

## **APPENDIX C**

Appendix C contains basic information concerning educational space specifications (ed specs) for elementary, middle, and senior high schools. These educational specifications were compiled following Department of Education and Early Development (EED) guidelines. Since the adoption of these guidelines, EED has revised its guidelines from a net square footage to a gross square footage per student calculation. There have been other minor changes in the way that EED calculates allowable space, which is not directly reflected in the following ed specs. However, the overall space allocations and capacity calculations in the following summaries are still accurate, and represent the current standards for building new or remodeling school spaces.



## ELEMENTARY SPACE SPECIFICATIONS

The general space specification for an elementary school is based on projected enrollment of about 550 students in grades K-6. Based upon the State of Alaska Elementary Space Allocation of 106.25 square feet per elementary student, a school will be approximately 58,300 square feet and will be built upon a 15-acre site having no existing infrastructure.

It should be noted that these are preliminary educational space specifications and may change after detailed review of the schematic design.

In addition to the standard elementary school curriculum, this facility will also provide pull out educational programs in resource rooms for main-streamed special education students and students requiring tutorial instruction. The space allocation for schools with additional special education or special services programs utilizing self contained classrooms may be granted an additional square footage allowance with DOE approval..

### SUMMARY AREA ALLOCATION OUTLINE

Space Description	Number	Area Square Feet Net Allocation (Exclusive of Exterior Wall Thickness)
<b>2.0 Site</b>		
2.1 Bus Loading	8	
2.2 Automobile Parking (According to Title 21)		
2.3 Playground		
2.1 Outdoor Environmental Learning Center		
<b>3.0 Administrative Support</b>		
3.1 Reception	1	150
3.1 Secretarial (Including Secure Closet)	1	420
3.1 Student Timeout	1	40
3.1 Conference	1	225
3.2 Principal's Office	1	250
3.3 Parent Volunteer/PTA/Community School Ctr.	1	250
3.4 Nurse's Room (Including Restroom)	1	335
3.5 Principal Intern	1	90
<b>4.0 Staff Support Services</b>		
4.1 Staff Lounge (Including Restrooms)	1	725
4.2 Production and Storage	1	365
<b>5.0 Student Support Services</b>		
5.1 Counseling	1	250 *
5.2 Indian Education	1	300 *
5.3 Psychology Office	1	100 *
5.4 Itinerant Offices	2 at 100 sf	200 *
5.5 Bilingual Education	1	150 *

<b>6.0 Classroom Instruction</b>			
6.1	Kindergarten (Including Restrooms)	4 at 1,250 sf	5,000
6.2	Primary Classrooms 1 – 3	10 at 1,000 sf	10,000
6.3	Intermediate Classrooms 4 – 6	10 at 1,000 sf	10,000
6.4	Instructional Support Conference Room	1	165 *
6.5	Art Activity Lab (Including Lab/Storage)	1	1,500
<b>7.0 IMC</b>			
7.1	Teaching Stations No.'s 1, 2 and Stacks	1	2,465
7.1	Teaching Station No. 3, Technology Lab	1	750
7.1	Librarian's Office/Workroom	1	150
7.1	AV & Periodical Storage	1	225 *
7.1	Computer Equipment Room	1	150 *
<b>8.0 Special Education</b>			
8.1	Resource Classroom,	2 at 1,000	2,000
8.2	Occupational/Physical Therapy	1	370
8.3	Speech Therapy	1	150 *
<b>9.0 Food Service</b>			
9.1	Food Service		550
<b>10.0 Music</b>			
10.1	Music Performing Classroom	1	950
10.1	Music Office	1	175
10.1	Music Storage Room	1	100
<b>11.0 Multipurpose Room</b>			
11.1	Multipurpose Room	1	2,500
11.1	Table/Chair/Riser Storage	1	400
<b>12.0 Physical Education</b>			
12.1	Gym	1	3,475
12.1	P.E. Office/Storage (Including Ski Storage)	1	500
<b>13.0 Custodial &amp; Restrooms</b>			
13.1	Custodial and Receiving	1 main, 2 small	400
13.2	Restrooms	2	870
13.3	Central Building Storage	1	540
<b>14.0 Circulation/Support</b>			
	Hallways at 7-1/2 ft. wide		8,050
	Mechanical and Electrical Spaces		870
	Fan Room – 2 <sup>nd</sup> Floor at 25% of 2,820 sq. ft.		705
		<b>TOTAL</b>	<b>56,860</b>

\* These function/space allocations are flexible, to be finalized by the Building Committee.

NOTE: The school sq. ft. per student adjusts by State formula based upon membership, school size, and grade level served.

## MIDDLE SCHOOL SPACE SPECIFICATIONS

The Anchorage School District has updated the space allocation for middle schools. These are space specifications for a middle school with a projected enrollment of 1,058 students in grade 7 through 8. The update is based upon the State of Alaska Secondary Space Allocation of 150 square feet per secondary student. New facilities will be about 158,000 square feet and be built upon a 30-acre site having no existing infrastructure.

The District's allocation recommendation is based on Mirror Lake and Golden View middle schools. The revised educational specification was approved by the SchoolBoard in October 2000.

In addition to the standard middle school curriculum, middle schools will also provide educational programs for mainstreamed special education students and students requiring tutorial and special services instruction. The space allocation for schools with additional special education or special services programs utilizing self-contained classrooms may be granted an additional square footage allowance with DOE approval.

<b>Summary of Space Requirements</b>
--------------------------------------

Basic Program	Standard	
	T.S.	Total
Core Academic/Science	33	39,820
Special Education	0	6,600
Instructional Media Center	0	6,400
Visual Arts	2	3,050
Performing Arts	3	5,270
Physical Education	4	23,000
Career Education	4	6,500
Administration	0	3,820
Student Services	0	2,290
Student Dining & Food Service	0	11,400
Maintenance & Custodial Services	0	1,570
Subtotal		109,620
Building Support Areas		44,165
<b>Total</b>	<b>46</b>	<b>153,885</b>

**NOTE:** Anchorage School District middle school capacity would be 46 teaching Stations multiplied by a capacity factor of 23 students per teaching station for a total of 1,058 students.

## Core Academic Space Requirements

Required Space	Standard		
	Qty.	S.F.	Total
<b>Basic Program</b>			
Language Arts	8	900	7,200
Mathematics	8	900	7,200
Social Studies	8	900	7,200
World Language (May be associated with Library/Media Center)	1	900	900
Science	8	1,200	9,600
Science Prep/Storage	4	250	1,000
Planning Center	8	340	2,720
Textbook and Equipment Storage	4	200	800
Lockers	8	400	3,200
<b>Total</b>	<b>33</b>		<b>39,820</b>

Notes:

1. Based on 8-team Goldenview model.
2. Building support area to incorporate staff toilet facilities in this area.

## Special Education Space Requirements

Required Space	Standard		
	Qty.	S.F.	Total
<b>Basic Program</b>			
Resource/Study Skills/Small Group Room	2	500	4,000
Reading/Bilingual/Small Group Room	1	250	500
Basic Life Skills/Intensive Needs [Wet Lab]	1	1,200	1,200
Behavioral Support	0	900	900
<b>Total</b>	<b>12</b>		<b>6,600</b>

NOTES:

1. Resource/Small Group Rooms to be provided within the Core Academic areas. Locating two adjacent with a folding sound divider increases the flexibility of these spaces.
2. Reading/Bilingual Small Group Rooms to be located to support school program.

### Library / Media Center Space Requirements

Required Space	Standard		
	Qty.	S.F.	Total
<b>Basic Program</b>			
Main Reading, Reference, Stacks and Circulation			4,500
Librarian's Office	1	150	150
Workroom	1	500	500
Equipment and Non-Print Storage	1	350	350
Periodical Storage Area	1	200	200
Small Group/Conference Areas	2	250	500
Head End Room	1	200	200
<b>Total</b>	<b>0</b>		<b>6,400</b>

NOTE:

1. Office size would be adequate for librarian/media specialist. Assistants could have work stations in main library area for accessibility to students.
2. Co-location of world language classroom contiguous to the library/media center, increases library/media center square footage by 900 square feet.

### Visual Arts Space Requirements

Required Space	Standard		
	Qty.	S.F.	Total
<b>Basic Program</b>			
2-D & 3-D Studios	2	1,200	2,400
Storage	2	150	300
Workroom	1	200	200
Kiln Area	1	150	150
<b>Total</b>	<b>2</b>		<b>3,050</b>

**Performing Arts Space Requirements**

Required Space	Standard		
	Qty.	S.F.	Total
<b>Basic Program</b>			
Band Room	1	2,000	2,000
Multi-Use/Orchestra Room	1	1,000	1,000
Multi-Use/Choral	1	900	900
Practice Room	4	80	320
Office	1	250	250
Music Library/Workroom	1	300	300
Instrument Storage	2	250	500
<b>Total</b>	<b>3</b>		<b>5,270</b>

NOTE: If multi-use/choral space is not also the performance platform, then space for another program area should be provided.

**Physical Education / Health Space Requirements**

Required Space	Standard		
	Qty.	S.F.	Total
<b>Basic Program</b>			
Gymnasium	1	11,500	11,500
Aerobics/ Dance	1	3,000	3,000
Fitness / Weight Room	1	1,800	1,800
Classroom / Health	1	900	900
Locker Rooms	2	2,000	4,000
PE Offices	2	150	300
Storage Room	3	500	1,500
<b>Total</b>	<b>4</b>		<b>23,000</b>

1. Approximately 600 square feet of outdoor storage is needed for field equipment, etc., this is not counted in overall building square footage.

### Career Education Space Requirements

Required Space	Standard		
	Qty.	S.F.	Total
Business Education	1	1,000	1,000
Family and Consumer Sciences Class/Lab	1	2,000	2,000
Family and Consumer Sciences Storage	1	200	200
Technology Education Classroom	1	1,000	1,000
Technology Education Lab	1	1,800	1,800
Technology Education Storage	1	200	200
Video Production Room	1	120	120
Multi-Use/Planning/Small Group Conf	1	180	180
<b>Total</b>	<b>4</b>		<b>6,500</b>

### Administration Space Requirements

Required Space	Standard		
	Qty.	S.F.	Total
<b>Basic Program</b>			
Main School Entrance-See Circulation	0	0	0
Reception Waiting Area	1	300	300
Open Office Area [4-6 people]	1	500	500
Principal's Office	1	250	250
Assistant Principal	1	150	150
Administrative Assistant	1	120	120
Security Office	2	100	200
Parent/Community Work Center	1	300	300
Conference Room	2	300	600
Staff Room [Lounge]	1	700	700
Workroom/Mailroom	1	300	300
Restrooms (3 fixtures each)	2	125	250
Supply Storage Room	1	150	150
<b>Total</b>	<b>15</b>		<b>3820</b>

Note: The disbursement of some administrative space to other areas of the building as appropriate provides greater access. Examples could be the security office and some of the general offices.

**Student Services Space Requirements**

Required Space	Standard		
	Qty.	S.F.	Total
<b>Basic Program</b>			
Guidance/Student Services Reception	1	250	250
Counseling Office	4	120	480
Psychology Office	1	120	120
Special Education Office	1	120	120
Itinerant Office	1	120	120
Small Group Conference Room	1	150	150
Storage	1	150	150
Registrar	1	150	150
Records Room/Vault	1	200	200
School Health Office	1	100	100
School Health Area/Clinic	1	450	450
<b>Total</b>	<b>14</b>		<b>2290</b>

**Student Dining / Food Service Space Requirements**

Required Space	Standard		
	Qty.	S.F.	Total
<b>Basic Program</b>			
Student Dining	1	8,500	8,500
Kitchen/Serving/Storage	1	2,000	2,000
Office	1	100	100
Multipurpose/Dining Storage Area	1	500	500
Breakroom/Restroom/Lockers	1	200	200
Laundry	1	100	100
<b>Total</b>	<b>6</b>		<b>11,400</b>

Note: Platform for performances is provided by the adjacent multi-use music area.

## Maintenance & Custodial Services Space Requirements

Required Space	Standard		
	Qty.	S.F.	Total
<b>Basic Program</b>			
Supply Receiving & Loading	1	400	400
Supply, Equip & Misc Storage	1	400	400
BPO Office	1	120	120
Workroom	1	300	300
General Storage	1	200	200
Outdoor Storage [volatile]	1	150	150
<b>Total</b>	<b>6</b>		<b>1570</b>

NOTE:

1. Custodial closets are included in building support/circulation space.
2. Compactor pad and loading area are located outdoors.

## **HIGH SCHOOL SPACE SPECIFICATIONS**

The District-wide Educational Specification document, approved by the Board June 1998, serves as a tool to describe the program and design requirements for any future high school planning in the District.

### ***Educational Programs***

The Anchorage high schools offer comprehensive programs that include a variety of offerings, both required and elective, in the following general-subject areas:

- Core Academics (English, Math, Social Studies, World Language, Science)

- Visual Arts

- Performing Arts (Instrumental Music, Vocal Music, Drama)

- Junior ROTC

- Physical Education/Health

- Family and Consumer Science

- Business Education/Marketing

- Technology Education

An extensive Vocational Education program is offered at the King Career Center.

### ***Design Considerations***

Several general characteristics must be considered in designing a new high school. The building must be carefully integrated with existing site conditions, nearby neighborhoods and traffic patterns. If the design involves renovation and additions, careful consideration must be given to the existing building to make it contiguous with the planned changes. Site circulation must be designed to safely zone different types of vehicular and pedestrian traffic. Building design must be organized to aid in wayfinding and be easy to supervise and monitor. Ample hallway and common space must be included. It must be possible to separate and secure public-use spaces from other school spaces while providing access to telephone and restroom facilities. Interior lighting must be appropriately provided to meet the needs of each instructional area. Exterior lighting must be balanced to provide safe ingress and egress at all hours. Exterior landscaping should be planned to integrate the existing vegetation, support site circulation, beautify the grounds and provide adequate on-site snow storage, without posing safety hazards. Bus areas and student drop-off/pick-up areas need to be separated from other traffic functions.

### ***Project Parameters***

The high school Educational Specification is designed to be flexible to meet the needs of a high school of 1200, 1600, or 2000 students in grades 9 through 12. Additionally, a plan was developed for a 600-student optional high school. The educational specifications can be applicable for future high schools and additions/renovations.

The summary of space requirements for these sizes of schools is based on the State of Alaska Secondary Space Allocation of 150 square feet per student. It is not possible to provide dedicated space for all the functions that occur in a modern high school. To accommodate the need for space, the educational specifications identify basic program space to be provided in all schools. Additional programs can be provided by prioritizing and combining use for the functions listed on the lower section of the Summary of Space chart.

## Summary of High School Space Requirements

	1200 Students		1600 Students		2000 Students	
	T.S.	Total	T.S.	Total	T.S.	Total
<b>Total Basic Program (including Building Support Areas)</b>	<b>45</b>	<b>159,289</b>	<b>62</b>	<b>206,127</b>	<b>75</b>	<b>253,649</b>
<b>Net Square Footage Available for Additional Program Space - List Below</b>	<b>7</b>	<b>20,712</b>	<b>8</b>	<b>34,124</b>	<b>12</b>	<b>46,601</b>
<b>Total Allowable Net Square Footage</b>		<b>128,572</b>		<b>171,429</b>		<b>214,286</b>
Building Support Areas		51,429		68,572		85,714
<b>Total Teaching Stations / Total Allowable Gross Square Footage</b>	<b>52</b>	<b>180,001</b>	<b>70</b>	<b>240,001</b>	<b>87</b>	<b>300,000</b>

Basic Program	1200 Students		1600 Students		2000 Students	
	T.S.	Total	T.S.	Total	T.S.	Total
Core Academic/Science	37	42,235	53	59,080	63	71,400
Special Education	0	6,415	0	8,265	0	9,875
Media Center	0	6,300	0	7,150	0	8,840
Visual Arts	2	3,525	2	3,625	4	6,650
Performing Arts	2	4,990	3	7,175	3	8,480
JROTC	1	1,400	1	1,540	2	2,850
PE/Health	3	23,700	3	28,000	3	33,350
Administration/Health Services	0	3,865	0	4,590	0	4,740
Guidance & Student Services	0	1,650	0	1,875	0	2,350
Student Dining & Food Service	0	11,480	0	13,705	0	16,280
Maintenance & Custodial Services	0	2,300	0	2,550	0	3,120
Building Support Areas		51,429		68,572		85,714
<b>Total Basic Program</b>	<b>45</b>	<b>159,289</b>	<b>62</b>	<b>206,127</b>	<b>75</b>	<b>253,649</b>

<b>Additional Program Space</b>						
Core Academic [Large Group Instruction, Small Group Rooms]	0	4,800	0	5,200	0	6,000
Special Education	0	200	0	200	0	200
Media Center	0	490	0	610	0	610
Visual Arts	0	550	0	650	0	1,950
Performing Arts	0	2,530	0	11,110	1	13,600
JROTC	0	1,075	0	1,075	0	1,100
PE/Health	1	10,300	1	13,000	2	17,150
Family & Consumer Science	1	2,250	1	2,525	1	2,600
Business Education/Marketing	2	2,600	3	3,875	4	5,400
Technology Education	3	4,250	3	4,400	4	5,650