8.0 Facilities Utilization and Space Program

INTRODUCTION

This chapter describes Ventura College's facilities needs. This description is based on the following:

1. An Educational Master Plan was developed by The JCM Group, Inc. in collaboration with Ventura College. This Plan identified existing and future space needs.

2. Space needs identified in the Educational Master Plan were compared to the existing space inventory and allocations, together with observations of remaining service life and maintenance associated with the existing inventory.

3. Space needs were then allocated to existing and proposed buildings and broken into phases

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FACILITIES NEEDS ANALYSIS

The Facilities Needs Analysis prepared by the JCM Group provides a set of space categories to guide the future development of the campus. The space categories and square footages assigned to these categories are based on Title 5 of the California Code of Regulations, Sections 57000 through 57033.

The table below summarizes the results of the Facilities Needs Analysis process in terms of space categories and square footages. Column A indicates the College's current inventory of spaces on March 28, 2003. Column B indicates the required square footages for each space category in the Fall of 2008. Column C indicates the required square footages for each space category in the Fall of 2015.

This projection of space needs can be adjusted as new facilities come into use and existing facilities are changed or removed from service.

There are a number of specific factors that influence Ventura College's divergence of approach to this Facilities Needs Analysis. For example, the College responds to the needs of local employers by expanding programs that provide skills in their specific areas. Also, the College schedules classes to maximize offerings during peak attendance times rather than spread across the day/evening to maximize classroom utilization. This is a response to specific student demographics based on long-term experience. As a result, the College has more space than can be justified under the Facilities Needs Analysis and the resulting lower utilization rates. This deliberate strategy has been set with an awareness of State funding policies, operating costs, and other associated challenges.

From the JCM Group's Educational Master Plan, Facilities Needs Analysis dated March 28, 2003

Room Use Description	Room Use Codes	Fall 2002 Current Inventory	Fall 2008 Total ASF	Additional ASF	Fall 2015 Total ASF	Additional ASF Needed
Lecture/Classroom	100	48,460	39,353	-9,107	38,680	-9,780
Laboratory	210-215	85,861	115,019	29,158	124,552	38,691
Non-Classroom Laboratory	220-255	21,123	8,544	-12,579	10,171	-10,952
Office	300	40,640	51,811	11,171	60,150	19,510
Library	400	15,785	36,165	20,380	40,188	24,403
Physical Education	520-525	49,157	28,469	-20,688	33,076	-16,081
Instructional Media	530-535	2,936	6,242	3,306	7,252	4,316
Health Services	540	171	712	541	1,354	1,183
Other Services	550-590	17,604	11,387	-6,217	10,831	-6,773
Assembly/Exhibition	610-625	16,605	21,361	4,756	25,428	8,823
Food Facilities	630-635	16,178	17,285	1,107	20,083	3,905
Lounge	650-655	1,812	3,559	1,747	4,135	2,323
Bookstore	660-665	4,088	8,544	4,456	9,830	5,742
Recreation	670	716	1,423	707	1,354	638
Meeting Room/Locker	680-690	6,342	3,560	-2,782	4,238	-2,104
Data Processing	700-715	897	1,898	1,001	2,708	1,811
Physical Plant	720-770	24,206	18,443	-5,763	21,201	-3,005
Healthcare Services & Other	810-880	776	950	174	1,084	308
TOTAL Main Campus		353,357	374,725	21,368	416,315	62,958

SPACE PROGRAM

The process of writing the space programs for the various new projects on the Ventura College campus was initiated by the Facilities Oversight Group (FOG). Sub-committees were formed and project narratives were written (refer to JCM's Educational Master Plan). These narratives included background information on the Department(s) involved, descriptions of their current facilities, and statements concerning their current and future needs for classroom and other facilities.

These project narratives were presented and reviewed by the FOG committee, resulting in a coordination of facilities between departments. Subsequently, these narratives were written as program statements and a review and testing of these programs against the Educational Master Plan and State standards was made.

This process of testing and revising the space programs was conducted at the FOG meetings, allowing the parties involved to balance the needs, constraints and opportunities in a way that reflects Departmental goals and the unique conditions at Ventura College. In general, classroom and lab space will become more standardized and open to general use, where possible. This will allow the College to increase utilization within the constraints of scheduling limits.

VENTURA COLLEGE: EDUCATIONAL BUILDINGS TO DEMO / NEW PROJECTS

NEW / EXPANSION	ASF	GSF	# CLASSROOMS	# LABS	# OFFICES	# STATIONS CLASSROOM	# STATIONS LAB
HEALTH SCIENCE	12,910	18,443	5	4	15	250	115
CLASSROOM & TECH. CEN.	47,670	68,100	20	19	28	943	565
PLANETARIUM	11,820	16,886	5	1	2	333	71
ARTS STUDIOS	14,250	20,357		9	0	0	313
Sub total	86,650	123,786	30	33	45	1,526	1064
							verify# below
plus LRC (under const., 2003)	61,950	88,500	0	0	49	0	225
Totals	148,600	212,286	30	33	94	1,526	1289

EXISTING ACADEMIC BUILDINGS TO BE DEMOLISHED/ REMOVED	ASF	GSF	# CLASSROOMS	# LABS	# OFFICES	# STATIONS CLASSROOM	# STATIONS LAB
J	3,876	5,470	5	1	0	144	55
K	4,453	6,776	5	0	9	246	0
NURSING (O)	3,752	4,820	1	1	8	48	25
OT	2,450	3,500	0	0	28	0	0
P	4,245	6,227	3	1	11	144	24
Q	4,328	5,537	2	0	5	108	150
T	4,424	5,514	0	4	0	0	117
U	4,269	5,834	4	0	8	155	0
UV	3,342	3,862	2	0	0	234	0
X	4,311	5,228	5	0	0	234	0
TR-1, TR-2, TR-4, FL, NMG	1,334	1,440	2	0	0	70	0
TR3	674	960	0	0	2	0	0
TR5-6	1,424	1,440	2	0	0	77	0
TR7-8	1,424	1,440	2	0	0	80	0
TR9 CCC BLDG	1,280	1,440	2	0	0	40	0
	45,586	59,488	35	7	71	1580	371

NEW SUPPORT	ASF	GSF			OFFICES		
BOOKSTORE EXPANSION	2,800	3,111					
STORAGE WAREHOUSE	20,000	22,222					
PARKING							
	22,800	25,333					

SUPPORT TO DEMO

	ASF	GSF	# CLASSROOMS	# LABS	# OFFICES	# STATIONS CLASSROOM	# STATIONS LAB
NEW MEDIA GALLERY		775	0	0	0	0	0

VENTURA COLLEGE : NEW PROJECT SF SUMMARY

CLASSROOM AND TECHNOLOGY CENTER

			30sf/sta, *	18sf/sta**
MODULES	**SIZE**	**TYP. LAB**	**CLASSROOM**	
I	540	18 stations	30 stations	
II	750 SF	25 stations	42 stations	
III	1080 SF	36 stations	60 stations	
IV	1500 SF	50 stations	83 stations	

*Special lab use different sf/station ratios
** State classroom utilization ratio is 15 sf/station

USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
GEN PURPOSE	CLASSROOM	IV	83	18	1,500
GEN PURPOSE	CLASSROOM	IV	83	18	1,500
GEN PURPOSE	CLASSROOM	III	60	18	1,080
GEN PURPOSE	CLASSROOM	III	60	18	1,080
GEN PURPOSE	CLASSROOM	III	60	18	1,080
GEN PURPOSE	CLASSROOM	III	60	18	1,080
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	I	30	18	540
GEN PURPOSE	CLASSROOM	I	30	18	540
GEN PURPOSE	CLASSROOM	I	30	18	540
GEN PURPOSE	CLASSROOM	I	30	18	540
			943		16,980

USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
ANTHROPOLOGY	LAB	III*	31	35	1080
BEHAVIORAL SCI	LAB	III*	31	35	1080
FASHION DESIGN	LAB	IV*	27	55	1500
ESL-LANGUAGE	LAB	IV*	43	35	1500
BUSINESS	LAB	III	36	30	1080
BUSINESS	LAB	III	36	30	1080
BUSINESS	LAB	III	36	30	1080
BUSINESS	LAB	III	36	30	1080
BUSINESS	LAB	III	36	30	1080
CIS / ORACAL	LAB	III*	27	40	1080
CIS / ORACAL	LAB	III*	27	40	1080
CIS / ORACAL	LAB	III*	27	40	1080
CIS / ORACAL	LAB	III*	27	40	1080
CIS / ORACAL	LAB	III*	27	40	1080
ARCHITECTURE	LAB	III*	18	60	1080
ARCHITECTURE	LAB	IV*	25	60	1500
ARCHITECTURE	LAB	IV*	25	60	1500
ARCHITECTURE	LAB	IV*	25	60	1500
ARCHITECTURE	LAB	IV*	25	60	1500
			565		23,040

OFFICES (ABSTRACTED)

24 FACULTY OFFICES	
2 ADMIN OFFICES	
3 WORK / SERVER ROOMS	4,340
2 TECH SUPPORT OFFICES	
2 PREP ROOMS	400
1 LARGE SHARED OFFICE	400
1 STAFF LOUNGE	400
3 CONFERENCE ROOMS (40 PERSON, 15 PERSON, 15 PERSON)	1,750
3 STORAGE	360
	7,650

TOTAL ASF = CLASSROOM SF + LAB SF + OFFICE SF =   47,670
TOTAL GSF = ASF x GROSSING FACTOR* OF 70%=   68,100

* Grossing Factor includes non-assignable spaces such as toilet rooms, corridors, stairs and electric rooms.

VENTURA COLLEGE : NEW PROJECT SF SUMMARY

HEALTH SCIENCES COMPLEX

MODULES	SIZE	30sf/sta, * TYP. LAB	18sf/sta** CLASSROOM
I	540	18 stations	30 stations
II	750 SF	25 stations	42 stations
III	1080 SF	36 stations	60 stations
IV	1500 SF	50 stations	83 stations

*Special lab use different sf/station ratios
** State classroom utilization ratio is 15 sf/station

USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	CLASSROOM	II	42	18	750
GEN PURPOSE	LECTURE	IV	83	18	1,500
			250		4,500

USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
PARAMEDIC/EMT	LAB	IV*	50	30	1,500
NURSING	LAB	III*	22	50	1,080
NURSING	LAB	III*	22	50	1,080
NURSING	LAB	III*	22	50	1,080
			115		4,740

OFFICES (ABSTRACTED)

13 FACULTY OFFICES	
2 DIRECTOR'S OFFICES	
1 WORK ROOM	2,100
1 LOUNGE	
(3) 4-PERSON CONFERENCE ROOMS	300
(1) 30 PERSON CONF ROOM	750
RECEPTION AREA	120
AREA FOR 6 CLERICAL STATIONS	400
	3,670

TOTAL ASF = CLASSROOM SF + LAB SF + OFFICE SF =   12,910
TOTAL GSF = ASF x GROSSING FACTOR*** OF 70%=   18,443

GSF (with modules)=	18,443
Originally Projected GSF =	17,600
Disparity =	843

*** Grossing Factor includes non-assignable spaces such as toilet rooms, corridors, stairs and electric rooms.

PROPROSED

PROPOSED

DRAFT

VENTURA COLLEGE : NEW PROJECT SF SUMMARY

SCIENCE AND ARTS FACILITY (SAF)

		30sf/sta, *	18sf/sta**
MODULES	**SIZE**	**TYP. LAB**	**CLASSROOM**
I	540	18 stations	30 stations
II	750 SF	25 stations	42 stations
III	1080 SF	36 stations	60 stations
IV	1500 SF	50 stations	83 stations

*Special lab use different sf/station ratios
** State classroom utilization ratio is 15 sf/station

USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
GEN CLASSROOMS	LECTURE		167	18	3,000
	CLASSROOM	II	42	18	750
	CLASSROOM	II	42	18	750
	CLASSROOM	II	42	18	750
	CLASSROOM	II	42	18	750
			333		6,000

USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
PLANETARIUM	DIGITAL THEATER		71	28	2000
	ANTEROOM				100
	FOYER				100
	OFFICE				140
	STAGING				100
	STORAGE				140
			71		2,580

USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
ART GALLERY	GALLERY				2100
	FOYER				100
	OFFICE				140
	STORAGE				200
			0		2,540

USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
FOOD SERVICE	RETAIL / DINING				400
	KITCHEN				200
	STORAGE				100
			0		700

TOTAL ASF = CLASSROOM SF + LAB SF + OFFICE SF =   11,820
TOTAL GSF = ASF x GROSSING FACTOR*** OF 70%=   16,886

GSF (with modules)=	16,886

***Grossing Factor includes non-assignable spaces such as toilet rooms, corridors and electric rooms.

G' BUILDING ANNEX - Arts addition

		30sf/sta, *	18sf/sta**
MODULES	**SIZE**	**TYP. LAB**	**CLASSROOM**
I	540	18 stations	30 stations
II	750 SF	25 stations	42 stations
III	1080 SF	36 stations	60 stations
IV	1500 SF	50 stations	83 stations

*Special lab use different sf/station ratios
** State classroom utilization ratio is 15 sf/station

ART USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
SCULPTURE STUDIO	LAB		31	80	2,500
DRAWING STUDIO	LAB		31	80	2,500
DRAWING STUDIO	LAB		31	80	2,500
			94		7,500

MUSIC USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
CIRCUS THEATER	LAB		15	60	900
LARGE REHERSAL	LAB		175	20	3500
SMALL REHERSAL	LAB		6	40	250
SMALL REHERSAL	LAB		6	40	250
SMALL REHERSAL	LAB		6	40	250
INSTRUMENT STOR					1000
RECORDING STUDIO	LAB		10	60	600
			219		6,750

TOTAL ASF = CLASSROOM SF + LAB SF + OFFICE SF =   14,250
TOTAL GSF = ASF x GROSSING FACTOR*** OF 70%=   20,357

GSF (with modules)=	20,357

*** Grossing Factor includes non-assignable spaces such as toilet rooms, corridors and electric rooms.

STORAGE WAREHOUSE

USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
WAREHOUSE					20,000
			0		20,000

TOTAL ASF =   20,000
TOTAL GSF = ASF x GROSSING FACTOR*** OF 90%=   22,222

BUILDING E ADDITION - BOOKSTORE WAREHOUSE

USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
WAREHOUSE					2,800
			0		2,800

TOTAL ASF =   2,800
TOTAL GSF = ASF x GROSSING FACTOR*** OF 90%=   3,111

BUILDING G ADDITION - THEATER SUPPORT

USE	TYPE	MODULE #	# OF STATIONS	SF per STATION	TOTAL SF
LOADING DOCK EXPANSION					1,500
NEW TOILET FACILITIES					3,000
TICKET OFFICE					200
CONFERENCE ROOM					250
PRINT ROOM					150
			0		5,100

TOTAL ASF =   5,100
TOTAL GSF = ASF x GROSSING FACTOR*** OF 90%=   5,667

STANDARDIZED ROOM DIAGRAMS

A goal of the masterplan is to standardize general pur-
pose classrooms and computer labs. Below are guide-
lines to smart classroom planning.

1. Empower Faculty

Provide the technology that faculty request in enough
campus classrooms to meet instructional requirements.
Pedagogy should drive the design. Focus on a user-
friendly approach with attention to simple controls and
signage. Presenters should be able to operate equip-
ment at eye-level, without undignified crawling around
on the floor or fumbling with poorly labeled controls in
the dark. In addition, dual window coverings, multiple
screens, functional light switching and ceiling fans give
presenters control over the classroom environment.

2. Emphasize Flexibility

Serve multiple users with many teaching styles.
Designs should include many options while excluding
very few. Technology that faculty need must be perma-
nently placed in the classroom. Cabinets or closets are
needed for storage. Cover the front of the room with
boards and screens. The design must permit projecting
images on the screen and using the board at the same
time. Two screens permit simultaneous display of multi-
ple images for comparing and contrasting. Classrooms
should be easy to change as presentation technologies
evolve and screen proportions widen.

3. Encourage Interaction

Create a collaborative learning environment with
instructor as a mentor. Provide easy access around the
room. Curved rows provide the essential eye contact
for convening an interactive class rather than just
conducting a collective assembly. The lectern for the
presentation computer needs to be small and placed at
the right or left front of the room, allowing the presenter
to face the audience. Small lecterns do not create the
psychological barriers between presenter and audience
that complex bunkers do.

4. Stress Simplicity

Make classroom technology as simple, friendly and non-intimidating as possible. Technology should inspire presenters who rely on improvisation, spontaneity, and audience participation. The addition of computers should not make simple AV devices like overhead transparencies, slides and television more difficult to use. A simple lectern with "plug & show" capability permits the presenter to display laptop computer output on a large screen. Complex installations tend to be awkward, expensive to change and require almost continuous upgrading.

5. Expand Connectivity

Change classrooms from isolated to interconnected places with access to stored resources and live video connections. Include telephone lines (twisted pair), TV distribution (coax) and data connections (category 5). While the possibility of infrared wireless connections looms on the horizon, it is still prudent to include conduit in classroom designs. 10BaseT connects to centralized data repositories (servers) and from there to distant computers and the internet. In addition, there is growing demand for classrooms that originate distance education.

6. Contain Costs

Technology classrooms must serve the faculty well yet remain affordable. To make a significant impact on teaching, many technology classrooms need to be created around the campus, not just one expensive island of technology to impress VIPs. Self-service classrooms help reduce support costs.

7. Sweat the Details

Specify room layout, adequate teaching space, lighting, boards, acoustics, conduit, screen size and mounting height, windows and coverings. It is critical to prevent ambient room light from washing out the images on the screen. During projection, room light should be bright

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for student interaction, not just dim for note taking. Control lighting on board & computer lectern.

Tips for Better College Classrooms

1. Faculty Prefer Wide not Deep Classrooms

Presenters want the wide wall to be the front of the classroom. It keeps the instructor closer to the furthest student and there is more presentation space in the front of room.

2. Students Prefer Large Writing Surfaces

Surveys show students prefer oversized tablet arms (130 sq. in) that provide room for note taking, calculators, & exam materials.

3. You Can't Provide Too Much Chalkboard

The entire front of the room should be chalkboard, 34" above floor, with tack strip. 70% of faculty prefer black chalkboards over whiteboards. Providing whiteboard markers is a continuing problem and faculty become frustrated when markers dry out.

4. Several small screens provide more flexibility than one large screen

Presenters often want to use chalkboard and project materials at the same time; too large a screen obstructs the chalkboard.

5. Allow adequate space in the front of each classroom for overhead projection

A 25-foot deep room with 25 seats needs 9 feet in front; a 35-foot deep room with 70 seats needs 11 feet in front; etc.

6. Switch lights parallel to the front of the room.

Parallel switching provides some control for light just in the front, the center, or just in the rear of the room.

7. Control chalkboard lights to maintain readability without lighting the screen.

Controlled light is necessary for readability on the chalkboard when used with computer materials projected on the screen.

8. Locate a small lectern in the front corner

Include AC power, data jack and display connections in the lectern. Large bunkers create a psychological barrier between student & teacher.

9. Ceiling Mount a video/data projector

Calculate 2 times the width of the screen to approximate the distance from the projector to the screen.

10. Recess Video/Data Projector controls & VCR in the wall in the front corner

Faculty need all of the controls at eye level in the classroom. A recessed sliding rack will provide a hub for future technology.

11. Provide Access around the Perimeter of the room

Faculty & students need ability to circulate around a classroom. Computer classrooms need to allow approx. 30 sq.ft. per student and they should include rolling chairs.

12. Provide access to natural light and ventilation

Student perform better when they perceive and connect with the natural environment. Windows should be placed to invite reflected light and avoid direct sunlight. Operable windows should be tied to the HVAC system to shut down supply to zone when open.

13. Connectivity

All classrooms should provide student connectivity to the internet. Wireless connections should be explored where a hard wired connection is difficult such as renovation projects.

Two person desk (above)

The Master Plan is based on the implementation of a standardzed set of classroom/lab room modules as illustrated below.

Module 1

Module 1 is a 540 square foot room providing a lecture classroom format for 28 students and a lab room format for 18 students.
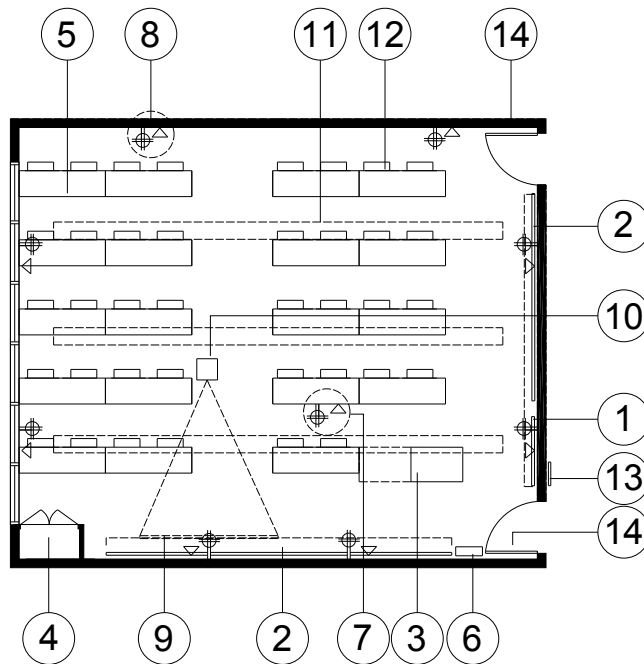
Module 1 Equipment List, Lecture Classroom

1. Bulletin Board
2. Marker Board
3. Lecture Podium
4. Tall Storage Cabinet
5. 2 Student Desk (18"x 60")*
6. Wall Clock
7. Floor Box Outlet and Data Connection
8. Wall Box Outlet and Data Connection
9. Projection Screen
10. Digital Projector
11. Pendant Lighting
12. Acoustical Ceiling
13. Room Identification Signage
14. Exit door with glass viewing window
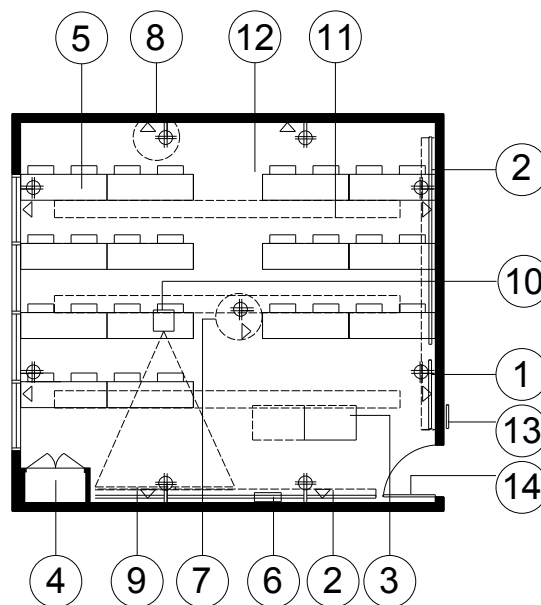
540 SF CLASSROOM, 28 STUDENTS

* All stations are accessible to persons in wheelchairs.
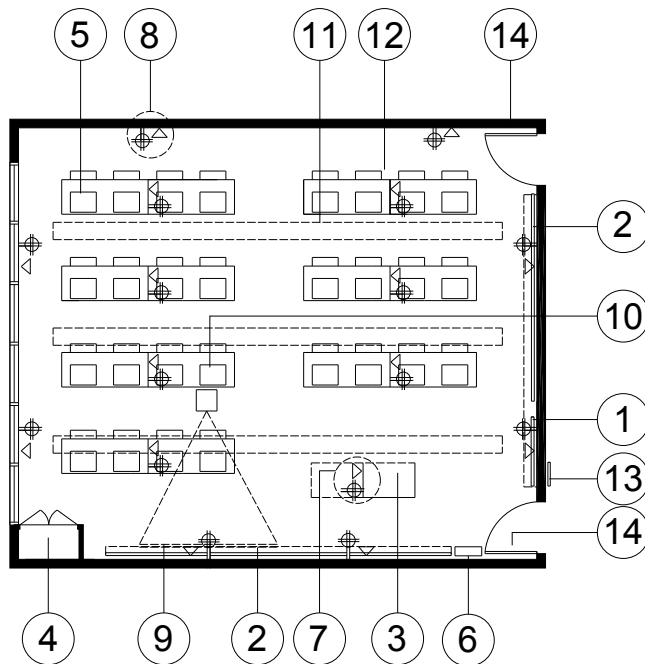
Module 1 Equipment List, Lab Room

1. Bulletin Board
2. Marker Board
3. Lecture Podium
4. Tall Storage Cabinet
5. 2 Person Computer Desk (24"x 60") with internal cable management *,**
6. Wall Clock
7. Floor Box Outlet and Data Connection
8. Wall Box Outlet and Data Connection
9. Projection Screen
10. Digital Projector
11. Pendant Lighting
12. Acoustical Ceiling
13. Room Identification Signage
14. Exit Door with Glass Viewing Window

*   All stations are accessible to persons in wheelchairs
** All computers require data and power

Two person computer desk with internal cable management (above and below)
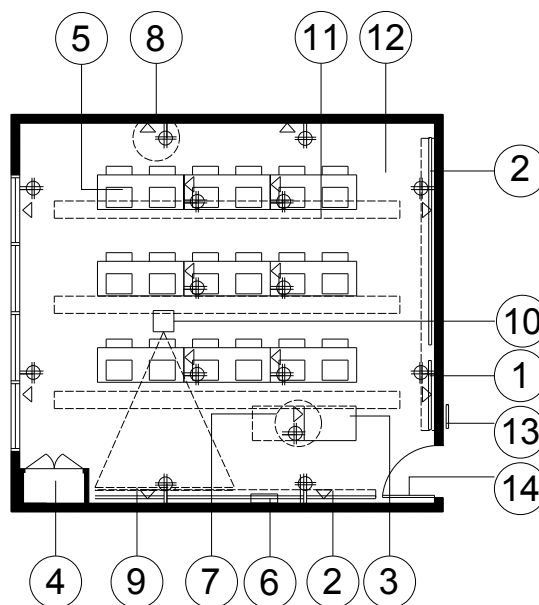

540 SF COMPUTER LAB, 18 STUDENTS

Two person desk (above)

Module 2 is a 750 square foot room providing a lecture classroom format for 40 students and a lab room format for 28 students.

Module 2 Equipment List, Lecture Classroom

1. Bulletin Board
2. Marker Board
3. Lecture Podium
4. Tall Storage Cabinet
5. 2 Person Desk (18"x 60") *
6. Wall Clock
7. Floor Box Outlet and Data Connection
8. Wall Box Outlet and Data Connection
9. Projection Screen
10. Digital Projector
11. Pendant Lighting
12. Acoustical Ceiling
13. Room Identification Signage
14. Exit Door with Glass Viewing Window

* All stations are accessible to persons in wheelchairs
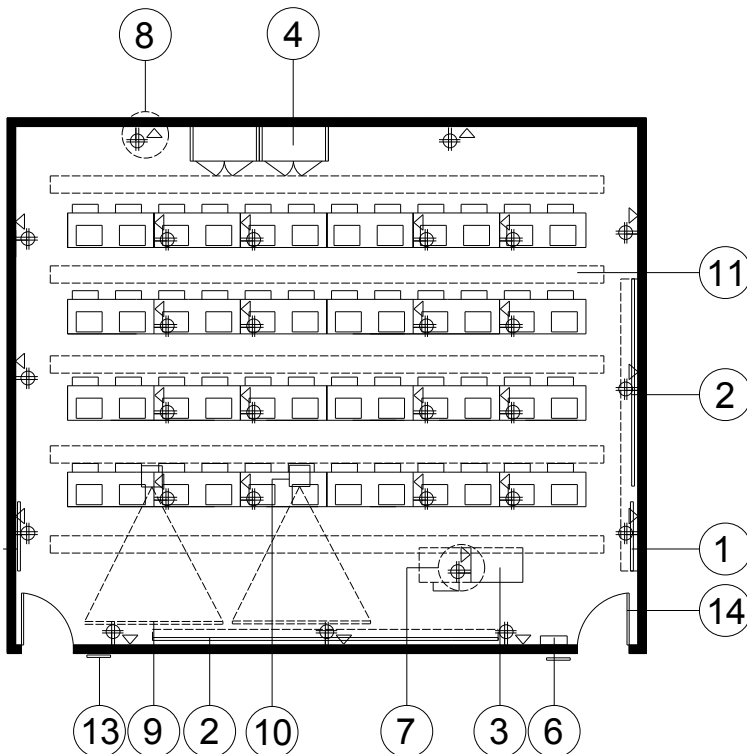

750 SF CLASSROOM, 40 STUDENTS

Module 2 Equipment List, Lab Classroom

1. Bulletin Board
2. Marker Board
3. Lecture Podium
4. Tall Storage Cabinet
5. 2 Person Computer Desk (24"x 60") with internal cable management *,**
6. Wall Clock
7. Floor Box Outlet and Data Connection
8. Wall Box Outlet and Data Connection
9. Projection Screen
10. Digital Projector
11. Pendant Lighting
12. Acoustical Ceiling
13. Room Identification Signage
14. Exit Door with Glass Viewing Window

* all stations are accessible to persons in wheelchairs
** all computers require data and power

Two person computer desk with internal cable management (above and below)

**750 SF COMPUTER LAB, 28 STUDENTS**

Two person desk (above)

Module 3 is a 1080 square foot room providing a lecture classroom format for 60 students and a lab room format for 48 students.

Module 3 Equipment List, Lecture Classroom

1. Bulletin Board
2. Marker Board
3. Lecture Podium
4. Tall Storage Cabinet
5. 2 Person Desk (18"x 60") *
6. Wall Clock
7. Floor Box Outlet and Data Connection
8. Wall Box Outlet and Data Connection
9. Projection Screen
10. Digital Projector
11. Pendant Lighting
12. Acoustical Ceiling
13. Room Identification Signage
14. Exit Door with Glass Viewing Window

*   all stations are accessible to persons in wheelchairs
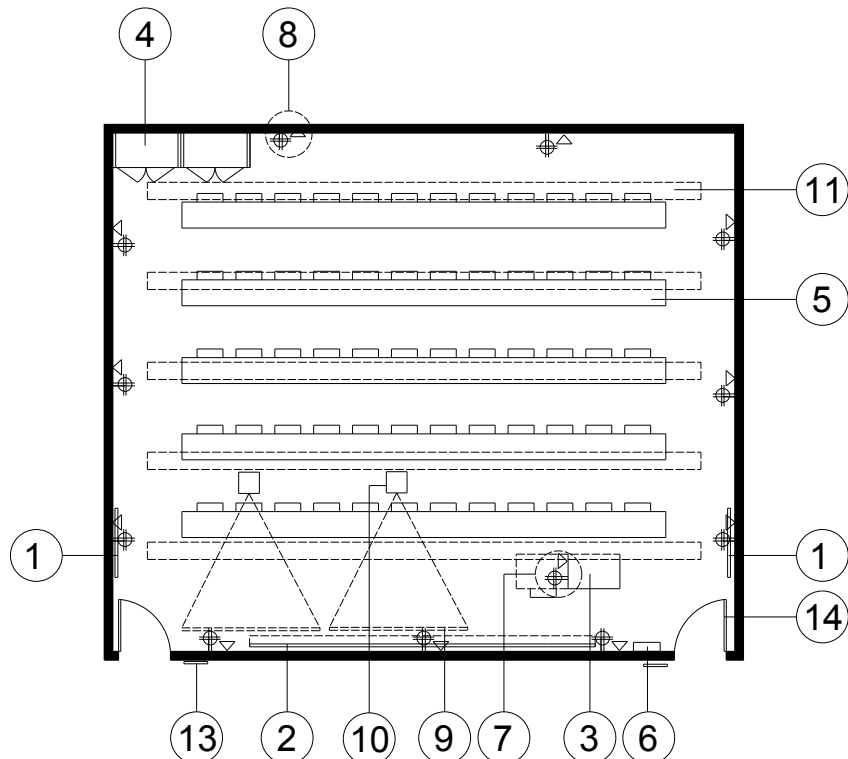
1080 SF CLASSROOM, 60 STUDENTS

Module 3 Equipment List, Lab Classroom

1. Bulletin Board
2. Marker Board
3. Lecture Podium
4. Tall Storage Cabinet
5. 2 Person Computer Desk (24"x 60") with internal cable management *,**
6. Wall Clock
7. Floor Box Outlet and Data Connection
8. Wall Box Outlet and Data Connection
9. Projection Screen
10. Digital Projector
11. Pendant Lighting
12. Acoustical Ceiling
13. Room Identification Signage
14. Exit Door with Glass Viewing Window

* All stations are accessible to persons in wheelchairs
** All computers require data and power

Two person computer desk with internal cable management (above and below)

1080 SF COMPUTER LAB, 48 STUDENTS

8.21

Lecture Seating with fixed table (above)

Module 4 is a 1500 square foot room providing a lecture classroom format for 102 students and a lab room format for 60 students.

Module 4 Equipment List, Lecture Classroom

1. Bulletin Board
2. Marker Board
3. Lecture Podium
4. Tall Storage Cabinet
5. Lecture Seating (with fixed table, including data and power)
6. Wall Clock
7. Floor Box Outlet and Data Connection
8. Wall Box Outlet and Data Connection
9. Projection Screen
10. Digital Projector
11. Pendant Lighting
12. Acoustical Ceiling
13. Room Identification Signage
14. Exit Door with Glass Viewing Window
15. Wheelchair Accessible Stations
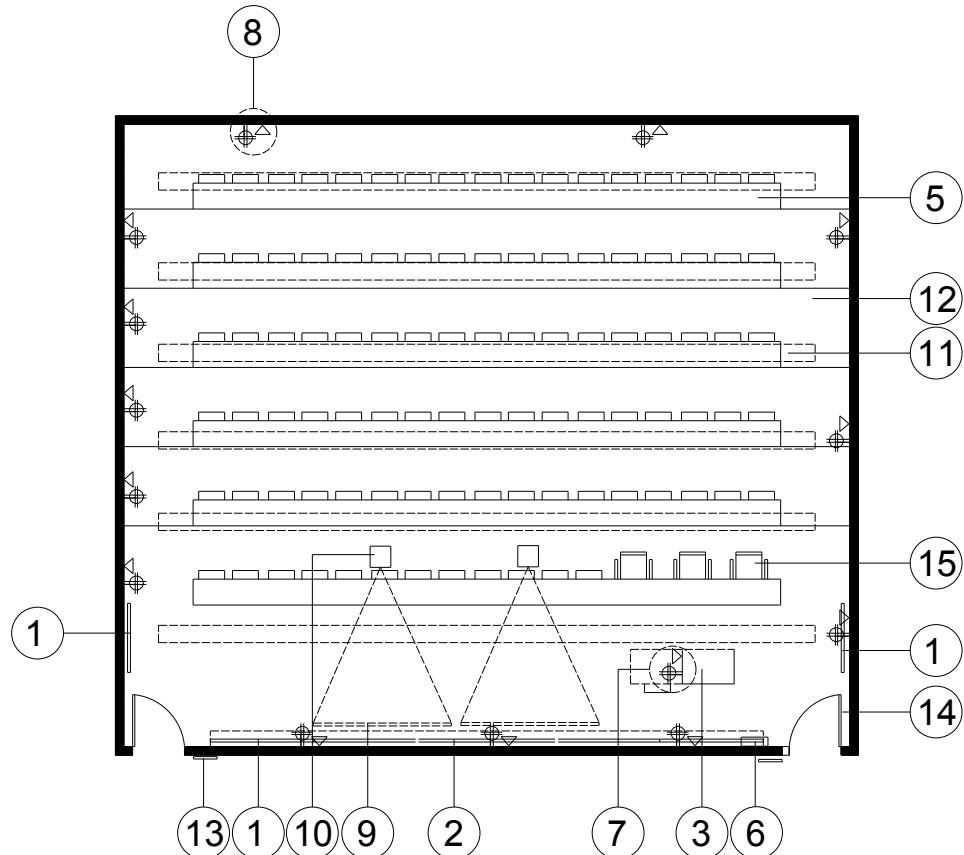
**1500 SF CLASSROOM, 100 STUDENTS**

Module 4 Equipment List, Lab Classroom

1. Bulletin Board
2. Marker Board
3. Lecture Podium
4. Tall Storage Cabinet
5. 2 Person Computer Desk (24"x 60") with internal cable management *,**
6. Wall Clock
7. Floor Box Outlet and Data Connection
8. Wall Box Outlet and Data Connection
9. Projection Screen
10. Digital Projector
11. Pendant Lighting
12. Acoustical Ceiling
13. Room Identification Signage
14. Exit Door with Glass Viewing Window

* All stations are accessible to persons in wheelchairs
** All computers require data and power

Two person computer desk with internal cable management (above and below)
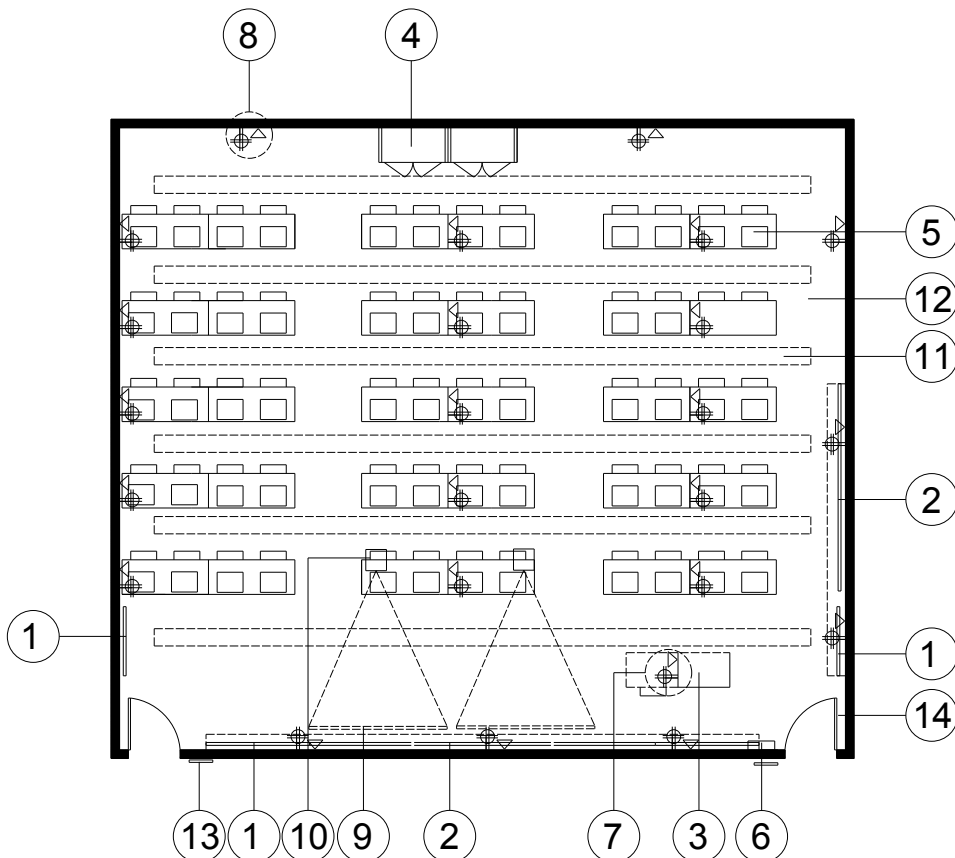
1500 SF COMPUTER LAB, 60 STUDENTS

PROPOSED BUILDINGS DESCRIPTIONS

The FOG group set out guidelines to describe their needs of the new facilities, See Appendix E for Project Task Force Meeting Minutes for further information and information pertaining to renovated facilities.

Bookstore Addition

Currently the loading dock for the bookstore is 18" below the truck beds so that everything has to be hand unloaded. It is a safety and worker's compensation concern. There is no storage in the dock area, nor a door wide enough to move pallets through. There is storage for the textbooks upstairs via a dumbwaiter. Current storage area upstairs is approximately 5' wide by 100' long and there is 1 non-load bearing wall. The area has been described as awkward to work in and constitutes a health and safety concern. At the beginning of a semester the bookstore gears up with a large inventory of textbooks. Alternative space during peak times has been looked into but to date they have been unable to find space to borrow.

The basic needs include: a loading dock next to the warehouse, additional warehouse space, additional retail space, office space, plumbing, electrical, and sprinklers all need upgrading.

The preliminary plans show the expansion into the parking lot behind the Bookstore. It is believed that the entire area could be incorporated into the new Bookstore expansion with the exception of the existing handicap and police parking spaces. If this expansion took place the Bookstore staff believe they would be adding an additional 2/3 of their current space.

G Annex

The greatest priorities for Art studio/classrooms, whether renovated studios or new construction, is to provide adequate space within a safe environment for

students to be able to create freely and productively. Proper light, both natural and artificial, will provide students with a consistent illumination for viewing work in progress as well as finished work during critiques. Installed spotlights and floodlights will properly light models and still life set-ups. There must be enough storage space to handle student works, such as wet paintings, as well as wet palettes, and safe-cabinets for solvents,oil, and resin-based mediums. There is a big need for storage of unfired and fired ceramics, clay, glazes, plaster, and sculpture equipment. There needs to be enough lockers to facilitate the number of students who use the studios weekly. The studios must have proper circulation and ventilation. The design must provide space for suppliers, studio props, and equipment. New plumbing, including stainless steel sinks, will provide student stations to wash their hands and brushes. A new energy efficient, HVAC system will provide a safe, cost saving, and quiet environment. There must be a new roof on the existing structure.

Offices for full-time faculty and shared office space for part-time faculty will allow instructors to be situated close to their classrooms and easier accessibility of teacher by students.

General Purpose Classroom/ Advanced Technology Complex(GPC/ATC)

The GPC/ATC complex combines two, initially separate programs into one building. The General Purpose Classroom (GPC) and Advanced Technology Complex (ATC) make up a 60,000 square foot building. The ATC component involves several major program areas, including Architectural Science, Computer Science, Computer Information Systems, Geographic Information Systems, and Business Information Systems. The GPC component is general-purpose facility, to replace rapidly deteriorating portable facilities that have been used for more than a decade. The building should provide specialized classrooms

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for Second Language instruction,Home Economics classes, and computer laboratories to be used by the Social and Behavior science classes. The complex will include classrooms, laboratories, faculty offices, sewing room, workroom, kitchen, conference room, and storage facilities.

Health Science Complex (HSC)

The Health Sciences Complex (HSC) is to house the School of Nursing and Allied Health, and the School of Pre-hospital and Emergency Medicine. The needs for these programs are skill labs, classrooms, and storage space. There are currently 250 CNA and nursing students sharing one skills lab. Scheduling is difficult and most classes cannot utilize the skill lab as often as needed. Because of inadequate classroom space, scheduling of theory is often before or after clinical labs, requiring some students to be in class for 10.5 hours in a single day. The design and construction of the new Health Science Complex will enable scheduling of learning experiences that will optimize learning of current students, and address the expected increase in enrollment.

A significant increase in storage space is required. The School of Nursing & Allied Health utilizes supplies and equipment to teach clinical procedures. Equipment includes items such as an EKG machine, intravenous infusion pumps, suction equipment, and chest tubes. Supplies such as gloves, dressings, and catheter trays are also stored between uses.

The School of Nursing and Allied Health is required to keep extensive records of all students for the Board of Registered Nursing and Department of Health Services for up to ten years after student enrollment. With a minimum of 545 students enrolling annually in the programs, the record collection is extensive and requires significantly more storage space than is currently available.

Science and Arts Facility (SAF)

This structure is a multifunction facility based on a full-dome digital theater concept. Although the theater will function primarily as a planetarium, it should also be seen as a stage and seating area with digital surround audio and full dome panoramic video projection capabilities. Then it can be used for many disciplines outside of astronomy, including art and music. It can also be used as an auditorium for small stage theatrical presentations and as a chamber music concert hall.

Storage Warehouse

The greatest priority for the Storage Warehouse is to provide secure storage space for faculty and staff. This space would allow the storage of equipment; supplies, furniture, and other items needed to run instructional programs. Donated items could be accepted and stored quickly and easily. This storage space should be a self-storage facility that provides good security and is readily available to faculty and staff. This space should be modular and easy to modify to fit different uses.

This facility should have good access, good lighting, and good security. Natural indoor lighting from skylights would be a plus. Faculty and staff should feel secure when moving items in or out of storage, and they should feel their items are secure and protected while in storage.

The proposed area for this warehouse could be developed as the site for the campus re-cycling program, which is required by law.

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