF

SPECIAL ROOM REQUIREMENTS

Special requirements for acid neutralizaton locations or spill protection should be reviewed.

LOCATION/ADJACENCIES

Accessible in the Service Area of the building.

## Room 760 Hazardous Materials

**Support Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Provide negative pressure supply with no return linked to system. General room exhaust required.

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.EW110 | Emergency Eye Wash Station | 1 | | with wand. |
| 15440.FD101 | Floor Drain | 1 | | |
| 15440.S110 | Sinks | 1 | | |
| 15440.S160 | Utility Sink | 1 | | |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.62-1 | 20amp Receptacle, Equipment Use | 1 | For weigh scale |

Remarks:

#### Technology

Remarks: N/A

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L08 | 2x4 T8 lamp with prismatic lens | 1 | |

Remarks:

## Room 760 Hazardous Materials

**Support Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | | |

Remarks:

### Special Requirements

Remarks:

### Equipment

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 12000.WS20 | Weigh Scale | 1 | FF&E | |

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 10671.MS101 | Metal Shelving | * | CFCI | |

Note Ref #:
Remarks * Amount varies per campus

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | |

Note Ref #:
Remarks

## Room 760 Hazardous Materials

**Support Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | N/A | No finish | |
| **Ceiling** | | | |
| Type 1 | EX | Exposed Structure - Painted | |
| **Walls** | | | |
| Substrate | 04810.CMU | Concrete Masonry Unit | All walls go to deck. |
| **Floor** | | | |
| Finish | 09960.SC-1 | Sealed Concrete | |
| **Doors** | | | |
| Face | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room W05 Main Lobby

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION AND OVERVIEW

The intent of the Main Lobby is to provide access to the College Building for all and to orient the user to the building.

Consideration should be given to ease of wayfinding as well as opportunities for student and staff interaction and creating a campus community.

The intent of the Main Lobby is to provide a "wow" factor, enhancing the mission and image of Ivy Tech Community College.

Provide vestibule with Walk Off carpet – minimum of 7' as required by code. Consider larger vestibules at main entrances and commonly used entrances. .

SPECIAL ROOM REQUIREMENTS

Lobbies should be designed for ease of maintenance. Opportunities for campus communication should be explored, including televisions, tackboards, etc.

Minimum Ceiling Height: 10'-0". Consideration should be given to a higher ceiling.

ADJACENCIES

Main Lobby is located immediately adjacent to the main access doors of the College Building. Natural light should be provided.

## Room W05 Main Lobby

**Support Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks: Reference Mechanical Systems Standards

#### Plumbing/Gases/Utilities

Remarks: Coordinate with building requirements

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.62-1 | 20amp Receptacle, Equipment Use | 1 | |

Remarks: Provide receptacles in corridors to support recharge of student laptops. Group near seating areas.

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.C110 | Staff Computers - Desktop, Hardwired | 1 | |
| 00000.DISPL | Display (Wall-mounted) | 1 | |
| 00000.PA | Public Address System | 1 | |
| 00000.SC110 | Surveillance Camera | 1 | |
| 00000.TEL | Telephone | 1 | |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | | |
| 16515.L10 | LED Can Lights | | |

Remarks: * Reference electrical system standards. Specialty decorative lighting may be provided as desired.

## Room W05 Main Lobby

**Support Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **System** | | | | |
| 08410.SF | Storefront | 1 | | Storefront Windows, Full Lite Storefront Doors |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| 06402.RD110 | Reception Desk | 1 | CFCI | May double as a security desk. Confirm technology needs. |

Note Ref #:
Remarks: Provide seating in public areas for small group gatherings. A variety, including conference table and chairs or soft furnishings should be explored.

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | * | CFCI | Glass front with lockable function |

Note Ref #:
Remarks: * Provide a marquee for a building directory and directional signage

## Room W05 Main Lobby

**Support Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | Scubbable |
| Base | 09653.VWB | Vinyl Wall Base | 6" H, color-black |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | Suspended |
| **Floor** | | | |
| Finish | 09401.CTZ | Cement Terrazzo | / Epoxy Terrazzo |
| Finish 2 | 09310.CT | Ceramic Tile | |
| **Doors** | | | |
| Face | WD | Wood | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:

Remarks: Floor material should be hard surface with high quality finish. If special floor patterns or a logo are utilized, due consideration must be given to the possibility of a logo or name change in the future.

## Room W06 Public Corridor

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION AND OVERVIEW

Corridors are intended to provide easy access to all college spaces with accessibility for all.

Consideration should be given to ease of wayfinding as well as opportunities for occasional interaction and creating a campus community.

Minimum Ceiling Height: 9'-0" Ceiling height may be higher in the Main floor corridors and lobby or entry areas.

Provide vestibule with Walk Off carpet at main and commonly used entrances – minimum of 7' as required by code. Consider larger vestibules based on use and projected activity. .

To improve efficiency, avoid single loaded corridors.

All corridors should be designed for ease of maintenance. Opportunities for campus communication should be explored, including televisions, tackboards, etc.

## Room W06 Public Corridor

**Support Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.61-2 | Duplex Receptacle, General Use | 1 | Additional electrical in seating areas |

Remarks: Provide receptacles for maintenance and general purpose

#### Technology

| Item | | Qty | Remarks |
|---|---|---|---|
| 00000.DISPL | Display (Wall-mounted) | * | |
| 00000.PA | Public Address System | 1 | |
| 00000.SC110 | Surveillance Camera | 1 | May be infrastructure only; verify with campus. |
| 00000.WRLSAD | Wireless Access Device | 1 | |

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | * | |
| 16515.L10 | LED Can Lights | | |

Remarks: *Reference Electrical System Standards

## Room W06 Public Corridor

**Support Facilities**

### Doors and Windows

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks Furnishings should be provided throughout corridors. Provide electrical near furnishings.

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Visual Display** | | | | |
| 10101.TB101 | Framed Tack Boards - 4’ W x 4’ H | * | CFCI | Glass enclosed |

Note Ref #:
Remarks

## Room W06 Public Corridor

**Support Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09912.P | Acrylic Paint System | |
| Base | 09653.VWB | Vinyl Wall Base | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | 2 X 2 ceiling tile |
| **Walls** | | | |
| Substrate | 09250.GWB | Gypsum Wall Board | Insulated to deck with corner guards. |
| **Floor** | | | |
| Finish | 09680.CP | Carpet | |

Note Ref #:

Remarks 1st floor: Hard surface, main lobby. Carpet in main areas. Walk-off mat (refer to Systems

## Room X03 Public Restroom

**Support Facilities**

### Executive Summary

SPACE DESCRIPTION & USE

Space used as public restroom facilities for building occupants. Restrooms should be designed with regard for a hands-free design. Special consideration should be given for acoustics.

Meet the requirements of the Americans with Disabilities Act; low maintenance and abuse resistant.

Provide a quantity per the applicable code and possibly an amount that exceeds it.

Designed per applicable code.

LOCATION/ADJACENCIES

Restrooms should be equally distributed throughout the building on all floors. Distance from any part of the building to a restroom shall meet all applicable codes.

## Room X03 Public Restroom

**Support Facilities**

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.FD101 | Floor Drain | * | | |
| 15440.L111 | Lavatory - Group, Solid Surface | * | | Automatic faucet |
| 15440.T110 | Toilets - Wall - Automatic | * | | |
| 15440.U111 | Urinal - Automatic | * | | No urinal screens, just nets |

Remarks: Reference Plumbing System Standards

#### Power & Electrical

Remarks: Reference Electrical System Standards

#### Technology

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L06 | 2x4 recessed troffer | * | |

Remarks: Reference Electrical System Standards

## Room X03 Public Restroom

**Support Facilities**

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| 08000.OPG100 | 4' W x 7'H opening | 1 | | |

Remarks: Entry should be designed without doors unless approved by Owner in writing. In renovation projects, where space will not allow for doorless design, the door should be outswinging

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks

## Room X03 Public Restroom

**Support Facilities**

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Bathroom Accessories** | | | | |
| 10155.ADA | ADA Toilet Compartment | * | CFCI | |
| 10155.STND | Standard Toilet Compartment | * | CFCI | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | * | OFOI | |
| 10801.C1 | Grab Bars | * | CFCI | |
| 10801.D1 | Mirrors | * | CFCI | |
| 10801.E1 | Automatic Paper Towel Dispenser | * | OFOI | |
| 10801.E3 | Sanitary Disposer | * | OFOI | Women's Restroom |
| 10801.E4 | Sanitary Dispenser | * | OFOI | Women's Restroom |
| 10801.G1 | Automatic Soap Dispenser | * | OFOI | |
| 10801.G2 | Toilet Paper Dispenser | * | OFOI | |
| 10801.H1 | Electric hand-air dryer | * | CFCI | |
| 10801.R1 | Diaper Changing | * | CFCI | Men's and Women's Restrooms |

Note Ref #:

Remarks * Accessory quantities should be coordinated with plumbing fixtures required.

## Room X03 Public Restroom

**Support Facilities**

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09310.CT | Ceramic Tile | Epoxy painted CMU option |
| Base | 09310.CMT | Ceramic Mosaic Tile | |
| **Countertops** | | | |
| Finish | SS | Solid Surface/Corian | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-2 | Acoustical Panel Ceiling-Washable | |
| **Floor** | | | |
| Finish | 09310.CT | Ceramic Tile | |

Note Ref #:
Remarks

## Room X04 Family Restroom

### Executive Summary

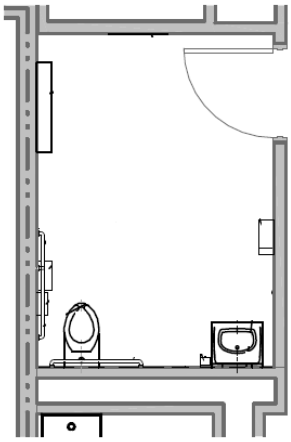
SPACE DESCRIPTION & OVERVIEW

Meet the requirements of the Americans with Disabilities Act and ANSI Standards
Restrooms should be designed with regard for a hands-free design.
Low Maintenance and abuse resistant.
Provide a quantity per applicable codes.
Design per all applicable codes.

LOCATIONS/ADJACENCIES

Restrooms should be located close to public areas, commons, and/or main entry. Distance from any part of the building to a restroom shall meet all applicable codes.

SAMPLE FLOOR PLAN



## Room X04 Family Restroom

## UNIQUE ROOM REQUIREMENTS

### Mech/Electrical/Plumbing Requirements

#### Mechanical

Remarks:

#### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.FD101 | Floor Drain | 1 | | |
| 15440.L110 | Lavatory - Wall | 1 | | |
| 15440.T110 | Toilets - Wall - Automatic | 1 | | |

Remarks:

#### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.R120 | GFCI (Ground Fault Circuit Interrupter) Receptacle | 1 | |

Remarks:

#### Technology

Remarks:

#### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L02 | 2x4, fluorescent | 1 | |

Remarks:

## Room X04 Family Restroom

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | | |

Remarks:

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | |
| 10801.C1 | Grab Bars | 1 | CFCI | Meet ADA Requirements |
| 10801.D1 | Mirrors | 1 | CFCI | |
| 10801.E3 | Sanitary Disposer | 1 | OFOI | |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | |
| 10801.G2 | Toilet Paper Dispenser | 1 | OFOI | |
| 10801.R1 | Diaper Changing | 1 | CFCI | |

Note Ref #:
Remarks

## Room X04 Family Restroom

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09310.CT | Ceramic Tile | Epoxy painted CMU option |
| Base | 09310.CMT | Ceramic Mosaic Tile | |
| **Countertops** | | | |
| Finish | SS | Solid Surface/Corian | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-2 | Acoustical Panel Ceiling-Washable | |
| **Floor** | | | |
| Finish | 09310.CT | Ceramic Tile | |

Note Ref #:
Remarks

## Room X05 Lactation Room

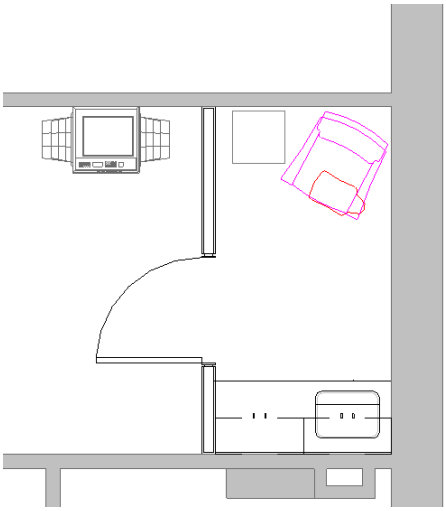
### Executive Summary

SPACE DESCRIPTION & OVERVIEW

The nursing room should be a private location, other than a toilet stall, where an employee can express the employee's breast milk in private and provide refrigerated storage. Meet requirements of 2008 Senate enrolled Act no. SB 219 and IC 22-2-14. Room should be private and lockable.

LOCATIONS/ADJACENCIES

Locate in close proximity to the work area.



## Room X05 Lactation Room

# UNIQUE ROOM REQUIREMENTS

## Mech/Electrical/Plumbing Requirements

### Mechanical

Remarks:

### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.L110 | Lavatory sink | 1 | | |

Remarks:

### Power & Electrical

| Item | | Qty | Remarks |
|---|---|---|---|
| 16143.R120 | Receptacle for refrigerator. | 1 | |
| 16143.R120 | Receptacle for refrigerator. | 1 | outlet for breast pump |
| 16143.R120 | Convenience outlets | * | |

Remarks: Receptacles based on room layout.

### Technology

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L02 | 2x4, fluorescent | * | |

Remarks: As required for proper room lighting.

## Room X05 Lactation Room

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.DR111 | Door - Type A (Solid) | 1 | Lockable | |

Remarks:

### Special Requirements

Work counter

Remarks:

### Equipment

| | | |
|---|---|---|
| | Refrigerator | 1 |

Note Ref #:
Remarks

### Furnishings

Note Ref #:

Comfortable seating

Remarks

### Accessories

| Item | Qty | Responsibility | Remarks |
|---|---|---|---|

## Room X05 Lactation Room

### Finishes

| Location | Item | | Remarks |
|---|---|---|---|
| **Wall** | | | |
| Finish | 09310.P | Paint System | |
| Base | 09310.VWB | Vinyl Wall Base | |
| **Countertops** | | | |
| Finish | SS | Solid Surface/Corian | |
| **Ceiling** | | | |
| Type 1 | 09511.APC-1 | Acoustical Panel Ceiling | |
| **Floor** | | | |
| Finish | 09651.VCT | Vinyl Composition Tile | |
| **Doors** | | | |
| Face | 08210.WD | Solid Core Wood Door | |
| Frame | 08110.HM | Hollow Metal | |

Note Ref #:
Remarks

## Room YYY Mechanical Areas

### Executive Summary

SPACE DESCRIPTION & OVERVIEW

Mechanical Area spaces are non-assignable spaces of a building designed to house MEP and utility services, excluding shaft areas, but including actual Utility Plants, Fuel Rooms, Utility Rooms, Telecommunications Rooms, Boiler Rooms, etc.

SQUARE FOOTAGE REQUIREMENTS

Boiler, Mechanical, Electrical, and Elevator Machine Rooms should be designed specifically for the size of the equipment, required clearances and access to all parts of the equipment. Reference Building Systems Standards for additional equipment.

SPECIAL ROOM REQUIREMENTS

Mechanical, electrical and elevator machine rooms should be acoustically separated by walls with a minimum STC of 60. Provide exit devices, fire ratings and sound control as required by the governing Codes or requirements of this space standard. Doors to these spaces should swing out where possible to prevent door swing interference with equipment. Mechanical rooms located in a penthouse should be accessed with a 48" wide stair.

LOCATION/ADJACENCIES

Mechanical Areas should be located in the building to provide easy access for maintenance and service from main floor levels. Additional service spaces should be located throughout the facilities as required. Noise-producing rooms should be grouped away from offices and academic spaces or special provisions be made to acoustically separate these functions.

## Room YYY Mechanical Areas

# UNIQUE ROOM REQUIREMENTS

## Mech/Electrical/Plumbing Requirements

### Mechanical

Remarks: Conditioned space required for all MEPT spaces. Technology Rooms require special consideration; reference to Standards.

### Plumbing/Gases/Utilities

| Item | | Qty | Fitting | Remarks |
|---|---|---|---|---|
| 15440.S150 | Mop Sink | 1 | | Located throughout the building as convenience dictates |

Remarks:

### Power & Electrical

Remarks:

### Technology

Remarks:

### Lighting

| Item | | Qty | Remarks |
|---|---|---|---|
| 16515.L09 | Pendant-mounted, fluorescent industrial type lighting with 10% up-light | 1 | |

Remarks:

### Doors and Windows

| Item | | Qty | Hardware | Remarks |
|---|---|---|---|---|
| **Door** | | | | |
| 08000.OD100 | Overhead Door | 1 | | |
| 08000.OSD100 | Oversized door | * | | 48" x 7'-0" |

Remarks: Swing out whenever possible. Verify all equipment in room. Doors should be planned for equipment installation and replacement.

## Room YYY Mechanical Areas

### Special Requirements

Remarks:

### Equipment

Note Ref #:
Remarks

### Furnishings

Note Ref #:
Remarks

### Accessories

| Item | | Qty | Responsibility | Remarks |
|---|---|---|---|---|
| **Bathroom Accessories** | | | | |
| 10801.B1 | Combination Towel Dispenser/Waste Receptacle | 1 | OFOI | |
| 10801.G1 | Automatic Soap Dispenser | 1 | OFOI | |

Note Ref #:
Remarks

### Finishes

Note Ref #:
Remarks