

New Arlington Career Center: Option 4 High School

Preliminary Space Program / Base Educational Specifications

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12.20.2021

Capacity: 1550 Students (600 Arlington Tech HS + 450 Arlington Tech MS, 300 CTE-only (per period), 70 EL, 60 Academic Academy, 70 PEP) Student:Teacher Ratios: Arlington Tech HS 26.9:1, Arlington Tech MS 25.15:1, CTE 20:1, EL/Academic Academy 15:1, PEP/Special Ed 10:1 Factored Space Utilization: 85% Schedule: 8-period block schedule for academic and technical programs 12.20.2021							
PROGRAM AREA DESCRIPTION	NSF / Space	Spaces Requ'd	NSF Ext'd	TS	Factored Capacity	Total Capacity	Notes
1.0 ACADEMIC / TECHNICAL							
1.1 Arlington Tech High School							
1.1.1 Core Academic Classroom	700	14	9,800	14	22.00	308.00	
1.1.2 Science Lab	1,400	5	7,000	5	22.00	110.00	
1.1.2.1 Prep Room	400	3	1,200				
1.1.2.2 Chemical Stg	100	1	100				
1.1.3 Special Needs Classroom	700	1	700	1	9.00	9.00	
1.1.4 Resource Room	400	4	1,600				
1.1.5 AT HS Coordinator Office	200	1	200				
Subtotal			20,600	20		427.00	
1.2 Arlington Tech Middle School							
1.2.1 Core Academic Classroom	700	15	10,500	17	21.00	357.00	Includes Math, Engl, SS, Reading, & WL
1.2.2 Science Lab	1,400	4	5,600	4	21.00	84.00	
1.2.2.1 Prep Room	200	3	600				
1.2.3 Special Needs Classroom	700	1	700	1	9.00	9.00	
1.2.4 Resource Room	400	3	1,200				
1.2.5 AT MS Coordinator Office	200	1	200				
Subtotal			18,800	22		450.00	
1.3 Program for Employment Preparedness							
1.3.1 Special Needs Classroom	700	8	5,600	8	9.00	72.00	
1.3.2 Life Skills Lab	1,000	1	1,000				
1.3.2.1 Toilet / Changing	100	1	100				
1.3.2.2 Storage	100	1	100				
1.3.3 Resource Room	400	1	400				
1.3.4 Sensory Room	150	1	150				
1.3.5 PEP Coordinator Office	200	1	200				
1.3.6 Conference Room	200	1	200				
1.3.7 PEP Businesses							
1.3.7.1 Office Squad	600	1	600				
1.3.7.2 Brown Box Kitchen	600	1	600				
Subtotal			8,950	8		72.00	
1.4 Academic Academy / English Learners							
1.4.1 Classroom	700	8	5,600	8	13.00	104.00	
1.4.2 Science Lab	1,400	2	2,800	2	13.00	26.00	
1.4.2.1 Prep Room	400	1	400				
1.4.3 Resource Room	400	2	800				
1.4.4 ELI Coordinator Office	200	1	200				
1.4.5 Academic Academy Coordinator	200	1	200				
Subtotal			10,000	10		130.00	
1.5 Career & Technical Education (High School)							
1.5.1 AFJROTC							
1.5.1.1 Lab	1400	1	1,400	1	22.00	22.00	Comply with AF/APS MOA, 2014
1.5.1.2 Office	200	1	200				Provide operable wall
1.5.1.3 Uniforms/Storage	400	1	400				Shared office
1.5.1.4 Armory	200	1	200				Create double-lock condition
1.5.1.5 Conference Room	200	1	200				
1.5.2 Early Childhood							
1.5.2.1 Classroom	700	1	700	1	17.00	17.00	Locate adj. to Teen Parenting, preschool
1.5.2.2 Lab	1200	1	1,200				Provide observation window
1.5.2.3 Toilet	50	1	50				Provide kitchenette, Ext. entry, tot lot
1.5.2.4 Laundry/Storage	50	1	50				
1.5.3 Comp. Science/Programming	700	2	1,400	2	22.00	44.00	
1.5.4 TFT, Entrepreneurship, C.I.	700	1	700	1	22.00	22.00	
1.5.5 TV/Media							
1.5.5.1 Classroom/Lab	1400	1	1,400	1	22.00	22.00	Digital Editing, Media, Graphics
1.5.5.2 TV Studio	1200	1	1,200				
1.5.5.2.1 Control Room	200	1	200				
1.5.5.2.2 Storage	200	1	200				Provide sufficient storage for sets
1.5.5.2.2 AE/TV MC	200	0	0				This program will remain in the existing ACC
1.5.6 Engineering	1400	2	2,800	2	22.00	44.00	
1.5.7 Digital Photography/Graphics	1400	2	2,800	2	22.00	44.00	Provide Storage within Labs
1.5.7.1 Server Closet	60	0	0				Closet area will reduce lab area
1.5.8 Cybersecurity	1400	1	1,400	1	22.00	22.00	Include space for server "sandbox"
1.5.9 EMT				0	22.00	0.00	
1.5.9.1 Lab	1400	2	2,800	2	22.00	44.00	

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1.5.10	Forensics	1400	1	1,400	1	22.00	22.00	
1.5.11	Health/Medical/Pharm. Tech	1400	1	1,400	1	22.00	22.00	
1.5.12	Phys Therapy/Sports Med							
	1.5.12.1 Lab	1400	1	1,400	1	22.00	22.00	
	1.5.12.2 Classroom	700	1	700	0	22.00	0.00	
1.5.13	Animal Sciences/Vet Tech	1400	2	2,800	2	17.00	34.00	Provide Storage within Labs
1.5.14	Auto Collision							
	1.5.14.1 Classroom	700	1	700	1	17.00	17.00	
	1.5.14.2 Lab	4000	1	4,000				Include space for paint booth
	1.5.14.2.1 Tool Storage	400	1	400				
	1.5.14.2.2 Paint Storage	200	1	200				
	1.5.14.2.3 Office	100	1	100				
1.5.15	Auto Technology							
	1.5.15.1 Classroom	700	3	2,100	3	17.00	51.00	
	1.5.15.2 Lab	5000	1	5,000				
	1.5.15.2.1 Tool Storage	400	1	400				
	1.5.15.2.2 Parts Storage	400	1	400				
	1.5.15.2.3 Changing Rm	100	1	100				
	1.5.15.2.3 Shared Office	300	1	300				All gender room - shared with Collision For three instructors
1.5.16	Aviation Technology	1400	1	1,400	1	17.00	17.00	
1.5.17	Cosmetology/Barbering							
	1.5.17.1 Lab	1400	2	2,800	2	17.00	34.00	Include classroom / lecture space in lab?
	1.5.17.1.1 Storage	200	2	400				
	1.5.17.1.2 Reception	100	0	0				Include within lab square footage
	1.5.17.1.2 Consultation	100	0	0				Include within lab square footage
	1.5.17.2 Classroom	700	0	0	0	17.00	0.00	Reduce lab SF to provide classroom
1.5.18	Culinary Arts							
	1.5.18.1 Classroom	700	2	1,400	2	17.00	34.00	
	1.5.18.2 Lab	2500	1	2,500				Baking and cooking, includes pantry
	1.5.18.2.1 Dry Storage	200	1	200				
	1.5.18.2.2 Refrig/Frzzr	200	1	200				
	1.5.18.2.3 Office	100	1	100				
	1.5.18.2.4 Changing Rm	200	1	200				All gender room
1.5.19	Electricity							
	1.5.19.1 Lab	1400	1	1,400	1	17.00	17.00	
	1.5.19.2 Classroom	700	1	700	0	17.00	0.00	"Clean" Classroom for 10-12 Students
Subtotal				52,000	28		551.00	
1.6	Career & Technical Education (Middle School)							
1.6.1	Work & Family Studies							
	1.6.1.1 Lab	1850	1	1,850				Nutrition Lab, Demo, Sewing (study SF)
	1.6.1.1.1 Storage	200	1	200				
1.6.2	Flexible CTE Labs	1200	3	3,600				Includes Business
Subtotal				5,650	0			
1.7	Project Labs							Spaces shared by all programs
1.7.1	Fabrication Lab	2,500	1	2,500				
	1.7.1.1 Storage	200	1	200				
Subtotal				2,700	0			
1.8	Collaborative Learning							Spaces shared by all programs Open spaces, distributed
1.8.1	Breakout	varies		2,000				
1.8.2	Small Group/Conference	200	4	800				
Subtotal				2,800	0			
1.9	Learning Support							Distributed Accommodate +/- 20 teachers per room Prayer, lactation, meds, etc.
1.9.1	Teacher Collaboration	1,000	3	3,000				
	1.9.1.1 Staff Toilet	50	3	150				
	1.9.1.2 Wellness Room	50	3	150				
1.9.2	Academic Storage	150	3	450				
1.9.3	Conference	200	3	600				
1.9.4	School Store	200	1	200				
Subtotal				4,550	0			
Program Area Total				126,050	88		1,630.00	

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ARTS								
2.1 Visual / Fine Arts								
2.1.1	Learning Labs	1,200	1	1,200	1	11.00	11.00	2D, 3D, Graphics Lab, Animation
2.1.1.1	Storage	200	2	400				
2.1.1.2	Pottery	400	1	400				
2.1.1.3	Kiln / Storage	200	1	200				
Subtotal				2,200	1		11	
2.2 Performing Arts								
2.2.1	General Music	1,800	1	1,800	1	11.00	11.00	Spaces shared by all HS and MS programs
2.2.1.2	Storage	400	2	800				
2.2.2	Music Lab	1,200	1	1,200	1	11.00	11.00	Flexible use, keyboard, digital recording, etc.
2.2.3	Ensemble / Practice	200	2	400				
2.2.4	Practice Room	100	2	200				
Subtotal				4,400	2		22	
2.3 Black Box								
2.3.1	Storage	2,500	1	2,500				Open, flexible performance space
2.3.2	Control Room	400	2	800				
2.3.2	Control Room	100	1	100				
2.2.3	Dressing Room w/ Toilet	400	2	800				
Subtotal				4,200	0		0	
Program Area Total				10,800	3		33.00	
ATHLETICS								
3.1 Physical Education								
3.1.1	Full Size Gymnasium	9,500	1	9,500	4	22.00	88.00	Accommodate up to 40 Students
3.1.2	Fitness Room	2,000	1	2,000	1	22.00	22.00	
3.1.3	Health Classrooms	1,200	1	1,200	1	22.00	22.00	
Subtotal				12,700	6		132.00	
3.2 Locker Room								
3.2.1	P.E. Locker Room (Open lockers)	800	1	800				
3.2.3	Unisex Toilets/Showers	100	6	600				
3.2.4	Unisex Changing Stalls	40	8	320				
3.2.6	Custodial Closet	50	2	100				
Subtotal				1,820	0			
3.3 Coaches & Faculty								
3.3.1	P.E. Faculty Office	600	1	600				Accommodate 6 staff
3.3.1.1	Toilet /Shower	100	2	200				
Subtotal				800	0			
3.4 Athletics/P.E. Support								
3.4.1	Laundry	400	1	400				(1) ea comm. and residential w/d
3.4.2.1	P.E. Storage	600	2	1,200				
3.4.2.2	Outdoor Storage	200	1	200				
Subtotal				1,800	0			
Program Area Total				17,120	6		132.00	
AUXILIARY								
4.1 Library / Media Services								
4.1.1	Reading/Shelving	2,000	1	2,000				Open and/or distributed space
4.1.3	Conference	200	1	200				
4.1.4	Office	200	1	200				Accommodate (2) staff offices
4.1.5	Storage	200	1	200				
4.1.6	Café	600	1	600				
Subtotal				3,200	0			
4.2 Dining								
4.2.1	Student Dining Room/Commons	5,000	1	5,000				
4.2.2	Chair/Table Storage	400	1	400				
Subtotal				5,400	0			
4.3 Food Preparation								
4.3.1	Kitchen / Serving	3,200	1	3,200				
4.3.2	Walk-in Refrigerator	200	1	200				
4.3.3	Walk-in Freezer	200	1	200				
4.3.4	Dry Storage	400	1	400				
4.3.5	Manager's Office	150	1	150				
4.3.7	Staff Lockers/Toilet	200	1	200				
4.3.8	Laundry	100	1	100				
4.3.9	Custodial / Storage	50	1	50				
Subtotal				4,500	0			
Program Area Total				13,100	0		0.00	

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ADMINISTRATION						
5.1 Main Office						
5.1.1	Main Office Reception	600	1	600		Combined HS and MS 5 workstations in open office
	5.1.1.1 (3) Admin Assist					
	5.1.1.2 Bi-Langual family Liason					
	5.1.1.3 Attendance Clerk					
5.1.3	Workroom/Mail	400	1	400		
5.1.4	Principal	200	1	200		
5.1.5	Assist. Principal	150	4	600		1MS + 3HS
5.1.6	Attendance Specialist	150	1	150		
5.1.7	Conference Room	400	2	800		
5.1.8	Treasurer	150	1	150		
5.1.9	Itinerant Office	120	1	120		Hoteling Station
5.1.10	Program Coordinators					
	5.1.10.1 Capstone Coordinator	150	1	150		
	5.1.10.2 Transition Coordinator	150	1	150		
	5.1.10.3 STEM Coordinator	150	1	150		
	5.1.10.4 RTG Coordinator	150	1	150		Resource Teacher for the Gifted
	5.1.10.5 STC Coordinator	150	1	150		School Testing Coordinator
	5.1.10.6 DEI Coordinator	150	1	150		Diveristy, Equity, Inclusion
	ITC Coordinator					Included with ITC Section
	Academy Coordinator					Included with Academy Section
	Arlington Tech HS Coord.					Included with Arlington Tech HS Section
	Arlington Tech MS Coord.					Included with Arlington Tech MS Section
	PEP Coordinator					Included with PEP Section
	ELI Coordinator					Included with ELI Section
	Teen Parenting Coord.					Included with Teen Parenting Section
	Outreach Coordinator					Included with Teen Parenting Section
5.1.11	Student Services					
	5.1.11.1 Psychologist	120	2	240		
	5.1.11.2 Social Workers	120	2	240		
	5.1.11.3 Substance Abuse	120	1	120		
	5.1.11.4 Security	150	1	150		Accomodate 3 security assistants
	5.1.11.5 TBD	120	2	240		Activity Director,
5.1.12	Records Storage	200	1	200		
5.1.13	Staff Toilet	50	2	100		
5.1.14	Storage	100	1	100		
Subtotal				5,310	0	
5.2 Counseling						
5.2.1	Reception	400	1	400		Counseling & AP Admin Assist
5.2.2	Director's Office	200	1	200		
5.2.3	Counselor's Office	150	6	900		1 per 250 students (2 MS+4 HS)
5.2.4	Registrar	120	1	120		
5.2.5	College Career Counselor	600	1	600		
5.2.6	NOVA Counselor	150	1	150		
5.2.7	Conference Room	200	1	200		
5.2.8	Workroom	150	1	150		
5.2.9	Records Storage	200	1	200		
5.2.10	Staff Toilet	50	2	100		
Subtotal				3,020	0	
5.3 Health Services						
5.3.1	Waiting/Reception	100	1	100		
5.3.2	Nurse's Office	120	1	120		
5.3.3	Exam Room	150	1	150		
5.3.4	Resting Area	150	4	600		
5.3.5	Storage	50	1	50		
5.3.6	Toilet	50	2	100		
Subtotal				1,120	0	
Program Area Total				9,450	0	0.00

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ANCILLARY						
6.1 Instructional Technology Services						
6.1.1	ITC Coord Office/Workroom	400	1	400		Shared office space for 2-3 staff
6.1.2	Digital Technology Storage	200	1	200		
6.1.3	ITS Computer Multi-Media Lab	600	1	600		Serve students and teachers
6.1.4	MDF Room	200	1	200		
6.1.5	Data Closets	100	10	1,000		
Subtotal				2,400	0	
6.2 Building Services						
6.2.1	Central Receiving / Storage	800	1	800		
6.2.2	Custodial Staff Office / Lounge	400	1	400		
6.2.3	Toilets / Lockers	100	2	200		
6.2.5	Mechanical/Electrical Equip	4,000	1	4,000		
6.2.6	Public/Student Restrooms	500	8	4,000		
Subtotal				9,400	0	
Program Area Total				11,800	0	0.00
TEEN PARENTING PROGRAM						
7.1 TEEN PARENTING PROGRAM						
7.1.1	TP Coordinator	200	1	200		
7.1.2	Outreach Coordinator	200	1	200		
7.1.3	Classrooms	350	4	1,400		
7.1.4	Records	100	1	100		
7.1.5	Storage	100	2	200		
7.1.6	Kitchenette	100	1	100		
7.1.7	Staff Toilet	50	1	50		
7.1.8	Child Toilet	60	2	120		
7.1.9	Laundry	40	1	40		
7.1.10	Nursing Station	100	1	100		
7.1.11	Indoor Play Area	1,400	1	1,400		
Subtotal				3,910		
Program Area Total				3,910	0	0.00

Total Teaching Stations & Capacity

97

1,795.00

Total Net Program Area

192,230

Non-Program Space @ .40

76,892

Total Gross Building Area

269,122