

APPENDIX 5 | CLASSROOM AND CLASS LAB CONDITION EVALUATION



Classroom and Class Lab Condition Evaluation

February 27, 2008

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Overview

Existing classrooms, lecture halls and class laboratories may fall short of meeting the requirements of well designed learning environments. The Classroom and Class Lab Condition Evaluation System identifies deficiencies in existing rooms and determines corrective measures that may be implemented to achieve the desired design requirements known as the Model Teaching Environments. Descriptions of the attributes recorded and the physical quality characteristics measured are found in the description of the Model Teaching Environments presented in the Appendix.

Each classroom and class laboratory on campus was evaluated based on whether it met these generally accepted classroom and class lab design criteria. For each criterion not met, deficiency points were weighted and assigned. All deficiencies for the room are then totaled and compared to the maximum deficiency points possible for that type of room. A report is generated for each room that lists each deficiency, the deficiency points, and the percent of deficiencies.

Many deficiencies can be corrected. Improvements such as adding ADA hardware to a door, installing electrical outlets and switches, and general room condition enhancements such as painting are examples. Estimated costs were calculated for the recommended work and a report specifying the corrective actions was generated for each room. The recommended corrective work and estimated costs are not intended to provide a detailed listing, but presents an overview of work required and a budgetary level of expenditures to improve the room to an acceptable level of quality.

The analysis process permits the user to select which deficiencies to evaluate, adjust the assignment and weighting of deficiency points, and modify unit costs for deficiencies that can be corrected. The resulting database can then be used to track the institution's progress towards correcting the identified deficiencies.

Deficiencies and corrective actions are grouped into five categories for reporting:

ADA Requirements: These deficiencies are identified using criteria specified in the current regulations governing handicapped accessibility under the Americans with Disabilities Act.

Building and Structural: These deficiencies identify physical elements related to the facility that to correct will require a substantial investment usually greater than expended in a typical room improvement project. If considered for correction by the institution, these items would be implemented under a larger building renovation project and are identified as major capital expenditures for future renovations.

Maintenance: These deficiencies identify improvements to aesthetic elements of a room that typically are implemented through an institution's maintenance function, including such items as wall surfaces, flooring and ceilings.

Room Issues: These deficiencies identify physical elements within a room that by corrective action will improve the learning environment for students and the presentation of materials by instructors to expected levels of quality.

Technology: These deficiencies identify current technology enhancements (i.e., equipment) that will improve the transfer of instructional materials and information to students.

Classrooms Evaluated

The current space inventory indicates the Shippensburg main campus has 107 rooms classified as classrooms. An evaluation team from Comprehensive Facilities Planning walked through and evaluated 80 of these rooms. Note: rooms located in Dauphin Humanities Center (24 rooms) and Henderson Gymnasium (2 rooms) were not included in this assessment, as they are currently under renovation. It is assumed the classrooms in these buildings are being updated to a minimal acceptable level of quality. Of the rooms assessed 78 were surveyed as general-purpose classrooms, while two rooms were determined not

to be classrooms. Shearer Hall 202 is a lab and Shippen Hall 110G is a distance learning room. Data collected for each room is displayed on the sample Survey Form in the Appendix. These data have been entered into a relational database and are manipulated by the SIMS 2000® software applying the Model Classroom criteria to develop the deficiencies for each room.

Class Labs Evaluated

The current space inventory indicates the Shippensburg main campus has 45 rooms classified as class labs, 24 rooms classified as class labs with computers, 4 rooms classified as teleconference labs, 10 rooms classified as open labs, and 7 rooms classified as open labs with computers. An evaluation team from Comprehensive Facilities Planning walked through and evaluated 36 of these rooms. Note: rooms located in Henderson Gymnasium (1 room) and Performing Arts Center (4 practice rooms) and Wright Hall (2 rooms) were not included in the assessment as they were either under renovation, did not meet the survey criteria, or listed as swing space.

Data collected for each room is displayed on the sample Class Lab Survey Form in the Appendix. The data was entered into a relational database and are manipulated by the SIMS 2000® software applying the Model Lab criteria to develop the deficiencies for each room.

Summary of Results

Overall the Shippensburg classrooms compared reasonably well to the criteria for the “Model Classroom” as outlined in the Appendix. Keep in mind however, that building electrical and mechanical system evaluation is not part of this analysis, hence issues related to temperature control and other HVAC issues may make a room that has the characteristics and equipment to meet the criteria of the Model Classrooms a poor teaching environment many times during the year.

Conditions issues that impact the function of the class labs include poor lighting controls and placement in the room. Specific issues include the inability to fully darken the rooms for projecting images on

the screen. Many labs are poorly configured for lecture purposes as students have limited visibility to the projection screen. Storage space is lacking and bench/table space is inadequate to accommodate the use of computers while providing space for hands on activities. Wire management is an additional issue, as the design of the room did not anticipate the increasing use of computers in the class labs.

Several classrooms had excess clutter due to duplicate or old furniture and/or equipment in the room that should be removed.

As outlined above, the classrooms and labs were evaluated in five major categories: ADA Requirements; Building or Structure Issues; General and Maintenance; Room Improvements; Technology Improvements.

The report “Summary of Room Deficiencies by Category” lists all deficiencies by category. A summary of some principal deficiencies by category are:

ADA Requirements

These deficiencies are identified using criteria specified in the current regulations governing handicapped accessibility under the Americans with Disabilities Act.

51% (40 classrooms) and 86% (31 class labs) do not have ADA hardware

47% (37 classrooms) and 100% (35 class labs) do not have manual interior locking hardware

Building or Structure Issues

These deficiencies identify physical elements related to the facility that to correct will require a substantial investment usually greater than expended in a typical room improvement project. If considered for correction by the institution, these items may be implemented as part of a larger building renovation project. These items are listed for information purposes to be incorporated into future capital projects.

Therefore, in most cases, there are no corrective costs are assigned as part of the room condition analysis.

67% (52 classrooms) and 38% (14 class labs) had significant levels of ambient noise. In most cases the ambient noise emanates from the HVAC systems and can create a distraction for students from being able to hear the lecture or discussion. A sound meter reading of 45 db or greater was considered to be the threshold level. This condition is likely to be addressed only when a major upgrading or replacement of these systems is implemented.

60% (47 classrooms) and 86% (31 class labs) do not have proper window security egress locks. These devices are a security measure that provides occupants of the room a secondary means of egress or escape in case of an emergency

56% (44 rooms) and 27% (10 class labs) are not accessible from the side or rear. Late arriving students can be disruptive to the class. Some times this deficiency can be fixed by a reorientation of room. However, the best time to “fix” the problem is during initial planning and design of the facility.

33% (26 classrooms) have ceilings that are too low for the proper screen height. This is not a deficiency that can be correct after the building is constructed so it should be viewed more as design criteria for new structures. However, in extreme cases it may be cause to convert classroom space to some other function. In most cases at IUP it is not of major concern since the calculated difference and actual difference in height is small.

24% (19 classrooms) have an aspect ratio outside of the ideal. This impacts sight lines for some students when the room is filled to near capacity. Again this is more of a design issue rather something that is easily corrected once the room is constructed. In extreme cases it may be possible to convert the room into two rooms with better sight lines or to consider removing these rooms from service or converting to other uses. The aspect ratio was not measured in the class labs

since the majority of the rooms are used for hands on experimentation rather than lecture.

Maintenance Improvements

These deficiencies reflect a subjective evaluation of the visual quality of the floor, ceiling and walls of the room that may be addressed through normal maintenance operations.

In general, the maintenance of the classrooms was found to be very good even in older spaces. The survey found that only 12% (9 rooms) had floor surfaces in poor condition, and 12% had wall surfaces in fair condition.

Room Improvements

These deficiencies identify physical elements within a room that by corrective action will improve the learning environment for students and the presentation of materials by instructors to expected levels of quality.

59% (46 classrooms) and 72% (26 class labs) do not have a tack board for display of materials. Although not a critical feature, it is an attribute that provides greater flexibility of use of the room for instructors who may prefer to be able to display instructional aides.

56% (44 classrooms) and 94% (34 class labs) do not have a podium available in the room as part of the instructor’s station. Although not a critical feature, it is an attribute that provides greater flexibility of use of the room for instructors who may prefer to use a podium when conducting a class.

55% (43 classrooms) have insufficient length of chalk board across the teaching wall. Guidelines call for 16 feet of chalkboard in rooms of less than 800 square feet and 20 feet for rooms 800 square feet or larger.

45% (35 classrooms) and 69% (25 class labs) have chalkboards or whiteboards that are mounted either below 36 inches off the floor or

higher than 42 inches. Boards mounted outside of this height range may limit an instructor's use of most of the teaching surface.

38% (30 classrooms) and 44% (16 class labs) have lights that can not dimmed, banked, or split by the instructor, which may make projected presentations more difficult to see.

52% (19 class labs) have no projection screens that can be used for lecture purposes.

Technology Improvements

The consultants noted very few technology issues. Shippensburg has done an excellent job in providing sufficient technology for most of the classrooms. Only 9% (7 classrooms) did not have video visual equipment and controls, varied by size and type, as well as location in many rooms projection systems. Instructor stations used to accommodate audio. The University may want to develop a universal design to simplify faculty training.

Wire management should be reviewed in classrooms using computers and instructional equipment that require power.

Classrooms with Highest Deficiencies

The following table lists the 15 classrooms with the highest percent of deficiencies. The complete listing is included in the appendix.

Building	Room No.	Cap	ASF	Deficiency Points	Max. Points	Percent Deficient
Stewart Hall	STW100	17	466	52	106	49.1%
Stewart Hall	STW200	53	873	51	109	46.8%
Stewart Hall	STW101	34	496	46	106	43.4%
Stewart Hall	STW209	29	403	42	106	39.6%
Horton Hall	HOR022	29	516	35	106	33.0%
Gilbert Hall	GIL110	20	420	33	103	32.0%
Library	LIB120A	24	497	33	106	31.1%
Wright Hall	WR107	34	602	32	106	30.2%
Memorial Aud.	MEM210	40	804	32	106	30.2%
Horton Hall	HOR128	26	495	32	106	30.2%
Horton Hall	HOR020	25	463	31	106	29.2%
Gilbert Hall	GIL210	46	545	30	106	28.3%
Library	LIB120B	24	534	30	106	28.3%
Library	LIB205	27	1,349	30	106	28.3%
Gilbert Hall	GIL001	20	293	27	106	25.5%

Class Labs with Highest Deficiencies

Building	Room No.	Cap	ASF	Deficiency Points	Max. Points	Percent Deficient
Huber Arts	HAC207	15	1,498	36	103	35.0%
Huber Arts	HA121	15	1,028	35	103	34.0%
Franklin Sci	FSC324	20	1,459	34	103	33.0%
Stewart Hall	STW106	10	358	33	103	32.0%
Stewart Hall	HOR022	10	395	32	103	31.1%
Huber Annex	HAA100	15	1,133	29	103	29.1%
Stewart Hall	STW204	16	617	33	103	28.2%
Huber Arts	HAC309	16	1,086	29	103	28.2%
Franklin Sci	FSC308	16	807	29	103	28.2%
Franklin Sci	FSC334	20	1,307	29	103	28.2%
Huber Arts	HAC119	5	748	29	103	28.2%
Franklin Sci	FSC318	20	545	28	103	27.2%
Franklin Sci	FSC328	16	534	28	103	27.2%
Franklin Sci	FSC316	16	1,349	27	103	26.2%
Franklin Sci	FSC206	16	293	27	103	26.2%

Cost Required to Correct Deficiencies

Many of the deficiencies have corrective actions that can eliminate the deficiency such as adding ADA hardware and ADA room numbers. The budgetary estimate to correct all non structural deficiencies in the classrooms surveyed is approximately \$313,335. The largest component of these costs (56%) is in Room Improvements with the replacement or addition of chalkboards/whiteboards making up the highest cost item followed by replacement of tablet arm chair seating. Maintenance items account for 15%, followed by ADA and Technology corrections at 12% each. The appendix lists the estimated costs for all correctable deficiencies.

Detailed Deficiencies and Costs

Detailed reports that identifies the deficiencies for each room, is available in a separate document. This companion report provides the cost estimate to correct the non structural deficiencies.



Appendices

Appendix A: Model Teaching Environments

General-purpose classrooms and class laboratories should function primarily to accommodate instructional teaching methods of any instructor. In addition, the learning environment should enable students to clearly hear the instructor, see the instructor and all presented material, and learn in comfort.

A “model” classroom has specific physical and technological features that permit any type of instruction to be applied. A “model” class laboratory should be designed to support the instructional needs of a specific discipline. However, there are some general rules relative to the room physical requirements that should apply to all class labs regardless of the specific instructional use. Following are descriptions of the features found in the model classroom and class labs (additional requirements for lecture halls are noted):

Accessibility/Circulation

The classroom and class lab should be easily accessible, and if possible, located on the ground or first floor of the building, along a main or primary corridor. It should accommodate persons with physical disabilities with appropriate door widths, Braille identification signs, levered door hardware, and space for wheel chairs. It should meet specifications outlined in the Americans with Disabilities Act. Students should enter the room through doors located either on the side or rear of the room to prevent interruption of instruction in progress.

Visibility

The aspect ratio (i.e., the comparison of length and width dimensions) of the classroom and class lab should be either greater than 0.7 or less than 1.5.

If room depth exceeds 36 feet, then clear sight lines require a sloped or tiered floor surface. Ceiling heights should range from eight feet in small rooms with 20-capacity to 12 feet in rooms with 75-capacity to provide students in the rear of each room unobstructed views of all

projection images. In lecture halls with sloped or tiered floor surface, minimum ceiling height in the rear should be eight feet. In class labs the ceiling height may need to be higher to accommodate any specialized equipment.

The maximum distance from a projected image to the last row of seats should measure no more than six times the size of the image.

Acoustics

To hear an instructor from the rear of the room, ambient noise levels near the classroom and class lab emanating from mechanical systems, adjacent hallways and other classrooms, and outside windows should not exceed the noise coefficient rating of NC45. Where possible, classrooms and class labs should be designed and located away from noisy mechanical rooms and restrooms. However, if classroom and lab noise levels exceed NC 45 voice amplification systems for instructors will improve classroom quality. All lecture halls (i.e., rooms that seat more than 75 persons) should be equipped with a voice amplification and sound system, an acoustically absorbent surface on the rear wall, and a hard, reflective surface along the front wall.

Lighting

Light switches and controls should be located at the room entrance(s) and at the teaching station, clearly marked and simple to operate. Lights should be banked, split or dimmable from the teaching area to the rear of the room to adjust light levels for visual projections. A room with exterior windows should have blinds or curtains to control light levels for projection. Marker board task lighting, installed in a manner that prevents reflective glare for the students, should be provided in lecture halls where light compensates for distance from the students.

Teaching Surfaces

The classroom should have marker boards—either chalkboards or whiteboards or both. Classrooms smaller than 800 square feet should have at least 16 linear feet of available writing surface. Classrooms

larger than 800 square feet should have 20 linear feet or more. Marker boards should measure at least four feet high and rise 36 inches from the floor surface but no more than 42 inches. To accommodate additional visual materials in the classroom, each marker board should include a chalk tray, chart rail and map hooks. Black chalkboards provide greater contrast than other colors, which benefits visually impaired students. Green and black are most desirable.

The class lab should have XX lineal feet of wiring surface (chalkboards or white boards) accessible and available for use.

The classroom and class lab should have a projection screen mounted either to the side of the instructor (in the corner of the room) or above a portion of the marker board surface. It is important for the instructor to be able to project an image and write on the marker board simultaneously.

In classrooms and lecture halls with ceiling mounted video projection systems, dual screens should be provided to permit projection from more than one source (e.g., overhead projector and ceiling video projector). Screens should be mounted so that switches and controls are accessible and at least six feet of marker board surface is available while projection occurs. Minimum width of a projection screen should be seventy-two inches, and the screen length should extend to approximately three feet above the floor.

Seating

Classrooms with movable or fixed tablet arms should be equipped with tablet arm writing surfaces of 180 square inches or greater. If the tablet surface measures less than 300 square inches, at least ten percent of the seating capacity should serve left-handed students. In classrooms equipped with fixed seating, the distance of the front row of seats to the teaching surfaces should range between 9 to 15 feet.

In classrooms equipped with fixed seating, aisle widths should be a minimum of three feet; the distance from the back of the seat in front to the edge of the tablet surface on the seat behind in the next row range between 18 to 24 inches to allow students to pass by seated students; and accessible spaces for wheel chairs should be provided in both the rear or front of the room where possible.

In class labs with fixed benches or tables, aisle widths will vary depending on the arrangement of the furniture and equipment in the lab. The benches or tables should be positioned in such a way that the students can easily see the projection screen(s) and instructor.

Electrical

Classrooms seating less than 50 students should have at least one duplex electrical outlet in the front of the room. Rooms with 50-75 seat capacity should have at least two duplex outlets, and rooms larger than 75 seat capacity need at least four duplex outlets near the teaching station. All classrooms should have a minimum of two duplex electrical outlets in the rear of the room and one on each sidewall.

A simplex clock—either electric or battery operated, —should be located on the wall opposite the teaching area.

Technology

At least one combination telephone/data connection outlet should be provided at the teaching station. The room should be equipped with an overhead projector and ceiling mounted video projection system.

A lockable storage cabinet should be provided within direct access of the room to store computer and presentation technology equipment.

Appendix B: Summary of Room Deficiencies by Category

The following tables list and describe the deficiencies by category and indicate the corrective action if applicable. Unit costs and a multiplying factor are also shown. Note that unit costs are shown for illustrative purposes but can be different in any reports generated since the user can designate them.

However, the user cannot change the multiplying factor. The user may also designate deficiencies that should not be included in the analysis. Deficiency points are not shown in the following tables, but the user may also modify the points for a given deficiency if desired. The “Code” column is the Deficiency Code displayed in the reports. The Description and Corrective Action columns in the reports are sometimes an abbreviated version of the descriptions in the following tables.

ADA Requirements

These deficiencies are identified using criteria specified in the current regulations governing handicapped accessibility under the Americans with Disabilities Act.

Code	Description	Corrective Action	Unit Cost	Multiply By
A3	Access: Room is not handicapped accessible			No Cost
A3A	Access: Door opening is not ADA width	Increase door width	\$1,500	Fixed
A3B	Access: Doors do not have ADA hardware	Add ADA hardware to door	\$500	Fixed
A3C	Access: Room does not have ADA room numbers	Add ADA room numbers	\$100	Fixed

Building or Structural Issues

These deficiencies identify physical elements related to the facility that to correct will require a substantial investment usually greater than expended in a typical room improvement project. If considered for correction by the institution, these items are implemented under a larger building renovation project and are listed for information purposes to be incorporated into future renovations. Therefore, in most cases, no corrective costs are assigned as part of the room condition analysis.

Code	Description	Corrective Action	Unit Cost	Multiply By
A1	Access: Room is on 3rd floor or higher and there is no elevator			No Cost
A2	Access: Room is in suite; dead-end or			No Cost

Code	Description	Corrective Action	Unit Cost	Multiply By
	secondary corridor			
A4	Access: There are insufficient door openings (does not meet code)	Add Door Openings	\$1,500	Fixed
A5	Access: Room is not accessible from side or rear			No Cost
B0	Sight Lines: Aspect Ratio (depth/width) is less than 0.7 or greater than 1.5			No Cost
B1A	Sight Lines: Room has fair sight lines			No Cost
B1B	Sight Lines: Room has poor sight lines			No Cost
B2	Sight Lines: Room is longer than 36 feet and has a flat floor			No Cost
B3	Ceiling too low for proper screen height			No Cost
C1A	Acoustic: Room has fair acoustics			No Cost
C1B	Acoustic: Room has poor acoustics			No Cost
C2	Acoustic: Room has significant or continuous noise			No Cost
E1A	Room has only a window air conditioner			No Cost
E1B	Room has no air conditioning			No Cost
H7	Lecture room with no storage	Add lockable storage	\$200	Fixed

Maintenance Issues

These deficiencies identify improvements to aesthetic elements of a room that typically are implemented through an institution's maintenance function.

Code	Description	Corrective Action	Unit Cost	Multiply By
K1A	Surface Conditions: Ceiling Condition is fair	Repair Ceiling	\$1.10	Room ASF
K1B	Surface Conditions: Ceiling Condition is poor	Replace Ceiling	\$2.50	Room ASF
K2A	Surface Conditions: Wall Condition is fair	Repaint Walls	\$2	Room ASF
K2B	Surface Conditions: Wall Condition is poor	Repair and Repaint Walls	\$4	Room ASF
K3A	Surface Conditions: Floor Condition is fair	Repair Floor	\$1.10	Room ASF
K3B	Surface Conditions: Floor Condition is poor	Replace Floor	\$2.25	Room ASF

Room Issues

These deficiencies identify physical elements within a room that by corrective action will improve the learning environment for students and the presentation of materials by instructors to expected levels of quality.

Code	Description	Corrective Action	Unit Cost	Multiply By
B4	Sight Lines: Max seat distance greater than 6 X projected image	Add or increase size of projection screen	\$750	Fixed
D0	Lighting: Fluorescent Lights not parallel to teach wall	Replace or rework Lights	\$3	Room ASF
D1	Lighting: Lights can not be banked, split or dimmed	Add switch at the teaching station or door	\$500	Fixed
D2	Lighting: There is no light switch at room entrance	Add switch at the teaching station or door	\$500	Fixed
D3	Lighting: There is no light switch near the teaching station	Add switch at the teaching station or door	\$500	Fixed
D4	Lighting: No chalkboard task light in lecture rooms	Add task lighting to chalkboard	\$2	LF of Chalkboard
D5	Lighting: Poor lighting	Replace lights	\$3	Room ASF
E2	Lighting: Room has windows but no blinds or curtains	Add or repair window or blackout shades	\$30	Room Depth
F1	Teaching Surfaces: Insufficient chalkboard length (16' for rooms less than 800 ASF; 20' for larger rooms)	Add or replace chalkboard	\$55	LF of Chalkboard
F2	Teaching Surfaces: Chalkboards have no chalk trays	Add or replace chalk tray	\$10	LF of Chalkboard
F3	Teaching Surfaces: Room has no chart rail	Add or replace tack strip	\$5	LF of Chalkboard
F4A	Teaching Surfaces: Chalkboard is in fair condition	Add or replace chalkboard	\$55	LF of Chalkboard
F4B	Teaching Surfaces: Chalkboard is in poor condition	Add or replace chalkboard	\$55	LF of Chalkboard
F6	Screens: Room has no projection screens	Add or increase size of projection screen	\$750	Fixed
F6A	Screens: Screen covers over 50% of board	Relocate Screen	\$200	Fixed
F6B	Screens: Screen is damaged	Replace screen	\$750	Fixed

Code	Description	Corrective Action	Unit Cost	Multiply By
F7	Screens: Lecture room does not have dual projection screens	Add or increase size of projection screen	\$750	Fixed
F8	Teaching Surfaces: No Instructor's Station	Add Instructor's Station	\$500	Fixed
F9	Teaching Surfaces: No Podium	Add Podium	\$100	Fixed
G1	Electrical: Room has insufficient duplex outlets along front wall (H8)	Add electric outlets	\$200	Fixed
G2	Electrical: Room has no duplex outlets along the rear wall	Add electric outlets	\$200	Fixed
H8	AV: Improvements should be made before technology investment			No Cost
I1	Clock: Room has no clock	Add clock	\$50	Fixed
I2	Pencil Sharpener: Room has no pencil sharpener	Add pencil sharpener	\$25	Fixed
J1	Seating: Room has movable tablet arm seats and the writing area $\leq$ 150 sq. in	Replace tablet arm seats	\$150	Capacity
J1A	Seating: Room has fixed tab arm seats and the writing area $\leq$ 150 sq. in	Replace fixed tab arm seats	\$200	Capacity
J1B	Seating: Room has theatre seats W tab arm and the writing area $\leq$ 150 sq. in	Replace theatre tab arm seats	\$250	Capacity
J2	Seating: Room has movable tablet arm seats and $< 10\%$ left hand seats and tablet arm area < 300 sq. in	Replace 10% of tab arm seats with left hand tab arms	\$150	10% of Capacity
J2A	Seating: Room has fixed tab arm seats and $< 10\%$ left hand seats and tablet arm area < 300 sq. in	Replace 10% of fixed tab arms with left hand tab arms	\$200	10% of Capacity
J2B	Seating: Room has theatre seats W tab arm and $< 10\%$ left hand seats and tablet arm area < 300 sq. in	Replace 10% of theatre seats with left hand tab arms	\$250	10% of Capacity
J3	Seating: Room has fixed seats and the distance to 1 st row is too narrow	Remove row of fixed seats at front of room	\$500	Fixed
J4	Seating: Room has fixed seats and some aisle widths are too narrow			No Cost
J5	Seating: Room has fixed seats and the seat			No Cost

Code	Description	Corrective Action	Unit Cost	Multiply By
	front to seat back is too narrow			
J6	Seating: Room has fixed seats and there are no wheelchair spaces	Remove Seats	\$200	Fixed
J7M1	Seating Condition Poor: Moveable Tablet Arm Chairs	Replace moveable tablet arm chairs	\$150	Capacity
J7M2	Seating Condition Poor: Moveable Tables and Chairs	Replace moveable tables and chairs	\$200	Capacity
J7F1	Seat Condition Poor: Fixed Tab Arm Chairs	Replace fixed tab arm chairs	\$200	Capacity
J7F2	Seat Condition Poor: Fixed Theatre Seats W Tab Arms	Replace Theatre Tab Arm Seats	\$250	Capacity
J7F3	Seat Condition Poor: Fixed Theatre Seats WO Tab Arms	Replace Theatre Seats	\$200	Capacity
J7F4	Seat Condition Poor: Fixed Tables and Chairs	Replace Fixed Tables and Chairs	\$200	Capacity
J7F5	Seat Condition Poor: Fixed Tables and Movable Chairs	Replace Fixed Tables and Movable Chairs	\$150	Capacity

Technology Issues

These deficiencies identify current technology enhancements (i.e., equipment) that will improve the transfer of instructional materials and information to students.

Code	Description	Corrective Action	Unit Cost	Multiply By
H1	AV: Room has no computer connection	Add computer connection	\$250	Fixed
H2	AV: Room has no overhead projector	Add overhead to room	\$300	Fixed
H3	AV: Lecture room with no voice amplification system	Add voice amplification system	\$1,200	Fixed
H4	AV: Lecture room with no sound system	Add sound system	\$500	Fixed
H5	AV: Room has no Video Projection	Add video projection system	\$5,000	Fixed
H6	AV: Video Projection is not ceiling mounted	Ceiling mount video projection system	\$500	Fixed
H9	AV: No video connection	Add video connection	\$500	Fixed

Appendix C: Classroom Survey Form

PHYSICAL SURVEY OF CLASSROOMS		Shippensburg University	
Find Survey 01 Grove Hall GRH201 Add New New Room New Room Cancel Cancel			
GENERAL: Building: 529 Grove Hall Room No.: GRH201 ASF: 772 Capacity: 36 RoomType: 110 Classroom 3+ floors above/below grade(Y/N): Bldg. Location: c Room Type: Cl			
DOORS: No. of Openings: 1 Side or Rear ☐ Hdcp Rm. Access ☒ ADA Width: ☒ ADA Rm. Numbers ☒ ADA Hardware: ☒ Manual Interior Lock: ☒ Wood/Metal Door: ☒ Secondary Escape Route: ☐			
DIMENSIONS: Width: 25.5 Depth: 30 Height: 9			
SIGHT LINES: Line of Sight: G Tiered or Sloped Floors: ☐			
SONIC CONDITION: Acoustic Condition: G Acoustic Ceiling: ☒ Acoustic Treatment-Rear Wall: ☐ Ambient Noise: ☐ Ambient Noise Level: 42 If >=35 DB Then Check Ambient Noise to Yes			
WINDOWS: ☒ Treatment: Blinds: ☒ Curtains: ☐ Darken: ☐ Window Security Hardware: ☐			

CONDITION OF FINISHES:

Floor: Ceiling: Wall:

NUMBER OF ELECTRICAL OUTLETS:

Front: Rear: Side:

LIGHTING:

Type: ☒ Incandescent: ☐ High Pressure Sodium: ☐ Other: ☐ Parellel to Teach Wall: ☒

Controls: ☐ Regional Side: ☐ Split: ☐ Dimmer: ☒ On/Off: ☐

Switch Location: ☒ Rear: ☐ Door: ☒ Side: ☐ Other: ☐

Quality: (P=<30 FC, F=>30<50, G=>50) Footcandles:

Task Lighting: ☒ At Teaching Surface: ☒ At Workstation: ☐

SEATING:

Total No. Seats: No. of Left Hand Seats: Type: Condition:

Recom. Seat Reduction: Recom. Seat Increase:

Writing Surfaces-Movable Seats: Tablet Arm Area: Table Size: Length: Width:

Fixed Seating Only: Aisle Width: Front To Back: Distance to 1st Row:

Handicap Stations: ☐ No. Handicap Stations:

TEACHING SURFACES:

Chalkboard: ☒ Whiteboard: ☐ Height from Floor(in): Condition: Board Color:

LF of Boards Front: LF of Boards Side: LF of Boards Rear:

Chalktray: ☒ Maphooks: ☒ Chartrail: ☒ Tackboard: ☐

Instructor Station: ☒ Podium: ☒ Raised Instructor Platform: ☐ Teaching_Station_Access: ☒

TECHNOLOGY AND SERVICES:

Projection Screens: ☒ Dual Screens: ☐ Width: Height:

Covers >1/2 Board: ☐ Screen Damaged: ☐

Projection Systems: Video/Comp. Projection: ☒ Video/Comp.Projection Mount: Projection Booth: ☐

Overhead: ☒ Elmo: ☐ Smartboard: ☐ TV w/VCR or DVD: ☒

Service Outlets: Computer Connections: ☒ Front: Side: Rear:

Phone Jack: ☒ TV Connection: ☒

Sound Amplification: Sound System: ☐ Voice Amplification: ☐

Storage Systems: General Storage: ☒ A/V Storage Closet: ☐

Other Technology: Computer at Teach Station: ☒ Pencil Sharpener: ☒ Clock: ☒ Wireless Connectivity: ☐

Air Condition: Thermostat: ☒ Overall Rating: Picture_ID:

Survey Complete:

COMMENTS / SPECIAL REQUIREMENTS:

simplex clock. Green board

Appendix D: Class Lab Survey Form

Physical Survey of Instructional Laboratories			
Shippensburg University			
Find Survey 		Add New New Room Cancel	
GENERAL: Building: 523 Shippen Hall Room Number: PH340			
Lab Type:		Lab Name: Subject:	
In Bldg. Location: M		Location Satisfactory? ☐ Air Conditioning: C Thermostat: ☒	
DOORS:			
No. of Doors: 1		Side or Rear Doors: ☒ Disability Access: ☒ ADA Width: ☒ ADA Room No: ☒	
ADA Hardware: ☐		Manual Interior Lock: ☒ Wood/Metal Door: ☒ Secondary Escape Route: ☐	
SIGHT LINES: Line of Sight: G			
SONIC CONDITION:			
Acoustic Condition: G		Ambient Noise: ☒ Ambient Decibel Level: 46 If Db Level <= 35 Check Ambient Noise Yes	
WINDOWS: ☒			
Blinds: ☒ Curtains: ☐ Darken: ☐		Window Security Hardware: ☐	
CONDITION OF FINISHES:			
Floor Condition: G		Ceiling Condition: G Wall Condition: G	

NUMBER OF ELECTRICAL OUTLETS:Front Outlets: Rear Outlets: Side Outlets: **LIGHTING:**Type: ☒ Fluorescent ☐ Incandescent ☐ High Pressure Sodium: ☐ Other: ☐Controls: ☐ Regional Front: ☐ ☒ Regional Side: ☐ Split: ☐ Dimmer: ☐ On/Off: ☐Switch Location: ☐ Teaching Station: ☐ ☒ Rear: ☒ Door: ☒ Side: ☐ Other: ☐Quality: Reviewer Rating: Footcandles: Task Lighting: ☐ Teach_Station: ☐ At Workstation: ☐**SEATING:**Total Stations: Condition: Table/Bench Size: Length: Width: Height: Fixed Seating Only: ☐ Aisle Width: Row Width: Wheelchair Stations: Number:

TEACHING SURFACES/STATION:

Chalkboard/Whiteboard:	☒	Board Condition:	G	Board Color:	B1	Board Length Sufficient:	☐	
Board Height:	36	Chalktray:	☒	Maphooks:	☒	Chartrail:	☒	
Instructor Station:		☒	Demo Bench:	☐	Raised Instructor Platform:	☐	Teaching Station Access:	☒

TECHNOLOGY:

Projection Screen:	☒	Dual Screens:	☐	Screen Covers 1/2 of Board:	☐	Screen Damaged:	☐
Projection Systems:	Video/Computer Projection:	☒	Video/Comp. Projector Mount:	C			
Overhead:	☒	Elmo:	☒	Smartboard:	☐	TV Connection:	☒
TV w/VCR or DVD:	☐						
Sound Amplification:	Sound System:	☐	Voice Amplification:	☐			
Other Technology:	Computer at Teaching Station:	☒	Wireless Connection:	☐	Clock:	☒	

SERVICES:

	<u>At Teach Station</u>	<u>At Student Station</u>		<u>At Teach Station</u>	<u>At Student Station</u>	
Natural Gas:	☐	☐	Electrical Power:	☐	☐	(110 / 220 v at station)
Compressed Air:	☐	☐	Computer Connections:	☐	☐	
Potable Water:	☐	☐	Phone Connection:	☐	☐	
Distilled Water:	☐	☐	Station Storage:	☐	☐	
Vacuum:	☐	☐	Other Services:	☐	☐	

SAFETY SYSTEMS

	<u>Functional</u>	<u>Number</u>		
Chemical Fume Hood:	☐	☐	0	Fire Extinguisher:
Emergency Shower:	☐	☐		Hazardous Waste Storage:
Emergency Eye Wash:	☐	☐		General Storage:
First_Aid Kit:	☐			Emergency Powe _Shutoff:

PREP ROOM:			
Prep_Room:	☐	Prep_Room_Storage:	☐
Prep_Room_Hood:	☐	Prep_Room_Services:	☐
REVIEWERS RATINGS:			
Is Space Used Efficiently?	☐	Overall Lab_Rating	
Does Lab Need to be Larger?	ASF	Overall Functional Rating	
Does Lab Need to be Smaller?:	6 ASF		
COMMENTS / SPECIAL REQUIREMENTS			
Picture ID:		Survey Complete:	y

Appendix E: Reports

The following table summarizes the number of deficiency points for the Shippensburg campus for the 78 rooms evaluated.

Classroom Deficiencies Summary**Campus: 01 Shippensburg University****Number of Rooms Evaluated: 78**

Def. Code	Description	Count
ADA Requirement		
A3B	Access: Doors do not have ADA hardware	38
A3D	Access: Doors do not have manual interior lock	34
A3C	Access: No ADA room numbers	19
A3	Access: Room is not handicap accessible	11
Building or Structure		
C2	Acoustic: Significant or Continuous Noise	49
M1	Windows: No window security egress locks	44
A5	Access: Room not accessible from side or rear	44
B3	Sight Lines: Ceiling too low (for proper screen height)	26
B0	Sight Lines: Aspect Ratio < 0.7 or > 1.5	19
A6	Access: Door not is not made of metal or solid wood	11
E1B	Enviro:Room has no air conditioning	8
B2	Sight Lines: Room depth > 36 ft and flat floor	8
E1A	Enviro: Room has window air conditioning only	7
A2	Access: Room is in suite; dead-end or secondary corridor	4
C1A	Acoustic: Fair acoustics	4
B1A	Sight Lines: Fair sight lines	3
A4	Access: No secondary escape route	2
General		
L1B	Overall the room is poor	11
L1A	Overall the room is fair	8
Maintenance		
K1A	Surface Conditions: Ceiling Condition is fair	9

Classroom Deficiencies Summary**Campus: 01 Shippensburg University****Number of Rooms Evaluated:**

Def. Code	Description	Count
K3B	Surface Conditions: Floor Cond is poor	9
K2A	Surface Conditions: Wall Cond is fair	9
K3A	Surface Conditions: Floor Cond is fair	6
K2B	Surface Conditions: Wall Cond is poor	2
K1B	Surface Conditions: Ceiling Cond is poor	1
Room Improvements		
F5	Teaching Surfaces: No Tackboard	46
F9	Teaching Surfaces: No Podium	42
F1	Teaching Surfaces: Insufficient chalkboard length (16' for rooms < 800 ASF; 20' for	42
F1A	Teaching Surfaces: Chalkboard Distance From Floor <36 or >42 Inches	34
D1	Lighting: Lights can not be banked, split or dimmed	29
F3	Teaching Surfaces: Room has no chartrail	24
F8	Teaching Surfaces: No instructor's station	18
F6A	Teaching Surfaces: Projection screen covers board	17
D3	Lighting: There is no light switch near the teaching station	16
B4	Sight Lines: Max seat distance > 6 X projected image	15
F4A	Teaching Surfaces: Chalkboard is in fair condition	14
F2	Teaching Surfaces: Chalkboards have no chalktrays	8
J1	Seating: Room has movable tablet arm seats and the writing area <= 180 sq in	7
J6	Seating: Rm has fixed seats and there are no wheelchair spaces	5
F4B	Teaching Surfaces: Chalkboard is in poor condition	5
J7A	Seat Condition Fair	4
D5	Lighting: Poor lighting	4
F6	Screens: Room has no projection screens	4

Classroom Deficiencies Summary**Campus: 01 Shippensburg University****Number of Rooms Evaluated:**

Def. Code	Description	Count
D2	Lighting: There is no light switch at room entrance	4
J2	Seating: Room has movable tablet arm seats and < 10% left hand seats and tablet	4
F4C	Teaching Surfaces: Chalkboard has poor contrast	3
J2A	Seating: Room has fixed tab arm seats and < 10% left hand seats and tablet arm	3
J3	Seating: Rm has fixed seats and the distance to 1st row is too narrow	2
F6B	Teaching Surfaces: Projection screen damaged	2
D4	Lighting: No chalkboard or task light in lecture rooms	1
F8A	Teaching Station Not ADA Compliant	1
Technology		
H5	AV: Classroom or Lecture room with no Video Projection	7
H1	AV: Room has no computer connection	6
H4	AV: Room >=50 seats with no sound system	5
Count of Deficiencies Shippensburg University		758

Classroom Deficiency Points By Category (Ranked by Total Deficiencies-High to Low)**Campus: Shippensburg University**

Campus: Shippensburg University					Deficiency Points by Category									
Building		Room	Cap	ASF	Ada Issue	Building Structure	General	Maint Issue	Room Issues	Tech Upgrade	Rm Def Points	Max Points	Percent Deficient	Room Hours
120	Stewart Hall	STW100	17	466	12	11	2	4	18	5	52	106	49.1%	8.00
120	Stewart Hall	STW200	53	873	12	15	2	4	15	3	51	109	46.8%	10.49
120	Stewart Hall	STW101	34	496	9	14	2	5	16	0	46	106	43.4%	
120	Stewart Hall	STW209	29	403	12	4	2	5	14	5	42	106	39.6%	
018	Horton Hall	HOR022	29	516	9	10	2	1	13	0	35	106	33.0%	25.99
520	Gilbert Hall	GIL110	20	420	6	7	2	3	12	3	33	103	32.0%	
414	Ezra Lehman Library	LIB120A	24	497	12	9	1	0	11	0	33	106	31.1%	
560	Memorial Auditorium	MEM210	40	804	12	10	0	2	6	2	32	106	30.2%	17.49
528	Wright Hall	WRI017	34	602	9	12	0	0	11	0	32	106	30.2%	43.47
018	Horton Hall	HOR128	26	495	12	8	1	0	11	0	32	106	30.2%	17.25
528	Wright Hall	WRI106	30	409	9	10	0	1	11	0	31	106	29.2%	46.40
018	Horton Hall	HOR020	25	463	6	11	2	0	10	2	31	106	29.2%	28.98
414	Ezra Lehman Library	LIB205	27	1,349	9	5	1	2	13	0	30	106	28.3%	45.39
520	Gilbert Hall	GIL210	46	545	3	9	2	4	12	0	30	106	28.3%	34.81
520	Gilbert Hall	GIL001	20	293	3	11	1	0	12	0	27	106	25.5%	
528	Wright Hall	WRI012	35	584	3	10	0	4	9	0	26	106	24.5%	37.81
015	Faculty Office Bldg	FOB101	50	1,052	3	13	1	0	6	3	26	109	23.9%	43.65
526	Franklin Science Ctr	FSC016	40	644	6	11	0	0	8	0	25	106	23.6%	33.15
520	Gilbert Hall	GIL240	40	587	3	10	2	2	7	0	24	106	22.6%	49.31
526	Franklin Science Ctr	FSC012	15	620	6	5	0	0	13	0	24	106	22.6%	14.15
526	Franklin Science Ctr	FSC104	71	1,285	6	3	0	0	17	0	26	115	22.6%	23.49

Classroom Deficiency Points By Category (Ranked by Total Deficiencies-High to Low)**Campus: Shippensburg University**

Campus: Shippensburg University						Deficiency Points by Category								
Building		Room	Cap	ASF	Ada Issue	Building Structure	General	Maint Issue	Room Issues	Tech Upgrade	Rm Def Points	Max Points	Percent Deficient	Room Hours
523	Shippen Hall	SPH110G	12	449	6	5	0	0	9	3	23	103	22.3%	13.60
560	Memorial Auditorium	MEM100	40	1,230	3	6	1	2	11	0	23	106	21.7%	37.47
525	Huber Arts Center	HAC301	106	1,819	6	2	0	1	12	3	24	115	20.9%	28.74
520	Gilbert Hall	GIL230	40	609	3	6	2	2	7	2	22	106	20.8%	49.22
526	Franklin Science Ctr	FSC030	121	1,890	3	5	0	0	15	0	23	115	20.0%	34.98
520	Gilbert Hall	GIL220	40	636	3	6	2	3	5	2	21	106	19.8%	52.05
523	Shippen Hall	SPH220	40	880	6	5	0	1	9	0	21	106	19.8%	48.65
215	Heiges Field House	HFH220	40	1,193	9	8	1	0	1	0	19	106	17.9%	34.73
414	Ezra Lehman Library	LIB016	24	513	6	2	0	0	11	0	19	106	17.9%	4.00
521	Rowland Hall	RLH100	40	693	0	9	0	0	10	0	19	106	17.9%	37.81
523	Shippen Hall	SPH150	28	755	6	7	0	0	6	0	19	106	17.9%	52.32
528	Wright Hall	WRI016	35	616	3	6	0	0	10	0	19	106	17.9%	37.49
522	Shearer Hall	SRH206	28	441	0	7	0	0	11	0	18	106	17.0%	22.99
526	Franklin Science Ctr	FSC312	41	798	6	7	0	0	5	0	18	106	17.0%	39.82
526	Franklin Science Ctr	FSC356	109	1,851	3	3	0	0	10	3	19	115	16.5%	39.81
526	Franklin Science Ctr	FSC108	71	1,286	3	5	0	0	11	0	19	115	16.5%	28.32
521	Rowland Hall	RLH106	40	711	0	5	0	0	10	2	17	106	16.0%	26.32
523	Shippen Hall	SPH200	34	969	3	5	0	0	9	0	17	106	16.0%	49.64
523	Shippen Hall	SPH260	35	724	3	7	0	1	6	0	17	106	16.0%	50.49
215	Heiges Field House	HFH230	52	1,178	9	3	1	0	1	3	17	109	15.6%	26.32
522	Shearer Hall	SRH202	36	903	0	5	0	0	11	0	16	103	15.5%	34.73
523	Shippen Hall	SPH370	35	895	6	5	0	0	5	0	16	106	15.1%	38.07

Classroom Deficiency Points By Category (Ranked by Total Deficiencies-High to Low)**Campus: Shippensburg University**

Campus: Shippensburg University					Deficiency Points by Category									
Building		Room	Cap	ASF	Ada Issue	Building Structure	General	Maint Issue	Room Issues	Tech Upgrade	Rm Def Points	Max Points	Percent Deficient	Room Hours
526	Franklin Science Ctr	FSC156	109	1,745	6	3	0	0	8	0	17	115	14.8%	38.90
523	Shippen Hall	SPH224	130	1,636	6	3	0	0	8	0	17	115	14.8%	35.73
523	Shippen Hall	SPH380	35	764	3	5	0	0	7	0	15	106	14.2%	35.16
526	Franklin Science Ctr	FSC336	40	800	6	5	0	0	4	0	15	106	14.2%	31.98
526	Franklin Science Ctr	FSC226	40	749	3	9	0	0	3	0	15	106	14.2%	43.57
522	Shearer Hall	SRH109	40	558	3	9	0	0	3	0	15	106	14.2%	40.65
523	Shippen Hall	SPH160	28	760	3	5	0	0	7	0	15	106	14.2%	55.15
529	Grove Hall	GRH201	36	772	0	9	0	0	5	0	14	106	13.2%	37.47
522	Shearer Hall	SRH205	40	602	0	7	0	0	7	0	14	106	13.2%	22.81
561	Performing Arts Ctr	PAC121	44	679	3	2	0	0	9	0	14	106	13.2%	28.90
523	Shippen Hall	SPH230	30	657	3	7	0	0	3	0	13	106	12.3%	44.16
526	Franklin Science Ctr	FSC228	40	697	6	7	0	0	0	0	13	106	12.3%	43.74
523	Shippen Hall	SPH340	42	764	3	5	0	0	5	0	13	106	12.3%	40.74
523	Shippen Hall	SPH250	30	755	3	7	0	0	3	0	13	106	12.3%	43.41
521	Rowland Hall	RLH101	25	481	0	9	0	0	4	0	13	106	12.3%	26.41
529	Grove Hall	GRH206	36	774	0	6	0	0	6	0	12	106	11.3%	43.13
523	Shippen Hall	SPH300	38	712	3	3	0	0	6	0	12	106	11.3%	43.74
529	Grove Hall	GRH308	40	776	0	6	0	0	3	3	12	106	11.3%	46.31
522	Shearer Hall	SRH107	42	724	0	9	0	0	3	0	12	106	11.3%	41.91
529	Grove Hall	GRH202	80	1,504	0	7	0	1	5	0	13	115	11.3%	40.31
529	Grove Hall	GRH306	40	774	0	4	0	0	4	3	11	106	10.4%	49.31
529	Grove Hall	GRH303	36	755	0	6	0	0	5	0	11	106	10.4%	40.39

Classroom Deficiency Points By Category (Ranked by Total Deficiencies-High to Low)**Campus: Shippensburg University**

Campus: Shippensburg University						Deficiency Points by Category								
Building		Room	Cap	ASF	Ada Issue	Building Structure	General	Maint Issue	Room Issues	Tech Upgrade	Rm Def Points	Max Points	Percent Deficient	Room Hours
529	Grove Hall	GRH203	36	754	0	6	0	0	5	0	11	106	10.4%	43.22
523	Shippen Hall	SPH320	42	764	3	5	0	0	3	0	11	106	10.4%	43.66
529	Grove Hall	GRH208	36	776	0	6	0	0	5	0	11	106	10.4%	37.47
529	Grove Hall	GRH408	40	756	0	6	0	0	4	0	10	106	9.4%	47.24
526	Franklin Science Ctr	FSC256	109	1,743	3	3	0	0	4	0	10	115	8.7%	35.82
521	Rowland Hall	RLH200	150	2,391	0	1	0	0	9	0	10	115	8.7%	35.07
529	Grove Hall	GRH404	40	768	0	6	0	0	3	0	9	106	8.5%	34.66
521	Rowland Hall	RLH209	41	647	0	7	0	0	2	0	9	106	8.5%	40.57
529	Grove Hall	GRH406	42	751	0	6	0	0	3	0	9	106	8.5%	40.65
531	Math & Comp Tech Bld	MCT258	40	668	0	5	0	0	4	0	9	106	8.5%	33.98
531	Math & Comp Tech Bld	MCT262	40	773	0	2	0	0	3	0	5	106	4.7%	31.32
531	Math & Comp Tech Bld	MCT265	40	826	0	4	0	0	1	0	5	106	4.7%	46.98

Classroom Deficiency Points By Category (Ranked by Room Hours-High to Low)**Campus: Shippensburg University****Deficiency Points by Category**

Building		Room	Cap	ASF	Ada Issue	Building Structure	General	Maint Issue	Room Issues	Tech Upgrade	Rm Def Points	Max Points	Percent Deficient	Room Hours
523	Shippen Hall	SPH160	28	760	3	5	0	0	7	0	15	106	14.2%	55.15
523	Shippen Hall	SPH150	28	755	6	7	0	0	6	0	19	106	17.9%	52.32
520	Gilbert Hall	GIL220	40	636	3	6	2	3	5	2	21	106	19.8%	52.05
523	Shippen Hall	SPH260	35	724	3	7	0	1	6	0	17	106	16.0%	50.49
523	Shippen Hall	SPH200	34	969	3	5	0	0	9	0	17	106	16.0%	49.64
520	Gilbert Hall	GIL240	40	587	3	10	2	2	7	0	24	106	22.6%	49.31
529	Grove Hall	GRH306	40	774	0	4	0	0	4	3	11	106	10.4%	49.31
520	Gilbert Hall	GIL230	40	609	3	6	2	2	7	2	22	106	20.8%	49.22
523	Shippen Hall	SPH220	40	880	6	5	0	1	9	0	21	106	19.8%	48.65
529	Grove Hall	GRH408	40	756	0	6	0	0	4	0	10	106	9.4%	47.24
531	Math & Comp Tech Bld	MCT265	40	826	0	4	0	0	1	0	5	106	4.7%	46.98
528	Wright Hall	WRI106	30	409	9	10	0	1	11	0	31	106	29.2%	46.40
529	Grove Hall	GRH308	40	776	0	6	0	0	3	3	12	106	11.3%	46.31
414	Ezra Lehman Library	LIB205	27	1,349	9	5	1	2	13	0	30	106	28.3%	45.39
523	Shippen Hall	SPH230	30	657	3	7	0	0	3	0	13	106	12.3%	44.16
523	Shippen Hall	SPH300	38	712	3	3	0	0	6	0	12	106	11.3%	43.74
526	Franklin Science Ctr	FSC228	40	697	6	7	0	0	0	0	13	106	12.3%	43.74
523	Shippen Hall	SPH320	42	764	3	5	0	0	3	0	11	106	10.4%	43.66
015	Faculty Office Bldg	FOB101	50	1,052	3	13	1	0	6	3	26	109	23.9%	43.65
526	Franklin Science Ctr	FSC226	40	749	3	9	0	0	3	0	15	106	14.2%	43.57
528	Wright Hall	WRI017	34	602	9	12	0	0	11	0	32	106	30.2%	43.47

Classroom Deficiency Points By Category (Ranked by Room Hours-High to Low)**Campus: Shippensburg University**

Campus: Shippensburg University					Deficiency Points by Category									
Building		Room	Cap	ASF	Ada Issue	Building Structure	General	Maint Issue	Room Issues	Tech Upgrade	Rm Def Points	Max Points	Percent Deficient	Room Hours
523	Shippen Hall	SPH250	30	755	3	7	0	0	3	0	13	106	12.3%	43.41
529	Grove Hall	GRH203	36	754	0	6	0	0	5	0	11	106	10.4%	43.22
529	Grove Hall	GRH206	36	774	0	6	0	0	6	0	12	106	11.3%	43.13
522	Shearer Hall	SRH107	42	724	0	9	0	0	3	0	12	106	11.3%	41.91
523	Shippen Hall	SPH340	42	764	3	5	0	0	5	0	13	106	12.3%	40.74
522	Shearer Hall	SRH109	40	558	3	9	0	0	3	0	15	106	14.2%	40.65
529	Grove Hall	GRH406	42	751	0	6	0	0	3	0	9	106	8.5%	40.65
521	Rowland Hall	RLH209	41	647	0	7	0	0	2	0	9	106	8.5%	40.57
529	Grove Hall	GRH303	36	755	0	6	0	0	5	0	11	106	10.4%	40.39
529	Grove Hall	GRH202	80	1,504	0	7	0	1	5	0	13	115	11.3%	40.31
526	Franklin Science Ctr	FSC312	41	798	6	7	0	0	5	0	18	106	17.0%	39.82
526	Franklin Science Ctr	FSC356	109	1,851	3	3	0	0	10	3	19	115	16.5%	39.81
526	Franklin Science Ctr	FSC156	109	1,745	6	3	0	0	8	0	17	115	14.8%	38.90
523	Shippen Hall	SPH370	35	895	6	5	0	0	5	0	16	106	15.1%	38.07
528	Wright Hall	WRI012	35	584	3	10	0	4	9	0	26	106	24.5%	37.81
521	Rowland Hall	RLH100	40	693	0	9	0	0	10	0	19	106	17.9%	37.81
528	Wright Hall	WRI016	35	616	3	6	0	0	10	0	19	106	17.9%	37.49
560	Memorial Auditorium	MEM100	40	1,230	3	6	1	2	11	0	23	106	21.7%	37.47
529	Grove Hall	GRH201	36	772	0	9	0	0	5	0	14	106	13.2%	37.47
529	Grove Hall	GRH208	36	776	0	6	0	0	5	0	11	106	10.4%	37.47
526	Franklin Science Ctr	FSC256	109	1,743	3	3	0	0	4	0	10	115	8.7%	35.82
523	Shippen Hall	SPH224	130	1,636	6	3	0	0	8	0	17	115	14.8%	35.73

Classroom Deficiency Points By Category (Ranked by Room Hours-High to Low)**Campus: Shippensburg University**

Campus: Shippensburg University					Deficiency Points by Category									
Building		Room	Cap	ASF	Ada Issue	Building Structure	General	Maint Issue	Room Issues	Tech Upgrade	Rm Def Points	Max Points	Percent Deficient	Room Hours
523	Shippen Hall	SPH380	35	764	3	5	0	0	7	0	15	106	14.2%	35.16
521	Rowland Hall	RLH200	150	2,391	0	1	0	0	9	0	10	115	8.7%	35.07
526	Franklin Science Ctr	FSC030	121	1,890	3	5	0	0	15	0	23	115	20.0%	34.98
520	Gilbert Hall	GIL210	46	545	3	9	2	4	12	0	30	106	28.3%	34.81
215	Heiges Field House	HFH220	40	1,193	9	8	1	0	1	0	19	106	17.9%	34.73
522	Shearer Hall	SRH202	36	903	0	5	0	0	11	0	16	103	15.5%	34.73
529	Grove Hall	GRH404	40	768	0	6	0	0	3	0	9	106	8.5%	34.66
531	Math & Comp Tech Bld	MCT258	40	668	0	5	0	0	4	0	9	106	8.5%	33.98
526	Franklin Science Ctr	FSC016	40	644	6	11	0	0	8	0	25	106	23.6%	33.15
526	Franklin Science Ctr	FSC336	40	800	6	5	0	0	4	0	15	106	14.2%	31.98
531	Math & Comp Tech Bld	MCT262	40	773	0	2	0	0	3	0	5	106	4.7%	31.32
018	Horton Hall	HOR020	25	463	6	11	2	0	10	2	31	106	29.2%	28.98
561	Performing Arts Ctr	PAC121	44	679	3	2	0	0	9	0	14	106	13.2%	28.90
525	Huber Arts Center	HAC301	106	1,819	6	2	0	1	12	3	24	115	20.9%	28.74
526	Franklin Science Ctr	FSC108	71	1,286	3	5	0	0	11	0	19	115	16.5%	28.32
521	Rowland Hall	RLH101	25	481	0	9	0	0	4	0	13	106	12.3%	26.41
521	Rowland Hall	RLH106	40	711	0	5	0	0	10	2	17	106	16.0%	26.32
215	Heiges Field House	HFH230	52	1,178	9	3	1	0	1	3	17	109	15.6%	26.32
018	Horton Hall	HOR022	29	516	9	10	2	1	13	0	35	106	33.0%	25.99
526	Franklin Science Ctr	FSC104	71	1,285	6	3	0	0	17	0	26	115	22.6%	23.49
522	Shearer Hall	SRH206	28	441	0	7	0	0	11	0	18	106	17.0%	22.99
522	Shearer Hall	SRH205	40	602	0	7	0	0	7	0	14	106	13.2%	22.81

Classroom Deficiency Points By Category (Ranked by Room Hours-High to Low)**Campus: Shippensburg University**

Campus: Shippensburg University						Deficiency Points by Category								
Building		Room	Cap	ASF	Ada Issue	Building Structure	General	Maint Issue	Room Issues	Tech Upgrade	Rm Def Points	Max Points	Percent Deficient	Room Hours
560	Memorial Auditorium	MEM210	40	804	12	10	0	2	6	2	32	106	30.2%	17.49
018	Horton Hall	HOR128	26	495	12	8	1	0	11	0	32	106	30.2%	17.25
526	Franklin Science Ctr	FSC012	15	620	6	5	0	0	13	0	24	106	22.6%	14.15
523	Shippen Hall	SPH110G	12	449	6	5	0	0	9	3	23	103	22.3%	13.60
120	Stewart Hall	STW200	53	873	12	15	2	4	15	3	51	109	46.8%	10.49
120	Stewart Hall	STW100	17	466	12	11	2	4	18	5	52	106	49.1%	8.00
414	Ezra Lehman Library	LIB016	24	513	6	2	0	0	11	0	19	106	17.9%	4.00
120	Stewart Hall	STW101	34	496	9	14	2	5	16	0	46	106	43.4%	
120	Stewart Hall	STW209	29	403	12	4	2	5	14	5	42	106	39.6%	
520	Gilbert Hall	GIL110	20	420	6	7	2	3	12	3	33	103	32.0%	
414	Ezra Lehman Library	LIB120A	24	497	12	9	1	0	11	0	33	106	31.1%	
520	Gilbert Hall	GIL001	20	293	3	11	1	0	12	0	27	106	25.5%	

Cost by Type of Work Required to Correct Classroom Deficiencies***Shippensburg University***

Type of Work	Number of Rooms	Area of Rooms	Capacity of Rooms	Est Cost
ADA Requirement				
Door Hardware: Add ADA hardware to door	50	41,995	2,245	\$34,500
Room Nums: Add ADA room numbers	19	16,215	826	\$3,400
No Solution or prohibitive cost	11	6,456	351	\$0
Total Cost		ADA Requirement		\$37,900
Building or Structure Issue				
Replace Door: Replace Door with metal/solid wood	11	6,318	312	\$10,500
Door Openings/Secondary Escape Route: Add Door Openings	2	1,925	103	\$3,000
No Solution or prohibitive cost	216	162,682	8,620	\$0
Total Cost		Building or Structure Issue		\$13,500
General				
No Solution or prohibitive cost	19	13,301	652	\$0
Total Cost		General		\$0
Maintenance				
Ceiling: Repair Ceiling	9	7,785	382	\$13,624
Wall: Repaint Walls	9	6,194	325	\$12,388
Floor: Replace Floor	9	5,035	319	\$11,329
Floor: Repair Floor	6	5,530	252	\$6,083
Wall: Repair and Repaint Walls	2	987	64	\$3,948
Ceiling: Replace Ceiling	1	496	34	\$1,240
Total Cost		Maintenance		\$48,612
Room Improvements				
Chalkboard: Add or replace chalkboard	42	35,164	1,863	\$40,480

Cost by Type of Work Required to Correct Classroom Deficiencies***Shippensburg University***

Type of Work	Number of Rooms	Area of Rooms	Capacity of Rooms	Est Cost
Seats: Replace tablet arm seats	7	4,553	226	\$36,450
Lighting: Rework lights to split or bank or add	29	19,223	976	\$29,000
Screen: Add or increase size of projection screen	21	19,437	1,130	\$15,750
Lighting: Add switch at the teaching station or door	20	14,085	723	\$10,500
Station: Install instructor station	18	12,696	726	\$9,000
Lighting: Replace or rework Lights	4	2,801	110	\$8,403
Station: Add podium	42	36,540	1,991	\$8,400
Seats: Replace 10% of fixed tab arms with left hand tab arms	3	5,339	327	\$6,600
Chalkboard: Move chalkboard	15	13,112	682	\$3,000
Tackboard: Add Tack Board	46	35,213	1,839	\$2,300
Seats: Replace 10% of tab arm seats with left hand tab arms	2	1,196	80	\$1,200
Seats: Remove row of fixed seats at front of room	2	2,571	142	\$1,000
Seats: Remove Seats	5	8,131	478	\$1,000
Move Projection Screen	10	8,300	354	\$1,000
Tack Strip: Add or replace tack strip	2	1,372	84	\$180
Task Light: Add task lighting to chalkboard	1	1,636	130	\$60
No Solution or prohibitive cost	1	2,391	150	\$0
Total Cost		Room Improvements		\$174,323
Technology Improvements				
AV: Add video projection system	7	4,092	231	\$35,000
AV: Add sound system	5	6,773	370	\$2,500
AV: Add computer connection	6	3,288	158	\$1,500
Total Cost		Technology Improvements		\$39,000
Total for Shippensburg University				\$313,335

Supplemental Classroom Condition Report

Bldg. No.	Building Name	Room No.	Room Has Clock	Room Has Simplex Clock	Room Has Thermostat
414	Ezra Lehman Library	LIB016	No	No	Yes
414	Ezra Lehman Library	LIB120A	No	No	Yes
414	Ezra Lehman Library	LIB120B	No	No	Yes
414	Ezra Lehman Library	LIB205	Yes	Yes	Yes
015	Faculty Office Bldg	FOB101	Yes	No	No
526	Franklin Science Ctr	FSC012	Yes	No	Yes
526	Franklin Science Ctr	FSC016	No	No	Yes
526	Franklin Science Ctr	FSC030	Yes	No	Yes
526	Franklin Science Ctr	FSC104	Yes	Yes	Yes
526	Franklin Science Ctr	FSC108	Yes	No	Yes
526	Franklin Science Ctr	FSC156	Yes	Yes	Yes
526	Franklin Science Ctr	FSC226	Yes	No	Yes
526	Franklin Science Ctr	FSC228	Yes	No	Yes
526	Franklin Science Ctr	FSC256	Yes	Yes	Yes
526	Franklin Science Ctr	FSC312	No	No	Yes
526	Franklin Science Ctr	FSC336	No	No	Yes
526	Franklin Science Ctr	FSC356	Yes	Yes	Yes
520	Gilbert Hall	GIL001	No	No	Yes
520	Gilbert Hall	GIL110	No	No	Yes
520	Gilbert Hall	GIL210	No	No	Yes
520	Gilbert Hall	GIL220	No	No	Yes
520	Gilbert Hall	GIL230	No	No	Yes
520	Gilbert Hall	GIL240	No	No	Yes
529	Grove Hall	GRH201	Yes	Yes	Yes
529	Grove Hall	GRH202	Yes	Yes	Yes
529	Grove Hall	GRH203	Yes	No	Yes
529	Grove Hall	GRH206	Yes	No	Yes
529	Grove Hall	GRH208	Yes	Yes	Yes
529	Grove Hall	GRH303	Yes	Yes	Yes

Bldg. No.	Building Name	Room No.	Room Has Clock	Room Has Simplex Clock	Room Has Thermostat
529	Grove Hall	GRH306	Yes	Yes	Yes
529	Grove Hall	GRH308	Yes	Yes	Yes
529	Grove Hall	GRH404	Yes	Yes	Yes
529	Grove Hall	GRH406	Yes	Yes	Yes
529	Grove Hall	GRH408	Yes	Yes	Yes
215	Heiges Field House	HFH220	Yes	Yes	Yes
215	Heiges Field House	HFH230	Yes	Yes	Yes
018	Horton Hall	HOR020	No	No	No
018	Horton Hall	HOR022	No	No	No
018	Horton Hall	HOR128	Yes	No	No
525	Huber Arts Center	HAC301	Yes	Yes	Yes
531	Math & Comp Tech Bld	MCT258	Yes	Yes	Yes
531	Math & Comp Tech Bld	MCT262	Yes	Yes	Yes
531	Math & Comp Tech Bld	MCT263	Yes	Yes	Yes
531	Math & Comp Tech Bld	MCT265	No	No	Yes
560	Memorial Auditorium	MEM100	Yes	Yes	Yes
560	Memorial Auditorium	MEM210	Yes	Yes	Yes
561	Performing Arts Ctr	PAC121	No	No	Yes
521	Rowland Hall	RLH100	No	No	Yes
521	Rowland Hall	RLH101	No	No	Yes
521	Rowland Hall	RLH106	No	No	Yes
521	Rowland Hall	RLH200	No	No	Yes
521	Rowland Hall	RLH209	Yes	No	Yes
522	Shearer Hall	SRH107	No	No	Yes
522	Shearer Hall	SRH109	No	No	Yes
522	Shearer Hall	SRH205	No	No	Yes
522	Shearer Hall	SRH206	No	No	Yes
523	Shippen Hall	SPH100	No	No	Yes
523	Shippen Hall	SPH120	No	No	Yes
523	Shippen Hall	SPH150	No	No	Yes
523	Shippen Hall	SPH160	No	No	Yes

Bldg. No.	Building Name	Room No.	Room Has Clock	Room Has Simplex Clock	Room Has Thermostat
523	Shippen Hall	SPH200	Yes	No	Yes
523	Shippen Hall	SPH220	Yes	No	Yes
523	Shippen Hall	SPH224	Yes	Yes	Yes
523	Shippen Hall	SPH230	Yes	No	Yes
523	Shippen Hall	SPH250	Yes	No	Yes
523	Shippen Hall	SPH260	Yes	No	Yes
523	Shippen Hall	SPH300	Yes	No	Yes
523	Shippen Hall	SPH320	Yes	No	Yes
523	Shippen Hall	SPH340	Yes	No	Yes
523	Shippen Hall	SPH370	Yes	No	Yes
523	Shippen Hall	SPH380	No	No	Yes
120	Stewart Hall	STW100	No	No	No
120	Stewart Hall	STW101	No	No	No
120	Stewart Hall	STW200	No	No	No
120	Stewart Hall	STW209	No	No	No
528	Wright Hall	WRI012	Yes	No	No
528	Wright Hall	WRI016	Yes	No	No
528	Wright Hall	WRI017	No	No	Yes
528	Wright Hall	WRI106	No	No	No

Shippensburg University – Class Laboratories

Class Lab Deficiencies Summary

Campus: 01 Shippensburg University

Number of Rooms Evaluated: 36

Def. Code	Description	Count
ADA Requirement		
A3D	Access: Doors do not have manual interior lock	35
A3B	Access: Doors do not have ADA hardware	31
A3C	Access: No ADA room numbers	10
A3	Access: Room is not hndcp accessible	7
A3A	Access: Door opening not ADA width	4
Building or Structure		
M1	Windows: No window security egress locks	31
A6	Access: Door not is not made of metal or solid wood	26
C2	Acoustic: Significant or Continuous Noise	14
A4	Access: No secondary escape route	10
C1A	Acoustic: Fair acoustics	3
A2	Access: Room is in suite; dead-end or secondary corridor	1
Maintenance		
K2A	Surface Conditions: Wall Condition is fair	6
K3A	Surface Conditions: Floor Condition is fair	5
K1A	Surface Conditions: Ceiling Condition is fair	4
K1B	Surface Conditions: Ceiling Condition is poor	2
Room Improvements		
F9	Teaching Surfaces: No Podium	34
F5	Teaching Surfaces: No Tackboard	26
F1A	Teaching Surfaces: Chalkboard Distance From Floor <36 or >42 Inches	25
F3	Teaching Surfaces: Room has no chartrail	20
F8	Teaching Surfaces: No instructor's station	20

Class Lab Deficiencies Summary

Campus: 01 Shippensburg University

Number of Rooms Evaluated:

Def. Code	Description	Count
F6	Screens: Room has no projection screens	19
D1	Lighting: Lights can not be banked, split or dimmed	16
F2	Teaching Surfaces: Chalkboards have no chalk trays	12
F8A	Teaching Station Not ADA Compliant	3
D3	Lighting: There is no light switch near the teaching station	2
F6A	Teaching Surfaces: Projection screen covers board	1
F4A	Teaching Surfaces: Chalkboard is in fair condition	1
F1	Teaching Surfaces: Insufficient chalkboard length (16' for rooms < 800 ASF; 20 ' for	1
F4C	Teaching Surfaces: Chalkboard has poor contrast	1
Technology		
H1	AV: Room has no computer connection	34
Count of Deficiencies Shippensburg University		404
Count of Deficiencies		404

Shippensburg University – Teaching Laboratories

Class Lab Deficiency Points By Category (Ranked by Total Deficiencies-High to Low)

Campus: Shippensburg University

Campus: Shippensburg University					Deficiency Points by Category									
Building		Room	Cap	ASF	Ada Issue	Building Structure	General	Maint Issue	Room Issues	Tech Upgrade	Rm Def Points	Max Points	Percent Deficient	Room Hours
525	Huber Arts Center	HAC207	15	1,498	9	8	0	3	13	3	36	103	35.0%	11.68
525	Huber Arts Center	HAC121	15	1,028	16	8	0	0	8	3	35	103	34.0%	8.00
526	Franklin Science Ctr	FSC324	20	1,459	16	8	0	0	7	3	34	103	33.0%	20.44
120	Stewart Hall	STW106	40	358	16	0	0	3	11	3	33	103	32.0%	
120	Stewart Hall	STW202	40	395	16	2	0	0	11	3	32	103	31.1%	
524	Huber Art Annex	HAA100	15	1,133	3	11	0	2	11	3	30	103	29.1%	10.83
120	Stewart Hall	STW204	40	617	12	0	0	3	11	3	29	103	28.2%	15.00
525	Huber Arts Center	HAC309	15	1,086	9	8	0	0	9	3	29	103	28.2%	2.83
526	Franklin Science Ctr	FSC308	16	897	6	7	0	0	13	3	29	103	28.2%	
526	Franklin Science Ctr	FSC334	20	1,307	6	10	0	0	10	3	29	103	28.2%	15.01
525	Huber Arts Center	HAC119	5	748	9	4	0	2	11	3	29	103	28.2%	
526	Franklin Science Ctr	FSC318	20	1,285	6	10	0	0	9	3	28	103	27.2%	9.00
526	Franklin Science Ctr	FSC328	16	1,300	6	7	0	2	10	3	28	103	27.2%	3.50
526	Franklin Science Ctr	FSC316	16	897	6	7	0	0	11	3	27	103	26.2%	3.00
526	Franklin Science Ctr	FSC206	16	1,031	9	7	0	0	8	3	27	103	26.2%	12.00
522	Shearer Hall	SRH203	12	259	3	6	0	0	13	3	25	103	24.3%	
522	Shearer Hall	SRH002	23	449	6	0	0	3	13	3	25	103	24.3%	
526	Franklin Science Ctr	FSC202	20	1,035	6	7	0	0	8	3	24	103	23.3%	4.00
526	Franklin Science Ctr	FSC218	8	648	6	4	0	0	9	3	22	103	21.4%	
522	Shearer Hall	SRH201	18	360	3	2	0	0	13	3	21	103	20.4%	
526	Franklin Science Ctr	FSC110	16	971	9	4	0	0	4	3	20	103	19.4%	11.92

Class Lab Deficiency Points By Category (Ranked by Total Deficiencies-High to Low)**Campus: Shippensburg University**

Campus: Shippensburg University					Deficiency Points by Category									
Building		Room	Cap	ASF	Ada Issue	Building Structure	General	Maint Issue	Room Issues	Tech Upgrade	Rm Def Points	Max Points	Percent Deficient	Room Hours
526	Franklin Science Ctr	FSC140	24	1,019	6	7	0	0	4	3	20	103	19.4%	6.00
526	Franklin Science Ctr	FSC210	12	689	6	4	0	0	7	3	20	103	19.4%	2.00
526	Franklin Science Ctr	FSC242	24	1,019	6	7	0	0	4	3	20	103	19.4%	4.00
526	Franklin Science Ctr	FSC342	16	1,027	6	7	0	0	4	3	20	103	19.4%	6.92
561	Performing Arts Ctr	PAC235	20	1,019	3	5	0	0	8	3	19	103	18.4%	17.34
526	Franklin Science Ctr	FSC208	16	904	6	4	0	0	6	3	19	103	18.4%	4.00
526	Franklin Science Ctr	FSC214	20	769	6	4	0	0	6	3	19	103	18.4%	4.67
526	Franklin Science Ctr	FSC150	24	1,027	6	4	0	0	6	3	19	103	18.4%	8.00
523	Shippen Hall	SPH120	25	739	6	5	0	0	8	0	19	106	17.9%	38.84
526	Franklin Science Ctr	FSC134	25	1,017	6	4	0	0	3	3	16	103	15.5%	22.00
523	Shippen Hall	SPH100	38	733	6	5	0	1	4	0	16	106	15.1%	28.09
526	Franklin Science Ctr	FSC132	24	1,017	6	4	0	0	2	3	15	103	14.6%	10.00
526	Franklin Science Ctr	FSC230	28	1,154	6	4	0	0	2	3	15	103	14.6%	13.68
526	Franklin Science Ctr	FSC238	24	1,025	6	4	0	0	2	3	15	103	14.6%	10.00
526	Franklin Science Ctr	FSC246	24	1,029	6	4	0	0	1	3	14	103	13.6%	6.00

Shippensburg University – Teaching Laboratories

Class Lab Deficiency Points By Category (Ranked by Room Hours-High to Low)

Campus: Shippensburg University

Campus: Shippensburg University					Deficiency Points by Category									
Building		Room	Cap	ASF	Ada Issue	Building Structure	General	Maint Issue	Room Issues	Tech Upgrade	Rm Def Points	Max Points	Percent Deficient	Room Hours
523	Shippen Hall	SPH120	25	739	6	5	0	0	8	0	19	106	17.9%	38.84
523	Shippen Hall	SPH100	38	733	6	5	0	1	4	0	16	106	15.1%	28.09
526	Franklin Science Ctr	FSC134	25	1,017	6	4	0	0	3	3	16	103	15.5%	22.00
526	Franklin Science Ctr	FSC324	20	1,459	16	8	0	0	7	3	34	103	33.0%	20.44
561	Performing Arts Ctr	PAC235	20	1,019	3	5	0	0	8	3	19	103	18.4%	17.34
526	Franklin Science Ctr	FSC334	20	1,307	6	10	0	0	10	3	29	103	28.2%	15.01
120	Stewart Hall	STW204	40	617	12	0	0	3	11	3	29	103	28.2%	15.00
526	Franklin Science Ctr	FSC230	28	1,154	6	4	0	0	2	3	15	103	14.6%	13.68
526	Franklin Science Ctr	FSC206	16	1,031	9	7	0	0	8	3	27	103	26.2%	12.00
526	Franklin Science Ctr	FSC110	16	971	9	4	0	0	4	3	20	103	19.4%	11.92
525	Huber Arts Center	HAC207	15	1,498	9	8	0	3	13	3	36	103	35.0%	11.68
524	Huber Art Annex	HAA100	15	1,133	3	11	0	2	11	3	30	103	29.1%	10.83
526	Franklin Science Ctr	FSC132	24	1,017	6	4	0	0	2	3	15	103	14.6%	10.00
526	Franklin Science Ctr	FSC238	24	1,025	6	4	0	0	2	3	15	103	14.6%	10.00
526	Franklin Science Ctr	FSC318	20	1,285	6	10	0	0	9	3	28	103	27.2%	9.00
525	Huber Arts Center	HAC121	15	1,028	16	8	0	0	8	3	35	103	34.0%	8.00
526	Franklin Science Ctr	FSC150	24	1,027	6	4	0	0	6	3	19	103	18.4%	8.00
526	Franklin Science Ctr	FSC342	16	1,027	6	7	0	0	4	3	20	103	19.4%	6.92
526	Franklin Science Ctr	FSC140	24	1,019	6	7	0	0	4	3	20	103	19.4%	6.00
526	Franklin Science Ctr	FSC246	24	1,029	6	4	0	0	1	3	14	103	13.6%	6.00
526	Franklin Science Ctr	FSC214	20	769	6	4	0	0	6	3	19	103	18.4%	4.67

Class Lab Deficiency Points By Category (Ranked by Room Hours-High to Low)**Campus: Shippensburg University**

Campus: Shippensburg University					Deficiency Points by Category									
Building		Room	Cap	ASF	Ada Issue	Building Structure	General	Maint Issue	Room Issues	Tech Upgrade	Rm Def Points	Max Points	Percent Deficient	Room Hours
526	Franklin Science Ctr	FSC202	20	1,035	6	7	0	0	8	3	24	103	23.3%	4.00
526	Franklin Science Ctr	FSC242	24	1,019	6	7	0	0	4	3	20	103	19.4%	4.00
526	Franklin Science Ctr	FSC208	16	904	6	4	0	0	6	3	19	103	18.4%	4.00
526	Franklin Science Ctr	FSC328	16	1,300	6	7	0	2	10	3	28	103	27.2%	3.50
526	Franklin Science Ctr	FSC316	16	897	6	7	0	0	11	3	27	103	26.2%	3.00
525	Huber Arts Center	HAC309	15	1,086	9	8	0	0	9	3	29	103	28.2%	2.83
526	Franklin Science Ctr	FSC210	12	689	6	4	0	0	7	3	20	103	19.4%	2.00
120	Stewart Hall	STW106	40	358	16	0	0	3	11	3	33	103	32.0%	
120	Stewart Hall	STW202	40	395	16	2	0	0	11	3	32	103	31.1%	
526	Franklin Science Ctr	FSC308	16	897	6	7	0	0	13	3	29	103	28.2%	
525	Huber Arts Center	HAC119	5	748	9	4	0	2	11	3	29	103	28.2%	
522	Shearer Hall	SRH203	12	259	3	6	0	0	13	3	25	103	24.3%	
522	Shearer Hall	SRH002	23	449	6	0	0	3	13	3	25	103	24.3%	
526	Franklin Science Ctr	FSC218	8	648	6	4	0	0	9	3	22	103	21.4%	
522	Shearer Hall	SRH201	18	360	3	2	0	0	13	3	21	103	20.4%	

Cost by Type of Work Required to Correct Class Lab Deficiency***Shippensburg University***

Type of Work	Number of Rooms	Area of Rooms	Capacity of Rooms	Est Cost
ADA Requirement				
Door Hardware: Add ADA hardware to door	36	32,449	707	\$23,500
Door Width: Increase door width	4	3,240	75	\$3,000
Room Nums: Add ADA room numbers	10	9,353	181	\$1,000
No Solution or prohibitive cost	7	5,277	154	\$0
Total Cost		ADA Requirement		\$27,500
Building or Structure Issue				
Replace Door: Replace Door with metal/solid wood	26	25,830	504	\$26,250
Door Openings/Secondary Escape Route: Add Door Openings	10	11,441	180	\$15,000
No Solution or prohibitive cost	50	50,022	937	\$0
Total Cost		Building or Structure Issue		\$41,250
Maintenance				
Wall: Repaint Walls	6	4,803	98	\$9,606
Ceiling: Repair Ceiling	4	3,312	83	\$5,796
Floor: Repair Floor	5	4,430	131	\$4,873
Ceiling: Replace Ceiling	2	1,658	16	\$4,145
Total Cost		Maintenance		\$24,420
Room Improvements				
Lighting: Rework lights to split or bank or add	17	15,475	344	\$17,000
Screen: Add or increase size of projection screen	19	15,834	336	\$14,250
Station: Install instructor station	20	16,779	342	\$10,000
Station: Add podium	35	32,110	659	\$7,000
Chalkboard: Move chalkboard	24	20,747	418	\$4,800

Cost by Type of Work Required to Correct Class Lab Deficiency***Shippensburg University***

Type of Work	Number of Rooms	Area of Rooms	Capacity of Rooms	Est Cost
Chalkboard: Add or replace chalkboard	2	1,764	49	\$1,980
Tackboard: Add Tack Board	27	23,768	495	\$1,350
Lighting: Add switch at the teaching station or door	2	1,472	63	\$1,000
Move Projection Screen	2	1,934	28	\$200
No Solution or prohibitive cost	3	3,892	56	\$0
Tack Strip: Add or replace tack strip	3	3,449	60	
Total Cost		Room Improvements		\$57,580
Technology Improvements				
AV: Add computer connection	35	32,110	659	\$8,750
Total Cost		Technology Improvements		\$8,750
Total for Shippensburg University				\$159,500