

Plan for Classrooms with Sub-standard HVAC
(Aug 12th, 2021)

Building	Rm	Room Type	Seating Capacity	Area (sq.ft)	Density (sq.ft/person)	HVAC (cfm)	ACH	Windows	Fall Term Solution	Original High Level Budget	Improved HVAC (cfm)	New ACH	Improvement Status
Sexton Campus (28)													
A Building	A102	Special Purpose Teaching	28	652	23	150	1.8	Yes	Increase air supply from AHU by increasing duct size	(inc below)	370	4.5	Completed
A Building	A201	Computer Lab	40	992	25	0	0.0	Yes	Utilize windows to supply fresh air & add HEPA unit	\$ 10,000	1700	11.0	Awaiting new equipment
A Building	A222	Computer Lab	30	918	31	0	0.0	Yes	Utilize windows to supply fresh air and existing heat pump units & add HEPA unit	\$ 7,500	1700	13.8	Completed
B Building	B099	Special Purpose Teaching	12	1211	101	0	0.0	Yes	Current reno project added new ventilation		1700	8.3	Completed
B Building	B226	Tiered /Fixed Classroom	64	1061	17	449	2.7	Yes	Re-balance air flows on ventilation distribution serving these rooms	\$ 9,500	1124	6.8	Completed
B Building	B227	Tiered /Fixed Classroom	64	1061	17	378	2.3	Yes	Re-balance air flows on ventilation distribution serving these rooms	Inc. above)	1291	7.8	Completed
B Building	B228	Tiered /Fixed Classroom	60	1002	17	348	2.2	Yes	Re-balance air flows on ventilation distribution serving these rooms	Inc. above)	1191	7.6	Completed
B Building	B229	Tiered /Fixed Classroom	64	1060	17	114	0.7	Yes	Re-balance air flows on ventilation distribution serving these rooms	Inc. above)	467	2.8	Further changes required
B Building	B316	Computer Lab	55	1703	31	0	0.0	No	Increase air supply from AHU with ducting repairs and balancing	\$ 4,500	918	3.5	Completed
G Building	G001	Special Purpose Teaching	60	2117	35	0	0.0	Yes	Utilize large garage doors and portable air fans to supply fresh air	\$ 1,250		0.0	In progress
G Building	G004	Special Purpose Teaching	20	604	30	0	0.0	Yes	Workshop type area - Exhaust air was measured at 787 cfm - utilize windows for fresh air	\$ 1,250	787	10.8	Completed
G Building	G006	Special Purpose Teaching	15	667	44	0	0.0	No	Workshop type area - Utilize portable fans to move air	\$ 1,250		0.0	In progress
G Building	G007	Special Purpose Teaching	20	548	27	201	3.0	No	Workshop type area - Utilize existing air cleaner to move air	\$ 1,250	201	3.0	Completed
G Building	G104	Special Purpose Teaching	8	428	54	0	0.0	Yes	Workshop type area - Utilize windows and portable fans to move air	\$ 1,250		0.0	In progress
G Building	G107	Special Purpose Teaching	6	574	96	0	0.0	Yes	Workshop type area - Utilize windows and portable fans to move air	\$ 1,250		0.0	In progress
G Building	G210	Computer Lab	12	494	41	0	0.0	No	Investigate ceiling grill with no flow / may have to seek other computer lab space			0.0	Room not to be used
G Building	G214	Flat Floor Classroom	42	788	19	0	0.0	Yes	Utilize windows to supply fresh air and add HEPA unit	\$ 7,500	1700	12.7	Completed
G Building	G215	Classroom	25	543	22	0	0.0	Yes	Utilize windows to supply fresh air and add HEPA unit	\$ 7,500	1700	18.4	Completed
Medjuck (H)	HA18	Tiered /Fixed Classroom	46	708	15	204	2.3	Yes	Increase air supply from AHU / re-balance area	\$ 500		0.0	In progress
Medjuck (H)	HB1	Classroom	12	231	19	108	3.7	Yes	Adjustments and further testing resulted in increased air flows	\$ 500	108	3.7	Completed
Medjuck (H)	HD1 & HD1A	Special Purpose Teaching	52	3624	70	705	0.7	Yes	Install a supply air duct from exhibition space unit	\$ 45,000		0.0	In progress
Medjuck (H)	HD2D	Special Purpose Teaching	20	400	20	95	1.9	no	Install a supply air duct from exhibition space unit	(inc above)	375	7.4	Completed
Medjuck (H)	HD3 & HD3A	Special Purpose Teaching	52	3149	61	887	1.0	Yes	Install a supply air duct from exhibition space unit	(inc above)		0.0	In progress
Medjuck (H)	HD4	Classroom	12	307	26	75	1.8	no	Increase air supply from AHU / re-balance area	\$ 4,500		0.0	In progress
O'Brien Hall	700	Special Purpose Teaching	20	967	48	132	1.2	yes	Increase air supply from AHU / re-balance area	\$ 300		0.0	In progress
O'Brien Hall	715	Special Purpose Teaching	24	718	30	257	3.2	yes	Adjustments and further testing resulted in increased air flows	\$ 300	257	3.2	Completed
Carleton Campus (12)													
	Rm	Room Type	Capacity	Area (sq.ft)	Density (sq.ft/person)	HVAC (cfm)	ACH	Windows	Fall Term Solution	Original High Level Budget	Improved HVAC (cfm)	New ACH	Status
FORREST	G38	Classroom	10	273	27	0	0.0	Yes	Utilize existing window to supply fresh air and add HEPA unit	\$ 5,000.00	1700	51.7	Completed
FORREST	112	Classroom	20	314	16	0	0.0	Yes	Utilize existing window and existing ceiling fans to supply air and add a HEPA Unit	\$ 5,000.00	1700	27.3	Completed
FORREST	147	Special Purpose Teaching	50	291	6	0	0.0	Yes	Utilize existing windows and existing ceiling fans to supply air and add a HEPA Unit	\$ 7,500.00	1700	29.5	Completed
FORREST	201	Classroom	13	262	20	0	0.0	Yes	Utilize window and install a HEPA unit	\$ 5,000.00	1700	32.7	Completed
FORREST	201A	Special Purpose Teaching	12	967	81	0	0.0	Yes	Remove window between rooms to allow flow into this room and add HEPA unit	\$ 8,000.00	1700	8.9	Completed
FORREST	213	Special Purpose Teaching	70	1692	24	0	0.0	Yes	Utilize existing windows and existing ceiling fans to supply air and add a HEPA Unit	\$ 15,000.00	1700	4.4	Completed
FORREST	218	Classroom	11	260	24	0	0.0	Yes	Utilize existing window to supply fresh air and add HEPA unit	\$ 5,000.00	1700	33.0	Completed
FORREST	219	Special Purpose Teaching	70	1505	22	0	0.0	Yes	Utilize existing windows and existing ceiling fans to supply air and add a HEPA Unit	\$ 12,500.00	1700	5.7	Completed
FORREST	309	Special Purpose Teaching	80	2559	32	0	0.0	Yes	Utilize existing window and existing ceiling fans to supply air and add 2 HEPA units	\$ 22,500.00	3400	6.9	Completed
FORREST	415	Special Purpose Teaching	60	2448	41	0	0.0	Yes	Utilize existing window and existing ceiling fans to supply air and add 2 HEPA units	\$ 22,500.00	3400	8.2	Completed
FORREST	421	Classroom	18	330	18	0	0.0	Yes	Utilize existing windows to supply fresh air and add HEPA unit	\$ 5,000.00	1700	30.3	Completed
FORREST	425	Classroom	12	203	17	0	0.0	No	Restore air to room (60 cfm) and try to increase volume	\$ 5,000.00	60	1.7	In progress
Studley Campus (6)													
	Rm	Room Type	Capacity	Area (sq.ft)	Density (sq.ft/person)	HVAC (cfm)	ACH	Windows	Fall Term Solution	Original High Level Budget	Improved HVAC (cfm)	New ACH	Status
SIR JAMES DUNN	208	Computer Lab	23	605	26	0	0.0	Yes	Utilize existing window to supply fresh air and add HEPA unit	\$ 2,500.00	1700	18.0	Awaiting new equipment
SIR JAMES DUNN	221C	Flat Floor Classroom	35	860	25	260	1.9	Yes	Adjustments and testing after reno work was completed resulted in improved air flows	\$ 500.00	756	5.6	Completed
CHASE BLDG	107	Classroom	5	192	38	0	0.0	Yes	Investigate ducting supply air from AHU chase	\$ 12,500.00		0.0	In progress
CHASE BLDG	319	Flat Floor Classroom	36	1231	34	0	0.0	Yes	Investigate ducting supply air from AHU chase	\$ 201.00		0.0	In progress
HENRY HICKS ACADEMIC	212	Tiered /Fixed Classroom	110	1110	10	0	0.0	Yes	Utilize existing window to supply fresh air and add HEPA unit	\$ 12,500.00	1700	9.0	Completed
HENRY HICKS ACADEMIC	217	Tiered /Fixed Classroom	73	1073	15	0	0.0	Yes	Utilize existing window to supply fresh air and add HEPA unit	\$ 12,500.00	1700	9.3	Completed
AC Campus (7)													
	Rm	Room Type	Capacity	Area (sq.ft)	Density (sq.ft/person)	HVAC (cfm)	ACH	Windows	Fall Term Solution	Original High Level Budget	Improved HVAC (cfm)	New ACH	Status
BANTING BUILDING	2	Special Purpose Teaching	15	2726	182	0	0.0	Yes	Restore existing AHU to provide fresh air	\$ 9,500.00	10000	14.4	Completed
BANTING BUILDING	5	Special Purpose Teaching	4	855	214	0	0.0	No	Install a Hepa unit to clean the air	\$ 7,500.00	1700	7.8	Completed
BANTING BUILDING	6A	Special Purpose Teaching	15	1037	69	0	0.0	No	Install a Hepa Filtered Air Purifier	\$ 12,500.00	1700	6.4	Completed
BANTING BUILDING	7	Classroom	15	439	29	0	0.0	Yes	Utilize existing window to supply fresh air and add HEPA unit	\$ 7,500.00	1700	27.3	Completed
BANTING BUILDING	9	Special Purpose Teaching	15	3421	228	0	0.0	Yes	Utilize windows and two existing air cleaners to supply fresh air / physical distancing	\$ -		0.0	Completed
COLLINS BUILDING	105	Computer Lab	24	942	39	0	0.0	Yes	Utilize existing window to supply fresh air and add HEPA unit	\$ 7,500.00	1700	11.6	Completed
COLLINS BUILDING	110	Flat Floor Classroom	30	706	24	0	0.0	Yes	Utilize existing window to supply fresh air and add HEPA unit	\$ 7,500.00	1700	14.2	Completed
Totals (53)										\$	315,801		
Recently Added Classrooms (added after secondary review)													
	Rm	Room Type	Capacity	Area (sq.ft)	Density (sq.ft/person)	HVAC (cfm)	ACH	Windows	Fall Term Solution		Improved HVAC (cfm)	New ACH	Status
Medjuck (H)	HB3A	Special Purpose Teaching	14	428	31	72	1.5		Include this room in plan for H Building improvements above				

