

Efficient Scheduling through Space Optimization at the Medical Education Campus: Fall 2019

Research Report No. 71-20

Office of Institutional Effectiveness and Student Success

JULY 2020

NORTHERN VIRGINIA COMMUNITY COLLEGE

Office of Institutional Effectiveness and Student Success

The purpose of the Office of Institutional Effectiveness and Student Success is to conduct analytical studies and provide information in support of institutional planning, policy formulation, and decision making. In addition, the office provides leadership and support in research-related activities to members of the NOVA community engaged in planning and evaluating the institution's success in accomplishing its mission.

When citing data from this report, the Northern Virginia Community College (NOVA) Office of Institutional Effectiveness and Student Success must be cited as the source.

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This Report presents seat utilization rates by discipline and course at the Medical Education Campus for Fall 2019. The seat utilization rate for each section of a course is calculated by dividing the number of students enrolled in the section by the room capacity, or the number of seats that fit in the classroom. Data were unduplicated by class number. The following types of classes/sections have been excluded: cancelled classes, NOVA Online sections, off-campus venues sections, auditoriums or classroom with capacity over 60, zero-credit labs, applied music courses (private lessons), music ensemble courses, and courses designated as internships, on-the-job training, or independent study.

Tables are divided by discipline and sorted by course number in descending order of the seat utilization rate for the sections. Other information by section includes: component (type of class, e.g., lecture, credit-bearing lab, etc.), room number, meeting days, start and end time, and number of empty seats. The utilization rate is color coded as follows:

0-32 percent - low utilization – Red

33-65 percent – medium utilization – Blue

Over 66 percent – high utilization – Green

Discipline=DMS

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
DMS	206	001H	LEC	LHE-0253	W	1:30 PM	4:30 PM	26	35	9		74.3%
DMS	207	001H	LEC	LHE-0253	W	8:30 AM	10:30 AM	26	35	9		74.3%
DMS	208	001H	LEC	LHE-0253	M	8:30 AM	10:30 AM	26	35	9		74.3%
DMS	217	0G2H	LAB	LHE-0227	R	9:50 AM	11:50 AM	8	13	5		61.5%
DMS	217	0C1H	LAB	LHE-0227	R	2:45 PM	4:45 PM	6	13	7		46.2%
DMS	217	0G1H	LAB	LHE-0227	R	7:50 AM	9:50 AM	6	13	7		46.2%

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
DMS	217	0V1H	LAB	LHE-0227	W	10:30 AM	12:30 PM	6	13	7		46.2%
DMS	218	001H	LAB	LHE-0227	M	11:00 AM	1:00 PM	14	13	-1		107.7%
DMS	218	002H	LAB	LHE-0227	M	1:00 PM	3:00 PM	12	13	1		92.3%
DMS	222	0G1H	LEC	LHE-0227	T	8:30 AM	12:30 PM	12	13	1		92.3%
DMS	223	001H	LEC	LHE-0212	T	4:30 PM	6:30 PM	12	18	6		66.7%
DMS	266	0V1H	LEC	LHE-0227	T	8:30 AM	12:30 PM	5	13	8		38.5%
DMS	295	0V1H	LEC	LHE-0211	F	10:30 AM	12:30 PM	5	12	7		41.7%

Discipline=DNA

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
DNA	100	001H	LEC	LHE-0212	F	8:00 AM	8:50 AM	16	18	2		88.9%
DNA	108	001H	LEC	LHE-0212	M	8:00 AM	9:50 AM	16	18	2		88.9%
DNA	110	001H	LEC	LHE-0146	T	12:00 PM	1:50 PM	16	10	-6		160.0%
DNA	113	001H	LEC	LHE-0146	M	1:00 PM	2:50 PM	16	10	-6		160.0%
DNA	134	001H	LEC	LHE-0355	T	9:30 AM	11:20 AM	16	37	21		43.2%

Discipline=DNH

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
DNH	111	005H	LEC	LHE-0329	T	10:00 AM	11:50 AM	36	40	4		90.0%

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
DNH	115	001H	LEC	LHE-0329	F	9:00 AM	11:50 AM	36	40	4		90.0%
DNH	130	001H	LEC	LHE-0329	T	1:00 PM	2:50 PM	33	40	7		82.5%
DNH	141	001H	LEC	LHE-0329	M	9:00 AM	11:50 AM	36	40	4		90.0%
DNH	226	001H	LEC	LHE-0146	R	10:00 AM	11:50 AM	26	10	-16		260.0%
DNH	235	001H	LEC	LHE-0132	W	9:00 AM	10:20 AM	26	30	4		86.7%
DNH	244	001H	LEC	LHE-0132	W	10:30 AM	11:20 AM	26	30	4		86.7%

Discipline=EMS

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
EMS	111	001H	LEC	LHE-0151	M	9:00 AM	2:00 PM	17	30	13		56.7%
EMS	115	001H	LEC	LHE-0174	R	3:00 PM	5:00 PM	5	38	33		13.2%
EMS	120	081H	LAB	LHE-0174	S	1:00 AM	3:00 AM	17	38	21		44.7%
EMS	120	082H	LAB	LHE-0174	N	1:00 AM	3:00 AM	9	38	29		23.7%
EMS	121	001H	LEC	LHE-0151	T	9:00 AM	11:00 AM	8	30	22		26.7%
EMS	123	0A1H	LAB	LHE-0174	T	11:00 AM	1:00 PM	8	38	30		21.1%
EMS	125	001H	LEC	LHE-0151	R	1:00 PM	2:00 PM	8	30	22		26.7%
EMS	126	0A1H	LAB	LHE-0174	R	2:00 PM	4:00 PM	8	38	30		21.1%
EMS	127	001H	LEC	LHE-0151	T	1:30 PM	2:30 PM	8	30	22		26.7%
EMS	128	0A1H	LAB	LHE-0174	T	2:30 PM	4:30 PM	8	38	30		21.1%
EMS	135	001H	LEC	LHE-0151	R	6:30 PM	8:30 PM	8	30	22		26.7%
EMS	136	0A1H	LAB	LHE-0174	R	4:00 PM	6:00 PM	8	38	30		21.1%

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
EMS	137	001H	LEC	LHE-0151	T	7:00 PM	8:00 PM	8	30	22		26.7%
EMS	138	0A1H	LAB	LHE-0174	T	4:30 PM	6:30 PM	8	38	30		21.1%
EMS	155	001H	LEC	LHE-0151	M	6:30 PM	9:30 PM	17	30	13		56.7%
EMS	159	001H	LEC	LHE-0151	M	4:00 PM	6:00 PM	17	30	13		56.7%
EMS	165	021H	LEC	LHE-0174	MF	9:00 AM	5:00 PM	14	38	24		36.8%
EMS	169	021H	LEC	LHE-0174	MF	9:00 AM	5:00 PM	14	38	24		36.8%
EMS	172	001H	LAB	LHE-0174	F	7:00 AM	1:00 PM	7	38	31		18.4%
EMS	172	002H	LAB	LHE-0174	F	1:00 PM	7:00 PM	6	38	32		15.8%
EMS	172	003H	LAB	LHE-0174	S	8:00 AM	2:00 PM	5	38	33		13.2%
EMS	173	0A1H	LAB	LHE-0174	MF	9:00 AM	5:00 PM	18	38	20		47.4%
EMS	211	001H	LEC	LHE-0256	M	10:00 AM	11:00 AM	6	48	42		12.5%
EMS	216	001H	LAB	LHE-0174	TW	9:00 AM	5:00 PM	7	38	31		18.4%
EMS	242	003H	LAB	LHE-0174	S	2:00 PM	5:00 PM	5	38	33		13.2%
EMS	242	001H	LAB	LHE-0174	F	9:00 AM	3:00 PM	2	38	36		5.3%
EMS	242	002H	LAB	LHE-0174	F	3:00 PM	9:00 PM	2	38	36		5.3%

Discipline=HIM

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
HIM	111	001H	LEC	LHE-0328	W	9:00 AM	11:50 AM	17	26	9		65.4%
HIM	111	003H	LEC	LHE-0328	T	9:00 AM	11:50 AM	16	26	10		61.5%
HIM	141	002H	LEC	LHE-0328	W	12:00 PM	2:50 PM	8	26	18		30.8%

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
HIM	250	002H	LEC	LHE-0328	M	10:00 AM	2:00 PM	18	26	8		69.2%
HIM	250	001H	LEC	LHE-0328	M	3:00 PM	7:00 PM	13	26	13		50.0%

Discipline=HLT

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
HLT	141	001H	LEC	LHE-0252	W	10:30 AM	11:20 AM	28	35	7		80.0%
HLT	141	002H	LEC	LHE-0252	T	4:00 PM	4:50 PM	27	35	8		77.1%
HLT	145	001H	LEC	LHE-0256	F	12:30 PM	2:20 PM	14	48	34		29.2%
HLT	220	001H	LEC	LHE-0252	R	12:00 PM	2:40 PM	29	35	6		82.9%
HLT	250	001H	LEC	LHE-0252	W	12:00 PM	2:40 PM	14	35	21		40.0%
HLT	250	002H	LEC	LHE-0353	S	10:00 AM	12:40 PM	3	35	32		8.6%

Discipline=MDL

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
MDL	100	01YH	LEC	LHE-0228	T	6:00 AM	7:00 AM	8	13	5		61.5%
MDL	101	001H	LEC	LHE-0252	MW	8:30 AM	10:30 AM	19	35	16		54.3%
MDL	105	081H	LEC	LHE-0254	MW	5:00 PM	7:00 PM	12	25	13		48.0%
MDL	106	002H	LEC	LHE-0230	T	4:00 AM	8:00 AM	6	20	14		30.0%
MDL	106	003H	LEC	LHE-0228	M	4:00 AM	8:00 AM	3	13	10		23.1%

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
MDL	106	001H	LEC	LHE-0230	M	4:00 AM	8:00 AM	4	20	16		20.0%
MDL	106	004H	LEC	LHE-0230	M	4:00 AM	8:00 AM	4	20	16		20.0%
MDL	125	001H	LEC	LHE-0212	T	8:30 AM	10:30 AM	21	18	-3		116.7%
MDL	140	Y01H	LEC	LHE-0228	MW	10:30 PM	11:50 PM	27	13	-14		207.7%
MDL	215	001H	LEC	LHE-0329	R	12:00 PM	2:00 PM	20	40	20		50.0%
MDL	216	001H	LEC	LHE-0212	W	8:30 AM	10:30 AM	7	18	11		38.9%
MDL	243	001H	LEC	LHE-0212	R	2:30 PM	4:30 PM	8	18	10		44.4%
MDL	251	080H	LEC	LHE-0212	R	8:30 AM	10:30 AM	8	18	10		44.4%

Discipline=NSG

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
NSG	100	001H	LEC	LHE-0353	T	9:00 AM	12:00 PM	19	35	16		54.3%
NSG	100	004H	LEC	LHE-0353	T	1:00 PM	4:00 PM	19	35	16		54.3%
NSG	106	001H	LEC	LHE-0254	W	8:00 AM	12:00 PM	10	25	15		40.0%
NSG	106	007H	LEC	LHE-0254	R	1:00 PM	5:00 PM	10	25	15		40.0%
NSG	106	011H	LEC	LHE-0254	F	1:00 PM	5:00 PM	10	25	15		40.0%
NSG	106	002H	LEC	LHE-0255	W	8:00 AM	12:00 PM	10	26	16		38.5%
NSG	106	004H	LEC	LHE-0255	W	1:00 PM	5:00 PM	10	26	16		38.5%
NSG	106	003H	LEC	LHE-0254	W	1:00 PM	5:00 PM	9	25	16		36.0%
NSG	106	012H	LEC	LHE-0255	F	1:00 PM	5:00 PM	8	26	18		30.8%
NSG	106	009H	LEC	LHE-0254	F	8:00 AM	12:00 PM	7	25	18		28.0%

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
NSG	106	005H	LEC	LHE-0225	R	8:00 AM	12:00 PM	10	48	38		20.8%
NSG	106	006H	LEC	LHE-0225	R	8:00 AM	12:00 PM	10	48	38		20.8%
NSG	106	008H	LEC	LHE-0225	R	1:00 PM	5:00 PM	10	48	38		20.8%
NSG	106	010H	LEC	LHE-0255	F	8:00 AM	12:00 PM	5	26	21		19.2%
NSG	200	003H	LEC	LHE-0254	T	8:00 AM	10:00 AM	20	25	5		80.0%
NSG	200	005H	LEC	LHE-0254	T	1:00 PM	3:00 PM	20	25	5		80.0%
NSG	200	001H	LEC	LHE-0254	M	1:00 PM	3:00 PM	19	25	6		76.0%
NSG	200	002H	LEC	LHE-0255	M	1:00 PM	3:00 PM	18	26	8		69.2%
NSG	200	004H	LEC	LHE-0252	T	8:00 AM	10:00 AM	20	35	15		57.1%
NSG	200	006H	LEC	LHE-0252	T	1:00 PM	3:00 PM	13	35	22		37.1%
NSG	210	001H	LEC	LHE-0252	F	9:00 AM	12:00 PM	23	35	12		65.7%
NSG	210	004H	LEC	LHE-0252	F	1:00 PM	4:00 PM	23	35	12		65.7%
NSG	211	006H	LEC	LHE-0354	F	1:00 PM	4:00 PM	16	29	13		55.2%
NSG	211	003H	LEC	LHE-0354	F	9:00 AM	12:00 PM	15	29	14		51.7%
NSG	211	002H	LEC	LHE-0353	F	9:00 AM	12:00 PM	15	35	20		42.9%
NSG	211	005H	LEC	LHE-0353	F	1:00 PM	4:00 PM	15	35	20		42.9%
NSG	211	001H	LEC	LHE-0352	F	9:00 AM	12:00 PM	16	60	44		26.7%
NSG	211	004H	LEC	LHE-0352	F	1:00 PM	4:00 PM	15	60	45		25.0%

Discipline=NUR

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
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Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
NUR	222	001H	LEC	LHE-0316	M	1:00 PM	5:00 PM	1	1	0		100.0%

Discipline=OCT

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
OCT	100	001H	LEC	LHE-0354	R	12:30 PM	3:30 PM	20	29	9		69.0%
OCT	202	001H	LEC	LHE-0354	M	4:00 PM	7:00 PM	20	29	9		69.0%
OCT	205	001H	LEC	LHE-0354	R	9:00 AM	10:00 AM	19	29	10		65.5%
OCT	206	01H	LEC	LHE-0354	M	12:30 PM	3:30 PM	20	29	9		69.0%
OCT	208	001H	LEC	LHE-0354	M	9:00 AM	12:00 PM	20	29	9		69.0%
OCT	210	001H	LEC	LHE-0354	T	4:00 PM	6:00 PM	20	29	9		69.0%
OCT	225	01H	LEC	LHE-0354	T	9:00 AM	12:00 PM	19	29	10		65.5%

Discipline=PTH

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
PTH	105	001H	LEC	LHE-0256	T	12:00 PM	1:00 PM	39	48	9		81.3%
PTH	121	001H	LEC	LHE-0256	MR	8:00 AM	9:20 AM	39	48	9		81.3%
PTH	151	001H	LEC	LHE-0256	WF	8:00 AM	9:20 AM	40	48	8		83.3%
PTH	225	080H	LEC	LHE-0355	MTWF	8:00 AM	9:20 AM	33	37	4		89.2%
PTH	231	001H	LEC	LHE-0256	R	10:00 AM	2:00 PM	33	48	15		68.8%

Discipline=RAD

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
RAD	105	001H	LEC	LHE-0256	T	6:00 PM	8:00 PM	33	48	15		68.8%
RAD	105	002H	LEC	LHE-0352	R	9:00 AM	11:00 AM	38	60	22		63.3%
RAD	205	001H	LEC	LHE-0352	T	9:30 AM	12:30 PM	36	60	24		60.0%
RAD	246	001H	LEC	LHE-0352	T	1:00 PM	3:00 PM	36	60	24		60.0%

Discipline=ROC

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
ROC	125	001H	LEC	LHE-0211	W	11:00 AM	1:00 PM	7	12	5		58.3%

Discipline=RTH

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
RTH	102	001H	LEC	LHE-0253	TR	10:30 AM	11:45 AM	21	35	14		60.0%
RTH	111	001H	LEC	LHE-0253	TR	9:00 AM	10:15 AM	21	35	14		60.0%
RTH	120	002H	LEC	LHE-0254	TR	10:30 AM	12:30 PM	13	25	12		52.0%
RTH	120	Y01H	LEC	LHE-0255	TR	5:30 PM	7:30 PM	11	26	15		42.3%
RTH	145	001H	LEC	LHE-0253	T	12:45 PM	1:45 PM	21	35	14		60.0%

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
RTH	151	001H	LEC	LHE-0253	R	12:45 PM	1:45 PM	21	35	14		60.0%
RTH	215	001H	LEC	LHE-0255	R	10:30 AM	11:30 AM	16	26	10		61.5%
RTH	222	001H	LEC	LHE-0255	TR	9:00 AM	10:15 AM	16	26	10		61.5%
RTH	223	001H	LEC	LHE-0255	R	12:30 PM	2:10 PM	16	26	10		61.5%
RTH	236	001H	LEC	LHE-0255	T	12:00 PM	1:40 PM	16	26	10		61.5%

Discipline=SDV

Discipline	Course	Section	Component	Room #	Meeting Days	Start Time	End Time	Enrolled	Room Capacity	# Empty Seats	Combined Section	Utilization Rate
SDV	101	019H	LEC	LHE-0253	F	6:00 PM	7:50 PM	34	35	1		97.1%
SDV	101	010H	LEC	LHE-0253	S	10:00 AM	11:50 AM	33	35	2		94.3%
SDV	101	002H	LEC	LHE-0253	T	6:00 PM	7:50 PM	28	35	7		80.0%
SDV	101	003H	LEC	LHE-0253	W	6:00 PM	7:50 PM	28	35	7		80.0%
SDV	101	007H	LEC	LHE-0253	S	10:00 AM	11:50 AM	27	35	8		77.1%
SDV	101	005H	LEC	LHE-0253	R	2:30 PM	4:20 PM	26	35	9		74.3%
SDV	101	020H	LEC	LHE-0253	R	2:00 PM	3:50 PM	25	35	10		71.4%
SDV	101	023H	LEC	LHE-0253	T	6:00 PM	7:50 PM	24	35	11		68.6%
SDV	101	001H	LEC	LHE-0256	W	10:00 AM	11:50 AM	32	48	16		66.7%
SDV	101	26H	LEC	LHE-0256	T	10:00 AM	11:50 AM	29	48	19		60.4%

PATHWAY TO THE AMERICAN DREAM—NOVA'S STRATEGIC PLAN 2017-2023

THE NOVA COMMITMENT

As its primary contributions to meeting the needs of the Commonwealth of Virginia, the Northern Virginia Community College pledges to advance the social and economic mobility of its students while producing an educated citizenry for the 21st Century.

THE STRATEGIC PLAN GOALS AND OBJECTIVES

To deliver on this commitment NOVA will focus its creativity and talent, its effort and energy, and its resources and persistence, on achieving three overarching goals—success, achievement, and prosperity. It will strive to enable **Every Student to Succeed, Every Program to Achieve, and Every Community to Prosper.**

To advance the completion agenda described above, thereby promoting students' success and enhancing their social mobility, ensuring that programs achieve, and producing an educated citizenry for the 21st Century, the following goals and objectives are adopted:

GOAL 1: Every Student Succeeds

- **Objective 1:** Develop a College-wide approach to advising that ensures all students are advised and have access to support throughout their time at NOVA
- **Objective 2:** Implement VIP-PASS System as the foundational technology based on NOVA Informed Pathways for student self-advising, assignment and coordination of advisors, and course registration

GOAL 2: Every Program Achieves

- **Objective 3:** Develop comprehensive, fully integrated Informed Pathways for every program to ensure seamless transitions from high school and other entry points to NOVA, and from NOVA to four-year transfer institutions or the workforce
- **Objective 4:** Develop effective processes and protocols for programmatic College-wide collective decisions that include consistent, accountable leadership and oversight of each academic program with designated "owners," active advisory committees, clear student learning outcomes and assessments, and program reviews in all modalities of instruction
- **Objective 5:** Align NOVA's organizational structures, position descriptions, and expectations for accountability with its overarching mission to support student engagement, learning, success and institutional effectiveness

GOAL 3: Every Community Prospers

- **Objective 6:** Enhance the prosperity of every community in Northern Virginia by refocusing and prioritizing NOVA's workforce development efforts
- **Objective 7:** Further develop NOVA's IT and Cybersecurity programs to support regional job demand and position NOVA as the leading IT community college in the nation
- **Objective 8:** Re-envision workforce strategies and integrate workforce development into a NOVA core focus
- **Objective 9:** Plan to expand the breadth and reach of NOVA's healthcare and biotechnology programs, and prioritize future programs to support regional economic development goals

NOVA

**Northern Virginia
Community College**

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