

2011-13 CLASSROOM / INSTRUCTIONAL TECHNOLOGY PROPOSAL

Institution UW - Milwaukee
Project Title: Campus Active Learning Center
Project Priority: #1

Funding:

Classroom/IT Program Funds (Capital Budget):	\$ 1,607,500
Classroom Modernization Funds (Operating Budget):	153,000
Institutional Funds:	252,000
Gifts	0
Grants	0
Total Project Cost:	\$ 2,012,500

Project Location:

Building Name: Northwest Quadrant
Facility Number: 1932B
Room Number(s): Part of 1405-1497

of Hours Scheduled/Week:
(highest use--Spring 2010 or Fall 2011)

Closest comparable space:
Bolton 289, 36.8 Hrs/Wk, Fall 2011

Project Goals/Justification:

The Campus Master Plan projected a classroom shortage of 31,000 asf by 2017. Classroom utilization continues to show constant demand averaging between 40 and 41 hours per week of scheduled use for the current 158 general assignment classrooms during the last six years. The Space Planning Committee identified a teaching/learning theme for the development of the Northwest Quadrant to help address the classroom shortage and instructional technology gap. A pre-design planning group listed the creation of a cooperative learning environment as it top priority. This will encourage students to collaborate with peers and increase interaction between instructor and student. The process of active learning will allow instructors to coach students during activities by assisting them in answering their own questions. Students will be able to present their results to classmates for peer review and immediate feedback. No classrooms currently exist on campus that can facilitate the frequent faculty requests to utilize cooperative learning techniques. Providing a cluster of active learning classrooms in one location will further facilitate the interdisciplinary utilization of this space. Campus funds will supplement the budget to provide adequate funding for furniture and audio-visual equipment.

If prior Classroom/IT Program funding was received for a classroom now being requested, include a brief description of what was done, when, and why funding is being sought a second time. N/A

Project Scope: Assignable Square Feet (ASF): Current 0 Proposed 7,200

Creation of the active learning center will require a complete reconfiguring and new finishes of existing spaces designated in the proposed teaching and learning spaces in the NWQ. The rooms will be designed to foster an interactive, student centered learning experience and operate using student laptops. New group size tables for groups of six to eight students will have switchable laptop technology, multi scene lighting, multiple flat panel monitors and display projection systems. A centered teaching station allows the instructor to select and display table specific information on a central screen(s) and continuous writing surface on all perimeter walls (no windows). Room sizes and capacities include:

- 1 Large Active Learning for 48 (1200 asf each)
- 2 Medium Active Learning for 36 (900 asf each)
- 2 Regular Active Learning for 24 (750 asf each)
- 2 Active Learning Support Space (250 asf each)
- 1 Large Computer Classroom for 36 students (1500 asf each)
- 1 Medium Computer Classroom for 24 (700 asf each)

Floor Plan: See attached plan are of Northwest Quadrant Building B. Alternate site Building C

Data Connection: The pending NWQ Fire Alarm, Telecom, and Security Upgrades project will establish the data backbone that this project will connect to.

Technology Level: Current: N/A Proposed : Active Learning Classroom

Technology Level Definitions:

- **Level 1:** Basic classroom containing chalkboard or marker board; projection screen; overhead projector; lighting fixtures switched in groups; darkening shades; voice and data connections; podium, cart or lectern. These rooms are “portable ready” implying that any combination of portable equipment could be brought into the room.
- **Level 2:** Classroom with all the features of Level 1 plus traditional instructional technology, such as VCR, TV, sound system, DVD player, CD player, etc. Room lighting shall be appropriate for note-taking during video presentations.
- **Level 3:** Classrooms with all the features of Level 2 plus video/data projector and a teaching station with nearby access to controls for all A/V equipment, room lighting and room sound system. Wired network connectivity at each fixed seat or fixed table student station may be included in this category.
- **Level 3+:** Classrooms with all the features of Level 3 plus a teaching station with an electronic touch screen for control of all A/V and room functions. Can also include digital recording capabilities to record lectures for selective viewing at a later time.
- **Distance Learning Level:** Classrooms equipped with a two-way video system to support distance education.
- **Active Learning Classroom:** Classrooms furnished and equipped with multiple computerized learning pods and a portable computerized teaching station that enables the instructor to electronically connect to any/all of the connected learning pods.

Room Type:

Current : Vacant Proposed : A

Classrooms are categorized as Type A (functional) or Type B (substandard) instructional spaces. Reasoning for identifying an instructional space as a Type B may be based on a single issue or any combination of issues as identified below. Check the first column of all appropriate codes that apply to current conditions; check the second column if the proposal will correct the issue.

Room Type B Codes:

- | | | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | Using the 25 SF/student standard, classroom capacity is reduced to an unusable size |
| <input type="checkbox"/> | <input type="checkbox"/> | Poor aspect ratio |
| <input type="checkbox"/> | <input type="checkbox"/> | Insufficient ceiling height |
| <input type="checkbox"/> | <input type="checkbox"/> | Irregular classroom shape or poor configuration |
| <input type="checkbox"/> | <input type="checkbox"/> | Column or other sight-line interference |
| <input type="checkbox"/> | <input type="checkbox"/> | Inadequate exiting for existing room capacity |
| <input type="checkbox"/> | <input type="checkbox"/> | Inadequate access for those with disabilities |
| <input type="checkbox"/> | <input type="checkbox"/> | HVAC system deficiencies |
| <input type="checkbox"/> | <input type="checkbox"/> | Below-grade moisture or dampness problems |
| <input type="checkbox"/> | <input type="checkbox"/> | Noise or vibration from adjacent spaces |
| <input type="checkbox"/> | <input type="checkbox"/> | Inadequate space available for instructor console |
| <input type="checkbox"/> | <input type="checkbox"/> | Other (please define) |

Seating Capacity:

Current :N/A

Proposed :See Project Scope

Existing Seating Arrangement

Fixed?	Yes _____	No <u>NA</u> _____
Tablet Arms?	Yes _____	No <u>NA</u> _____
Fixed Tables?	Yes _____	No <u>NA</u> _____
Non-Fixed Tables?	Yes _____	No <u>NA</u> _____

Reuse Existing?Yes _____ No X_____**Proposed Seating Arrangement (if not reusing existing)**

Fixed?	Yes _____	No <u>X</u> _____
Tablet Arms?	Yes _____	No <u>X</u> _____
Fixed Tables?	Yes _____	No <u>X</u> _____
Non-Fixed Tables?	Yes <u>X</u> _____	No _____

Existing FloorTiered? Yes _____ No X_____**Proposed Floor**Tiered? Yes _____ No X_____**AV Consultant:**Yes _____ No X_____

(If “Yes” is checked, indicate why an AV consultant is needed.)

Link to Classroom Demand Analysis:

Form (to be provided separately)

Project Budget: Use project budget worksheet provided separately.

Project Schedule:

Space is currently off line

	(Month/Year)
Bid Date:	1/1/2013
Construction Start	3/1/2013
Completion Date:	1/1/2014

Please complete the following:

- | | YES | NO | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. Are hazardous materials involved (i.e., asbestos, lead paint, PCB ballasts, etc.)? If yes, identify the materials and indicate how they will be handled. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

WALMS Report indicates ACM in flooring/mastic.

- | | YES | NO | N/A |
|---|-------------------------------------|--------------------------|--------------------------|
| 2. Will the project impact the utility systems in the building and cause disruptions? If yes, to what extent? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Project will require redistribution of mechanical and electrical systems.

- | | YES | NO | N/A |
|--|--------------------------|-------------------------------------|--------------------------|
| 3. Will the construction work be limited to a particular season or window of opportunity? If yes, explain the limitations and provide proposed resolution. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Required Attachments being submitted with this proposal (check appropriate boxes):

- Supporting Budget Information (DSF Budget Worksheet, consultant's estimate, etc.)
- Itemized Movable Equipment List
- Itemized Fixed Equipment List
- Floor Plan (PDF format)

Prepared by: Kurt Young Binter

Phone: (414) 229-2361

E-Mail Address: youngbin@uwm.edu

Date: 15 February 2012

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Tablet Arms?	Yes _____	No <input type="checkbox"/> NA_____
Fixed Tables?	Yes _____	No <input type="checkbox"/> NA_____
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Tablet Arms?	Yes _____	No <input checked="" type="checkbox"/> X_____
Fixed Tables?	Yes _____	No <input checked="" type="checkbox"/> X_____
Non-Fixed Tables?	Yes <input checked="" type="checkbox"/> X_____	No _____

Existing FloorTiered? Yes _____ No X_____**Proposed Floor**Tiered? Yes _____ No X_____**AV Consultant:**

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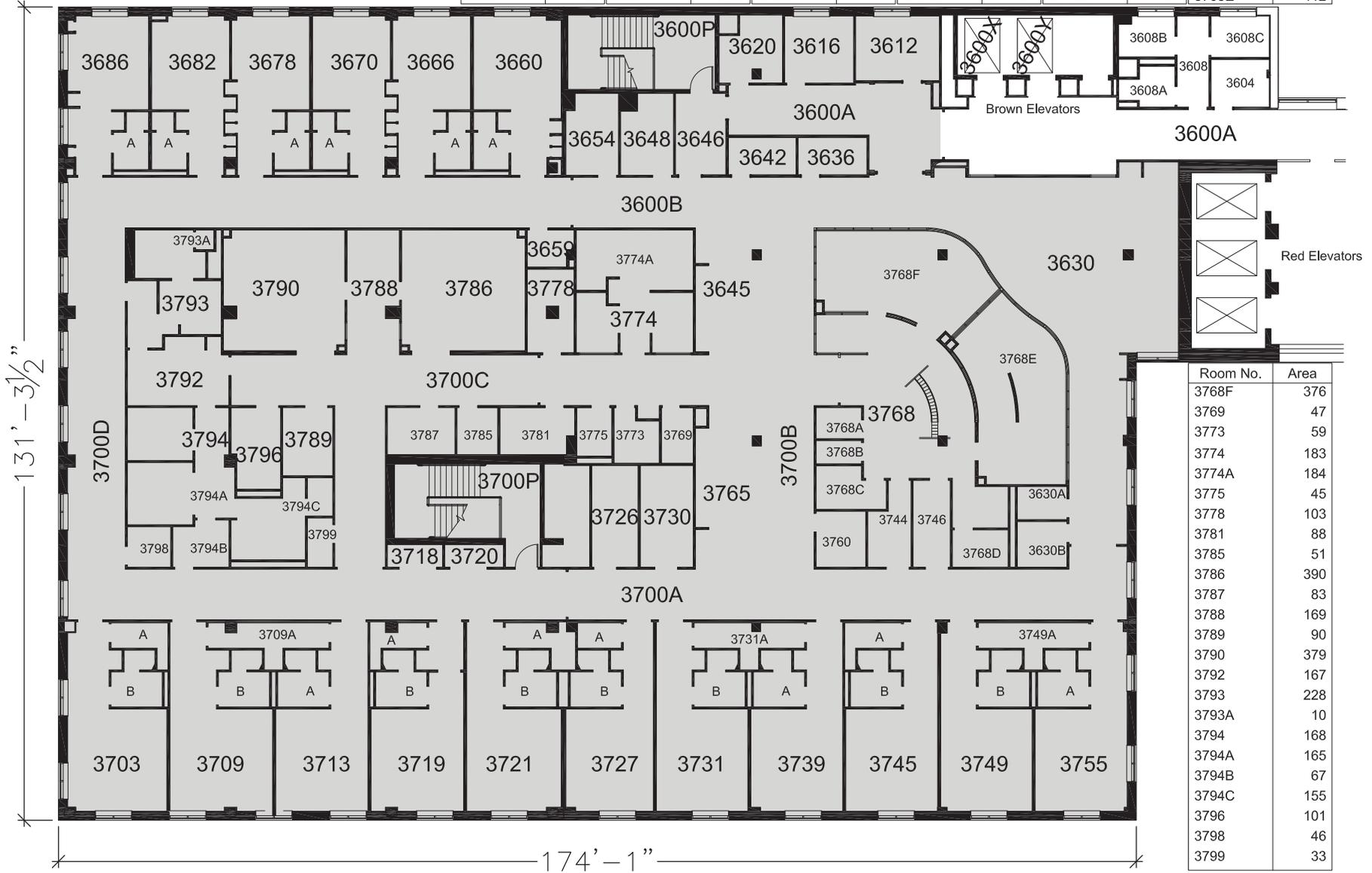
Date: 15 February 2012

NORTHWEST QUADRANT
BUILDING - C
FLOOR 3

Revised: 03/11/2011



Room No.	Area										
3600A	889	3630A	43	3670A	47	3703B	64	3726	124	3746	86
3600B	1140	3630B	59	3678	256	3709	377	3727	307	3749	329
3600P	287	3636	68	3678A	47	3709A	88	3727A	30	3749A	85
3600X	50	3642	67	3682	254	3709B	64	3727B	64	3749B	64
3600Y	50	3645	118	3682A	47	3713	338	3730	142	3755	333
3604	73	3646	108	3686	266	3713A	64	3731	332	3755A	64
3608	80	3648	106	3686A	47	3718	34	3731A	83	3760	73
3608A	49	3654	109	3700A	1432	3719	331	3731B	64	3765	159
3608B	57	3659	44	3700B	569	3719A	42	3739	333	3768	553
3608C	62	3660	292	3700C	853	3719B	64	3739A	64	3768A	37
3612	141	3660A	47	3700D	507	3720	36	3744	83	3768B	28
3616	121	3666	256	3700P	309	3721	341	3745	329	3768C	71
3620	102	3666A	47	3703	362	3721A	56	3745A	44	3768D	55
3630	1192	3670	256	3703A	44	3721B	64	3745B	64	3768E	412



Room No.	Area
3768F	376
3769	47
3773	59
3774	183
3774A	184
3775	45
3778	103
3781	88
3785	51
3786	390
3787	83
3788	169
3789	90
3790	379
3792	167
3793	228
3793A	10
3794	168
3794A	165
3794B	67
3794C	155
3796	101
3798	46
3799	33

UW-MILWAUKEE COST BREAKDOWN

Shared Active Learning - Large

1 of 1, total

Estimated Costs Include Installation

4. Movable Equipment

	Unit \$	QTY	Total
Instructor Tables [24x60, castors]	\$ 500	1	\$ 500
Instructor Chair [armless, castors]	\$ 275	1	\$ 275
Active Learning Table	\$ 12,000	6	\$ 72,000
Classroom Stools [armless, castors]	\$ 275	48	\$ 13,200
<hr/>			
Total		1 Classrm	\$ 85,975

5. Fixed Equipment - Audio Visual

	Unit \$	QTY	Total
Video Projector Classroom	\$ 4,000	2	\$ 8,000
Video Projector Lifts	\$ 5,000	2	\$ 10,000
Touch Screen Control System	\$ 17,500	1	\$ 17,500
Table Controller	\$ 2,500	6	\$ 15,000
Audio System Classroom	\$ 3,000	1	\$ 3,000
DVD & Document Camera	\$ 3,000	1	\$ 3,000
Dual LCD Monitors	\$ 2,500	6	\$ 15,000
Classroom Projection Screen	\$ 2,500	2	\$ 5,000
Computer and Monitor	\$ 1,500	1	\$ 1,500
<hr/>			
Total		1 Classrm	\$ 78,000

5. Fixed Equipment - Furnishings

	Unit \$	QTY	Total
Teaching Consoles	\$ 4,000	1	\$ 4,000
Classroom White Boards	\$ 600	8	\$ 4,800
<hr/>			
Total		1 Classrm	\$ 8,800

Room Total= \$172,775

UW-MILWAUKEE COST BREAKDOWN
Shared Active Learning - Medium
Estimated Costs Include Installation

1 of 2, total

4. Movable Equipment	Unit \$	QTY	Total
Instructor Tables [24x60, castors]	\$ 500	1	\$ 500
Instructor Chair [armless, castors]	\$ 275	1	\$ 275
Active Learning Table	\$ 12,000	6	\$ 72,000
Classroom Stools [armless, castors]	\$ 275	48	\$ 13,200
Total		1 Classrm	\$ 85,975

5. Fixed Equipment - Audio Visual	Unit \$	QTY	Total
Video Projector Classroom	\$ 4,000	1	\$ 4,000
Video Projector Lifts	\$ 5,000	1	\$ 5,000
Touch Screen Control System	\$ 17,500	1	\$ 17,500
Table Controller	\$ 2,500	6	\$ 15,000
Audio System Classroom	\$ 3,000	1	\$ 3,000
DVD & Document Camera	\$ 3,000	1	\$ 3,000
Dual LCD Monitors	\$ 2,500	6	\$ 15,000
Classroom Projection Screen	\$ 2,500	1	\$ 2,500
Computer and Monitor	\$ 1,500	1	\$ 1,500
Total		1 Classrm	\$ 66,500

5. Fixed Equipment - Furnishings	Unit \$	QTY	Total
Teaching Consoles	\$ 4,000	1	\$ 4,000
Classroom White Boards	\$ 600	6	\$ 3,600
Total		1 Classrm	\$ 7,600

Room Total= \$160,075

UW-MILWAUKEE COST BREAKDOWN

Shared Active Learning - Regular

1 of 2, total

Estimated Costs Include Installation

4. Movable Equipment	Unit \$	QTY	Total
Instructor Tables [24x60, castors]	\$ 500	1	\$ 500
Instructor Chair [armless, castors]	\$ 275	1	\$ 275
Active Learning Table	\$ 12,000	4	\$ 48,000
Classroom Stool [armless, castors]	\$ 275	24	\$ 6,600
Total		1 Classrm	\$ 55,375

5. Fixed Equipment - Audio Visual	Unit \$	QTY	Total
Video Projector Classroom	\$ 4,000	1	\$ 4,000
Video Projector Lifts	\$ 5,000	1	\$ 5,000
Touch Screen Control System	\$ 17,500	1	\$ 17,500
Table Controller	\$ 2,500	4	\$ 10,000
Audio System Classroom	\$ 3,000	1	\$ 3,000
DVD & Document Camera	\$ 3,000	1	\$ 3,000
Dual LCD Monitors	\$ 2,500	4	\$ 10,000
Classroom Projection Screen	\$ 2,500	1	\$ 2,500
Computer and Monitor	\$ 1,500	1	\$ 1,500
Total		1 Classrm	\$ 56,500

5. Fixed Equipment - Furnishings	Unit \$	QTY	Total
Teaching Consoles	\$ 4,000	1	\$ 4,000
Classroom White Boards	\$ 600	6	\$ 3,600
Total		1 Classrm	\$ 7,600

Room Total= \$119,475

UW-MILWAUKEE COST BREAKDOWN

Shared Active Learning Support

1 of 1, total

Estimated Costs Include Installation

4. Movable Equipment	Unit \$	QTY	Total
<hr/>			
Total		1 Classrm	\$ -
<hr/>			
5. Fixed Equipment - Audio Visual	Unit \$	QTY	Total
<hr/>			
Total		1 Classrm	\$ -
<hr/>			
5. Fixed Equipment - Furnishings	Unit \$	QTY	Total
Base Cabinets and Counter [25 LnFt]	\$ 500	25	\$ 12,500
<hr/>			
Total		1 Classrm	\$ 12,500
<hr/>			
Room Total=			<u>\$ 12,500</u>

UW-MILWAUKEE COST BREAKDOWN

Shared Active Learning Computer Classroom - Large

1 of 1, total

Estimated Costs Include Installation

4. Movable Equipment

	Unit \$	QTY	Total
Instructor Tables [24x60, castors]	\$ 500	1	\$ 500
Instructor Chair [armless, castors]	\$ 275	1	\$ 275
Classroom Table [24x72, power]	\$ 500	18	\$ 9,000
Classroom Chair [armless, castors]	\$ 225	36	\$ 8,100
Total		1 Classrm	\$ 17,875

5. Fixed Equipment - Audio Visual

	Unit \$	QTY	Total
Video Projector Classroom	\$ 4,000	2	\$ 8,000
Video Projector Lifts	\$ 5,000	2	\$ 10,000
Audio System Classroom	\$ 3,000	1	\$ 3,000
DVD & Document Camera	\$ 3,000	1	\$ 3,000
Classroom Projection Screen	\$ 2,500	2	\$ 5,000
Total		1 Classrm	\$ 29,000

5. Fixed Equipment - Furnishings

	Unit \$	QTY	Total
Classroom White Boards	\$ 600	6	\$ 3,600
Total		1 Classrm	\$ 3,600

Room Total= \$ 50,475

UW-MILWAUKEE COST BREAKDOWN

Shared Active Learning Computer Classroom - Medium

1 of 1, total

Estimated Costs Include Installation

4. Movable Equipment	Unit \$	QTY	Total
Instructor Tables [24x60, castors]	\$ 500	1	\$ 500
Instructor Chair [armless, castors]	\$ 275	1	\$ 275
Classroom Table [24x72, power]	\$ 500	12	\$ 6,000
Classroom Chair [armless, castors]	\$ 225	24	\$ 5,400
Total		1 Classrm	\$ 12,175

5. Fixed Equipment - Audio Visual	Unit \$	QTY	Total
Video Projector Classroom	\$ 4,000	1	\$ 4,000
Video Projector Lifts	\$ 5,000	1	\$ 5,000
Audio System Classroom	\$ 3,000	1	\$ 3,000
DVD & Document Camera	\$ 3,000	1	\$ 3,000
Classroom Projection Screen	\$ 2,500	1	\$ 2,500
Total		1 Classrm	\$ 17,500

5. Fixed Equipment - Furnishings	Unit \$	QTY	Total
Teaching Consoles	\$ 2,000	1	\$ 2,000
Classroom White Boards	\$ 600	6	\$ 3,600
Total		1 Classrm	\$ 5,600

Room Total= \$ 35,275