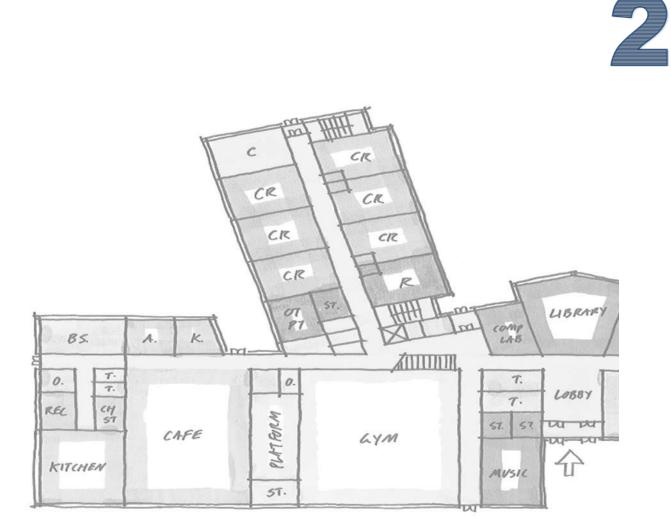
SPACE ALLOCATION GUIDELINES





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I. INTRODUCTION

The <u>Space Allocation Guidelines</u> together with the <u>Educational Specifications</u> and the <u>Public School Standards and</u> <u>Guidelines for New School Construction and Major Renovation Projects</u> constitute planning documents for the design of new school facilities that meet the goals and objectives of education in the 21st Century. In applying these <u>Space Allocation Guidelines</u> keep in mind that they are only that – guidelines. There will be exceptions because of the unique difference between school systems that will need to be considered by state and local officials.

It is the State's desire to find a solution to these situations in a cooperative and collegial manner. The State believes that this document will be very helpful to school boards, building committees, school officials, and designers in the process of planning a school that will be supported by the Department of Education and the State Board of Education. The Department of Education looks forward to working with individual school systems in applying these guidelines.

II. DOCUMENTATION OF EXISTING EDUCATIONAL PROGRAMS AND INSTRUCTIONAL SPACE

The State of Maine requires that new and renovated schools be built efficiently to maximize the use of state construction dollars. Therefore, it is important for the Department of Education to understand your existing situation and your vision to better help you develop a solution that meets your school system's educational needs and that is fiscally responsible.

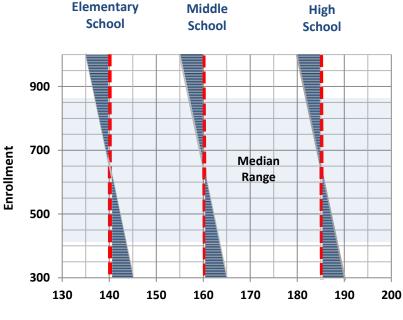
Please respond to each of the bullets below by providing information in a format that will give clarity to the existing situation. Include the school administration in preparing the responses.

• Class Size – Attach or explain your school board's policy on class size.

For Middle and High Schools only, provide the following information:

- Classroom Scheduling Provide an existing weekly classroom schedule for every room in the building and any temporary (portable) classrooms. Include the room number, size, teacher(s), number of students, and subject taught for each period.
- Vacant Rooms Provide a list of vacant rooms for each period of the day and each day of the week using your present schedule.
- Departmental vs. Interdisciplinary Subject Organization Explain your program organization and the philosophy that supports it.
- Collegiate Model (multiple teachers share same classroom) vs. Single Teacher Classroom Model

 Explain your existing model and why you use it.
- Athletic Programs Provide a list of sports teams by season and the number of participants for each sport. List the number of fields available and their locations.



III. STATE SQUARE FOOTAGE STANDARDS

Gross Square Feet per Student

The Maine Department of Education supports the following standards in the planning of public school Projects: Elementary School 140 square feet per student, Middle School 160 square feet per student, High School 185 square feet per student and CTE Regions/Centers 250 square feet per student. These Standards will only vary in projects with very small or large enrollments, or those projects that include renovation components.

IV. SPACE ALLOCATION GUIDELINES

The following table establishes space guidelines for the various types of spaces typically found in an Elementary, Middle, or High School facility. Guidelines are also included for Career and Technical Education (CTE) programs for those projects that include that component. In general, the areas given will be funded by the state when supported by a district's specific program requirements. School districts may add programs or increase the areas of different program spaces but any added programs or increased area over what the state will fund will be at local expense. The square foot cost of locally funded spaces shall be the same square foot cost as for state funded spaces.

PreK Thru 1	2
Space/Enrollment	Area (Square Feet)
Classrooms	
Regular Classroom	
Pre-K & Kindergarten	1,000
Elementary School	800
Middle School	800
High School	800
Small Classroom	
Middle School	300 - 600
High School	300 - 600
Science Classroom/Lab	
Middle School	900
High School	900 - 1,200
Science Prep/Storage	200
Fine Arts	
Music	
Elementary School <300 Students	800
Elementary School 300-600 Students	1,000
Elementary School >600 Students	1,200
Middle School <300 Students	1,000
Middle School 300-600 Students	1,400
Middle School >600 Students	1,600
High School <400 Students	1,400
High School 400-800 Students	1,600
High School >800 Students	1,800 - 2,400
Practice Room	80 - 150
Music Storage	Negotiable

PreK Thru 12 continued		
Space/Enrollment	Area (Square Feet)	
Art (Includes Storage &Kiln)		
Elementary School	1,200 - 1,500	
Middle School	1,200 - 1,500	
High School	1,200 - 1,500	
Auditorium	10 sf per student x 1/3 student body	
High School	minimum size: 300 seats	
Support Spaces (Storage, Dressing Rooms, etc.)	Negotiable - Program Driven	
Stage		
Elementary School <300 Students	800	
Elementary School 300-600 Students	1,000	
Elementary School >600 Students	1,200	
Middle School <300 Students	1,000	
Middle School 300-600 Students	1,500	
Middle School >600 Students	1,800	
High School <400 Students	1,500	
High School 400-800 Students	2,000	
High School >800 Students	2,400	
Projects Room (Unified Arts/STEM)		
Elementary School	Negotiable - Program Driven	
Middle School	Negotiable - Program Driven	
High School	Negotiable - Program Driven	

PreK Thru 12 continued		
Space/Enrollment	Area (Square feet)	
Special Services		
Classrooms		
Elementary School	250 - 800	
Middle School	250 - 800	
High School	250 - 800	
Technology		
Tech Support/Server Rooms		
Elementary School	80 - 200	
Middle School	80 - 200	
High School	80 - 200	
Learning Commons		
Library/Media Center		
Elementary School	See Library Guidelines Attached	
Middle School	See Library Guidelines Attached	
High School	See Library Guidelines Attached	
Physical Education		
Gymnasium		
	2,400	
Elementary School (Pre K- 3) <600 Students	No bleacher seating	
Flomenton (School _ <600 Studento	42' x 64' court plus 3' sidelines	
Elementary School <600 Students	Bleacher seating for 1/3 student body	
Elementary School >600 Students	42' x 64' court plus 3' sidelines	
	Bleacher seating for 1/3 student body	
Middle School <600 Students	50' x 74' court plus 7' sidelines	
	Bleacher seating for ½ student body 50' x 74' court plus 7' sidelines	
Middle School >600 Students	Bleacher seating for ½ student body	
	50' x 84' court plus 10' sidelines	
High School	Bleacher seating for full student body	
Locker rooms, Storage, PE Offices	Negotiable	

PreK Thru 12 continued			
Space/Enrollment	Area (Square feet)		
Food Services			
Cafeteria	Enrollment ÷3 servings x 15 sf per student		
Elementary School <300 Students	1,500		
Elementary School 300-600 Students	Formula		
Elementary School >600 Students	Formula		
Middle School <300 Students	1,500		
Middle School 300-600 Students	Formula		
Middle School >600 Students	Formula		
High School <400 Students	2,000		
High School 400-800 Students	Formula		
High School >800 Students	Formula		
Kitchen/Dry Storage/Walk-Ins	Enrollment x 80% x 4 sf per student		
Elementary School <300 Students	950		
Elementary School 300-600 Students	Formula		
Elementary School >600 Students	Formula		
Middle School <300 Students	950		
Middle School 300-600 Students	Formula		
Middle School >600 Students	Formula		
High School <400 Students	1,120		
High School 400-800 Students	Formula		
High School >800 Students	Formula		
Office/Staff Lockers/Staff Toilet	Formula		
Satellite Kitchen	Negotiable		

PreK Thru 12 contin	nued
Space/Enrollment	Area (Square feet)
Administration/Offices	
Administrative, Guidance & Special Service Offices, Conference Rooms, Work Spaces	
Elementary School	75 - 300
Middle School	75 - 300
High School	75 - 300
Clinic	
Elementary School	350-500
Middle School	350-700
High School	350-900
Volunteer Room	150-300
Other	
Recycling Room	
Elementary School	100-250
Middle School	100-250
High School	100-250
Maintenance/Storage	Negotiable

Career and Technical Education (CTE)			
Space	Area (Se	quare feet)	
CTE Programs of Study			
Automotive Technology	Total	9,235	
Tech Lab		4,020	
Collision Lab		3,910	
Instructional Area		350	
Tool Storage (shared between labs)		710	
Paint Storage		95	
Office (2)		150	
Building Trades	Total	4,965	
Lab		3,960	
Instructional Area		330	
Finishing Room		200	
Storage		400	
Office		75	
Business Services	Total	2,265	
Business Lab		800	
Marketing Lab		800	
Conference/Instruction		400	
Office (shared between labs)		150	
Sales Kiosk		115	
CADD Lab	Total	1,605	
Lab (including Plotting)		1,430	
Storage		100	
Office		75	

Career and Technical Education (CTE) continued		
Space Area (Square feet)		
CTE Programs of Study		
Cosmetology	Total	2,745
Practical Lab		650
Clinical Lab		1,870
Dispensary		150
Office		75
Criminal Justice	Total	1,175
Lab		800
Forensic Studio		300
Office		75
Culinary Arts	Total	5,190
Culinary Arts Lab		3,065
Dining		1,300
Lockers (2)		165
Dry Storage		170
Cooler/Freezer		190
Office		150
Linen		90
Custodial		60
Early Childhood Education	Total	3,150
Daycare Room		1,715
Classroom		650
Observation		160
Conference Room		90
Office		75
Storage		180
Secure Entry		70
Toilets		210

Career and Technical Education (CTE) continued		
Space	Area (Square feet)	
CTE Programs of Study		,
Electricity (Residential Wiring)	Total	2,080
Lab		1,525
Instructional Area		330
Storage		150
Office		75
EMS Training	Total	1,450
EMS Instruction		520
EMS Training		560
Storage		145
Office		75
Toilets		70
Practice		80
Firefighting Science	Total	3,300
Fire Science Lab		1,280
Instructional Area		390
Drill Area		925
Training Stair		170
Storage		150
Prop Storage		310
Office		75
Graphic Communication/Digital Design	Total	3,175
Lab		2,200
Print Room		500
Light Studio		200
Storage		200
Office		75

Career and Technical Education (CTE) continued		
Space	Area (Sq	uare feet)
CTE Programs of Study		-
Health Occupations	Total	3,810
Labs (2 at 1,445 sf each)		2,890
Training Restrooms (2 at 200 sf each)		400
Lockers (shared between labs)		150
Storage (shared between labs)		220
Office (shared between labs)		150
Heavy Equipment	Total	1,875
Lab		1,500
Storage		300
Office		75
Horticulture	Total	4,165
Lab (including Hydroponic)		1,960
Greenhouse		1,600
Instructional Area		330
Storage		200
Office		75
Hospitality & Recreation Marketing	Total	1,275
Classroom		1,200
Office		75
HVAC/Plumbing	Total	2,070
Lab		1,400
Instructional Area		330
Storage		265
Office		75

Career and Technical Education (CTE) continued		
Space Area (Square feet)		
CTE Programs of Study		
Information Technology	Total	1,775
Lab		1,200
Server		200
Print Lab		300
Office		75
Marine Maintenance/Fitter & Ship Repair	Total	4,155
Lab		3,500
Instructional Area		330
Storage		250
Office		75
Precision Manufacturing	Total	4,755
Lab		4,000
Instructional Area		350
Storage		280
Office		75
Inspection		50
Robotics (Pre- Engineering)	Total	1,775
Lab		1,500
Storage		200
Office		75
Small Engine Mechanics & Repair	Total	3,155
Lab		2,500
Instructional Area		330
Storage		250
Office		75

Career and Technical Education (CTE) continued		
Space Area (Square feet)		a (Square feet)
CTE Programs of Study		
Truck & Bus Driver/Commercial Vehicle	Total	875
Classroom		800
Office		75
Video Production	Total	2,630
Studio		995
Classroom		850
Control Room		240
Editing		80
Server		40
Storage		200
Offices (3 at 75 sf each)		225
Welding (Fabrication)	Total	4,540
Lab		3,775
Instructional Area		330
Storage		360
Office		75

Note: CTE program spaces based on an enrollment of 16 students per class period.

Library Square Footage Guidelines				
	Student Usable Space Minimum Area (SF)			Non-Student Usable Space**
Student Enrollment	Elementary	Middle	High	All Levels
100	500	600	800	400
150	700	800	1000	400
200	750	850	1100	475
250	850	975	1200	475
300	1000	1150	1400	550
350	1150	1325	1600	550
400	1300	1500	1800	625
450	1450	1675	2000	625
500	1600	1850	2200	700
550	1750	2025	2400	700
600	1900	2200	2600	775
650	2050	2375	2800	775
700	2200	2550	3000	850
750	2350	2725	3200	850
800	2500	2900	3400	950
850	2650	3075	3600	950
900	2800	3250	3800	1050
950	2950	3425	4000	1050
1000	3100	3600	4100	1150
1050			4200	1150
1100			4300	1250
1150			4400	1250
1200			4500	1350
1250			4600	1350
1300			4700	1450
1350			4800	1450
1400			4900	1550
1450			5000	1550
1500			5100	1650
1550			5200	1650
1600			5300	1750
1650			5400	1750
1700			5500	1850
1750			5600	1850
1800			5700	1950
1850			5800	1950
1900			5900	2050
1950			6000	2050
2000			6100	2150

**Non-Student usable space includes work area and storage and should be added to the Student Usable space to determine the total recommended space. Approved by the State Board of Education on April 11, 1992.

V. SPACE ALLOCATION WORKSHEETS

A. Explanation

The Department of Education has established four worksheets addressing space allocations for elementary, middle, high school, and CTE projects. Select the grade level worksheet(s) that pertain to your project and complete them prior to the beginning of program conferencing. The headings are self-explanatory. Categories will need to be expanded to meet individual program needs. The educational program will dictate the number of rooms to be entered.

These worksheets will allow planners to understand the present deficiencies of the existing facility and the need for space in the proposed facility. Only spaces for approved programs will be considered. The State will not support spaces for future programs that cannot be funded at the time the facility opens.

Space allocation worksheets can be found at http://www.maine.gov/doe/facilities/

B. Non-Assignable Areas

In order to bring consistency across a broad range of school projects, the state utilizes a gross mark-up factor of up to 1.4 to calculate a school building's total square footage. (Total square footage equals the total net area of the program space plus the gross mark-up factor.) This mark-up allows for accounting of all non-assignable areas. Non-assignable area is the sum of all areas on all floors of a building not assigned to a specific use, but necessary for the general operation and function of the building.

Non-assignable spaces include:

- Building Service Area
 - $\circ \quad \text{Custodial rooms}$
 - Toilet rooms
 - o Other custodial facilities specifically for building maintenance
- Circulation Area
 - o Corridors and hallways
 - Stairwells and landings
 - o Lobbies and vestibules
- Mechanical Area
 - Mechanical rooms
 - Boiler rooms and fuel storage vaults
 - Electrical/Telephone/Data rooms
 - Elevator and elevator machine rooms
 - Mechanical/plumbing chases
- Other Area
 - Exterior and interior wall thicknesses

Plans developed prior to Concept Approval are to be drawn to scale. This will permit the Department of Education to verify whether building circulation and common space fall within the maximum 1.4 mark-up. Gathering spaces will not be considered as a part of the 1.4 mark-up but will be considered as educational space when computing square footage for educational delivery and will be at local expense. Project rooms and similarly named spaces may also be at local expense.



Maine Department of Education Division of School Facilities

http://www.maine.gov/doe/facilities/ Revised January 2015