

NC STATE Physical Master Plan

SPACE NEEDS TECHNICAL REPORT

Physical Master Plan | 2023



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Process

Analysis Process

The space utilization, development of space standards, and space needs analyses, based on NC State's presence in Wake County, were completed using four primary datasets supplied by NC State: facilities, course, staffing, and enrollment.

These quantitative datasets were analyzed with a proprietary relational software program developed by SmithGroup. Several reports were generated to review the variances between the datasets. After an acceptable level of accuracy was established, these datasets were analyzed and converted into information that was used by SmithGroup to make informed decisions, generate utilization outcomes, and project space needs.

In addition to these key datasets, other information was collected related to research activity, library collections, and study space. The compilation of the data provided a snapshot of activities for Fall 2021, which was used as the baseline for the analysis. This data collection represented one important set of inputs for informing the development of the space needs profile.

In addition to quantitative inputs, the analysis was informed by qualitative inputs. One-on-one interviews were held with key academic, administrative, and student life leaders. NC State and SmithGroup were active partners in developing the scope, definitions, projections, standards, and further details throughout the project.

Data Inputs

Quantitative Inputs

A data request memorandum was submitted to NC State outlining the information needed to develop the analyses for this report. Items requested and received for the Fall 2021 semester were as follows:

- Facilities Inventory — This dataset provided building name, room number, square footage, and space use classification on a room-by-room basis.
- Course Data — This included the course number and description, student enrollments, course type, start and stop times, start and end dates, and meeting locations for credit courses.
- Research Data — This included research expenditures

and principal investigator information.

- Employee Data — This included employee name, title, departmental designation, and employment status (full-time or part-time).
- Student Enrollments — This included student headcount and FTE enrollments.

Qualitative Inputs

As previously noted, SmithGroup heard from a variety of campus stakeholders:

- Dean, College of Agriculture & Life Sciences
- Dean, College of Design
- Dean, College of Education
- Dean, College of Engineering
- Dean, College of Humanities & Social Sciences
- Dean, Poole College of Management
- Dean, College of Natural Resources
- Dean, College of Sciences
- Dean, College of Veterinary Medicine
- Dean, College of Textiles
- Dean, Graduate School
- Dean, University College
- Associate Vice Chancellor, Research Infrastructure & Development
- Senior Vice Provost, University Libraries
- Senior Vice Provost, Institutional Strategy and Analysis
- Academic Strategy and Resource Management
- University Space Committee
- Facilities

Common threads emerged during campus meetings, including:

- Real and perceived connectedness between campuses is a challenge for faculty and students
- Many academic deans noted they are reactive rather than proactive

- Role of facilities and technology in recruitment and retention
- Need to improve undergraduate research experience
- Inconsistent space quality creates inequitable experiences
- Insufficient large-capacity classrooms to accommodate service courses
- Significant questions about the future of the workplace

Planning Assumptions

This section describes the key planning assumptions used in developing space needs for NC State. Fall 2021 data established the base year with space needs projected based on a target year enrollment scenario. On-target student enrollment and employee projections were critical in the planning process as space planning standards use this data to determine space needs.

Students

Fall 2021 enrollment served as the baseline for future growth. SmithGroup used the 2021 full-time equivalent (FTE) and headcount (HC) data provided by the University to project enrollment data for the target year by multiplying the base year by a percent (see Figure 2-1 below).

FIGURE 2-1: HEADCOUNT

College	Percentage Increase		Fall 2021			Projected 2030			Delta	
	Undergraduate	Graduate	Under-graduate	Graduate	Total	Under-graduate	Graduate	Total	#	%%
College of Agriculture and Life Science	5%	5%	2,983	1,047	4,130	3,132	1,099	4,232	202	5%
College of Design	5%	5%	614	310	924	645	326	970	46	5%
College of Education	5%	5%	618	1,339	1,957	649	1,406	2,055	98	5%
College of Engineering	40%	40%	1,234	3,141	10,375	10,128	4,397	14,525	4,150	40%
College of Natural Resources	5%	5%	1,567	537	2,104	1,645	564	2,209	105	5%
College of Humanities & Social Sciences	5%	5%	3,792	908	4,700	3,982	953	4,935	235	5%
College of Sciences	5%	5%	3,108	1,013	4,121	3,263	1,064	4,327	206	5%
College of Textiles	5%	5%	764	237	1,001	802	249	1,051	50	5%
College of Vet Medicine	0%	20%	-	487	487	-	584	584	97	20%
Poole College of Management	5%	5%	3,611	946	4,557	3,792	993	4,785	228	5%
Other	0%,5%	0%, 5%	2,883	415	3,300	2,946	430	3,376	76	2%
Total		1,786	27,176	10,380	37,556	30,983	12,065	43,049	5,493	14.6%

Employees

To support the expected student enrollment, the number of faculty and staff will increase by the same rate as students per year for any academic colleges with students, all other colleges and units were set to grow at the overall student growth rate of 14.6%. The basis for this approach was based on historical analysis of employee growth trends as well as a recognition that some units were understaffed (see Figures 2-2 and 2-3 below).

FIGURE 2-2: ACADEMIC UNITS HEADCOUNT

College	Fall 2021			Projected 2030			Delta	
	Faculty	Staff	Total	Faculty	Staff	Total	#	%%
College of Agriculture and Life Science	390	2,830	3,220	409	2,917	3,326	106	3%
College of Design	76	191	267	80	199	279	12	4%
College of Education	139	333	472	145	346	491	19	4%
College of Engineering	405	2,264	2,669	536	3,290	3,826	1,157	43%
College of Humanities & Social Sciences	453	623	1,076	476	646	1,122	46	4%
Poole College of Management	112	296	408	117	304	421	13	3%
College of Natural Resources	111	499	610	115	517	632	22	4%
College of Sciences	331	1,173	1,504	348	1,226	1,574	70	5%
Wilson College of Textiles	55	310	365	58	320	378	13	4%
College of Vet Medicine	169	917	1,086	203	1,094	1,297	211	19%
Academic and Student Affairs	66	1,957	2,023	76	2,222	2,298	275	14%
Graduate School	-	35	35	-	40	40	5	14%
Total	2,307	11,428	13,735	2,563	13,121	15,684	1,949	14.2%

FIGURE 2-3: ADMINISTRATIVE UNITS HEADCOUNT

College	Fall 2021			Projected 2030			Delta	
	Faculty	Staff	Total	Faculty	Staff	Total	#	%%
Chancellors Office	-	36	36	-	37	37	1	3%
External Affairs, Partnerships, and Economic Development	-	58	58	-	63	63	5	9%
Office of the Executive Vice Chancellor and Provost	9	1,118	1,127	10	1,255	1,265	138	12%
Office of General Counsel	-	13	13	-	15	15	2	15%
Office of Information Technology	1	387	388	1	439	440	52	13%
Office of Research and Innovation (ORI)	26	304	330	29	338	367	37	11%
University Advancement	-	211	211	-	233	233	22	10%
Finance and Administration	-	3,178	3,178	-	3,617	3,617	439	14%
Total	36	5,305	5,341	40	5,997	6,037	696	13.0%

Calculation Note

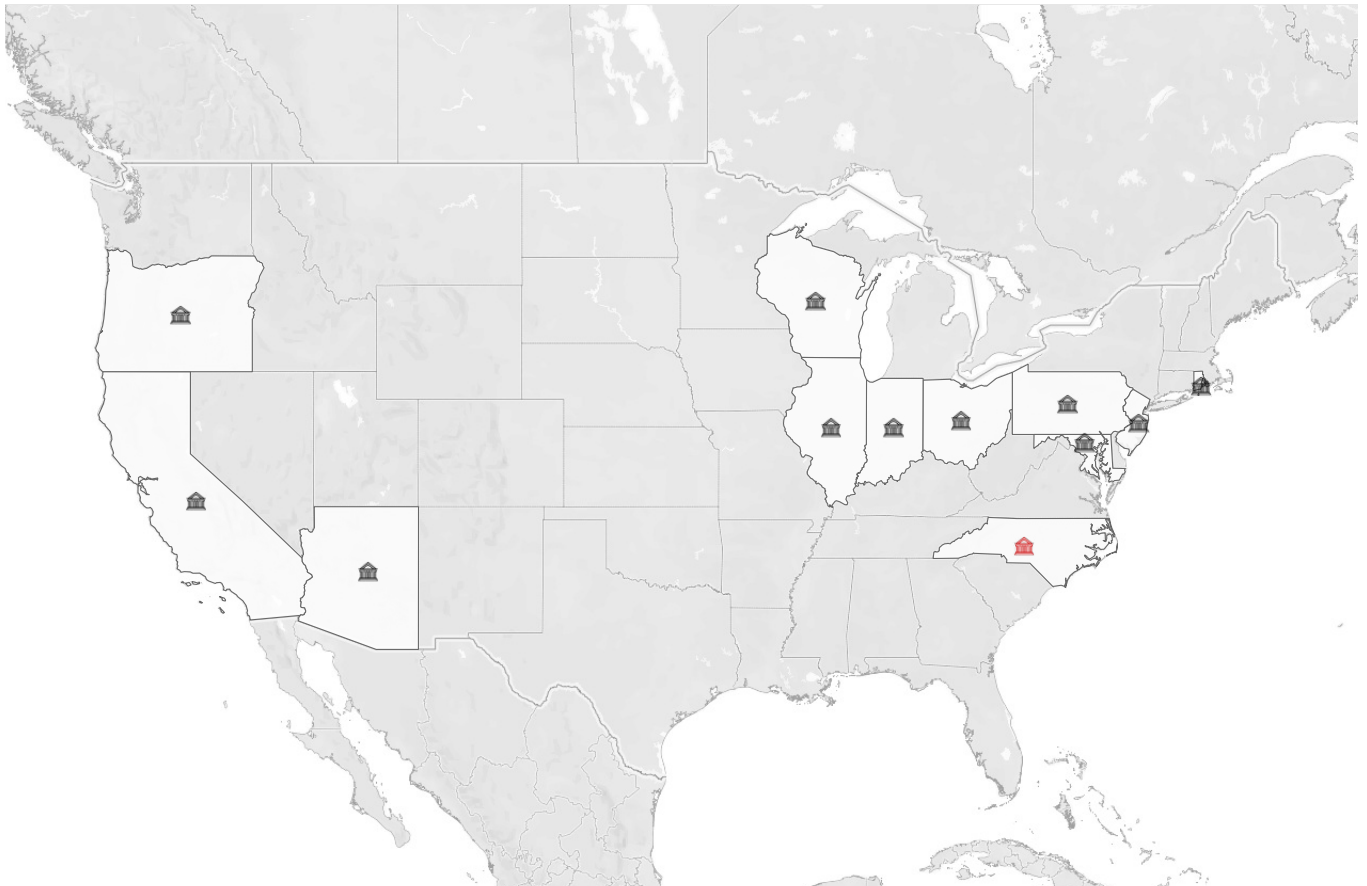
The analysis outcomes are calculated using actual decimal values, while the results are rounded for legibility of display in charts and tables. This means an occasional value might appear or display slightly different than expected.

Benchmarking Analysis

Methodology

SmithGroup conducted a comparative space analysis for NC State, as well as at the college/school level, making direct comparisons with similar institutions to understand existing space allocations. The analysis compared assignable space with space grouped according to the National Center for Education Statistics' Postsecondary Education Facilities Inventory and Classification (FICM) taxonomy at both the campus level and the college/school level. Only the main campus of each institution was included in the analysis.

For this analysis, SmithGroup worked with the University to identify a list of appropriate peers for comparison.



SmithGroup solicited data from 10 institutions, of which, five provided data. Data for eight other institutions was gathered from SmithGroup's in-house database. In total, the peer group comprised of 13 institutions in addition to NC State. Rhode Island School of Design was compared only at the college level due to its unique academic program composition. Two institutions requested to remain anonymous. The matrix on page 7 illustrates the way in which the academic colleges/schools aligned with NC State. A more complete matrix can be found in the Appendices.

Participating institutions provided information about the total assignable square feet (ASF) in space categories and by school or college (when possible); headcount (HC) and full-time equivalent (FTE) students, faculty, and staff; and research expenditures. A survey form was provided by SmithGroup; however, some institutions submitted data from internal reports. Data was provided for terms between Fall 2018 and Fall 2021. For most tables in this section, only space in the 100 to 800 series is included. Not all institutions provided data on the 900 series (residential space). The data in the benchmarking analysis is a snapshot in time and may not perfectly align with other tables throughout the PMP, it is intended to be used at a high-level comparison of how NC State relates to various other institutions.

Space Categories

The space categories used in the analysis are aligned with the FICM taxonomy. Unclassified spaces in the 000 series and non-assignable spaces were not included in the analysis.

Even when using FICM, each institution applies the use codes in multiple ways based on taxonomy interpretation and state or local space management policies. For example, some institutions classify computational research labs as office space. These variations might create some discrepancies between results. Special Use Facilities (500 series) includes space for athletics, recreation, animal facilities, and greenhouses. General Use Facilities (600 series) includes space for assembly, exhibition, food service facilities, and meeting spaces. Health Care Facilities (800 series) includes space for humans and animals. The [FICM manual](#) provides a full list of space types by category.

Category	FICM Use Code
Classrooms	100 series
Class Laboratory Facilities	210 series
Open Laboratory Facilities	220 series
Research/Nonclass Laboratory Facilities	250 series
Office Facilities	300 series
Study Facilities	400 series
Special Use Facilities	500 series
General Use Facilities	600 series
Support Facilities	700 series
Health Care Facilities	800 series

Understanding Benchmarking Results

When viewing how NC State compares to peers in terms of ASF, a value below the peer average or below the median is not necessarily a deficiency. Lower or higher values often indicate areas that might be considered for a closer review. Whether those values indicate a need for more or less space, the outcomes are dependent on the nature of your space portfolio, academic programs, and physical plant.

The comparative analysis outcomes are calculated using actual decimal values, but the results are rounded for legibility of display in charts and tables. This means an occasional value might appear or display slightly different than expected. Not all institutions provided FTE and headcount data and is noted where applicable.

Campus Space Benchmarks

Campus-level and college/school-level benchmarking compares the total space in one category or a group of categories. Because space needs vary by program, and no two institutions will have the same set of programs or the same emphases in the same program, this is a general indicator of how institutions with similar enrollment and composition compare on a broad scale (see Figure 3-1 below).

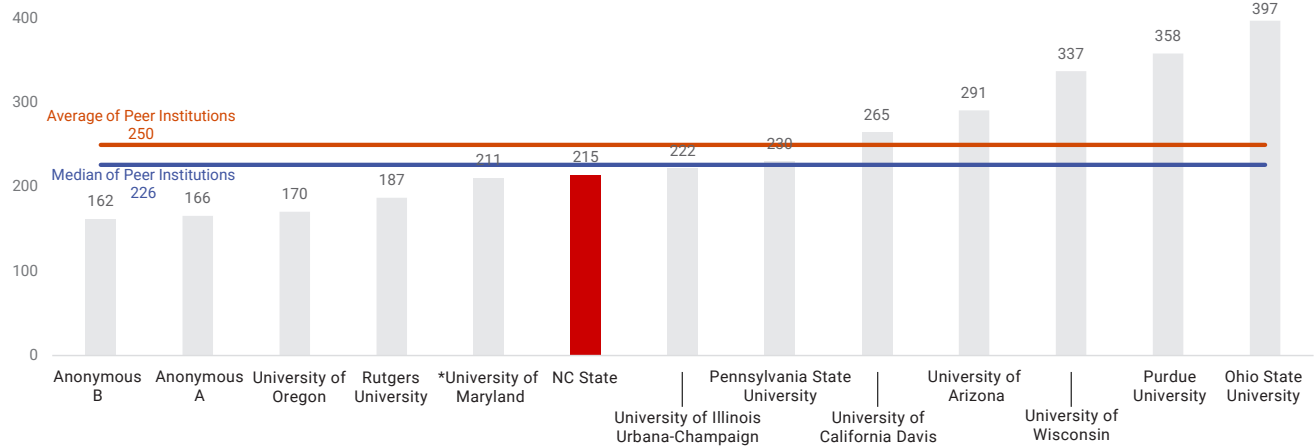
FIGURE 3-1: INSTITUTIONAL MATRIX

	Existing Assignable Space	Student FTE	Faculty FTE	Staff FTE
NC State	7,090,740	3,043	2,202	11,267
Ohio State University	22,668,596	57,132	2,700	-
Pennsylvania State University	9,567,327	41,592	3,619	2,915
Purdue University	12,794,930	35,745	1,835	-
Rhode Island School of Design	834,947	2,578	287	622
Rutgers University	8,330,934	44,524	3,716	11,644
University of Arizona	11,424,839	39,313	865	-
University of California-Davis	10,051,191	37,948	1,598	22,525
University of Illinois at Urbana-Champaign	10,818,997	48,675	3,191	11,032
University of Maryland	7,575,919	35,962	3,677	1,778
University of Oregon	3,774,016	22,143	-	-
University of Wisconsin	13,246,208	39,308	2,009	-
Anonymous A	5,335,937	32,206	-	-
Anonymous B	5,152,625	31,738	1,292	-

This represents main campus locations.

By Institution

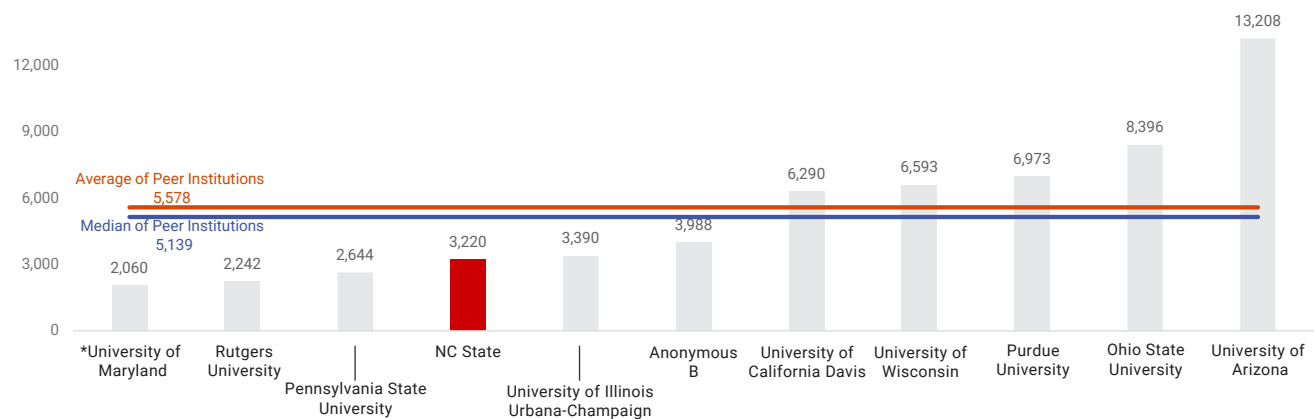
FIGURE 3-2: SPACE PER STUDENT
TOTAL ASF/STUDENT FTE



Total includes spaces coded 100 through 800
*University of Maryland College Park only provided Student headcount (HC). Student FTE was calculated using the average change between HC and FTE for all other institutions in the study.

NC State is near the middle but below the median and average of the comparable institutions for space per student at 215 ASF per student FTE.

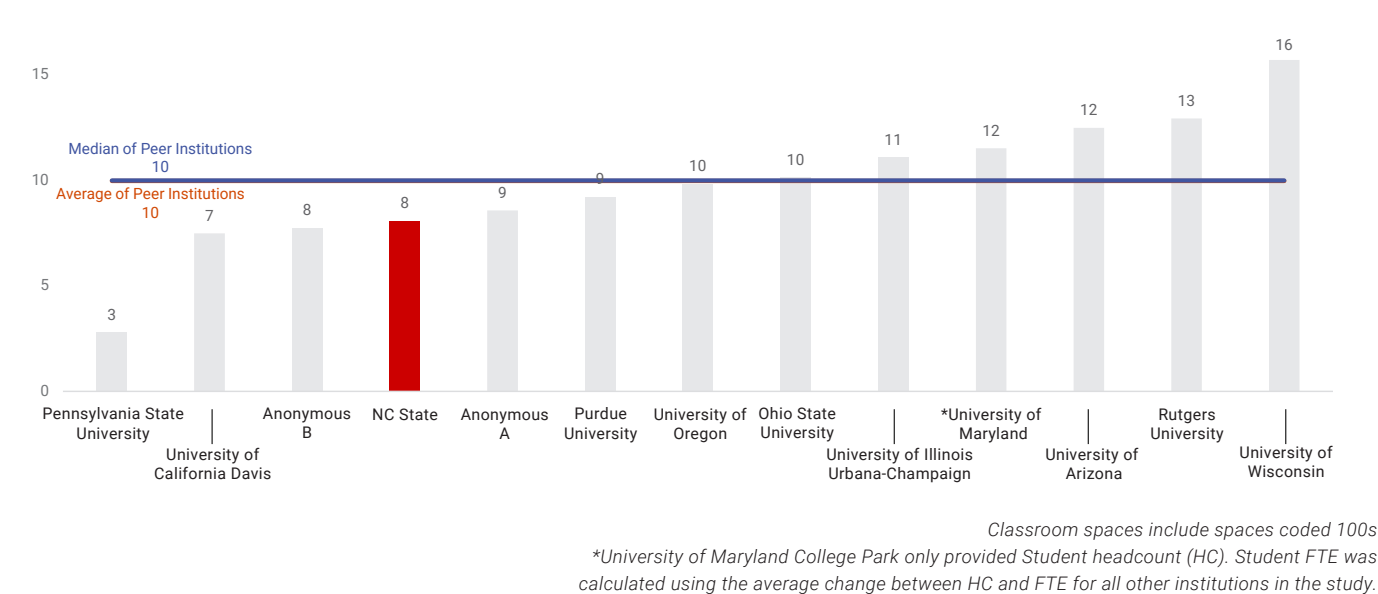
FIGURE 3-3: SPACE PER FACULTY
TOTAL ASF/FACULTY FTE



Total includes spaces coded 100 through 800.

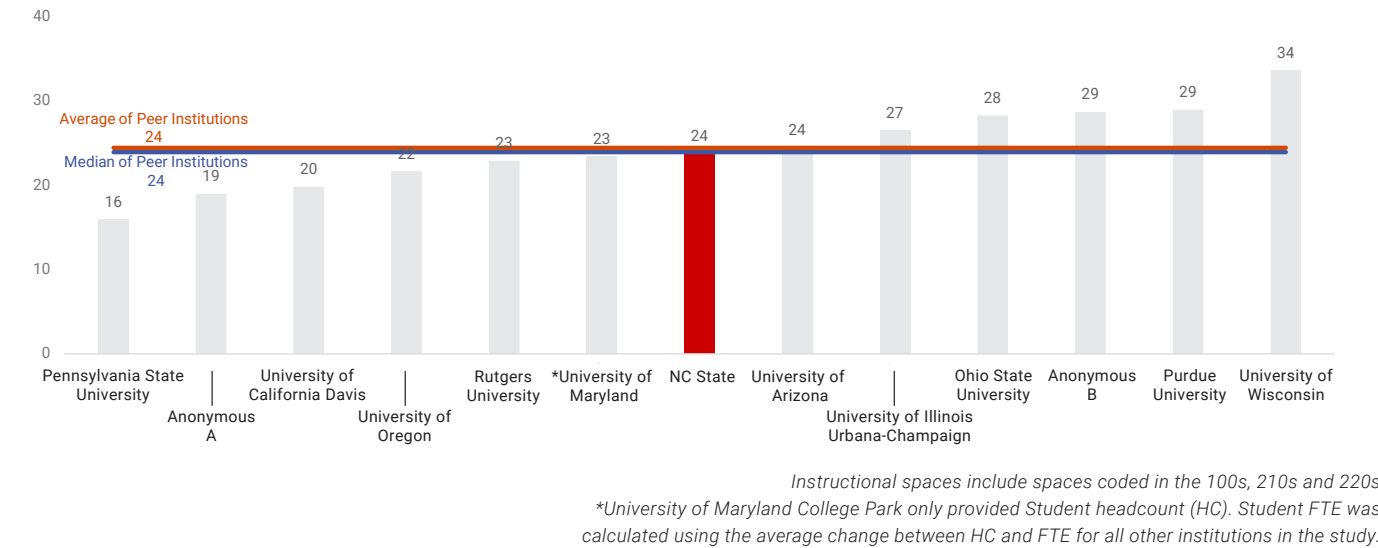
NC State is on the lower side of the institutions when reviewing space per faculty at 3,220 ASF per faculty FTE.

FIGURE 3-4: CLASSROOM SPACE PER STUDENT
CLASSROOM ASF/STUDENT FTE



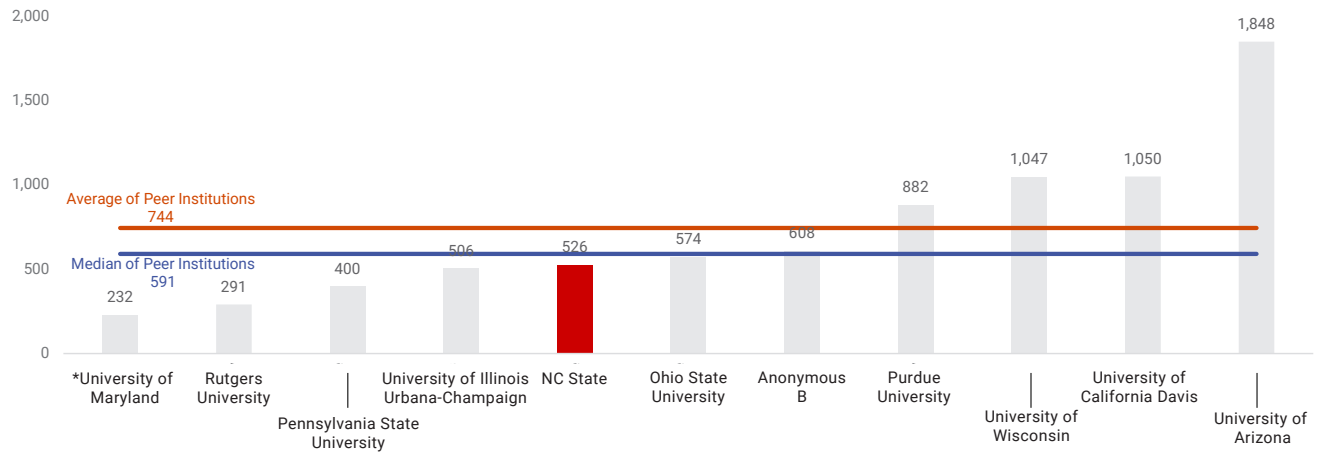
Classroom space per student ranges from three ASF per student FTE at Pennsylvania State University to 16 ASF per student FTE at University of Wisconsin Madison. NC State has half as much classroom space as the latter with eight ASF per student FTE.

FIGURE 3-5: INSTRUCTIONAL SPACE PER STUDENT
INSTRUCTIONAL ASF/STUDENT FTE



Instructional space includes classrooms, class labs, and open labs. The average and median of the comparable institutions is 24 ASF per student FTE, and NC aligns with the average and median for instructional space per student.

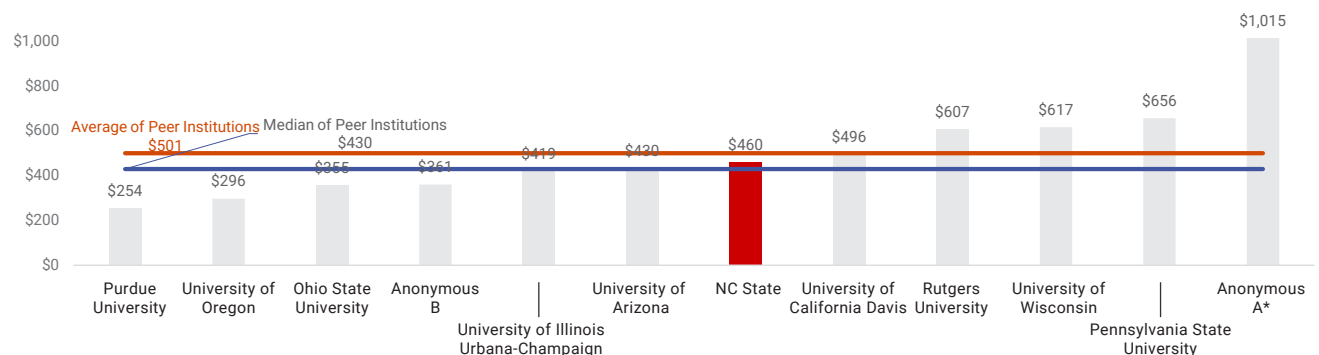
FIGURE 3-6: RESEARCH SPACE PER FACULTY
RESEARCH ASF/FACULTY FTE



Research space include spaces coded in the 250s.

Research space per faculty is quite variable across the institutions. The University of Maryland has 232 research ASF per faculty FTE while the University of Arizona has about eight times as much space at 1,848 ASF per faculty FTE. The average across the compared institutions is nearly 750 ASF per faculty FTE, with the median falling at close to 600 ASF per faculty FTE. NC State is in the lower half with 526 research ASF per faculty FTE.

FIGURE 3-7: RESEARCH DOLLARS PER RESEARCH SPACE
RESEARCH EXPENDITURES/RESEARCH FTE



Research space include spaces coded in the 250s

*219 NSF HERD data was used for institutions that did not provide expenditures data.

The comparative group averages about \$500 of research expenditures per research ASF. The median is \$430 per research ASF, and NC State falls between these at \$460 per research ASF.

By College

FIGURE 3-8: COLLEGE MATRIX

	College of Agriculture and Life Sciences	College of Design	College of Education	College of Engineering	College of Humanities and Social Sciences	College of Natural Resources	College of Sciences	College of Veterinary Medicine	Poole College of Management	University College	Wilson College of Textiles
Anonymous B											
Anonymous A											
Ohio State University - Main Campus											
Pennsylvania State University - Main Campus											
Purdue University - Main Campus											
Rhode Island School of Design											
Rutgers University - New Brunswick											
University of Arizona											
University of California - Davis											
University of Illinois Urbana-Champaign											
University of Maryland - College Park											
University of Oregon - Main Campus											
University of Wisconsin - Madison											

Note: The Ohio State University School of Health & Rehabilitation Sciences, School of Environment & Natural Resources, and the Austin E. Knowlton School of Architecture are schools within other colleges. The level of data provided by the institution for these schools did not allow for deeper analysis.

College level space, student, and faculty data was also compared. However, not all institutions provided student FTE and faculty FTE data. The following shows comparisons where data was provided.

College of Agriculture and Life Sciences

FIGURE 3-9: COLLEGE OF AGRICULTURE AND LIFE SCIENCES

	Existing Assignable Space	Student FTE	Faculty FTE	Staff FTE
NC State University	1,671,189	3,675	340	2,207
Ohio State University	618,076	-	-	-
Pennsylvania State University	1,168,001	2,311	359	869
Purdue University	780,795	3,360	-	-
University of Arizona	821,813	2,886	-	-
University of California-Davis	1,508,058	8,430	300	1,057
University of Illinois at Urbana-Champaign	1,399,955	3,349	295	1,241
University of Maryland	385,998	-	398	326
University of Wisconsin	1,017,662	-	225	-
Anonymous A	818,116	4,592	-	-

FIGURE 3-10: SPACE TYPE BY TOTAL INVENTORY - COLLEGE OF AGRICULTURE AND LIFE SCIENCES

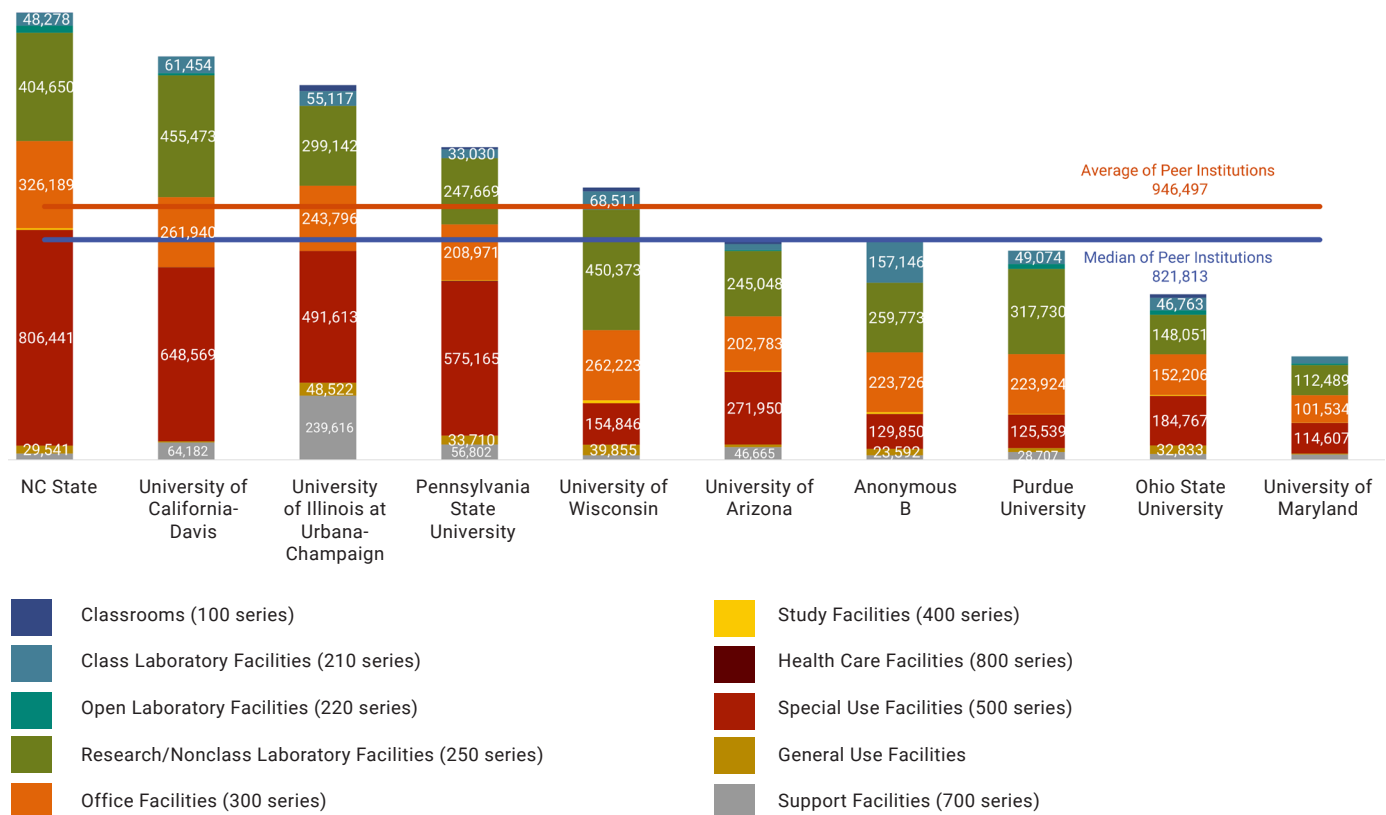


FIGURE 3-11: COLLEGE OF AGRICULTURE AND LIFE SCIENCES (100-300 SERIES)

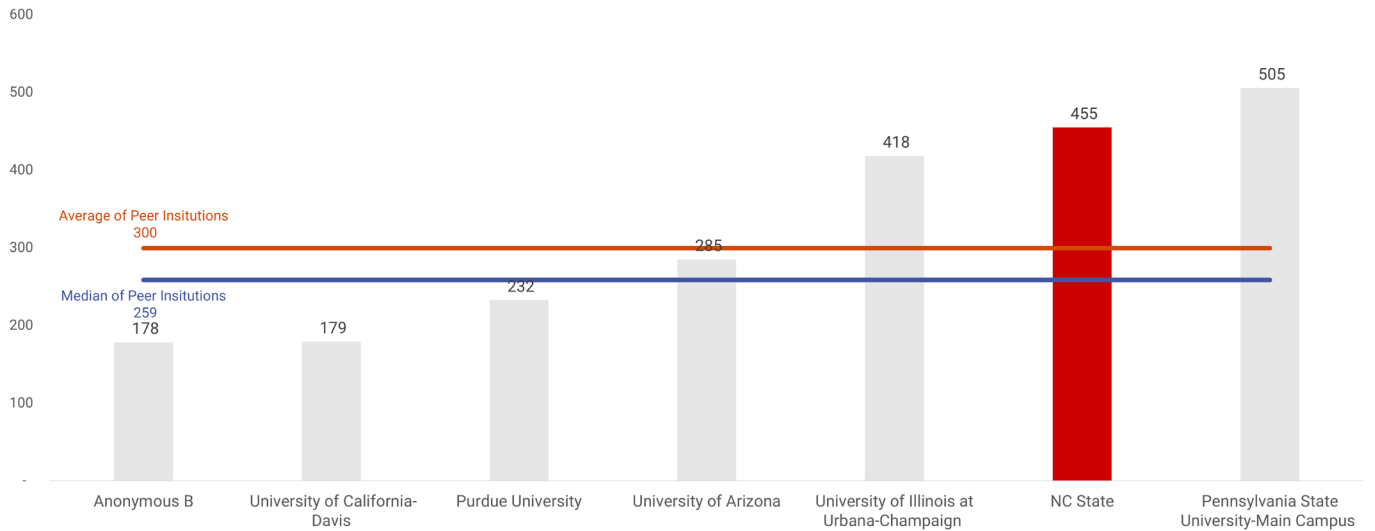
	Classrooms (100 series)	Class Laboratory Facilities (210 series)	Open Laboratory Facilities (220 series)	Research/ Nonclass Laboratory Facilities (250 series)	Office Facilities (300 series)
NC State University	193	48,278	26,685	404,650	326,189
Ohio State University	12,855	46,763	16,675	148,051	152,206
Pennsylvania State University	7,892	33,030	-	247,669	208,971
Purdue University	-	49,074	19,048	317,730	223,924
University of Arizona	15,899	22,114	3,475	245,048	202,783
University of California-Davis	1,506	61,454	8,220	455,473	261,940
University of Illinois at Urbana- Champaign	21,897	55,117	-	299,142	243,796
University of Maryland	-	25,956	6,785	112,489	101,534
University of Wisconsin	14,743	68,511	-	450,373	262,223
Anonymous A	-	157,146	-	259,773	223,726

FIGURE 3-12: COLLEGE OF AGRICULTURE AND LIFE SCIENCES (400-800 SERIES)

	Study Facilities (400 series)	Special Use Facilities (500 series)	General Use Facilities (600 series)	Support Facilities (700 series)	Health Care Facilities (800 series)
NC State University	5,950	806,441	29,541	23,262	-
Ohio State University	3,179	184,767	32,833	20,747	-
Pennsylvania State University	1,737	575,165	33,710	56,802	3,025
Purdue University	1,944	125,539	14,829	28,707	-
University of Arizona	3,861	271,950	10,018	46,665	-
University of California-Davis	444	648,569	4,518	64,182	1,752
University of Illinois at Urbana- Champaign	-	491,613	48,522	239,616	252
University of Maryland	1,452	114,607	3,748	19,427	-
University of Wisconsin	10,419	154,846	39,855	16,692	-
Anonymous A	6,592	129,850	23,592	16,922	515

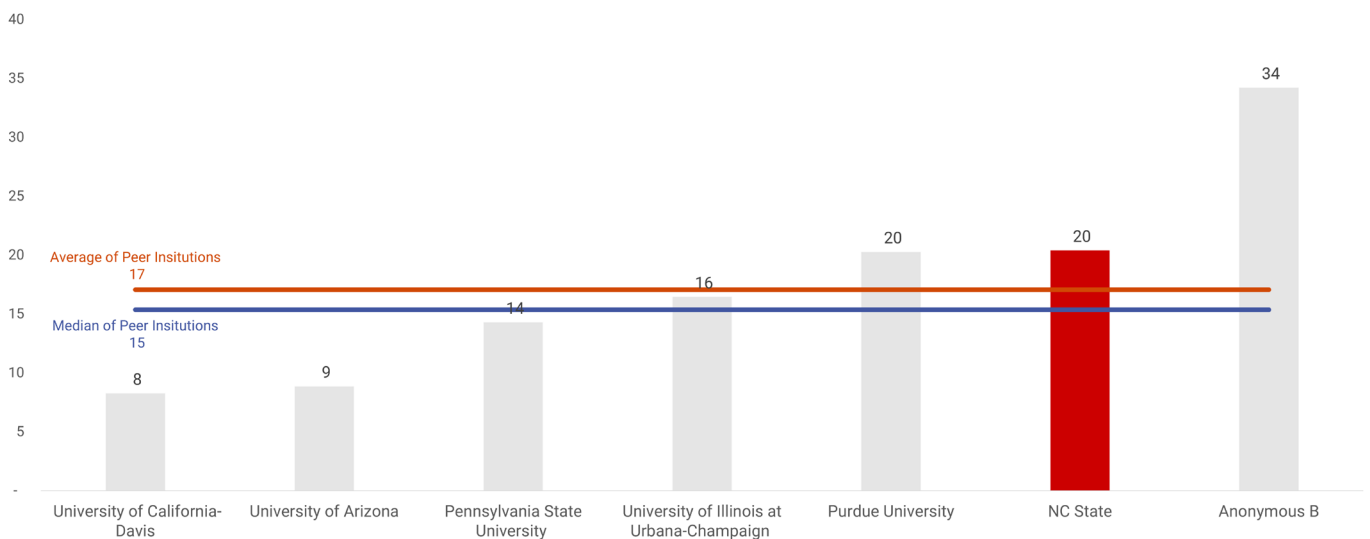
When comparing NC State's College of Agriculture and Life Sciences (CALS) with similar schools and colleges, CALS has the most overall space with the largest amount of space as Special Use Facilities.

FIGURE 3-13: COLLEGE OF AGRICULTURE AND LIFE SCIENCES TOTAL ASF PER STUDENT FTE

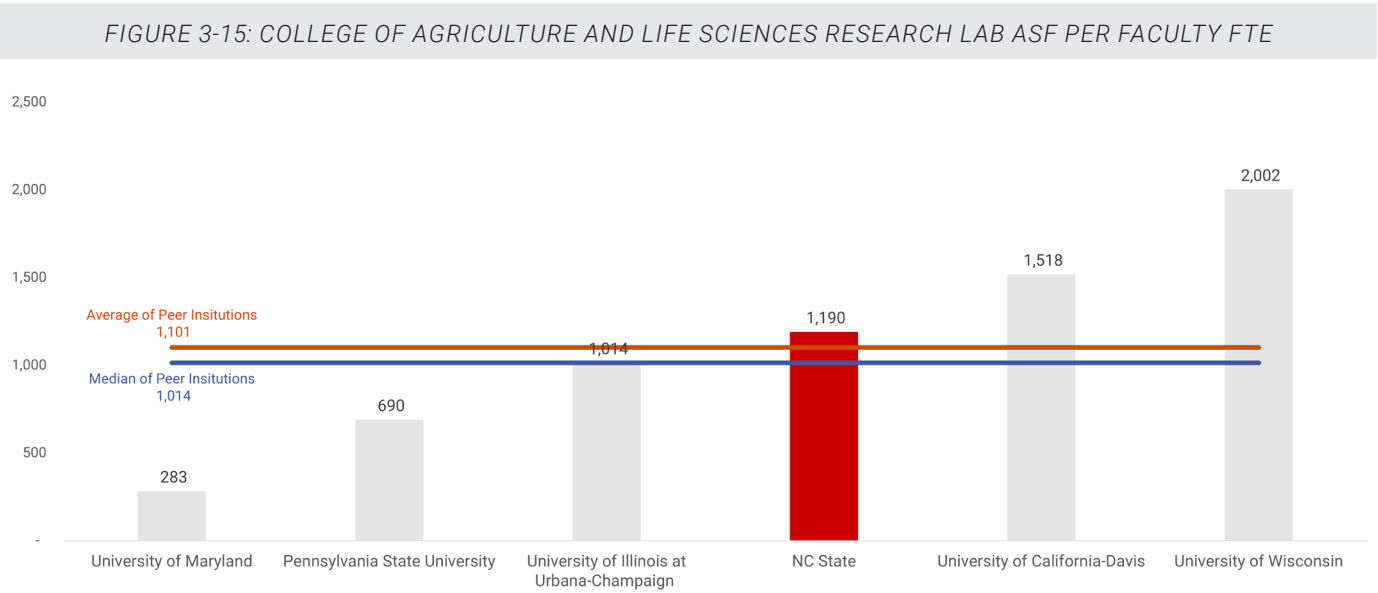


CALS is near the top end of the institutions when comparing total assignable space per student with 455 ASF/FTE, well above the peer group average of 300 ASF/FTE.

FIGURE 3-14: COLLEGE OF AGRICULTURE AND LIFE SCIENCES CLASS & OPEN LAB ASF PER STUDENT FTE



CALS is again the second largest when Class Lab and Open Lab space per student is reviewed at 20 ASF/FTE, just above the peer group average of 17 ASF/FTE.



CALS is near the middle, while still above the peer group average of about 1,000 ASF/faculty FTE when looking at research lab space per faculty with 1,190 ASF/faculty FTE.

College of Design

FIGURE 3-16: COLLEGE OF DESIGN

	Existing Assignable Space	Student FTE	Faculty FTE	Staff FTE
NC State University	115,036	883	64	93
Pennsylvania State University	399,955	1,384	203	134
University of Arizona	60,981	605	-	-
University of Maryland	47,930	-	52	23
University of OREGON	176,945	1,570	-	-
Anonymous A	123,597	1,039	-	-
Anonymous B	153,511	1,946	-	-

FIGURE 3-17: SPACE TYPE BY TOTAL INVENTORY - COLLEGE OF DESIGN

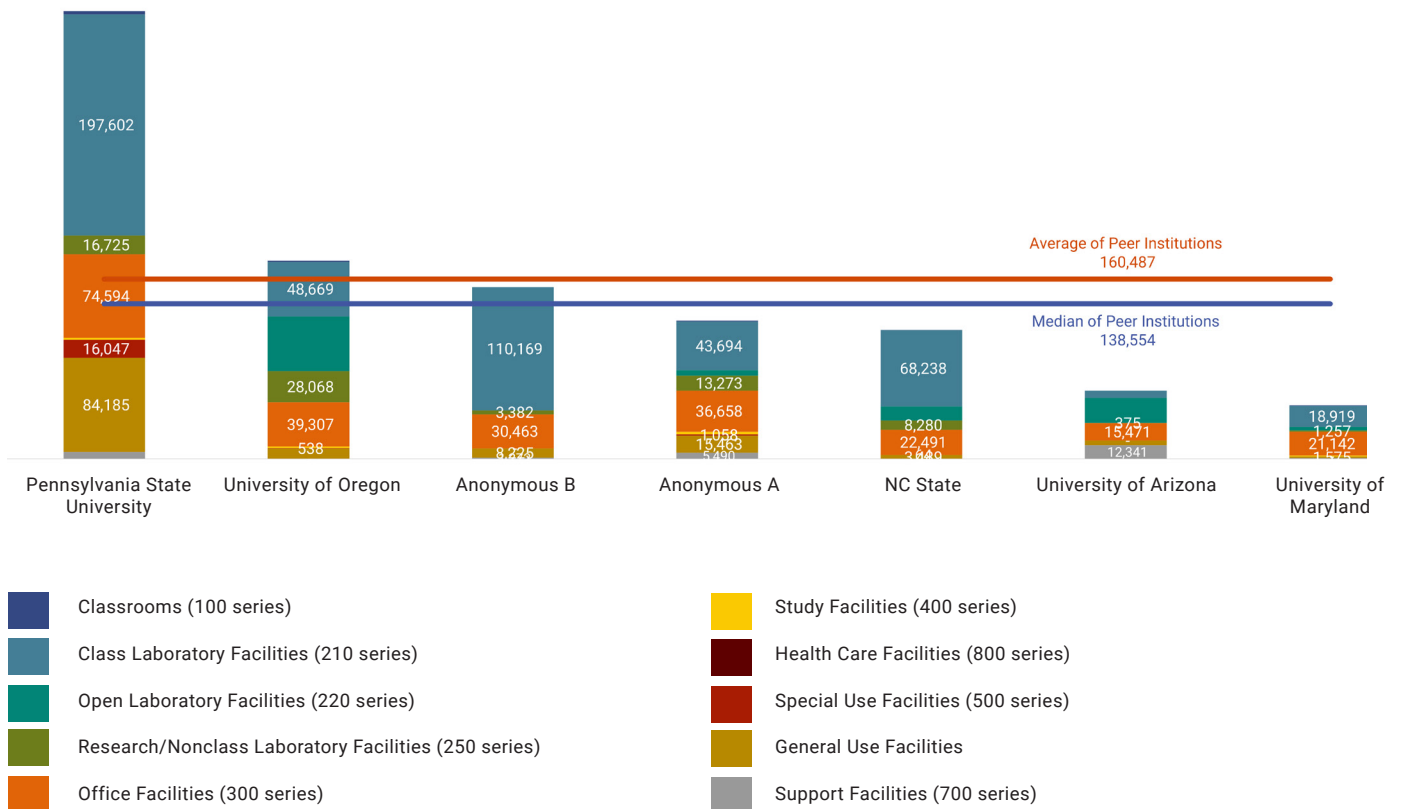


FIGURE 3-18: COLLEGE OF DESIGN (100-300 SERIES)

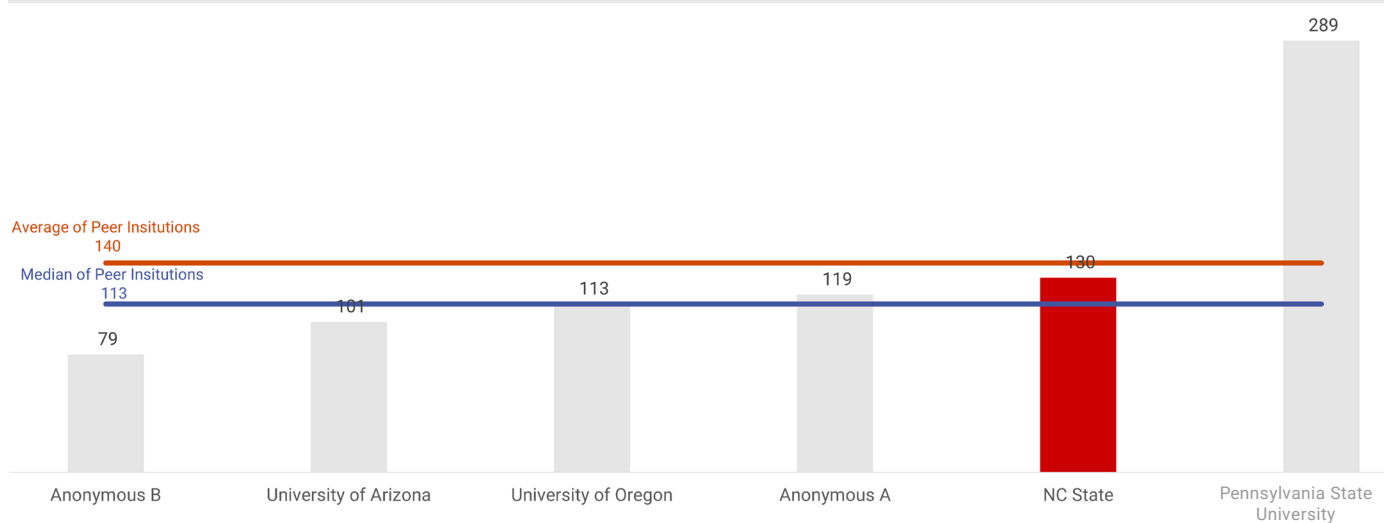
	Classrooms (100 series)	Class Laboratory Facilities (210 series)	Open Laboratory Facilities (220 series)	Research/Nonclass Laboratory Facilities (250 series)	Office Facilities (300 series)
NC State University	9	68,238	12,336	8,280	22,491
Pennsylvania State University	2,899	197,602	-	16,725	74,594
University of Arizona	-	6,490	22,221	375	15,471
University of Maryland	355	18,919	3,153	1,257	21,142
University of OREGON	941	48,669	48,804	28,068	39,307
Anonymous A	830	43,694	4,782	13,273	36,658
Anonymous B	-	110,169	-	3,382	30,463

FIGURE 3-19: COLLEGE OF DESIGN (400-800 SERIES)

	Study Facilities (400 series)	Special Use Facilities (500 series)	General Use Facilities (600 series)	Support Facilities (700 series)	Health Care Facilities (800 series)
NC State University	129	64	3,489	-	-
Pennsylvania State University	1,690	16,047	84,185	6,213	-
University of Arizona	-	-	4,083	12,341	-
University of Maryland	774	-	1,575	755	-
University of Oregon	1,450	538	9,168	-	-
Anonymous A	2,349	1,058	15,463	5,490	-
Anonymous B	-	-	8,225	1,272	-

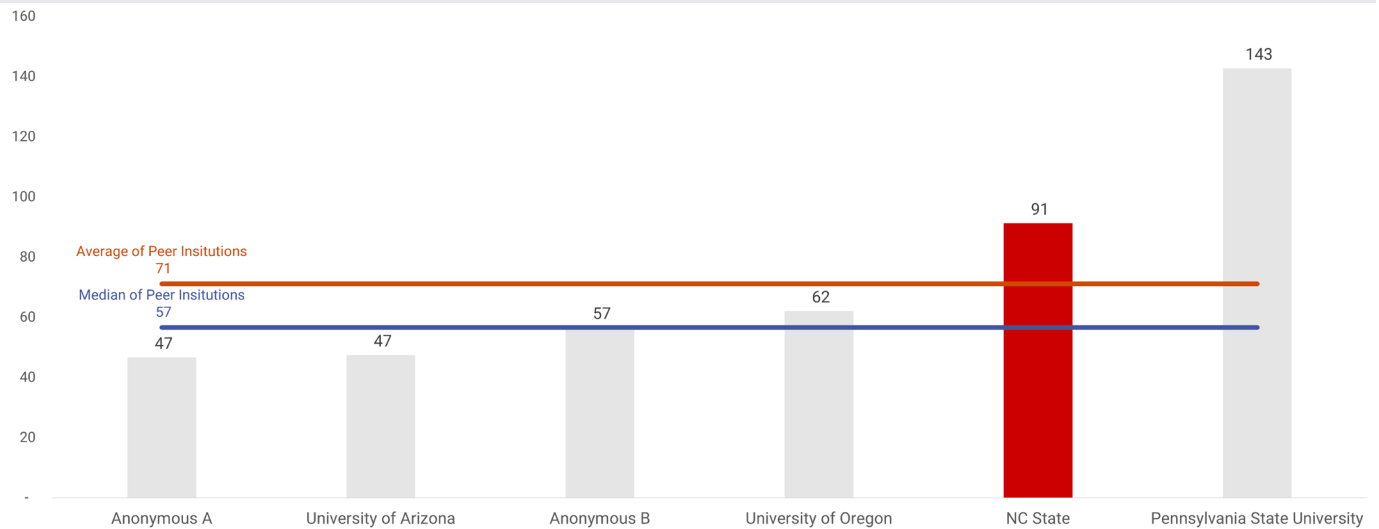
NC State's College of Design (COD) is near the lower end of comparable schools and colleges. Class Lab facilities make up the largest portion of this college's space.

FIGURE 3-20: COLLEGE OF DESIGN TOTAL ASF PER STUDENT FTE



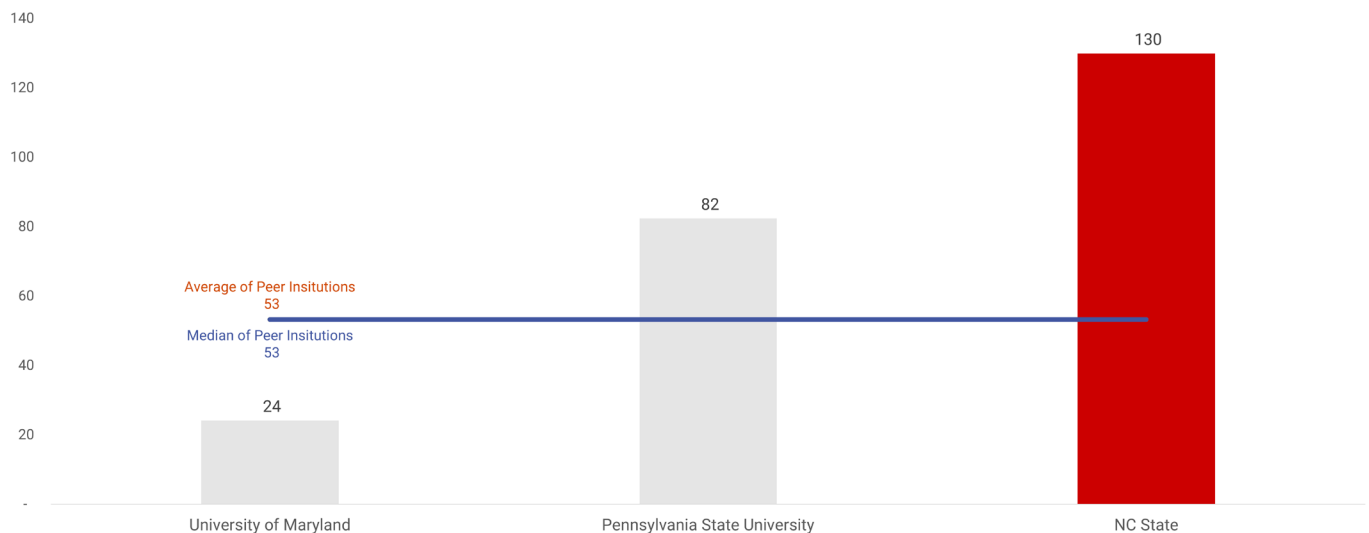
While COD was near the bottom for total overall space when compared to the other colleges and schools, when looking at total assignable space per student, the college is the second from the top. However, the college is still below the peer group average of 140 ASF/FTE with 130 ASF/FTE.

FIGURE 3-21: COLLEGE OF DESIGN CLASS & OPEN LAB ASF PER STUDENT FTE



Similarly, the College of Design was near the top of the colleges and schools when Class Lab and Open Lab space per student is reviewed with 91 ASF/FTE, above the peer group average of 71 ASF/FTE.

FIGURE 3-22: COLLEGE OF DESIGN RESEARCH LAB ASF PER FACULTY FTE



Finally, when comparing COD with the colleges and schools where faculty FTE was provided, COD had the most research lab space per faculty with 130 ASF/faculty FTE. The peer group average was just over 50 ASF/faculty FTE.

College of Education

FIGURE 3-23: COLLEGE OF EDUCATION

	Existing Assignable Space	Student FTE	Faculty FTE	Staff FTE
NC State University	83,549	1,590	119	205
Ohio State University	270,434	-	-	-
Pennsylvania State University	96,238	1,848	202	89
Purdue University	42,348	1,018	-	-
University of Arizona	61,711	1,296	-	-
University of California-Davis	31,525	303	29	83
University of Illinois at Urbana-Champaign	84,389	1,533	101	166
University of Maryland	86,206	-	192	56
University of Oregon	135,671	1,362	-	-
University of Wisconsin	579,905	-	146	-

FIGURE 3-24: SPACE TYPE BY TOTAL INVENTORY - COLLEGE OF EDUCATION

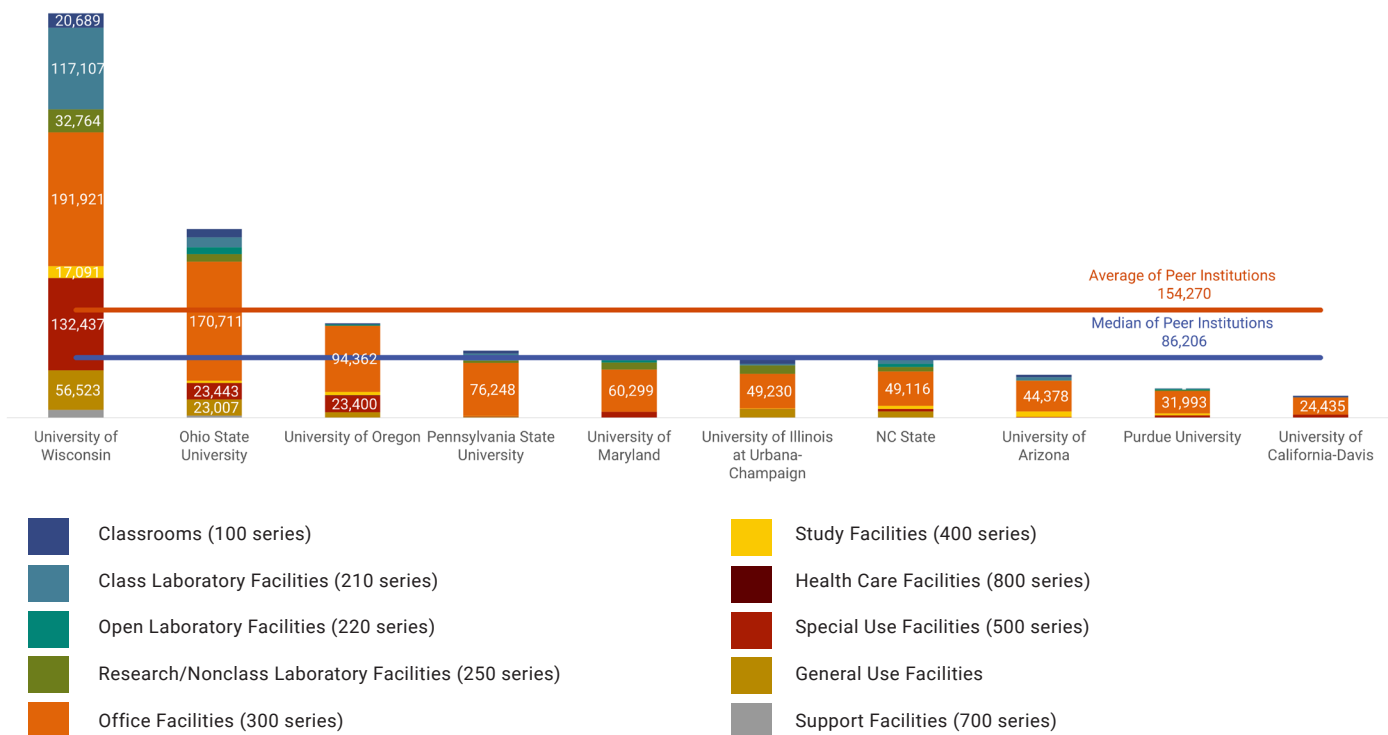


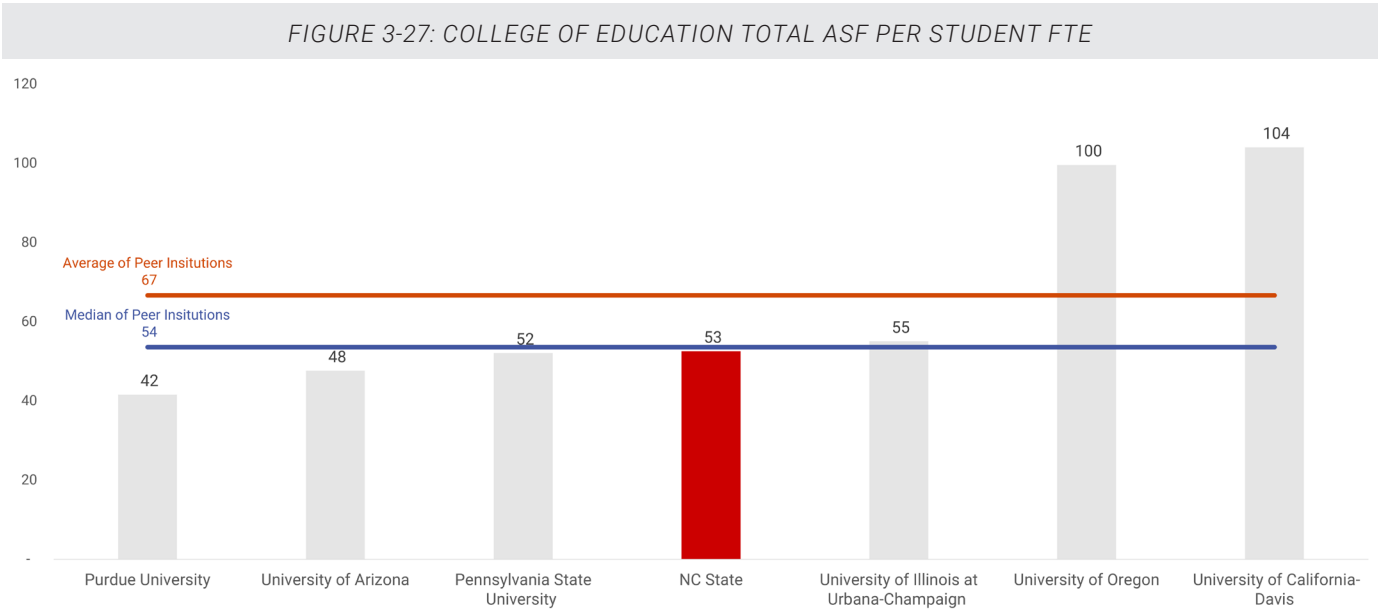
FIGURE 3-25: COLLEGE OF EDUCATION (100-300 SERIES)

	Classrooms (100 series)	Class Laboratory Facilities (210 series)	Open Laboratory Facilities (220 series)	Research/ Nonclass Laboratory Facilities (250 series)	Office Facilities (300 series)
NC State University	603	5,714	4,525	6,401	49,116
Ohio State University	11,863	14,279	9,757	10,709	170,711
Pennsylvania State University	4,182	9,935	-	3,423	76,248
Purdue University	-	1,536	1,116	1,480	31,993
University of Arizona	3,438	4,675	-	312	44,378
University of California-Davis	2,076	-	-	405	24,435
University of Illinois at Urbana- Champaign	7,307	1,864	-	12,403	49,230
University of Maryland	1,664	2,157	2,968	10,256	60,299
University of Oregon	1,866	-	1,814	266	94,362
University of Wisconsin	20,689	117,107	-	32,764	191,921

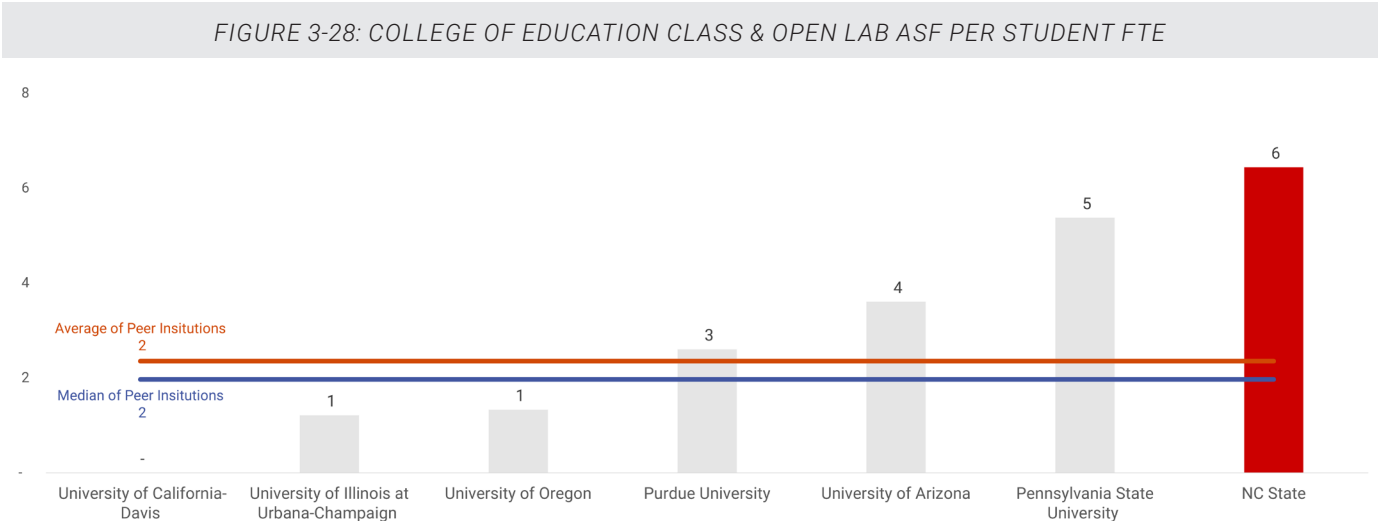
FIGURE 3-26: COLLEGE OF EDUCATION (400-800 SERIES)

	Study Facilities (400 series)	Special Use Facilities (500 series)	General Use Facilities (600 series)	Support Facilities (700 series)	Health Care Facilities (800 series)
NC State University	4,379	3,648	8,899	264	-
Ohio State University	3,095	23,443	23,007	3,297	273
Pennsylvania State University	265	998	909	278	-
Purdue University	2,705	2,911	-	607	-
University of Arizona	7,550	846	512	-	-
University of California-Davis	-	4,536	-	73	-
University of Illinois at Urbana- Champaign	927	236	11,995	427	-
University of Maryland	-	8,118	744	-	-
University of Oregon	4,882	23,400	7,786	315	980
University of Wisconsin	17,091	132,437	56,523	11,373	-

NC State's College of Education (CEd) was in the bottom half of the comparable colleges and schools for total space. Offices made up the most amount of space at this college.

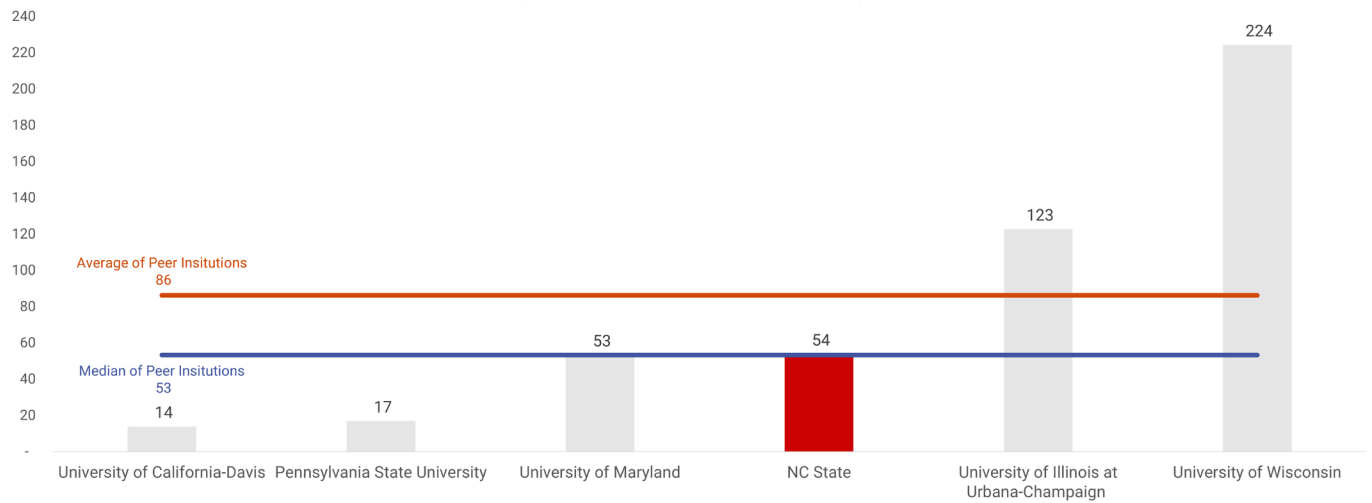


CEd was near the peer group median of 54 ASF/FTE when looking at total space per student. The college had 53 ASF/FTE.



When just Class Lab and Open Lab facilities are reviewed, CEd had the most space per student with 6 ASF/FTE, the peer group average was just 2 ASF/FTE.

FIGURE 3-29: COLLEGE OF EDUCATION RESEARCH LAB ASF PER FACULTY FTE



Again, CEEd fell right near the peer group median for research lab space per faculty FTE with 54 ASF/faculty FTE.

College of Engineering

FIGURE 3-30: COLLEGE OF ENGINEERING

	Existing Assignable Space	Student FTE	Faculty FTE	Staff FTE
NC State University	731,761	9,227	395	1,281
Ohio State University	1,264,929	-	-	-
Pennsylvania State University	779,056	9,341	467	398
Purdue University	1,214,835	12,241	-	-
Rutgers University	344,881	3,912	214	117
University of Arizona	328,024	3,456	-	-
University of California-Davis	443,248	5,603	190	324
University of Illinois at Urbana-Champaign	1,367,887	10,840	679	1,655
University of Maryland	581,761	-	521	251
University of Wisconsin	697,041	-	184	-
Anonymous A	1,147,934	11,448	-	-
Anonymous B	516,845	8,293	-	-

FIGURE 3-31: SPACE TYPE BY TOTAL INVENTORY - COLLEGE OF EDUCATION



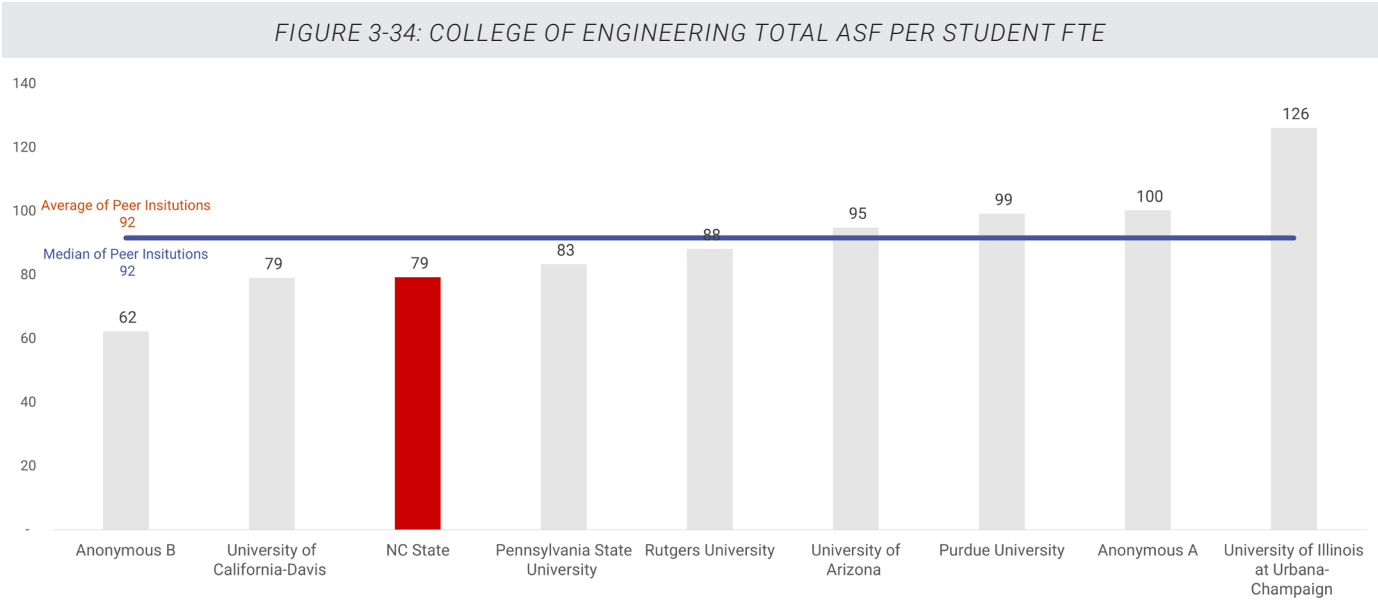
FIGURE 3-32: COLLEGE OF ENGINEERING (100-300 SERIES)

	Classrooms (100 series)	Class Laboratory Facilities (210 series)	Open Laboratory Facilities (220 series)	Research/ Nonclass Laboratory Facilities (250 series)	Office Facilities (300 series)
NC State University	988	59,775	38,803	295,732	286,052
Ohio State University	8,232	180,480	84,443	266,101	360,044
Pennsylvania State University	15,641	112,738	-	341,351	271,566
Purdue University	-	107,518	57,690	547,594	426,706
Rutgers University	11,395	56,563	-	149,496	115,488
University of Arizona	6,862	36,670	5,631	147,817	111,797
University of California-Davis	3,435	32,339	15,447	220,751	136,109
University of Illinois at Urbana- Champaign	44,623	154,822	-	455,930	534,639
University of Maryland	6,103	58,252	7,423	262,865	217,333
University of Wisconsin	17,541	119,357	-	261,529	258,483
Anonymous A	12,586	56,910	44,666	481,910	491,083
Anonymous B	-	108,392	-	169,278	200,227

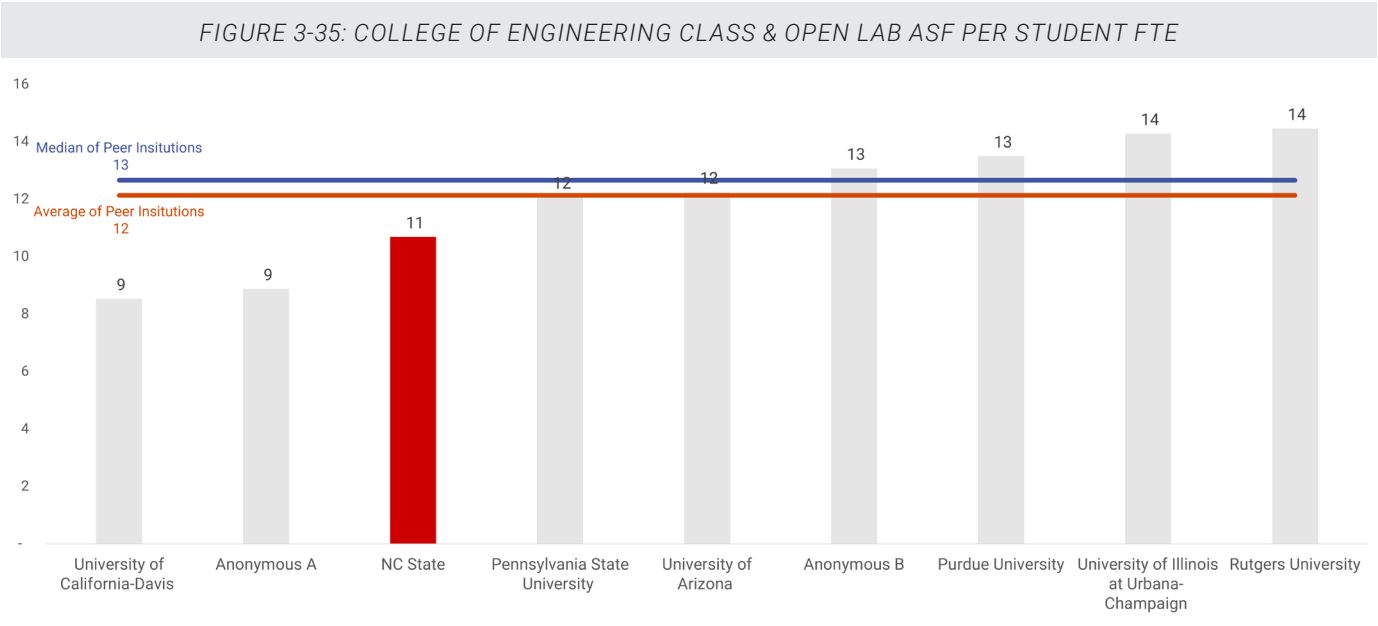
FIGURE 3-33: COLLEGE OF ENGINEERING (400-800 SERIES)

	Study Facilities (400 series)	Special Use Facilities (500 series)	General Use Facilities (600 series)	Support Facilities (700 series)	Health Care Facilities (800 series)
NC State University	6,688	4,459	24,682	14,582	-
Ohio State University	3,335	2,250	31,219	326,525	2,300
Pennsylvania State University	4,989	535	12,083	20,153	-
Purdue University	16,046	3,489	17,589	35,395	2,808
Rutgers University	4,380	-	3,517	4,042	-
University of Arizona	6,171	-	3,292	9,784	-
University of California-Davis	1,000	3,080	-	31,087	-
University of Illinois at Urbana- Champaign	13,553	3,014	48,344	112,363	599
University of Maryland	178	7,861	8,280	13,466	-
University of Wisconsin	7,441	3,317	18,697	10,676	-
Anonymous A	19,308	291	9,454	31,726	-
Anonymous B	1,538	4,408	21,155	11,847	-

NC State's College of Engineering (CoE) was in the middle of the peer colleges and schools, above the median and below the average. CoE had nearly 300,000 ASF of research lab space and as well as office space.

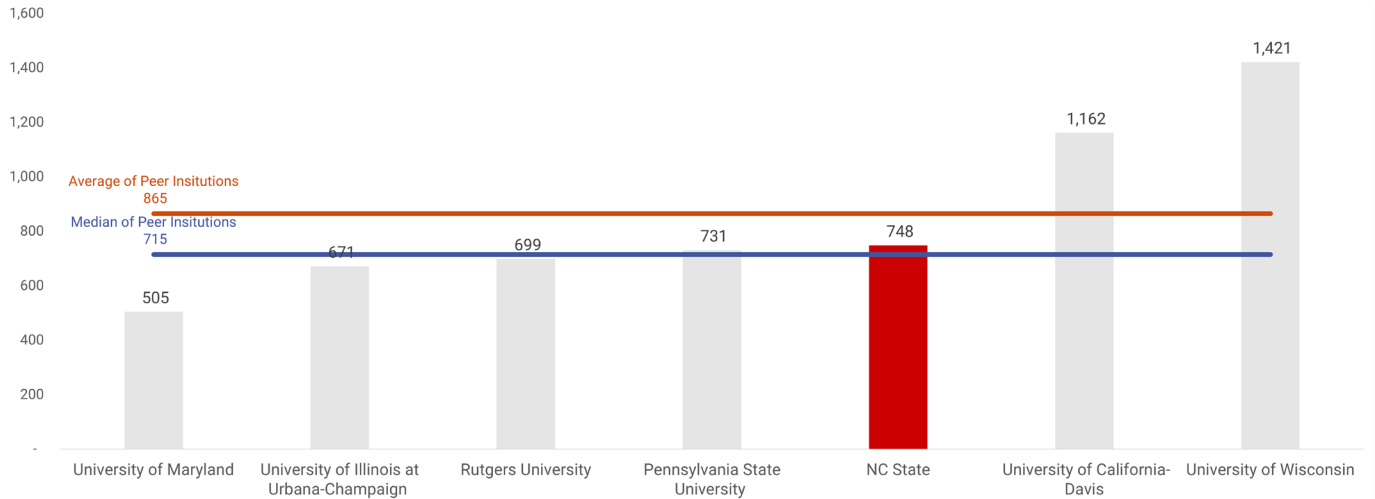


When looking at total college space per student, CoE was in the lower half of the group, with 79 ASF/FTE. The peer group average was 92 ASF/FTE.



Again, when Class Lab and Open Lab space per student were reviewed, CoE was near the bottom of the group with 11 ASF/FTE. The peer group average was just above this at 12 ASF/FTE.

FIGURE 3-36: COLLEGE OF ENGINEERING RESEARCH LAB ASF PER FACULTY FTE



When looking at research lab space per faculty, CoE was in the upper half of the group but still below the peer group average of 865 ASF/faculty FTE with 748 ASF/faculty FTE.

College of Humanities and Social Sciences

FIGURE 3-37: COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

	Existing Assignable Space	Student FTE	Faculty FTE	Staff FTE
NC State University	134,609	4,456	395	352
Ohio State University	1,603,872	-	-	-
Pennsylvania State University	376,885	10,386	936	451
Purdue University	242,221	2,940	-	-
Rutgers University	1,054,176	21,612	1,293	798
University of Arizona	539,369	8,478	-	-
University of California-Davis	797,047	14,510	577	667
University of Illinois at Urbana-Champaign	1,841,661	18,835	1,302	1,803
University of Maryland	724,600	-	1,121	410
University of Oregon	648,051	12,598	-	-
University of Wisconsin	1,584,607	-	764	-
Anonymous A	116,742	1,129	-	-
Anonymous B	730,781	7,470	-	-

FIGURE 3-38: SPACE TYPE BY TOTAL INVENTORY - COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

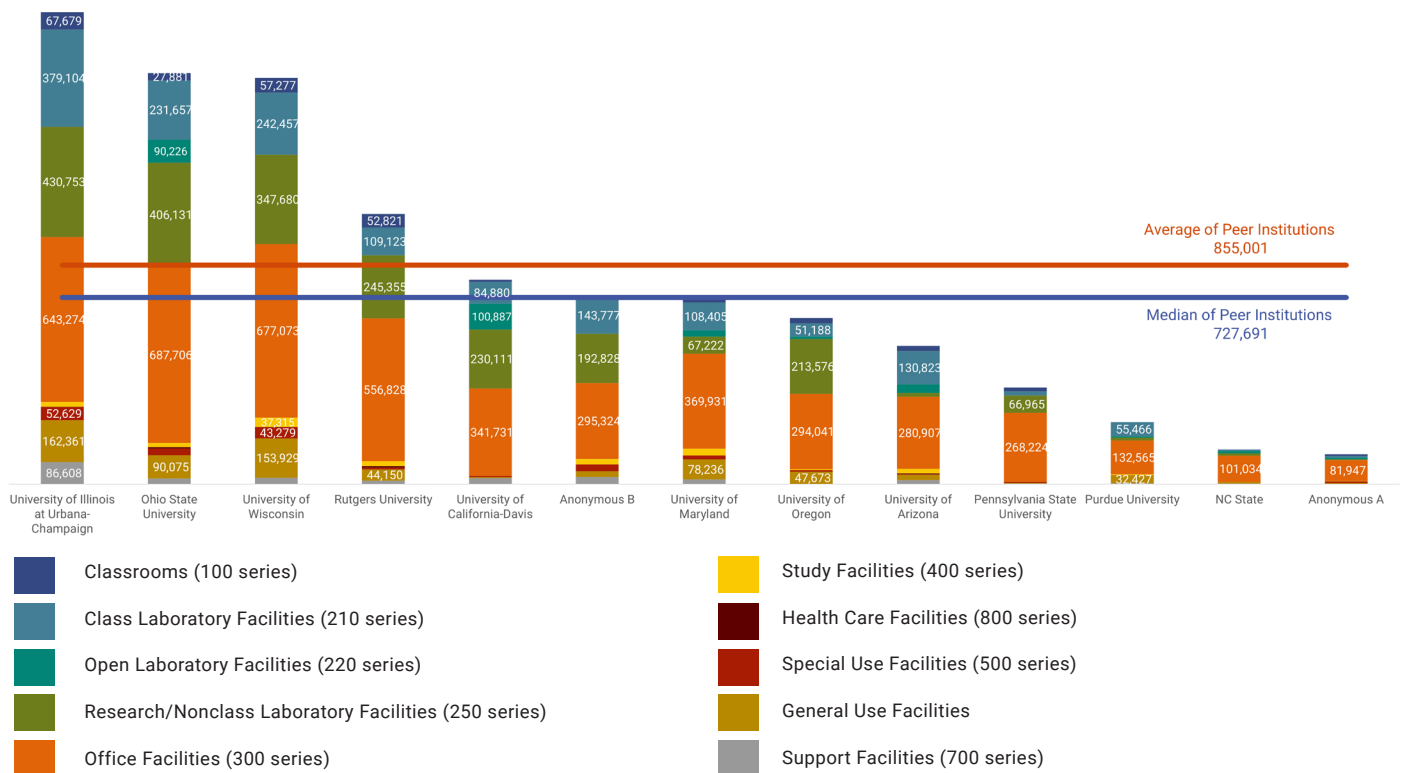


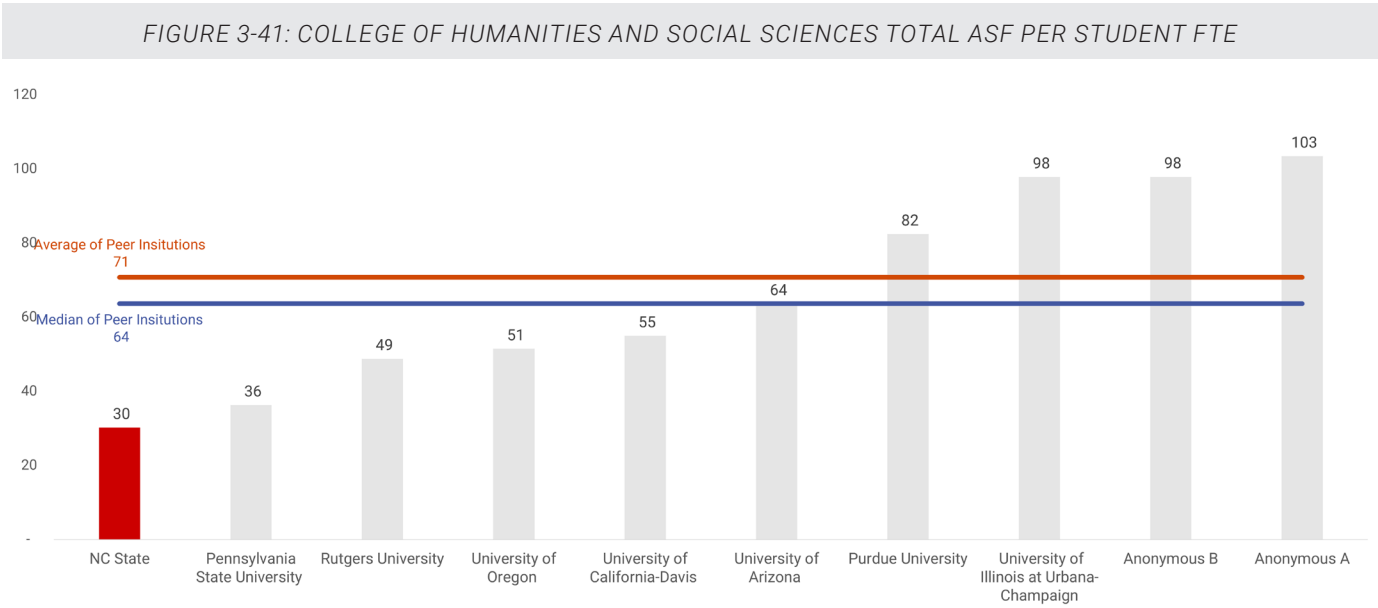
FIGURE 3-39: COLLEGE OF HUMANITIES AND SOCIAL SCIENCES (100-300 SERIES)

	Classrooms (100 series)	Class Laboratory Facilities (210 series)	Open Laboratory Facilities (220 series)	Research/ Nonclass Laboratory Facilities (250 series)	Office Facilities (300 series)
NC State University	344	5,101	8,563	10,327	101,034
Ohio State University	27,881	231,657	90,226	406,131	687,706
Pennsylvania State University	15,613	15,834	-	66,965	268,224
Purdue University	-	55,466	5,027	11,307	132,565
Rutgers University	52,821	109,123	-	245,355	556,828
University of Arizona	19,792	130,823	32,384	15,599	280,907
University of California-Davis	7,857	84,880	100,887	230,111	341,731
University of Illinois at Urbana- Champaign	67,679	379,104	-	430,753	643,274
University of Maryland	16,220	108,405	24,346	67,222	369,931
University of Oregon	20,825	51,188	9,925	213,576	294,041
University of Wisconsin	57,277	242,457	-	347,680	677,073
Anonymous A	7,315	5,828	6,571	2,167	81,947
Anonymous B	-	143,777	-	192,828	295,324

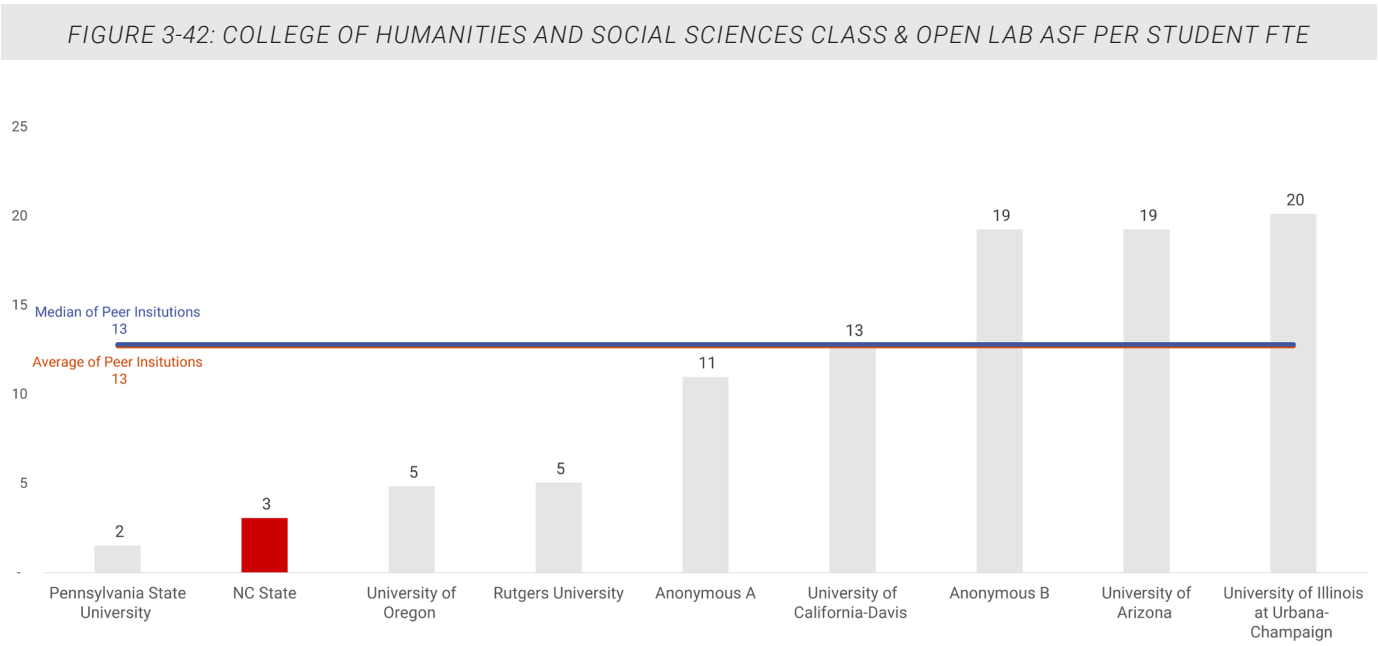
FIGURE 3-40: COLLEGE OF HUMANITIES AND SOCIAL SCIENCES (400-800 SERIES)

	Study Facilities (400 series)	Special Use Facilities (500 series)	General Use Facilities (600 series)	Support Facilities (700 series)	Health Care Facilities (800 series)
NC State University	468	-	6,772	2,000	-
Ohio State University	15,948	27,023	90,075	22,112	5,113
Pennsylvania State University	562	4,709	2,924	2,054	-
Purdue University	2,357	-	32,427	3,072	-
Rutgers University	20,320	5,888	44,150	14,000	5,691
University of Arizona	17,908	1,138	21,864	15,683	3,271
University of California-Davis	-	4,933	3,568	23,080	-
University of Illinois at Urbana- Champaign	19,070	52,629	162,361	86,608	183
University of Maryland	26,773	15,192	78,236	18,275	-
University of Oregon	3,583	6,375	47,673	865	-
University of Wisconsin	37,315	43,279	153,929	25,105	492
Anonymous A	2,282	6,841	3,680	-	111
Anonymous B	21,675	26,948	22,448	27,781	-

NC State's College of Humanities and Social Sciences (CHASS) had nearly the least amount of space of all the comparable colleges and schools. Most of the CHASS space is office space.

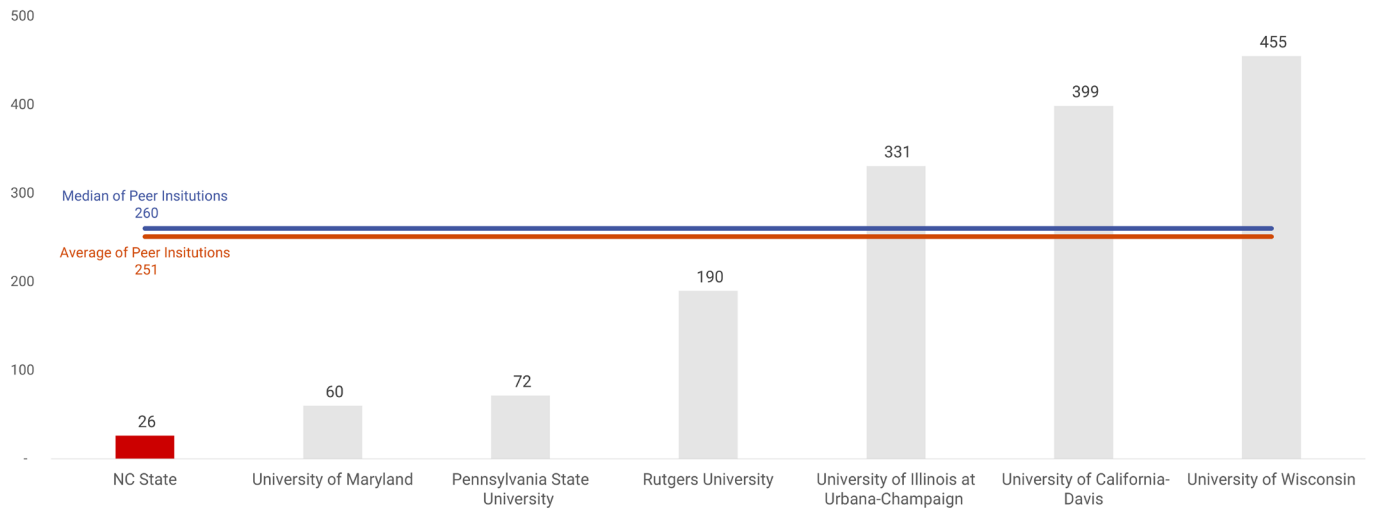


When looking at space per student for CHASS and similar schools or colleges, CHASS had the least space per student with 30 ASF/FTE. The peer group average was 71 ASF/FTE.



CHASS was again near the bottom when looking at Class Lab and Open Lab space per student with 3 ASF/FTE. The peer group average was 13 ASF/FTE.

FIGURE 3-43: COLLEGE OF HUMANITIES AND SOCIAL SCIENCES RESEARCH LAB ASF PER FACULTY FTE



Finally, when looking at research lab space per faculty, CHASS had the least amount with 26 ASF/ faculty FTE. The peer group average was 251 ASF/faculty FTE.

College of Natural Resources

FIGURE 3-44: COLLEGE OF NATURAL RESOURCES

	Existing Assignable Space	Student FTE	Faculty FTE	Staff FTE
NC State University	129,230	1,928	104	302
Pennsylvania State University	294,490	1,849	283	139

FIGURE 3-45: SPACE TYPE BY TOTAL INVENTORY - COLLEGE OF NATURAL RESOURCES

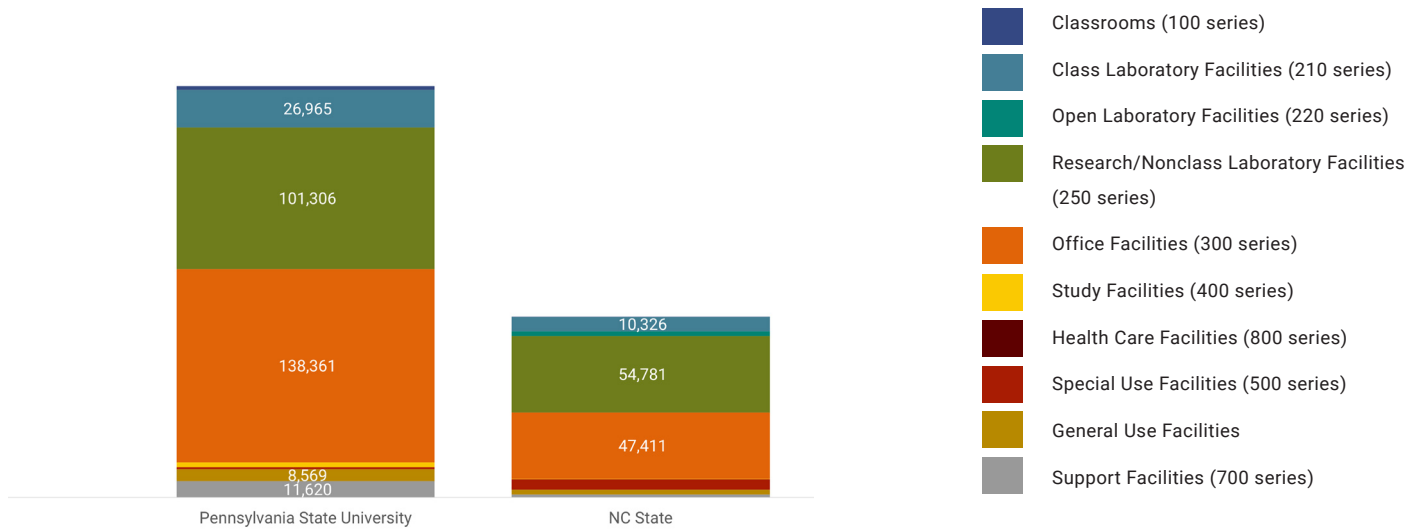


FIGURE 3-46: COLLEGE OF NATURAL RESOURCES (100-300 SERIES)

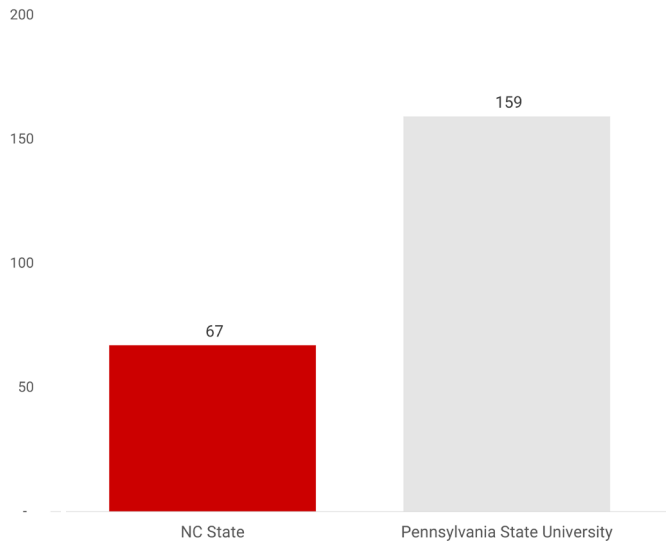
	Classrooms (100 series)	Class Laboratory Facilities (210 series)	Open Laboratory Facilities (220 series)	Research/Nonclass Laboratory Facilities (250 series)	Office Facilities (300 series)
NC State University	37	10,326	3,228	54,781	47,411
Pennsylvania State University	2,703	26,965	-	101,306	138,361

FIGURE 3-47: COLLEGE OF NATURAL RESOURCES (400-800 SERIES)

	Study Facilities (400 series)	Special Use Facilities (500 series)	General Use Facilities (600 series)	Support Facilities (700 series)	Health Care Facilities (800 series)
NC State University	353	7,416	3,630	2,048	-
Pennsylvania State University	3,416	1,550	8,569	11,620	-

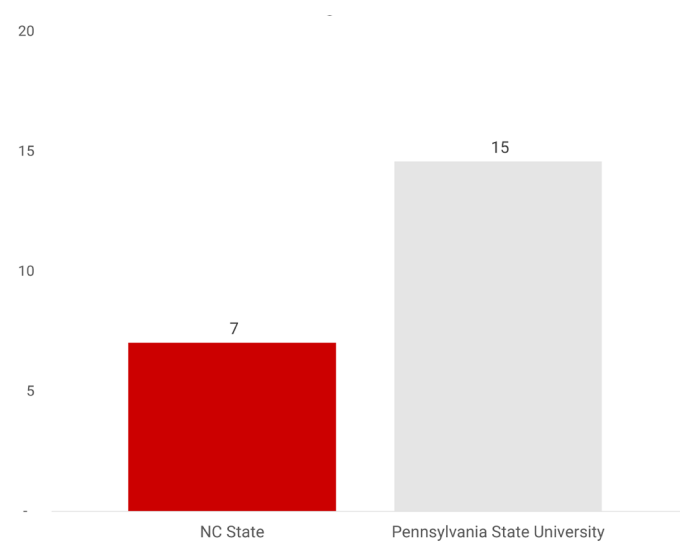
When comparing NC State's College of Natural Resources (CNR) with the comparable college at Pennsylvania State University, CNR has less than half the amount of space with Research Labs having the largest portion of space.

FIGURE 3-48: COLLEGE OF NATURAL RESOURCES
TOTAL ASF PER STUDENT FTE



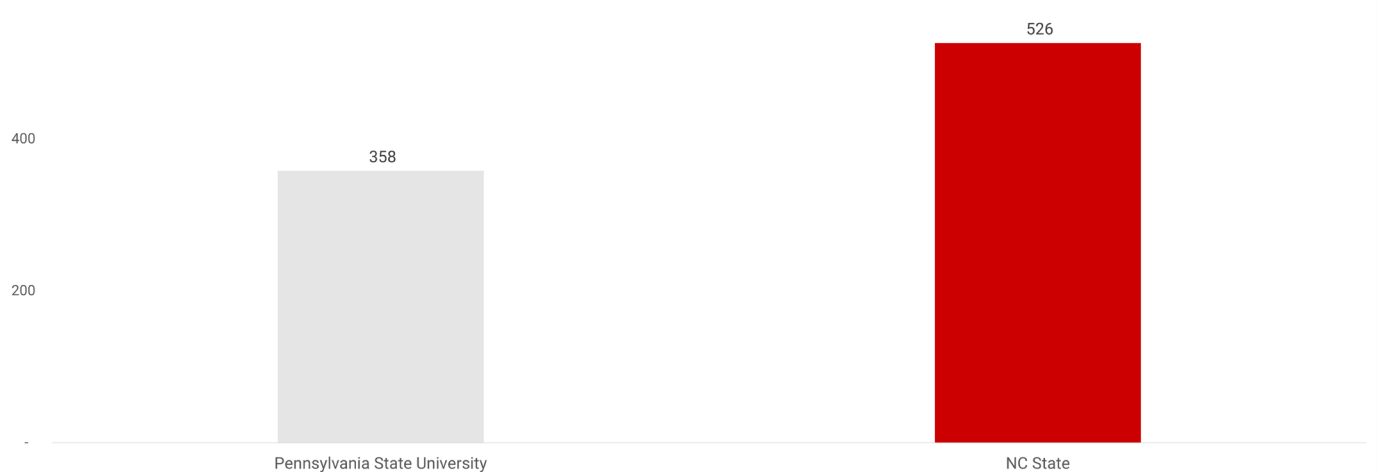
CNR had less space per student than the comparable college at Penn State with under 70 ASF/FTE. Penn State was approximately 160 ASF/FTE.

FIGURE 3-49: COLLEGE OF NATURAL RESOURCES
CLASS & OPEN LAB ASF PER STUDENT FTE



Similarly, CRN had less Class Lab and Open Lab space per student than the comparable college at Penn State with 7 ASF/FTE. Penn State was 15 ASF/FTE.

FIGURE 3-50: COLLEGE OF NATURAL RESOURCES RESEARCH LAB ASF PER FACULTY FTE



CNR had more research space per faculty with 526 ASF/faculty FTE compared to 358 ASF/faculty FTE at the comparable college at Penn State.

College of Sciences

FIGURE 3-51: COLLEGE OF SCIENCES

	Existing Assignable Space	Student FTE	Faculty FTE	Staff FTE
NC State University	463,631	3,839	306	660
Pennsylvania State University	560,675	4,140	616	287
Purdue University	808,832	5,858	-	-
University of Arizona	1,030,101	7,228	-	-
University of California-Davis	401,230	6,295	99	424
University of Maryland	973,411	-	1,016	289
Anonymous A	526,170	2,919	-	-

FIGURE 3-52: SPACE TYPE BY TOTAL INVENTORY - COLLEGE OF SCIENCES

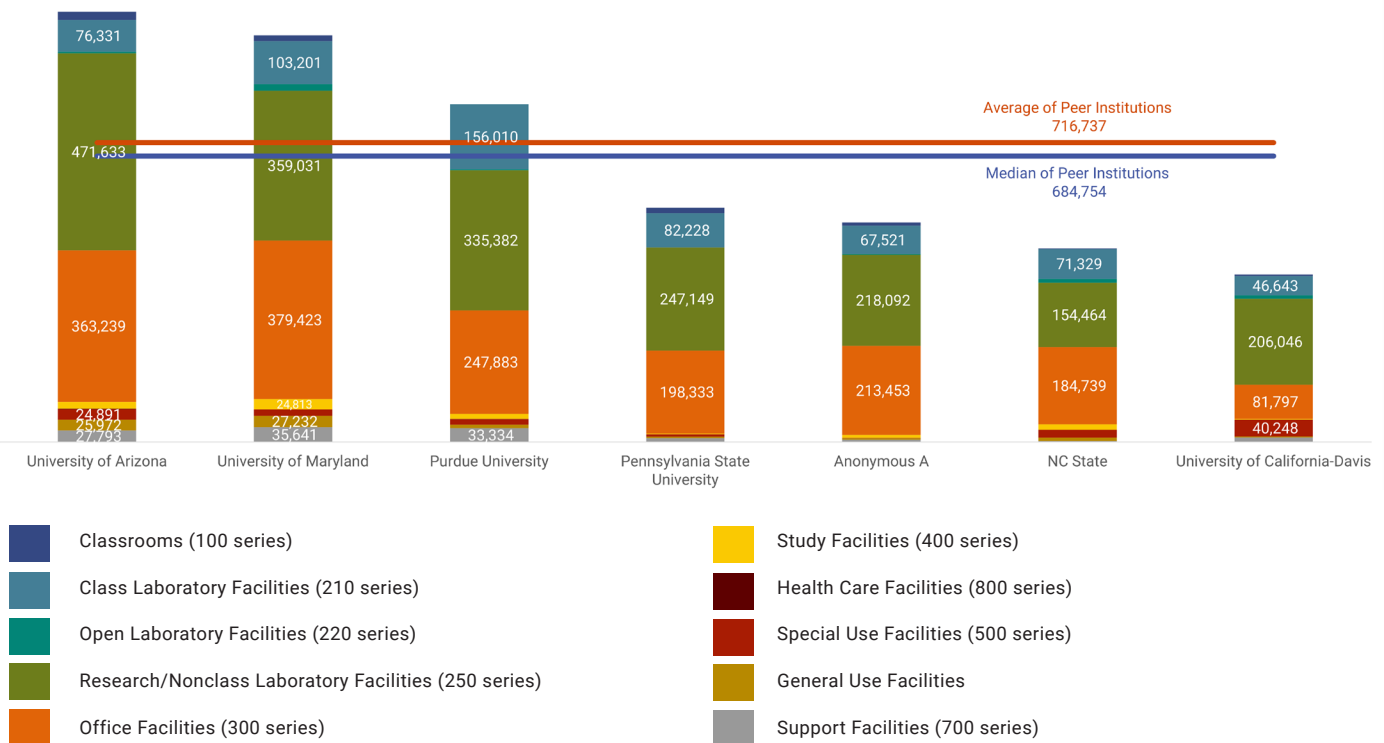


FIGURE 3-53: COLLEGE OF SCIENCES (100-300 SERIES)

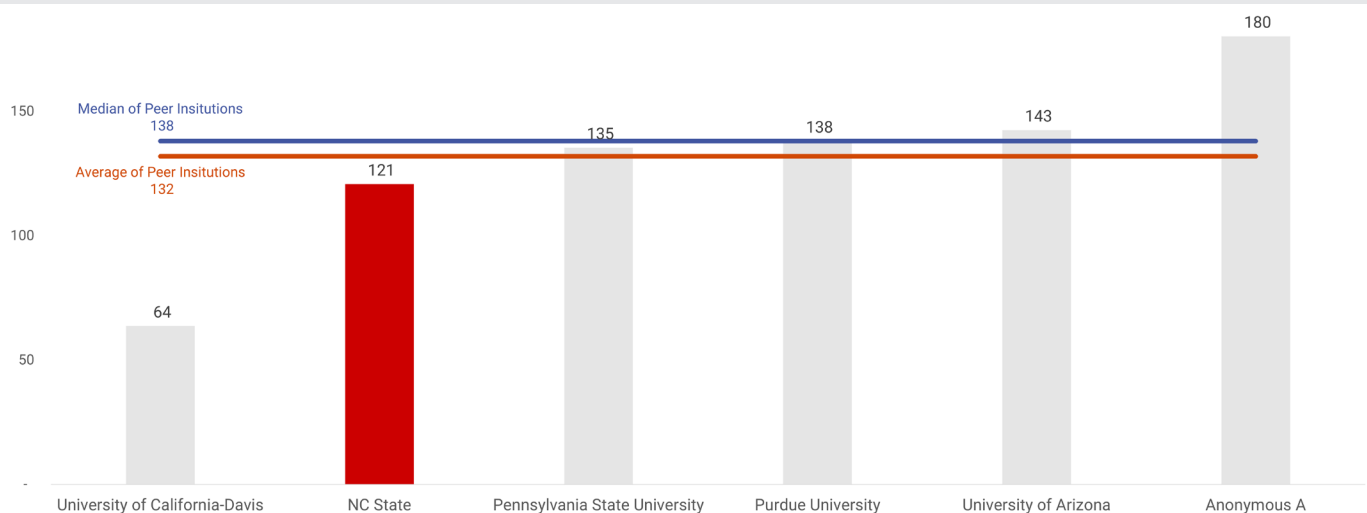
	Classrooms (100 series)	Class Laboratory Facilities (210 series)	Open Laboratory Facilities (220 series)	Research/ Nonclass Laboratory Facilities (250 series)	Office Facilities (300 series)
NC State University	1,358	71,329	9,142	154,464	184,739
Pennsylvania State University	12,424	82,228	-	247,149	198,333
Purdue University	-	156,010	2,127	335,382	247,883
University of Arizona	19,111	76,331	3,900	471,633	363,239
University of California-Davis	3,533	46,643	7,703	206,046	81,797
University of Maryland	13,285	103,201	15,582	359,031	379,423
Anonymous A	8,478	67,521	1,796	218,092	213,453

FIGURE 3-54: COLLEGE OF SCIENCES (400-800 SERIES)

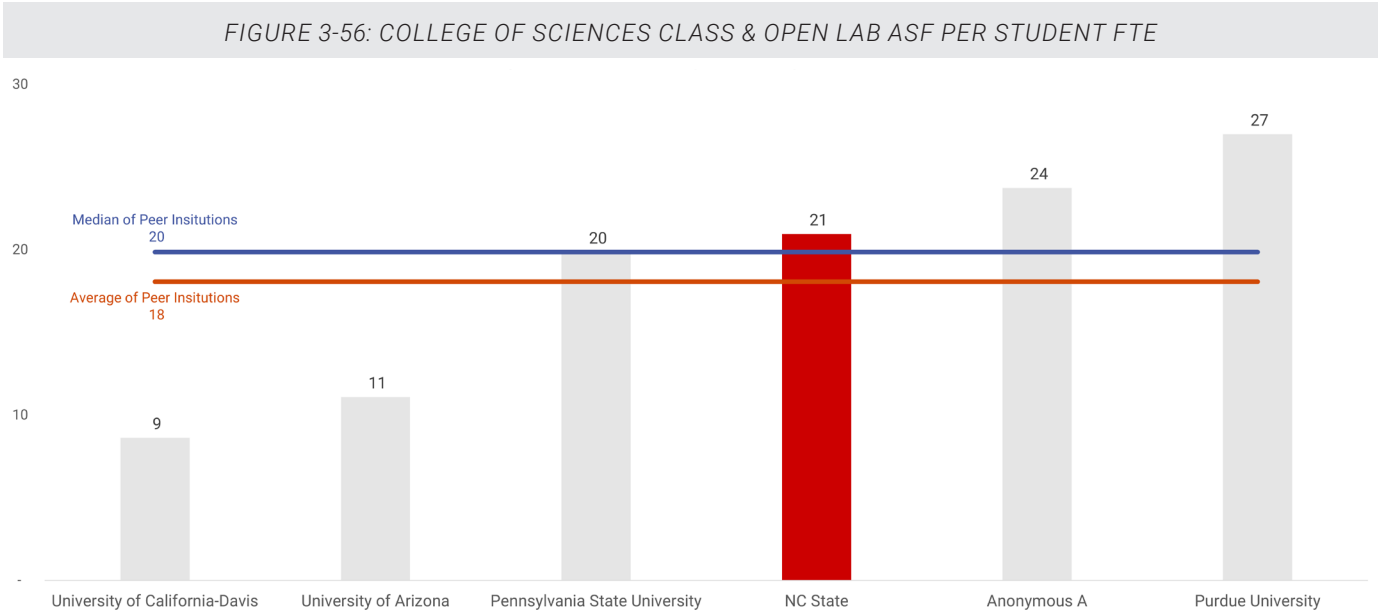
	Study Facilities (400 series)	Special Use Facilities (500 series)	General Use Facilities (600 series)	Support Facilities (700 series)	Health Care Facilities (800 series)
NC State University	12,889	18,937	8,273	2,500	-
Pennsylvania State University	1,766	5,728	3,833	9,214	-
Purdue University	12,372	13,231	8,364	33,334	129
University of Arizona	16,273	24,891	25,972	27,793	958
University of California-Davis	1,852	40,248	2,105	11,303	-
University of Maryland	24,813	15,203	27,232	35,641	-
Anonymous A	6,586	559	4,038	5,647	-

NC State's College of Sciences (CoS) had the second least total space when compared to the peer colleges and schools with the largest portion of space dedicated to office space.

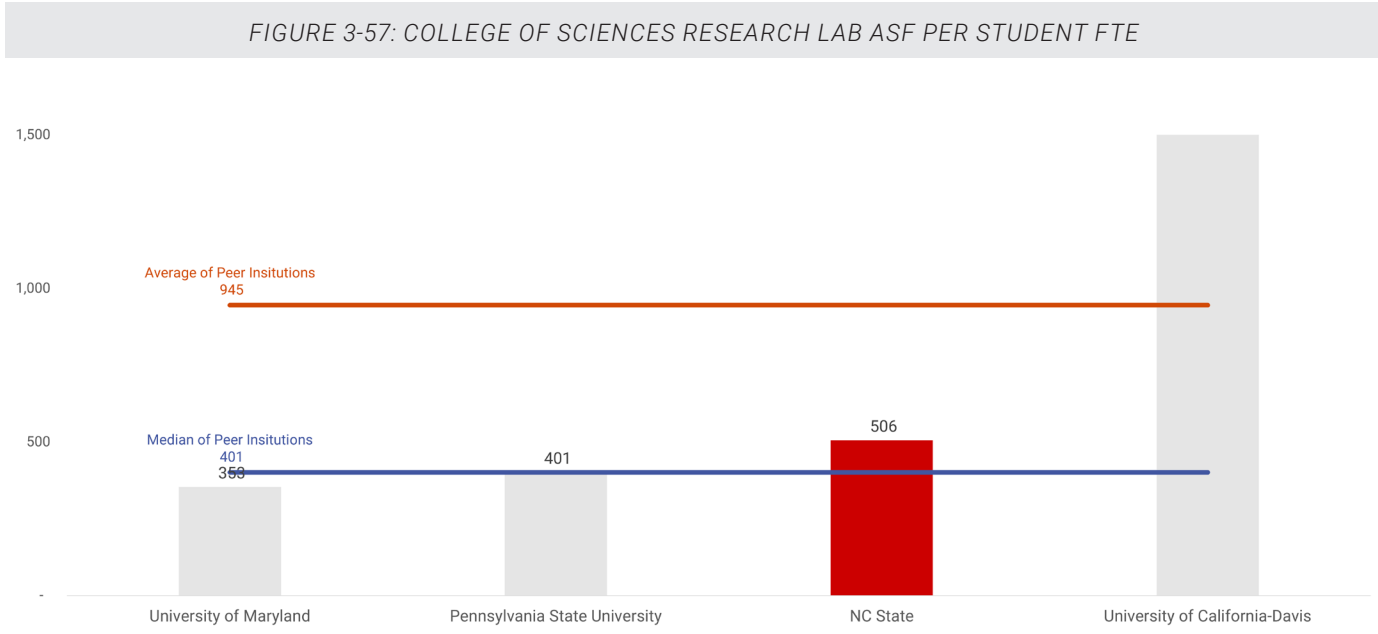
FIGURE 3-55: COLLEGE OF SCIENCES TOTAL ASF PER STUDENT FTE



CoS had the second least total space per student with over 120 ASF/FTE, below the peer group average of over 130 ASF/FTE.



CoS was near the middle for Class Lab and Open Lab space per student with 21 ASF/FTE, above the peer group average of 18 ASF/FTE.



CoS had the second most research lab space per faculty when compared to the peer colleges or schools with 506 ASF/faculty FTE. However, this was still below the peer group average of 945 ASF/faculty FTE.

College of Veterinary Medicine

FIGURE 3-58: COLLEGE OF VETERINARY MEDICINE

	Existing Assignable Space	Student FTE	Faculty FTE	Staff FTE
NC State University	408,710	474	155	733
Ohio State University	283,565	-	-	-
Purdue University	226,011	780	-	-
University of Arizona	11,897	-	-	-
University of California-Davis	638,247	465	111	1,051
University of Illinois at Urbana-Champaign	379,311	627	217	278
University of Wisconsin	179,800	-	113	-
Anonymous B	394,518	759	-	-

FIGURE 3-59: SPACE TYPE BY TOTAL INVENTORY - COLLEGE OF VETERINARY MEDICINE

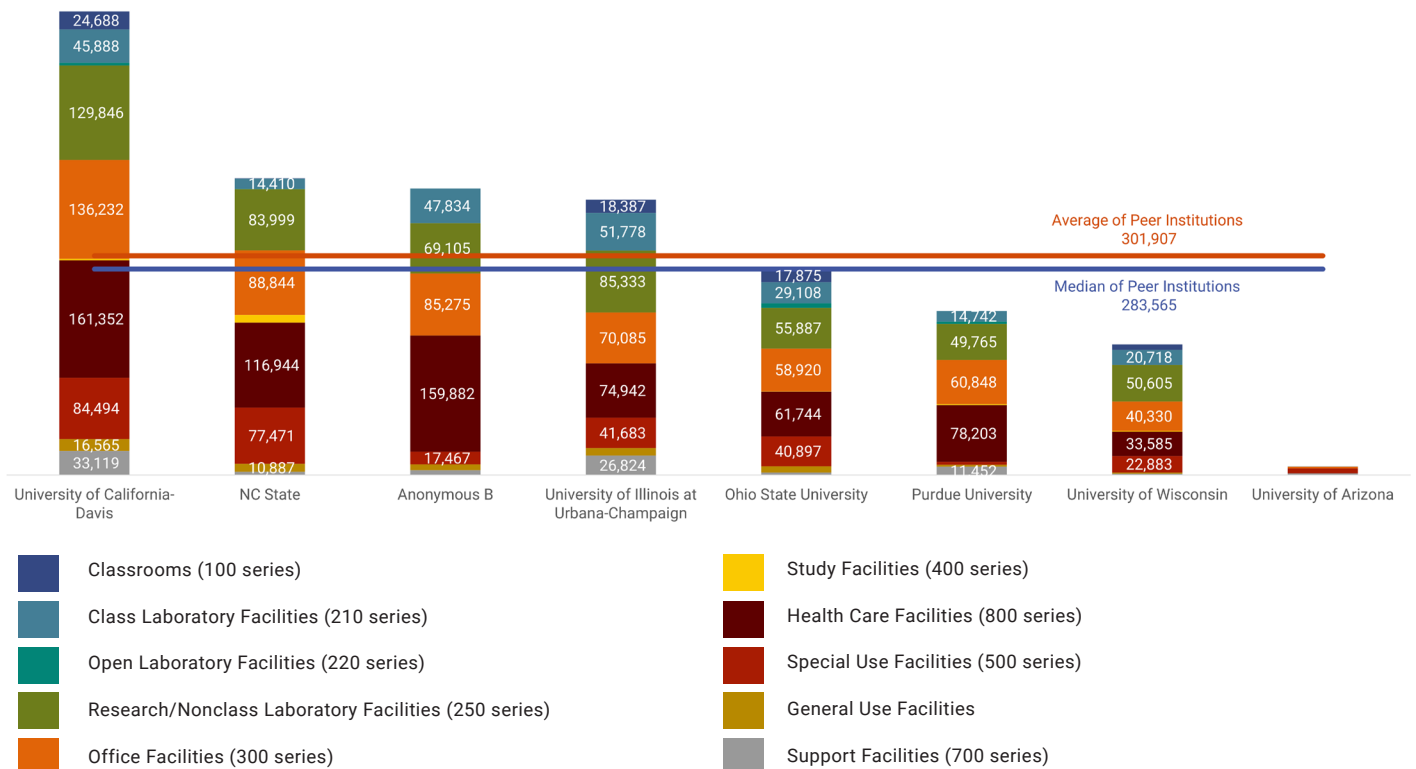


FIGURE 3-60: COLLEGE OF VETERINARY MEDICINE (100-300 SERIES)

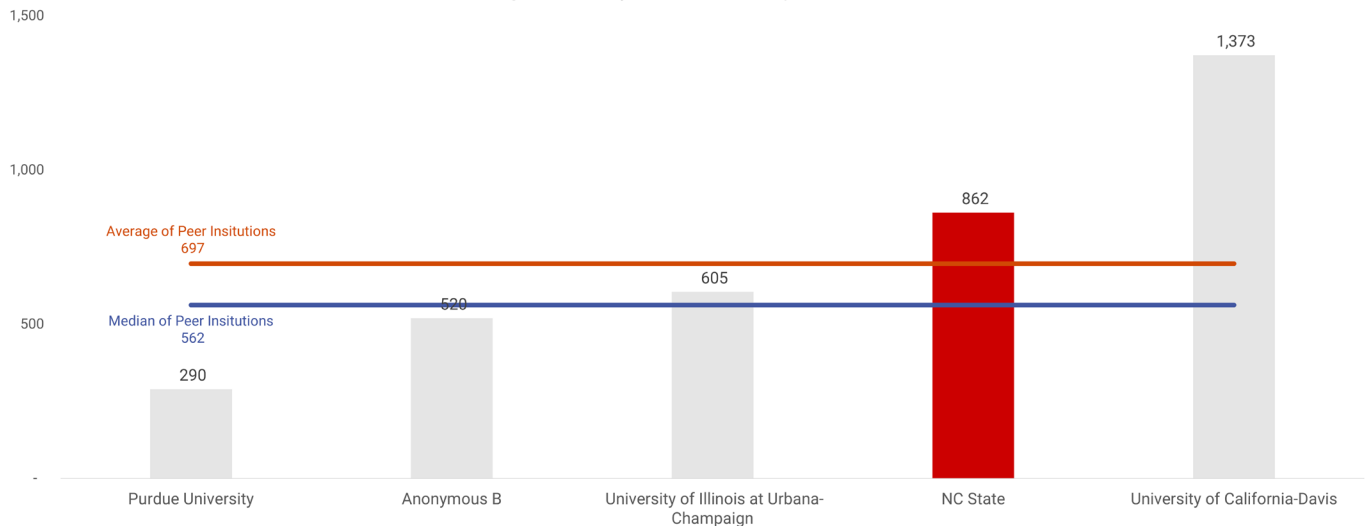
	Classrooms (100 series)	Class Laboratory Facilities (210 series)	Open Laboratory Facilities (220 series)	Research/ Nonclass Laboratory Facilities (250 series)	Office Facilities (300 series)
NC State University	414	14,410	517	83,999	88,844
Ohio State University	17,875	29,108	6,424	55,887	58,920
Purdue University	-	14,742	3,093	49,765	60,848
University of Arizona	-	509	-	-	2,306
University of California-Davis	24,688	45,888	3,789	129,846	136,232
University of Illinois at Urbana- Champaign	18,387	51,778	-	85,333	70,085
University of Wisconsin	7,231	20,718	-	50,605	40,330
Anonymous B	-	47,834	-	69,105	85,275

FIGURE 3-61: COLLEGE OF VETERINARY MEDICINE (400-800 SERIES)

	Study Facilities (400 series)	Special Use Facilities (500 series)	General Use Facilities (600 series)	Support Facilities (700 series)	Health Care Facilities (800 series)
NC State University	10,657	77,471	10,887	4,567	116,944
Ohio State University	499	40,897	8,836	3,375	61,744
Purdue University	1,207	4,005	2,696	11,452	78,203
University of Arizona	-	6,507	-	2,575	-
University of California-Davis	2,274	84,494	16,565	33,119	161,352
University of Illinois at Urbana- Champaign	-	41,683	10,279	26,824	74,942
University of Wisconsin	1,015	22,883	1,763	1,670	33,585
Anonymous B	304	17,467	7,960	6,691	159,882

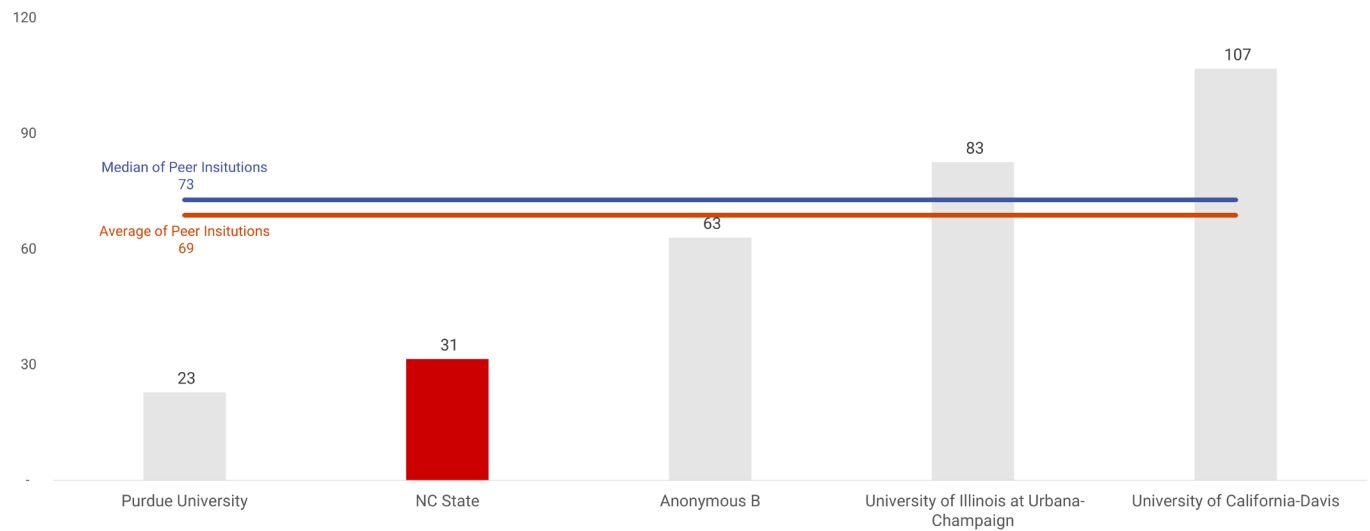
When comparing NC State's College of Veterinary Medicine (CVM), CVM had the second most amount of space with Health Care Facilities having the largest portion of space. (Note: the health care facilities FICM taxonomy accounts for human and animal health care.)

FIGURE 3-62: COLLEGE OF VETERINARY MEDICINE TOTAL ASF PER STUDENT FTE

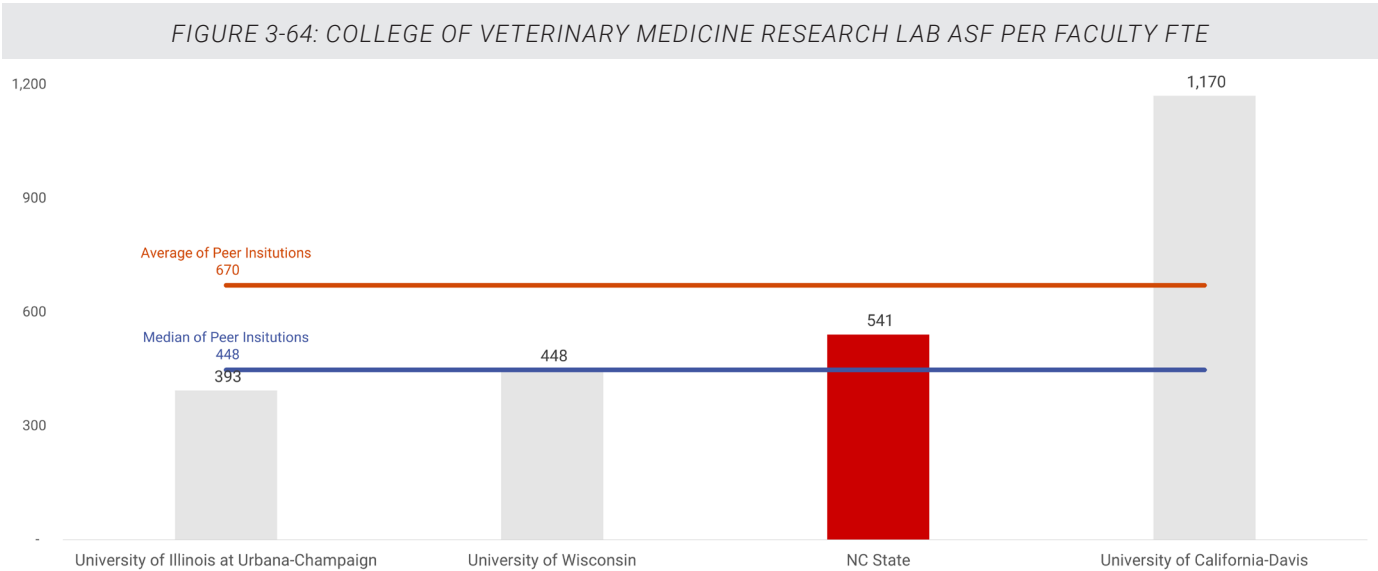


CVM had the second most total space per student with 862 ASF/FTE, above the peer group average of nearly 700 ASF/FTE.

FIGURE 3-63: COLLEGE OF VETERINARY MEDICINE CLASS & OPEN LAB ASF PER STUDENT FTE



CVM was below the peer colleges and schools for Class Lab and Open Lab space per student with 31 ASF/FTE. The peer group average was 69 ASF/FTE.



CVM had the second most research lab space per faculty of the comparable colleges and school with 541 ASF/faculty FTE. However, this was still below the peer group average of 670 ASF/faculty FTE.

Poole College of Management

FIGURE 3-65: POOLE COLLEGE OF MANAGEMENT

	Existing Assignable Space	Student FTE	Faculty FTE	Staff FTE
NC State University	57,321	4,123	101	163
Ohio State University	140,797	-	-	-
Pennsylvania State University	102,545	5,206	164	173
Purdue University	105,040	3,057	-	-
Rutgers University	58,394	4,383	77	59
University of Arizona	106,287	-	-	-
University of California-Davis	23,788	30	28	92
University of Illinois at Urbana-Champaign	131,436	6,768	193	261
University of Maryland	137,089	-	158	195
University of Oregon	67,243	3,407	-	-
University of Wisconsin	148,727	-	79	-
Anonymous A	6,290	1,630	-	-
Anonymous B	58,534	4,748	-	-

FIGURE 3-66: SPACE TYPE BY TOTAL INVENTORY - POOLE COLLEGE OF MANAGEMENT

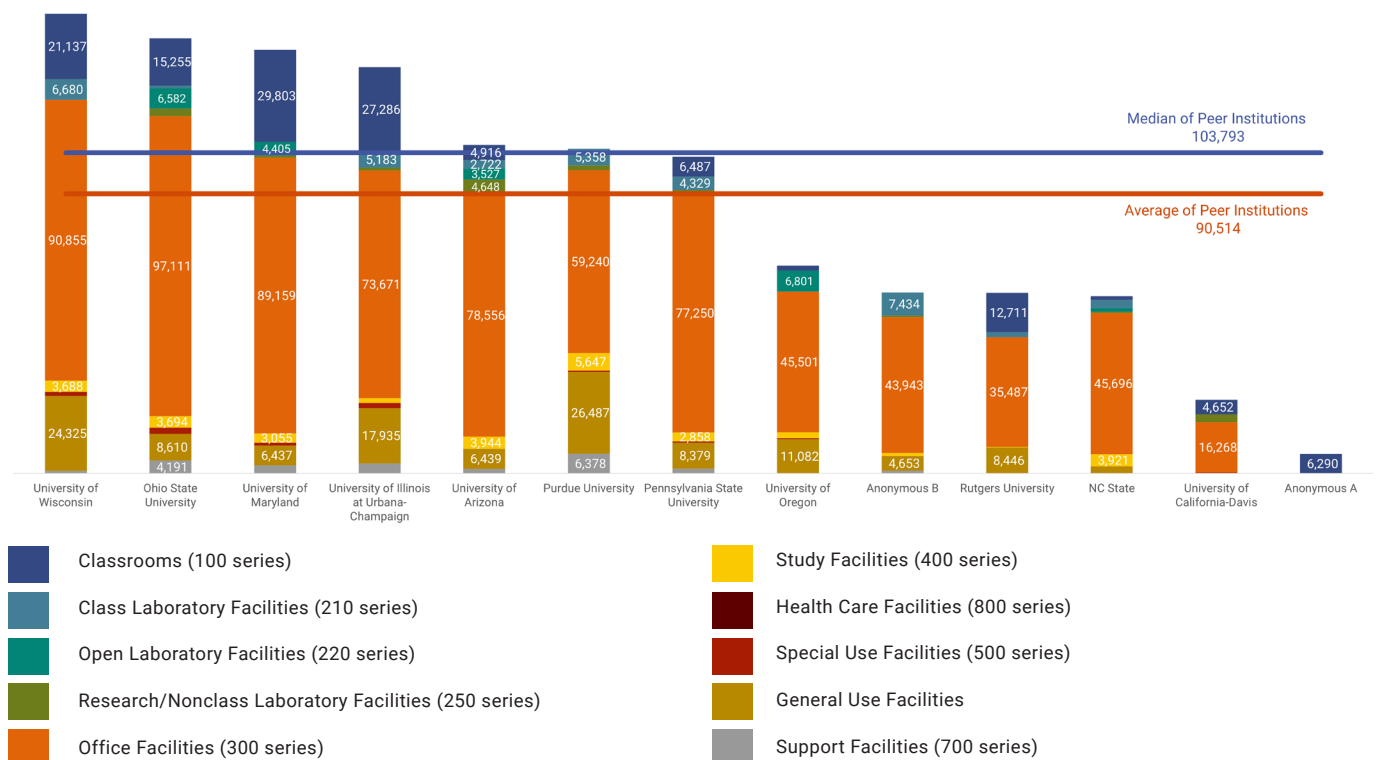


FIGURE 3-67: POOLE COLLEGE OF MANAGEMENT (100-300 SERIES)

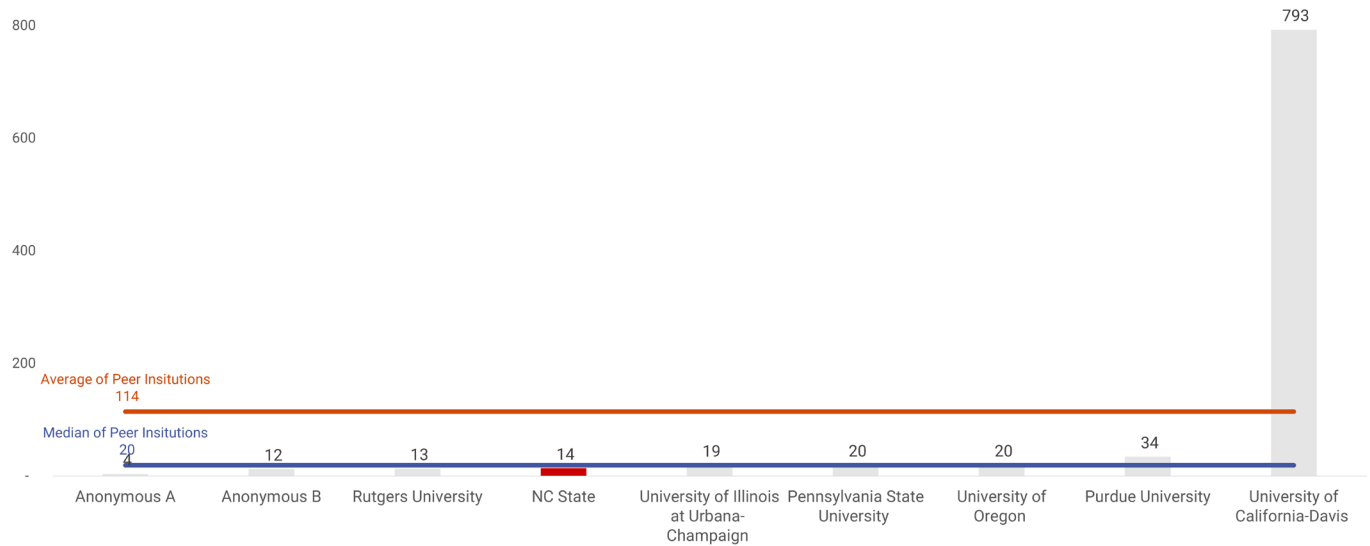
	Classrooms (100 series)	Class Laboratory Facilities (210 series)	Open Laboratory Facilities (220 series)	Research/ Nonclass Laboratory Facilities (250 series)	Office Facilities (300 series)
NC State University	1,187	2,602	1,187	403	45,696
Ohio State University	15,255	875	6,582	2,429	97,111
Pennsylvania State University	6,487	4,329	-	1,226	77,250
Purdue University	-	5,358	-	1,515	59,240
Rutgers University	12,711	1,600	-	-	35,487
University of Arizona	4,916	2,722	3,527	4,648	78,556
University of California-Davis	4,652	-	-	2,524	16,268
University of Illinois at Urbana- Champaign	27,286	5,183	-	941	73,671
University of Maryland	29,803	-	4,405	735	89,159
University of Oregon	1,607	-	6,801	-	45,501
University of Wisconsin	21,137	6,680	-	-	90,855
Anonymous A	6,290	-	-	-	-
Anonymous B	-	7,434	-	550	43,943

FIGURE 3-68: POOLE COLLEGE OF MANAGEMENT (400-800 SERIES)

	Study Facilities (400 series)	Special Use Facilities (500 series)	General Use Facilities (600 series)	Support Facilities (700 series)	Health Care Facilities (800 series)
NC State University	3,921	-	2,325	-	-
Ohio State University	3,694	2,050	8,610	4,191	-
Pennsylvania State University	2,858	432	8,379	1,584	-
Purdue University	5,647	415	26,487	6,378	-
Rutgers University	125	25	8,446	-	-
University of Arizona	3,944	-	6,439	1,535	-
University of California-Davis	-	171	-	173	-
University of Illinois at Urbana- Champaign	1,542	1,631	17,935	3,247	-
University of Maryland	3,055	872	6,437	2,623	-
University of Oregon	1,850	402	11,082	-	-
University of Wisconsin	3,688	1,256	24,325	786	-
Anonymous A	-	-	-	-	-
Anonymous B	970	54	4,653	930	-

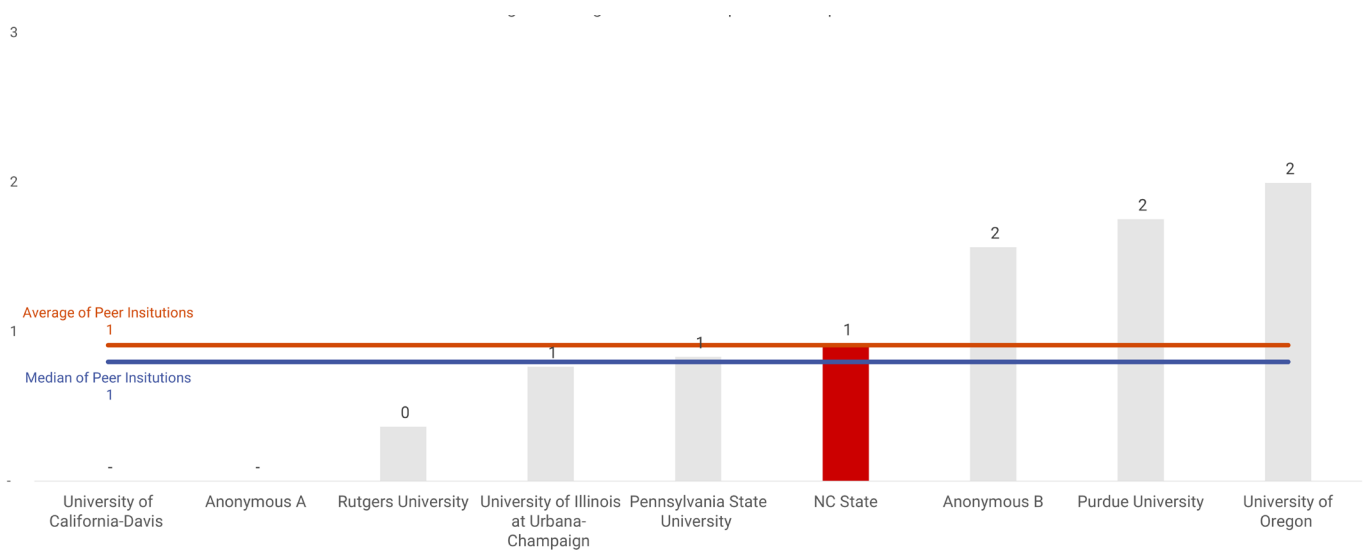
NC State's Poole College of Management (PCM) was in the bottom half for total space when compared to peer colleges and schools with office space having the majority of the space.

FIGURE 3-69: POOLE COLLEGE OF MANAGEMENT TOTAL ASF PER STUDENT FTE

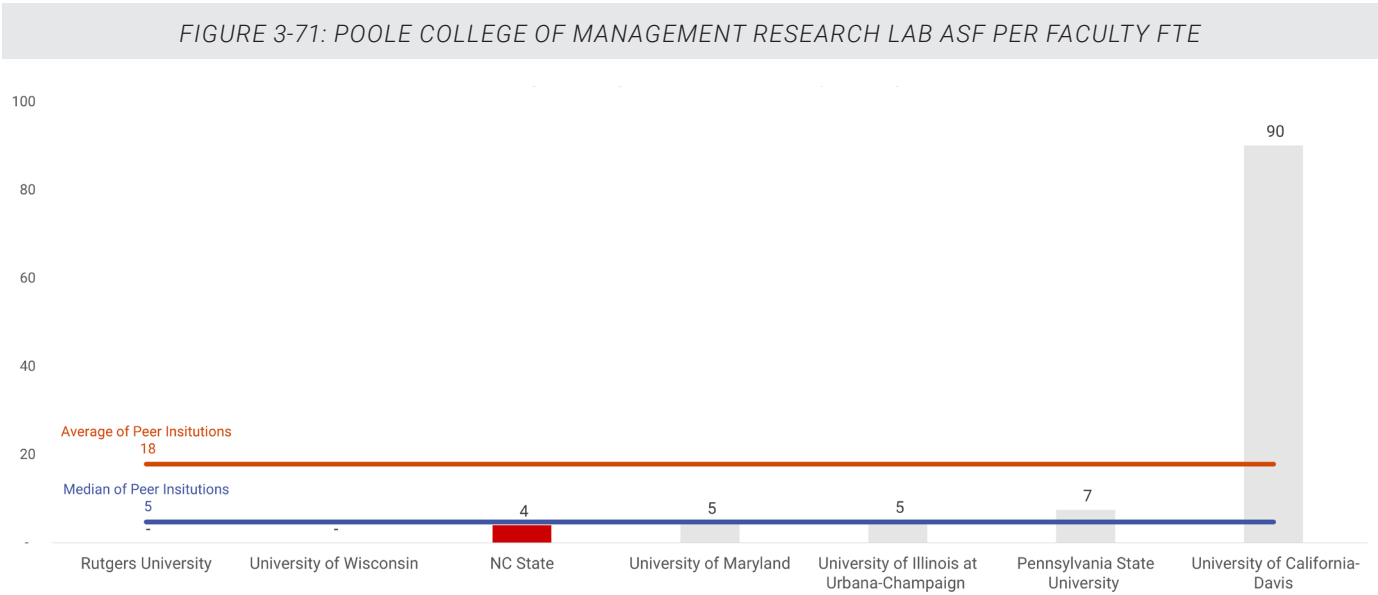


When looking at total space per student, most comparable schools or colleges were between 12 and 20 ASF/FTE. However, UC-Davis reported a total of 793 ASF/FTE. PCM had 14 ASF/FTE.

FIGURE 3-70: POOLE COLLEGE OF MANAGEMENT CLASS & OPEN LAB ASF PER STUDENT FTE



Most comparable colleges and schools had very little Class Lab and Open Lab space per student. PCM was no exception with only one ASF/FTE.



Similar to the total space per student, the research lab space per faculty was extremely skewed by UC-Davis’s 90 ASF/faculty FTE. All other institutions had under 10 ASF/faculty FTE, including 4 ASF/faculty FTE at PCM.

University College

FIGURE 3-64: UNIVERSITY COLLEGE

	Existing Assignable Space	Student FTE	Faculty FTE	Staff FTE
NC State University	98,771	1,902	87	1,415
Purdue University	335,709	-	-	-
Rutgers University	239,387	1,038	87	65
University of Illinois at Urbana-Champaign	113,231	2,322	85	167
University of Oregon	82,585	490	-	-
Anonymous B	227,636	3,930	-	-

FIGURE 3-65: SPACE TYPE BY TOTAL INVENTORY - UNIVERSITY COLLEGE

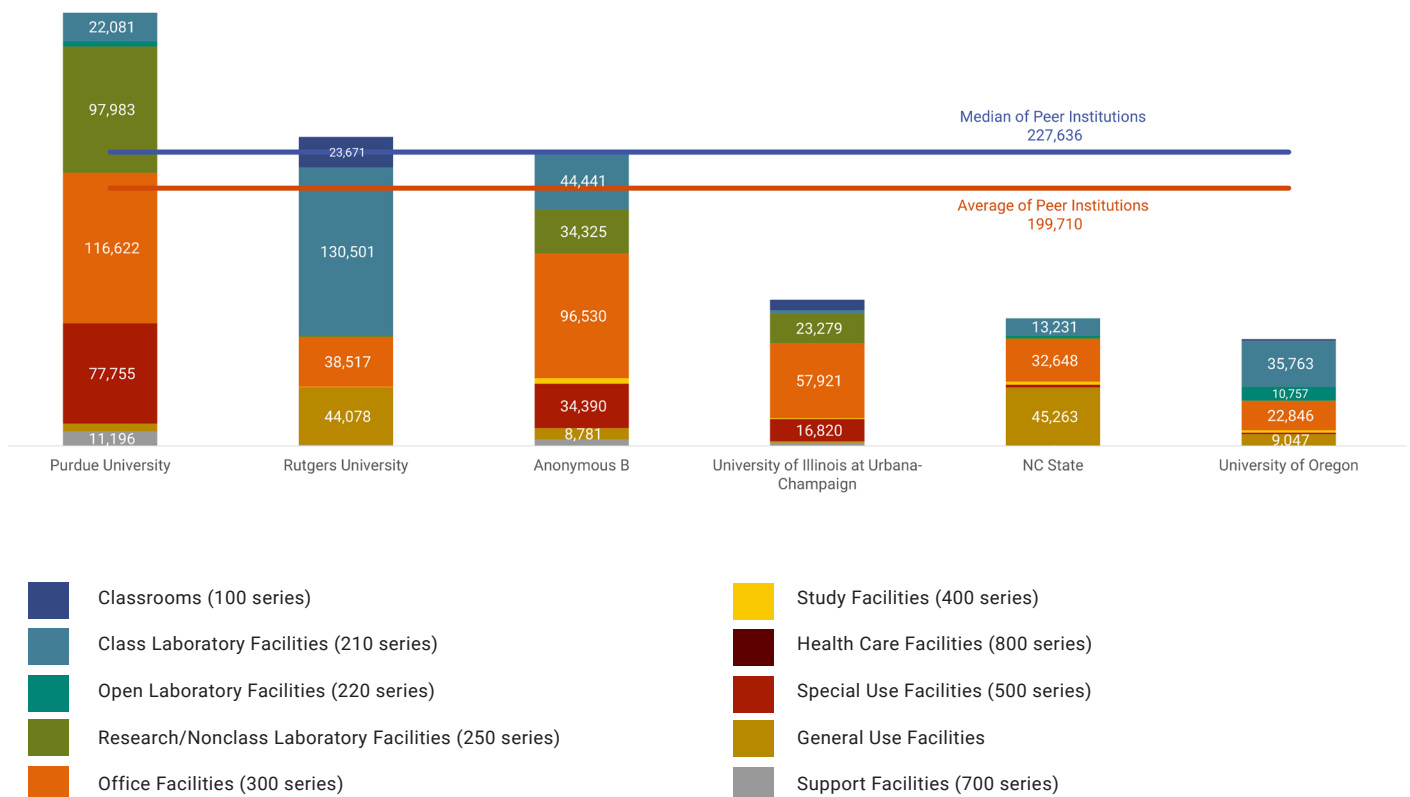


FIGURE 3-66: UNIVERSITY COLLEGE (100-300 SERIES)

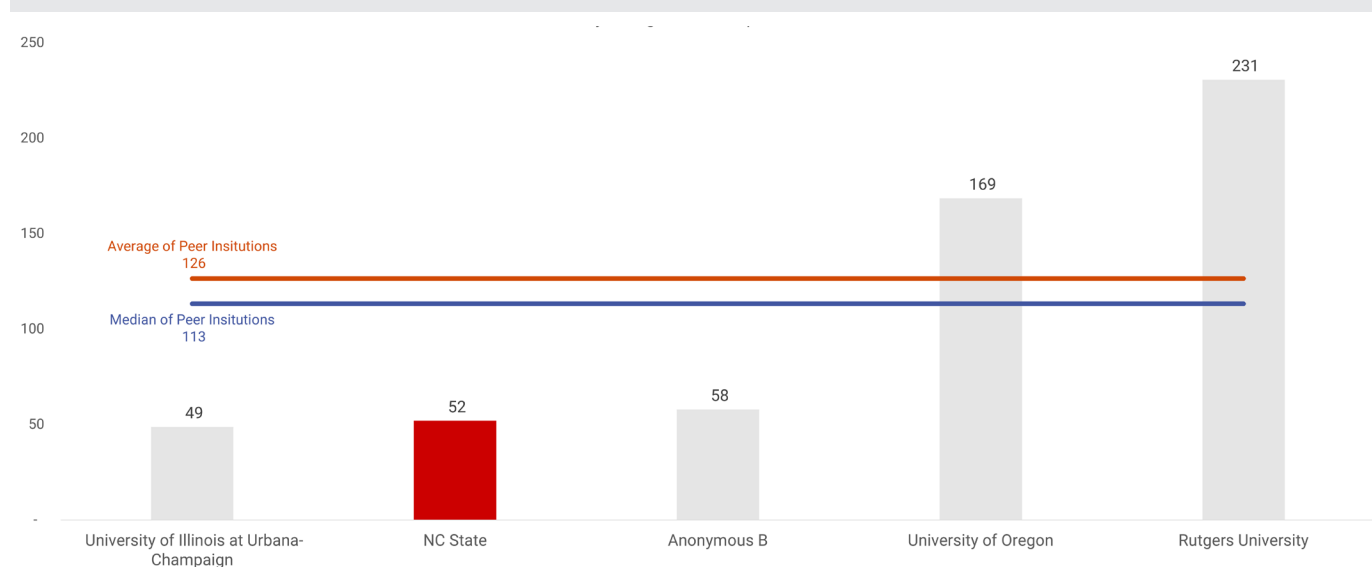
	Classrooms (100 series)	Class Laboratory Facilities (210 series)	Open Laboratory Facilities (220 series)	Research/ Nonclass Laboratory Facilities (250 series)	Office Facilities (300 series)
NC State University	-	13,231	1,810	1,340	32,648
Purdue University	-	22,081	3,998	97,983	116,622
Rutgers University	23,671	130,501	-	864	38,517
University of Illinois at Urbana- Champaign	8,293	2,223	-	23,279	57,921
University of Oregon	984	35,763	10,757	217	22,846
Anonymous B	-	44,441	-	34,325	96,530

FIGURE 3-67: UNIVERSITY COLLEGE (400-800 SERIES)

	Study Facilities (400 series)	Special Use Facilities (500 series)	General Use Facilities (600 series)	Support Facilities (700 series)	Health Care Facilities (800 series)
NC State University	2,415	2,064	45,263	-	-
Purdue University	-	77,755	5,918	11,196	156
Rutgers University	536	451	44,078	769	-
University of Illinois at Urbana- Champaign	900	16,820	1,263	2,325	207
University of Oregon	1,810	1,161	9,047	-	-
Anonymous B	4,271	34,390	8,781	4,898	-

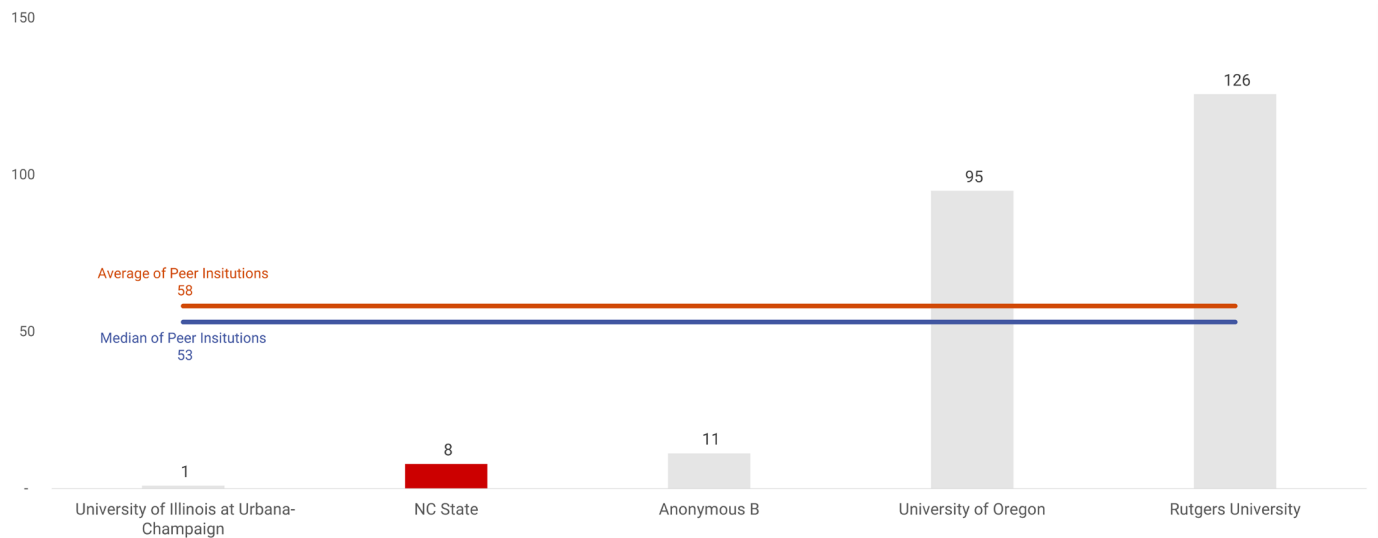
NC State's University College (UC) had the second least amount of space when compared with peer colleges and schools. The largest portion of space was offices.

FIGURE 3-68: UNIVERSITY COLLEGE TOTAL ASF PER STUDENT FTE



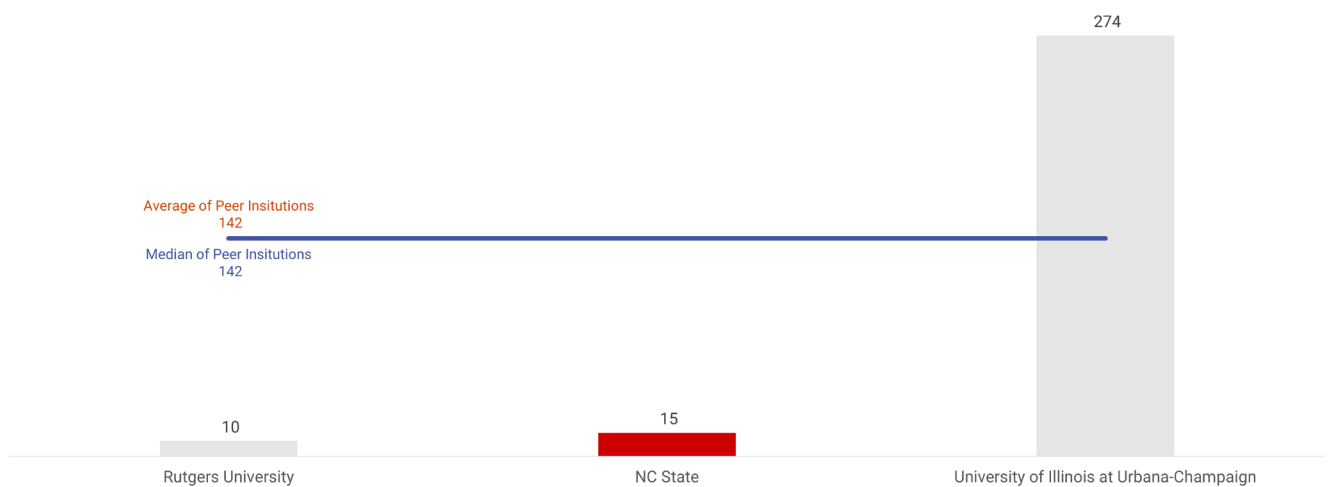
UC had the second least total space per student with 52 ASF/FTE. The peer group average was 126 ASF/FTE.

FIGURE 3-69: UNIVERSITY COLLEGE CLASS & OPEN LAB ASF PER STUDENT FTE



Similarly, UC had the second least Class Lab and Open Lab space per student at just eight ASF/FTE. The peer group average was 58 ASF/FTE.

FIGURE 3-70: UNIVERSITY COLLEGE RESEARCH LAB ASF PER FACULTY FTE



For research lab space per faculty, the comparable colleges and schools ranged from 10 ASF/faculty FTE to 274 ASF/faculty FTE. UC had 15 ASF/faculty FTE.

Wilson College of Textiles

FIGURE 3-71: WILSON COLLEGE OF TEXTILES

	Existing Assignable Space	Student FTE	Faculty FTE	Staff FTE
NC State University	220,845	947	52	169
Rhode Island School of Design	785,736	2,578	287	622

FIGURE 3-72: SPACE TYPE BY TOTAL INVENTORY - WILSON COLLEGE OF TEXTILES

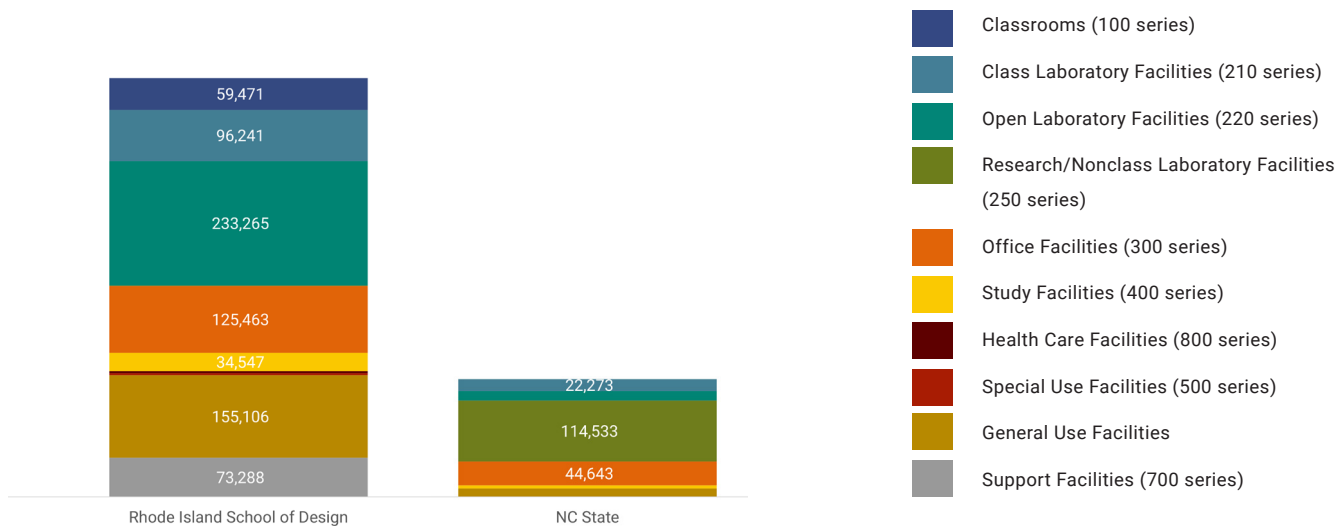


FIGURE 3-72: WILSON COLLEGE OF TEXTILES (100-300 SERIES)

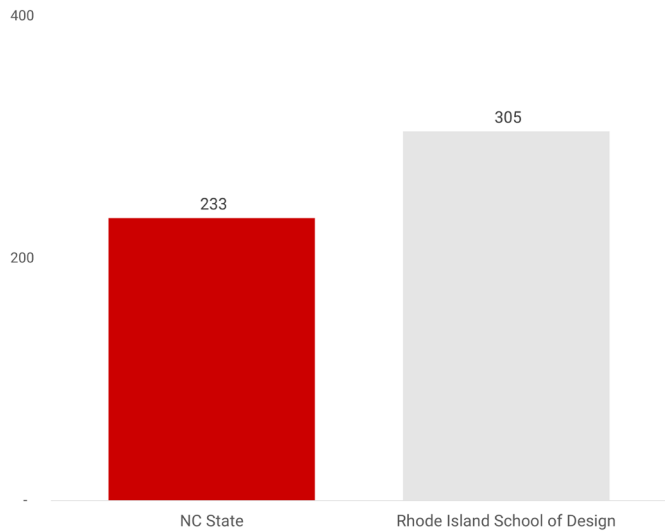
	Classrooms (100 series)	Class Laboratory Facilities (210 series)	Open Laboratory Facilities (220 series)	Research/ Nonclass Laboratory Facilities (250 series)	Office Facilities (300 series)
NC State University	-	22,273	17,752	114,533	44,643
Rhode Island School of Design	59,471	96,241	233,265	1,052	125,463

FIGURE 3-73: WILSON COLLEGE OF TEXTILES (400-800 SERIES)

	Study Facilities (400 series)	Special Use Facilities (500 series)	General Use Facilities (600 series)	Support Facilities (700 series)	Health Care Facilities (800 series)
NC State University	5,850	-	15,759	35	-
Rhode Island School of Design	34,547	3,815	155,106	73,288	3,488

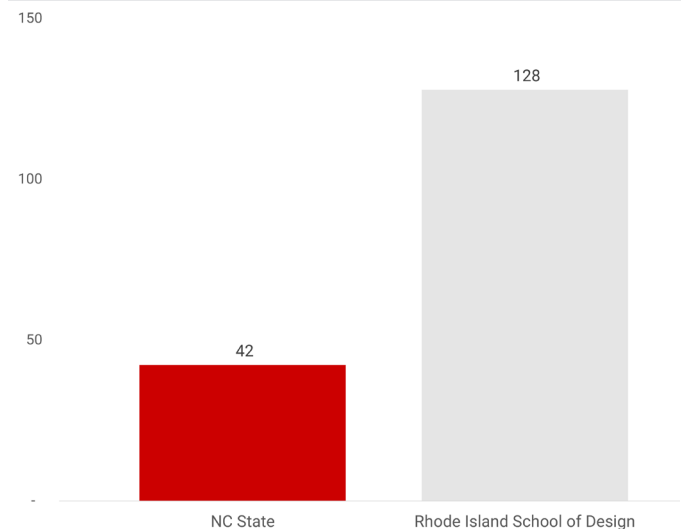
Rhode Island School of Design (RISD) had more than three and a half times the total space that NC State's Wilson College of Textiles (WCT) had. The majority of WCT space was Research Labs.

FIGURE 3-74: WILSON COLLEGE OF TEXTILES
TOTAL ASF PER STUDENT FTE



For total space per student, WCT had 233 ASF/FTE while RISD had 305 ASF/FTE.

FIGURE 3-75: WILSON COLLEGE OF TEXTILES
CLASS & OPEN LAB ASF PER STUDENT FTE



For Class Lab and Open Lab space per student, WCT had 42 ASF/FTE while RISD had 128 ASF/FTE.

FIGURE 3-76: WILSON COLLEGE OF TEXTILES RESEARCH LAB ASF PER FACULTY FTE



WCT and RISD were not similar when comparing Research Lab space per faculty, WCT had over 2,000 ASF/faculty FTE while RISD had just four ASF/faculty FTE.

Existing Space Analysis

Inventory of Existing Space

Institution

For purposes of the Physical Master Plan, a total of 6,357,953 ASF was included in the space needs analysis. The snapshot in time for this inventory is Fall 2021. The inventory was developed by the University using FICM. To apply space standards, SmithGroup organized the space inventory into five overarching areas: Academic Space, Academic Support Space, Research Space, Student Space, and Other Space (see Figure 4-1).

Over 750,000 ASF was Academic Space, just over a tenth (12%) of the total assignable space. The most space in this category was assigned as Class Labs with nearly 325,000 ASF. More than a third (35%) of the space in this category was Classrooms. Open Labs had the least amount of space in the Academic Space category with 165,000 ASF.

Academic Support Space had the most space on campus with over 2.2 million ASF, more than a third (35%) of the total space. Over 1.3 million ASF was Academic Offices. Academic Offices are offices assigned to academic departments based on the institution's organizational structure, all other offices are considered administrative offices. Administrative Offices were over half a million ASF, and when combined with Academic Offices, this was 84% of the Academic Support Space and nearly three tenths (29%) of the total campus space. Library space, which is stack, study, and service space assigned to the University Libraries, was nearly 300,000 ASF, and Collaborative Learning Space, which is all other study and collaboration space around campus, was around 60,000 ASF.

Research Space was nearly as large as Academic Support Space with nearly 2.2 million ASF. This space category includes Research Labs, Animal Facilities, Greenhouses, and Field Buildings. Research Buildings made up more than half (55%) of the total Research Space having more than 1.2 million ASF. Animal Facilities were the next largest with over half a million ASF. Greenhouses had just under 250,000 ASF, and Field Buildings had over 200,000 ASF.

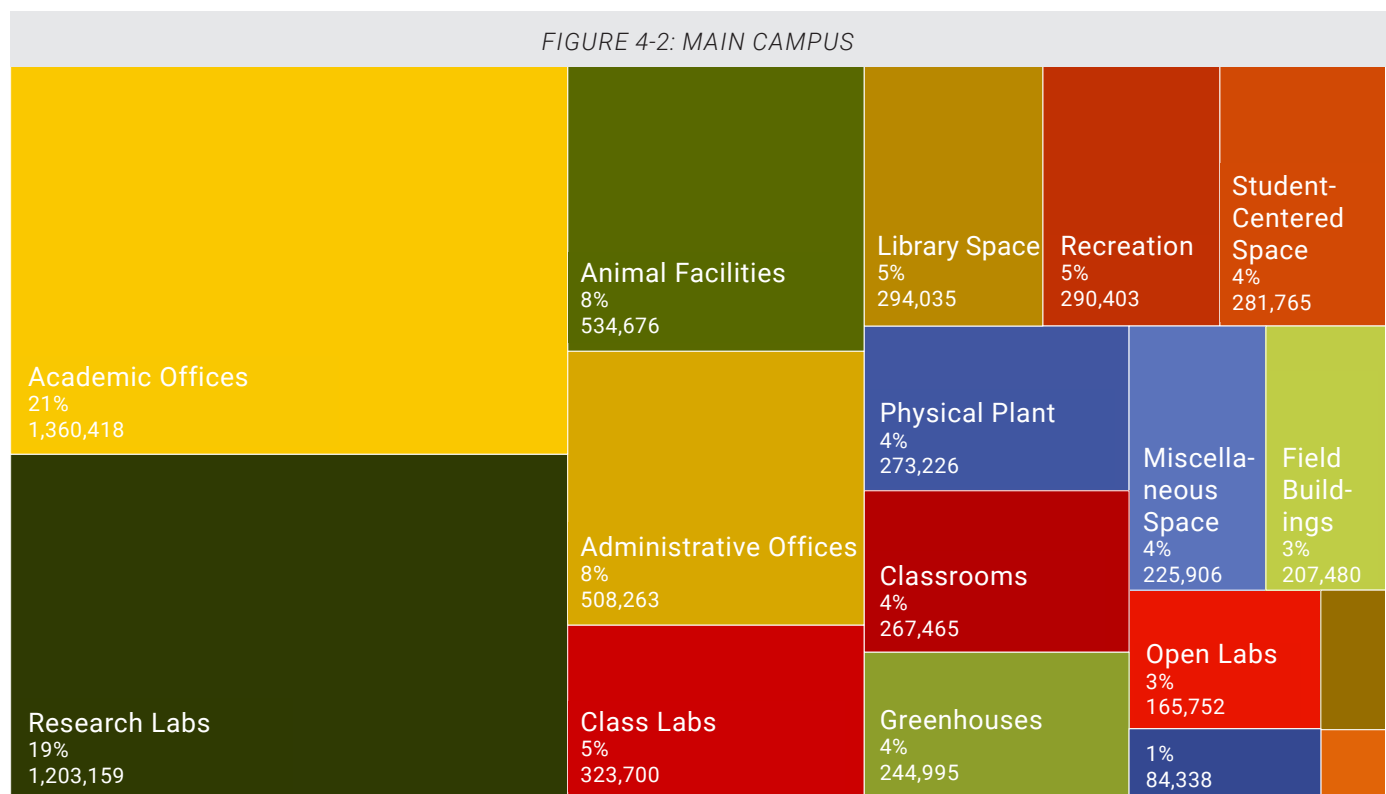
Student Space at NC State was just under one tenth (9%) of the space. Recreation and Student-Centered Space were similar in size with Recreation accounting for 48% of this category and Student-Centered Space accounting for 47%. The remaining 5% of Student Space was Healthcare Space with about 30,000 ASF.

FIGURE 4-1: EXISTING SPACE INVENTORY

Space Category	Existing ASF
Academic Space	
Classrooms	267,465
Class Labs	323,700
Open Labs	165,752
Academic Space Subtotal	756,918
Academic Support Space	
Academic Offices	1,360,418
Administrative Offices	508,263
Library Space	294,035
Collaborative Learning Space	61,418
Academic Support Space Subtotal	2,224,135
Research Space	
Research Labs	1,203,259
Animal Facilities	534,676
Greenhouses	244,995
Field Buildings	207,480
Research Space Subtotal	2,190,311
Student Space	
Recreation	290,403
Student-Centered Space	281,765
Healthcare Space	30,951
Student Space Subtotal	603,120
Other Space	
Assembly & Exhibit	84,338
Physical Plant	273,226
Miscellaneous Space	225,906
Other Space Subtotal	583,470
CAMPUS TOTAL	6,357,953
Athletics	476,953
Inactive/Conversion Space	230,839

Spaces in the Other category encompass over half a million ASF. Nearly half (47%) of this space was Physical Plant Space, or about 4% of the total assignable in-study space. Miscellaneous Space was 225,000 ASF and around 80,000 ASF was Assembly & Exhibit

Figure 4-2 shows the breakdown by space use code and offers a visual for which space types had the largest footprints. With over 1.3 million ASF of space, Academic Offices had the most space, followed by Research Labs with 1.2 million ASF, each around one-fifth of the total space. Animal Facilities and Administrative Offices each had over half a million ASF. Spaces with the least amount of space on campus included Assembly & Exhibit with over 80,000 ASF, Collaborative Learning Space with 60,000 ASF, and Healthcare Space with the smallest footprint on campus at around 30,000 ASF.



Values for boxes without text or incomplete text:

Blue box, bottom right: Assembly & Exhibit; 1%; 84,338

Brownish box: Collaborative Learning Space; 1%, 61,418

Orange box: Healthcare Space; <1%, 30,951

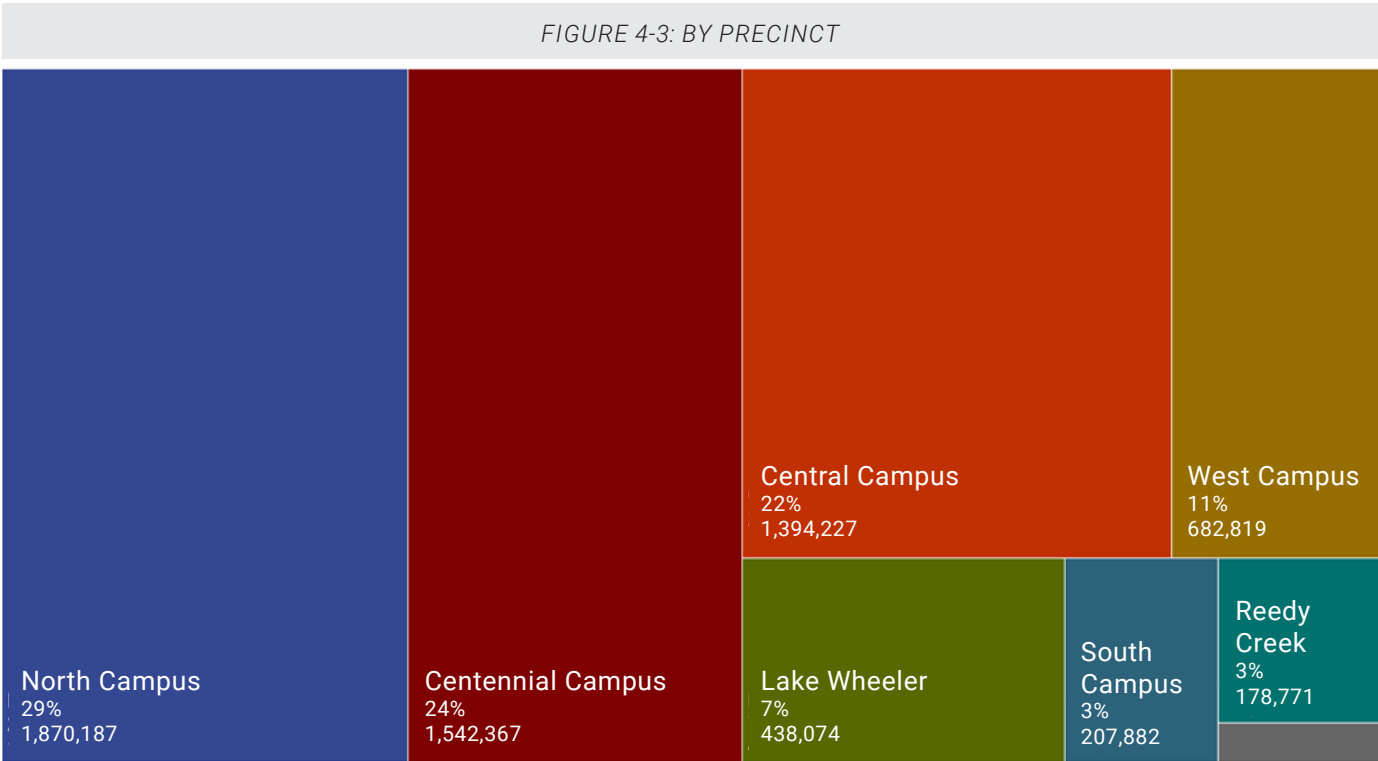


FIGURE 4-4: ACADEMIC EXISTING SPACE

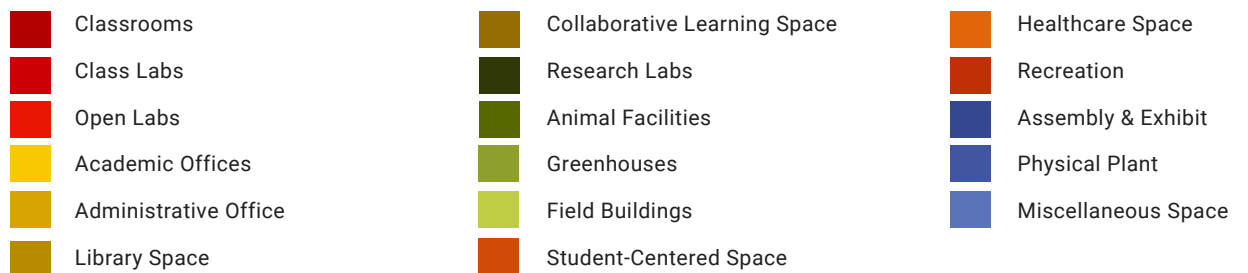
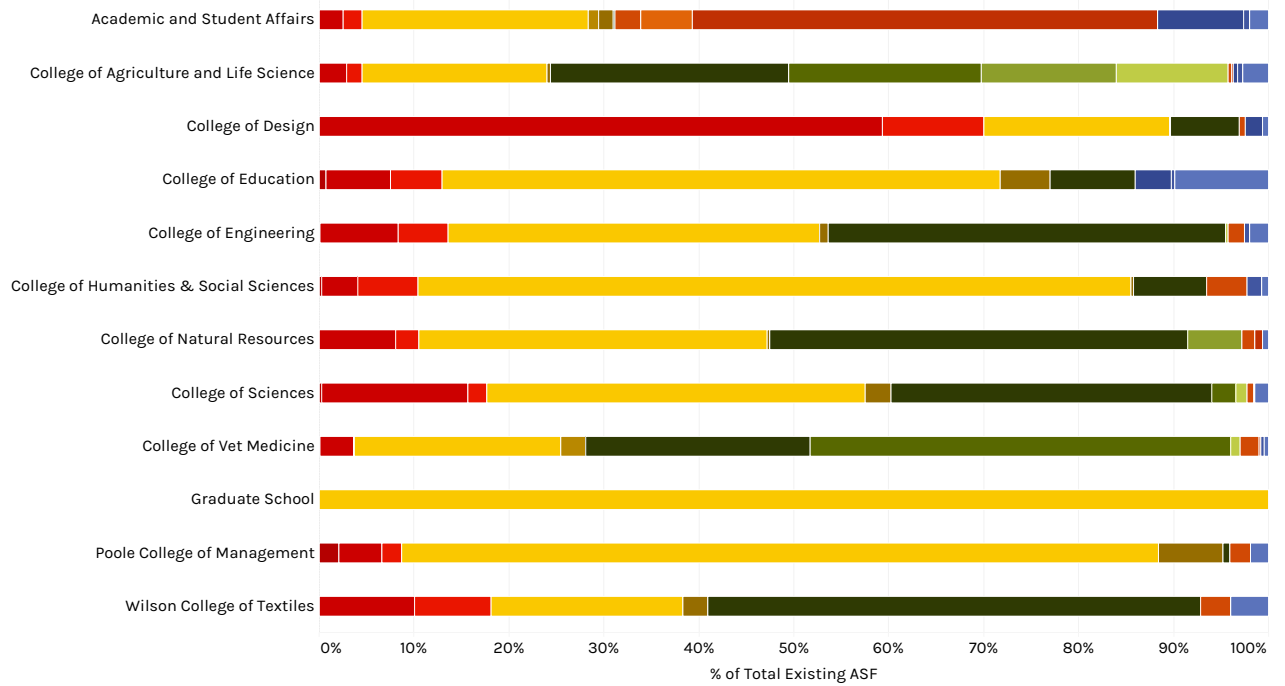


FIGURE 4-5: ACADEMIC EXISTING SPACE TABLE

	Classrooms	Class Labs	Open Labs	Academic Offices	Library Space	Collaborative Learning Space	Research Labs	Animal Facilities	Greenhouses	Field Buildings	Student-Centered Space	Healthcare Space	Recreation	Assembly & Exhibit	Physical Plant	Miscellaneous Space	Grand Total
Academic and Student Affairs	99	14,530	11,064	135,522	6,509	8,532	1,340				15,073	30,951	279,067	51,760	3,744	11,142	569,334
College of Agriculture and Life Science	194	48,278	26,685	326,189		5,950	419,613	335,658	237,580	196,528	6,400		2,372	7,921	8,300	45,923	1,667,589
College of Design	9	68,238	12,335	22,491	129		8,280				743			2,095		714	115,034
College of Education	603	5,715	4,525	49,116		4,379	7,462							3,219	264	8,267	83,550
College of Engineering	987	59,776	38,802	286,054		6,688	306,588			1,846	12,729				3,725	14,566	731,761
College of Humanities & Social Sciences	344	5,100	8,563	101,033		468	10,327				5,777				2,000	995	134,608
College of Natural Resources	37	10,325	3,228	47,411		353	56,828		7,415		1,792		1,020			818	129,228
College of Sciences	1,359	71,329	9,142	184,739		12,889	156,372	11,919		5,294	3,261			44	590	6,694	463,633
College of Vet Medicine	414	14,410	517	88,845	10,657		96,616	181,120		3,813	8,178		806		1,433	1,903	408,712
Graduate School				6,436													6,436
Poole College of Management	1,187	2,602	1,187	45,696		3,921	403				1,221					1,102	57,317
Wilson College of Textiles	0	22,273	17,752	44,643		5,850	114,534				6,911				35	8,848	220,845
Grand Total	5,232	322,575	133,800	1,338,174	17,296	49,030	1,178,363	528,697	244,995	207,480	62,085	30,951	283,265	65,038	20,092	100,973	4,588,047

FIGURE 4-6: ADMINISTRATIVE EXISTING SPACE

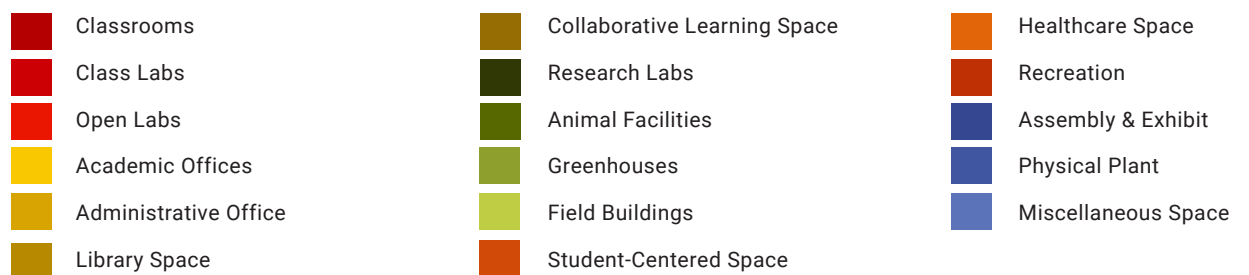
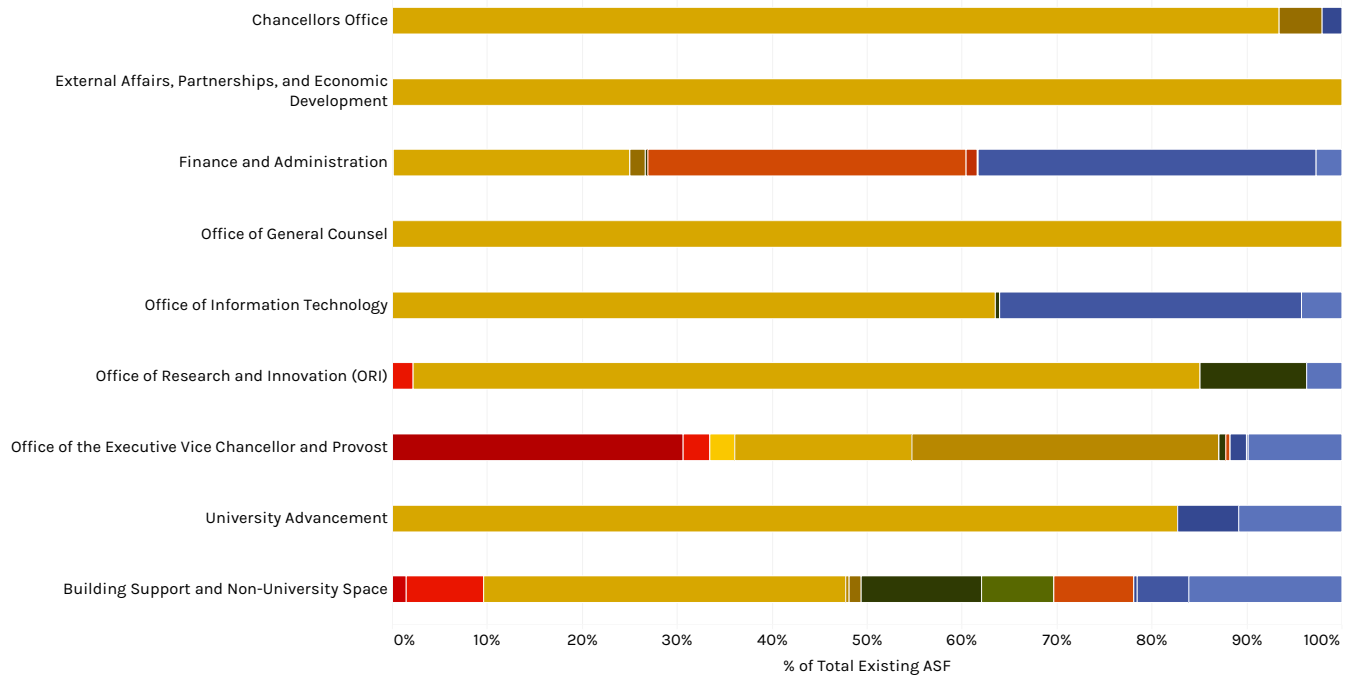


FIGURE 4-7: ADMINISTRATIVE EXISTING SPACE TABLE

	Classrooms	Class Labs	Open Labs	Academic Offices	Administrative Offices	Library Space	Collaborative Learning Space	Research Labs	Animal Facilities	Student-Centered Space	Recreation	Assembly & Exhibit	Physical Plant	Miscellaneous Space	Grand Total
Chancellors Office	0				10,310		501					225			11,035
External Affairs, Partnerships, and Economic Develop..					6,491										6,491
Finance and Administration	355				155,498		10,508	1,345		209,305	7,101	912	222,215	16,678	623,917
Office of General Counsel					2,590										2,590
Office of Information Technology					49,951			346					24,956	3,380	78,633
Office of Research and Innovation (ORI)			1,298		50,130			6,781						2,226	60,435
Office of the Executive Vice Chancellor and Pro..	261,878		24,252	22,244	160,187	276,446	382	6,325		3,769	37	14,517	1,743	84,297	856,076
University Advancement					43,168							3,355		5,670	52,193
Building Support and Non-University Space		1,125	6,403		29,938	294	998	9,998	5,979	6,606		291	4,220	12,683	78,535

Classroom & Class Lab Utilization Analyses

Overview

SmithGroup completed a utilization analysis of classrooms and class labs for NC State. Classrooms and class labs were examined using Fall 2021 course data. Understanding how classrooms and class labs are scheduled and utilized provides the foundation for, and assists in, understanding existing capacity, operational efficiencies, and space needs.

Rooms assigned the FICM room use code of 110 were considered classrooms and analyzed for classroom utilization. Rooms assigned the room use code of 210 were considered class labs and analyzed for class lab utilization. College of Veterinary Medicine class labs were excluded from the utilization analysis due to the unique nature of the academic programs.

Scheduled Classroom Use By Day & Hour

NC State had 235 classrooms available for scheduled courses during the Fall 2021 semester. Figure 5-1 displays the density at which classrooms were scheduled for course use. The darker shading indicates more classrooms scheduled during that hour. Saturdays and Sundays are not represented in the graphs as only three classes were scheduled during the weekend on campus during Fall 2021.

FIGURE 5-1: SCHEDULED CLASSROOM USE BY DAY AND TIME (FALL 2021)
MAIN CAMPUS

Time of Day	Monday		Tuesday		Wednesday		Thursday		Friday		Average	
	Rooms in Use	% In Use	Rooms in Use	% In Use	Rooms in Use	% In Use	Rooms in Use	% In Use	Rooms in Use	% In Use	Rooms in Use	% In Use
7:00 AM	0	0%	0	0%	4	2%	0	0%	0	0%	1	0%
8:00 AM	129	55%	119	51%	119	51%	120	51%	87	37%	115	49%
9:00 AM	175	74%	134	57%	164	70%	134	57%	123	52%	146	62%
10:00 AM	218	93%	198	84%	211	90%	201	86%	126	54%	191	81%
11:00 AM	222	94%	216	92%	216	92%	218	93%	134	57%	201	86%
12:00 PM	203	86%	195	83%	204	87%	198	84%	113	48%	183	78%
1:00 PM	204	87%	204	87%	204	87%	199	85%	83	35%	179	76%
2:00 PM	190	81%	201	86%	195	83%	196	83%	52	22%	167	71%
3:00 PM	166	71%	199	85%	176	75%	195	83%	23	10%	152	65%
4:00 PM	157	67%	195	83%	172	73%	187	80%	12	5%	145	62%
5:00 PM	81	34%	118	50%	111	47%	109	46%	3	1%	84	36%
6:00 PM	52	22%	71	30%	71	30%	43	18%	1	0%	48	20%
7:00 PM	43	18%	54	23%	54	23%	32	14%	0	0%	37	16%

Total classrooms = 235
(Darker colors indicate a large percentage of rooms are scheduled)

Classrooms were available for scheduled use anytime. The table above shows the use from 7AM through 7PM Mondays through Fridays. On average, 10AM through 11AM had the most usage with up to 94% of the classrooms scheduled for use at 11AM on Mondays. Mondays through Thursdays at least half of the classrooms were scheduled for course use at 8AM and at least 80% of classrooms were scheduled from 10AM until 3PM. Fridays had the least scheduled usage; however, roughly 50% of the classrooms were scheduled between 9AM and 12PM.

Scheduled Class Lab Use By Day & Hour

NC State had 199 class labs available for scheduled use during the Fall 2021 semester. Figure 5-2 displays the density at which classrooms were scheduled for course use. The darker shading indicates more class labs scheduled during that hour. Saturdays and Sundays are not represented in the graphs as no lab courses were scheduled during the weekend for Fall 2021.

FIGURE 5-2: SCHEDULED CLASS LAB USE BY DAY AND TIME (FALL 2021)
MAIN CAMPUS

Time of Day	Monday		Tuesday		Wednesday		Thursday		Friday		Average	
	Rooms in Use	% In Use	Rooms in Use	% In Use	Rooms in Use	% In Use	Rooms in Use	% In Use	Rooms in Use	% In Use	Rooms in Use	% In Use
7:00 AM	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
8:00 AM	28	14%	44	22%	40	20%	32	16%	20	10%	33	16%
9:00 AM	42	21%	62	31%	61	31%	49	25%	43	22%	51	26%
10:00 AM	57	29%	93	47%	80	40%	88	44%	51	26%	74	37%
11:00 AM	62	31%	103	52%	84	42%	100	50%	42	21%	78	39%
12:00 PM	75	38%	96	48%	91	46%	95	48%	47	24%	81	41%
1:00 PM	90	45%	108	54%	117	59%	102	51%	56	28%	95	48%
2:00 PM	81	41%	106	53%	113	57%	100	50%	52	26%	90	45%
3:00 PM	87	44%	117	59%	125	63%	109	55%	53	27%	98	49%
4:00 PM	86	43%	109	55%	114	57%	104	52%	37	19%	90	45%
5:00 PM	57	29%	73	37%	78	39%	71	36%	24	12%	61	30%
6:00 PM	30	15%	42	21%	40	20%	45	23%	2	1%	32	16%
7:00 PM	25	13%	36	18%	35	18%	35	18%	1	1%	26	13%

Total laboratories = 199
(Darker colors indicate a large percentage of rooms are scheduled)

Class labs were available for scheduled use anytime. Figure 5-2 shows the use from 7AM through 7PM Mondays through Fridays. At most, only about a quarter of class labs were scheduled at any one time on Fridays. The most scheduled use for class labs was Tuesdays through Thursdays with around 50% scheduled from late morning until mid-afternoon with Wednesdays around 3PM having nearly two thirds of the class labs scheduled for course use.

Classroom Utilization Analysis

Classroom Utilization Analysis by Building

Classrooms are defined as any room generally used for scheduled instruction requiring no special equipment. Classroom service space directly supports one or more classrooms as an extension of the classroom activities, providing media space, preparation areas, or storage.

Utilization analysis takes into consideration key metrics to understand how a space was utilized, not only when the room was scheduled. Utilization includes calculated metrics that describe the amount of time a room was used and how many seats were filled when the room was scheduled. In reviewing the utilization analysis, the utilization of a classroom can be more comprehensively discussed.

Three Key Metrics Of Utilization

- Average Weekly Room Hours (WRH) is the number of hours (averaged over the semester) that classrooms are being used for scheduled instruction. A total of 235 classrooms were identified at NC State. On average, classrooms during the Fall 2021 semester were scheduled 29 hours per week. The classrooms in Engineering Building III (EB3) were scheduled at the highest rate of 36.4 WRH.
- Student Station Occupancy is the average number of seats or stations occupied during scheduled use. For Fall 2021, the average rate was 62%. The fill rate ranged from 95% in the D.H. Hill Jr. Library (Erdahl-Cloyd West Wing) classroom to 47% filled in the D.S. Weaver Labs classrooms.
- The Average ASF per Station equates to the amount of space per student station or seat. It is calculated by dividing the size of the room by the number of stations. For Fall 2021, this usage was 17.3 ASF per station. The classrooms in the Fox Science Teaching Laboratory had the most space per station at 25.5 ASF per station while those in Bostian Hall and Kamphoefner Hall had the least at 10.0 ASF per station.

The 235 classrooms were distributed across 42 buildings at NC State. As seen in Figure 5-3, the average room size was 1,085 ASF and the average ASF per station was 17.3.

Additional buildings with the most average weekly room hours include the 12 classrooms in Withers Hall with 35.3 WRH, the 18 classrooms in Tompkins Hall with 34.6 WRH, the 10 classrooms in Engineering Building II (EB2) with 34.5 WRH, the 16 classrooms in Winston Hall with 34.2 WRH, and the 11 classrooms in SAS Hall with 34.0 WRH.

The one classroom in D.H. Hill Jr. Library (Erdahl-Cloyd West Wing) had the largest Student Station Occupancy at 95%. Additionally, several buildings had at least 70% SSO, including:

- The two classrooms in Bostian Hall
- The two classrooms in David Clark Labs
- The six classrooms in Fox Science Teaching Laboratory
- The 14 classrooms in Nelson Hall
- The five classrooms in Park Shops
- The one classroom in Pulp & Paper Labs

Several buildings had an average ASF per station over 20, including:

- The one classroom in Monteith Engineering Research Center (MRC) with 24.7 ASF per station
- The five classrooms in Engineering Building I (EB1) with 21.6 ASF per station
- The five classrooms in Park Shops with 21.6 ASF per station
- The seven classrooms in Engineering Building III (EB3) with 21.3 ASF per station
- The 18 classrooms in Tompkins Hall with 21.2 ASF per station

FIGURE 5-3: CLASSROOM UTILIZATION ANALYSIS BY BUILDING SUMMARY (FALL 2021)
MAIN CAMPUS

Building Name and ID		No. of Rooms	Average Room Size	Average ASF per Station	Average Section Size	Weekly Seat Hours	Average Weekly Room Hours	Student Station Occupancy
111 Lampe Drive	LMP	13	1,146	18.4	39	14.8	23.8	61%
1911 Bldg	NIN	3	687	20.4	20	21.4	33.8	62%
Biltmore Hall (Robertson Wing)	BI	5	747	14.5	30	13.1	22.4	61%
Bostian Hall	BOS	2	1,965	10.0	141	23.2	33.0	70%
Brooks Hall	BS	3	637	18.4	18	11.8	19.7	53%
Burlington Laboratory	BU	3	545	19.2	17	12.9	20.7	59%
Caldwell Hall	CAL	7	870	15.6	29	14.7	28.9	58%
Cox Hall	COX	5	1,005	16.1	43	19.0	25.7	69%
CVM Main Building	VET	5	1,469	18.3	25	1.1	1.4	61%
D. S. Weaver Labs	DSW	3	669	15.1	20	9.7	19.2	47%
D.H. Hill Jr. Library (Erdahl-Cloyd West Wing)	EC	1	1,428	14.3	95	21.9	23.0	95%
Dabney Hall	DAB	6	1,478	11.9	77	22.4	29.1	57%
David Clark Labs	DCL	2	1,282	16.5	55	20.8	27.3	70%
Engineering Building I (EB1)	EB1	5	1,567	21.6	43	19.8	31.3	57%
Engineering Building II (EB2)	EB2	10	1,515	19.3	43	20.8	34.5	54%
Engineering Building III (EB3)	EB3	7	1,494	21.3	39	21.3	36.4	53%
Fitts-Woolard Hall	FWH	6	1,448	20.4	42	20.3	31.1	61%
Fox Science Teaching Laboratory	FOX	6	895	25.5	27	20.7	28.4	74%
Gardner Hall	GA	4	798	15.8	26	8.8	18.0	53%
James B Hunt Jr Centennial Campus Library	JHL	2	3,005	12.4	124	15.3	31.5	57%
Jordan Hall	JOR	3	670	18.3	20	13.1	23.0	55%
Jordan Hall Addition	JHA	3	1,294	19.4	45	18.8	26.4	69%
Kamphoefner Hall	KAM	1	1,779	10.0	109	18.1	30.0	60%
Kilgore Hall	KI	2	1,215	17.7	41	17.4	30.0	61%
Leazar Hall	LEZ	1	482	19.3	16	18.5	29.0	64%
Monteith Engineering Res.Ctr. (MRC)	MRC	1	1,187	24.7	23	11.6	24.0	48%
Nelson Hall	N	14	1,373	18.3	52	23.8	32.8	71%
Park Shops	PS	5	1,772	21.6	62	23.5	29.1	74%
Patterson Hall	PT	1	555	20.5	14	14.5	27.0	54%
Poe Hall	POE	18	773	18.0	27	18.1	30.2	60%
Pulp & Paper Labs	PPL	1	820	16.7	40	22.5	28.5	79%
Ricks Hall	RI	3	707	20.4	20	11.5	17.7	56%
Riddick Hall	RD	9	1,232	15.6	48	21.1	30.7	60%
SAS Hall	SAS	11	1,268	19.3	45	23.1	34.0	66%
Schaub Food Science Building	SFS	3	832	16.1	24	12.3	25.5	57%
Scott Hall	SC	1	806	15.2	31	16.6	29.0	57%
Textiles Complex	TEX	8	869	17.2	27	14.8	24.5	52%
Tompkins Hall	T	18	677	21.2	21	22.2	34.6	69%
Williams Hall	WMS	5	1,105	13.7	45	18.1	31.0	54%
Winston Hall	WN	16	554	16.8	21	21.6	34.2	66%
Withers Hall	WI	12	1,082	18.6	33	20.2	35.3	63%
Witherspoon Student Center	WSC	1	4,591	10.1	276	13.7	23.0	59%
Total No. of Rooms = 235		AVERAGE	1,085	17.3	38	18.7	29.3	62%
Total No. of Stations = 14748		Total ASF	254,881					

Classroom Utilization Analysis by Capacity

When reviewing classrooms by capacity grouping, Figure 5-4 illustrates that around two-thirds of the classrooms at NC State had a capacity of 50 students or less.

Classrooms in the 120-150 capacity grouping had the highest average weekly room hours with 35.8 WRH. Classrooms in the 25-30 capacity grouping, the 151-250 capacity grouping, and the 251 and over grouping had around 33 average weekly room hours. Classrooms in the 31-40 grouping had the least with 26.6 WRH, and classrooms in the 81-119 capacity grouping had similar average weekly room hours with 26.9 WRH.

The Student Station Occupancy was fairly distributed across all capacity groupings, ranging from 58% SSO in the 31-40 and 251 and over groupings to 68% SSO in the 24 and under capacity grouping.

FIGURE 5-4: CLASSROOM UTILIZATION ANALYSIS BY CAPACITY SUMMARY (FALL 2021)
MAIN CAMPUS

Classroom Capacity Grouping	No. of Rooms	No. of Seats	Average Room Size	Average ASF per Station	Average Section Size	Weekly Seat Hours	Average Weekly Room Hours	Student Station Occupancy
24 and Under	28	600	507	23	14	20.2	28.8	68%
25 - 30	33	917	603	22	17	19.9	32.6	61%
31 - 40	44	1,593	725	20	21	15.6	26.6	58%
41 - 50	48	2,207	924	20	29	18.6	29.4	63%
51 - 60	18	989	1,122	20	34	17.8	28.9	62%
61 - 80	13	932	1,232	17	41	17.7	27.7	63%
81 - 119	29	2,756	1,576	17	57	17.0	26.9	63%
120 - 150	9	1,197	2,283	17	85	23.2	35.8	65%
151 - 250	8	1,694	2,641	13	138	21.6	33.6	63%
251 and Over	5	1,863	4,183	11	214	18.5	32.5	58%
Total No. of Rooms = 235	AVERAGE	1,085	17.3	38	18.7	29.3	62%	
Total No. of Stations = 14748	Total ASF	254,881						

Classroom Utilization Analysis by Campus

Across the four campuses, North Campus had the most classrooms with 172. North Campus and Centennial Campus had the most average weekly room hours with over 30 WRH at each, Central Campus averaged 23.5 WRH, and West Campus averaged 1.4 WRH.

The Student Station Occupancy was at least 60% on the Central Campus, the North Campus, and the West Campus. Centennial Campus had the lowest Student Station Occupancy with 55%.

North Campus and Centennial Campus had an average ASF per station of 20 ASF each, West Campus 18 ASF per station, and Central Campus was just below this with 17 ASF per station.

FIGURE 5-5: CLASSROOM UTILIZATION ANALYSIS BY CAMPUS (FALL 2021)
MAIN CAMPUS

Building Precinct	No. of Rooms	No. of Seats	Average Room Size	Average ASF per Station	Average Section Size	Weekly Seat Hours	Average Weekly Room Hours	Student Station Occupancy
Centennial Campus	39	2,998	1,443	20	43	18.8	31.4	55%
Central Campus	19	1,359	1,028	17	42	14.0	23.5	60%
North Campus	172	9,990	998	20	37	20.0	30.2	64%
West Campus	5	401	1,469	18	25	1.1	1.4	61%
Total No. of Rooms = 235	AVERAGE	1,085		17.3	38	18.7	29.3	62%
Total No. of Stations = 14748	Total ASF	254,881						

Classroom Utilization Analysis by Neighborhood

NC State is organized around seven neighborhoods. Classrooms in these neighborhoods range from just one classroom in Cates Avenue to 98 classrooms in the Court of North Carolina.

The Court of North Carolina has the most average weekly room hours with 32.0 WRH while the Centennial Campus is just below this with 31.4 WRH. The five classrooms in the West Campus neighborhood had just 1.4 WRH.

The 36 classrooms in the Governor Scott Courtyard neighborhood had the largest Student Station Occupancy at 67% while the 39 classrooms in the Centennial Campus neighborhood had the least Student Station Occupancy with 55%.

The Centennial Campus and Governor Scott Courtyard each had an average ASF per station of 20 while the Cates Avenue neighborhood had 10 ASF per station.

FIGURE 5-6: CLASSROOM UTILIZATION ANALYSIS BY NEIGHBORHOOD (FALL 2021)
MAIN CAMPUS

Classroom Precinct	No. of Rooms	No. of Seats	Average Room Size	Average ASF per Station	Average Section Size	Weekly Seat Hours	Average Weekly Room Hours	Student Station Occupancy
Brickyard	38	2,784	1,145	18	47	19.1	26.3	62%
Cates Avenue	1	455	4,591	10	276	13.7	23.0	59%
Centennial Campus	39	2,998	1,443	20	43	18.8	31.4	55%
Court of North Carolina	98	4,605	869	21	30	20.1	32.0	64%
Governors Scott Courtyard	36	2,601	1,195	20	48	20.8	29.6	67%
West Campus	5	401	1,469	18	25	1.1	1.4	61%
Western Boulevard	18	904	830	18	29	14.2	23.5	60%
Total No. of Rooms = 235	AVERAGE	1,085		17.3	38	18.7	29.3	62%
Total No. of Stations = 14748	Total ASF	254,881						

Class Lab Utilization Analysis

Class labs are defined as rooms used primarily by regularly scheduled classes that require special purpose equipment to serve the needs of particular disciplines for group instruction, participation, observation, experimentation, or practice. Examples include spaces for biology, chemistry, physics, music, art, and computer science.

The class lab utilization analysis takes into consideration key metrics to understand how a space was utilized, not only when the lab was scheduled. Utilization includes calculated metrics that describe the amount of time a room is used and how fully the lab is scheduled. In reviewing the utilization analysis, the utilization of a class lab can be more comprehensively discussed.

Class Lab Utilization Analysis by Building

The 199 schedulable class labs were distributed across 42 buildings at NC State. As seen in Figure 5-7, the average room size was 1,189 ASF, and the average section size was 18. The class labs averaged 16.7 WRH for scheduled credit instruction. The Student Station Occupancy for Fall 2021 was 77%.

Fox Science Teaching Laboratory had the highest weekly room hours with 31.9 WRH. Additionally, this building's 22 class labs averaged a 97% Student Station Occupancy. Monteith Engineering Research Center (MRC) also had a high weekly room hour with 30 WRH, however the class lab in this building averaged a 30% Student Station Occupancy. On the other hand, there were a number of buildings with low weekly room hours including Nelson Hall with no utilization, the class lab in Schaub Food Science Building with 3 WRH, and the class lab in Grinnells Lab with 4 WRH. There were six buildings with less than 50% Student Station Occupancies including the two class labs in Engineering Building I (EB1) and the three class labs in Scott Hall had 34% SSO each.

Class Lab Utilization Analysis by College

Most of the academic colleges at NC State have class labs for college-specific courses, which is common practice.

The College of Sciences had 47 class labs – the most of any college. Overall, the University's colleges averaged about 20 class labs each. However, many colleges had less than 10 including:

- Wilson College of Textiles with nine
- Academic and Student Affairs with eight
- College of Humanities & Social Sciences and College of Natural Resources with seven each
- College of Education with four class labs, and
- The Poole College of Management had just two class labs.

The 47 College of Sciences class labs had the most average weekly room hours with 26.9 WRH. These rooms averaged 50 ASF per station and had a Student Station Occupancy of 89%. The eight Academic and Student Affairs class labs had the lowest average weekly room hours with 11.7 WRH. These rooms were also filled below average with a 63% SSO.

The College of Sciences had the highest Student Station Occupancy with 89% and only one other college was at or above the average, which was College of Humanities & Social Sciences with 77%. All colleges had at least three-fifths of the seats filled with the College of Design having the lowest Student Station Occupancy at 61%.

FIGURE 5-7: CLASS LABS UTILIZATION ANALYSIS BY BUILDING SUMMARY (FALL 2021)
MAIN CAMPUS

Building Name and ID		No. of Rooms	Average Room Size	Average ASF per Station	Average Section Size	Weekly Seat Hours	Average Weekly Room Hours	Student Station Occupancy
111 Lampe Drive	LMP	8	1,564	56.1	21	11.8	13.8	80%
1911 Bldg	NIN	1	916	36.6	15	11.6	21.0	55%
Biltmore Hall (Robertson Wing)	BI	2	966	40.2	16	10.1	14.5	70%
Bostian Hall	BOS	9	1,068	44.5	20	22.0	24.4	90%
Brooks Hall	BS	15	1,030	38.7	15	7.5	11.7	62%
Broughton Hall	BR	6	1,318	32.5	20	6.0	11.3	63%
BTEC - Golden LEAF Biomanufacturing Training And Education Center	BTC	10	1,024	69.2	14	9.6	10.9	94%
Burlington Laboratory	BU	1	325	32.5	4	2.1	6.0	35%
Cox Hall	COX	2	2,056	22.8	56	16.4	26.3	61%
D. S. Weaver Labs	DSW	2	777	27.7	16	7.1	12.5	67%
Dabney Hall	DAB	3	1,223	87.4	10	12.0	17.3	68%
David Clark Labs	DCL	8	1,197	49.9	19	18.7	22.9	82%
Engineering Building I (EB1)	EB1	2	2,021	40.8	19	3.7	9.5	34%
Engineering Building II (EB2)	EB2	6	905	29.7	22	16.7	22.8	79%
Engineering Building III (EB3)	EB3	9	989	32.9	21	15.5	19.7	74%
Fitts-Woolard Hall	FWH	6	1,352	36.5	18	6.8	9.3	52%
Fox Science Teaching Laboratory	FOX	22	1,138	50.9	21	30.1	31.9	97%
Gardner Hall	GA	6	839	34.5	11	3.3	7.1	50%
Grinnells Lab	GRL	1	672	28.0	17	2.8	4.0	69%
Hodges Wood Products	HWP	1	730	34.7	22	24.6	24.0	103%
Horticulture Headhouse	HHH	1	980	35.0	21	8.8	12.0	73%
Jordan Hall	JOR	9	860	32.5	14	8.3	14.9	62%
Jordan Hall Addition	JHA	4	1,454	44.1	20	8.7	14.3	71%
Kamphoefner Hall	KAM	4	2,986	56.3	22	9.8	16.5	53%
Kilgore Hall	KI	1	1,237	61.9	10	4.7	9.0	52%
Leazar Hall	LEZ	12	1,536	53.0	17	8.8	14.1	59%
Monteith Engineering Res.Ctr. (MRC)	MRC	1	932	20.3	14	9.0	30.0	30%
Nelson Hall	N	2	1,291	26.3	0	0.0	0.0	0%
Park Shops	PS	1	1,110	46.3	20	5.0	6.0	83%
Poe Hall	POE	4	1,158	35.4	25	21.6	25.2	73%
Polk Hall	PK	2	905	24.1	20	7.8	15.3	58%
Price Music Center	PMC	3	2,257	28.8	48	12.1	11.2	77%
Ricks Hall	RI	1	822	34.3	17	16.1	23.0	70%
Riddick Hall	RD	5	1,210	41.2	16	11.1	11.2	77%
Schaub Food Science Building	SFS	1	1,138	56.9	19	2.9	3.0	95%
Scott Hall	SC	3	741	28.5	9	4.2	12.3	34%
Textiles Complex	TEX	9	1,603	51.0	22	8.4	13.4	68%
Thomas Hall	THM	5	908	37.8	19	14.2	16.5	86%
Tompkins Hall	T	1	560	33.0	18	30.3	29.0	104%
Williams Hall	WMS	6	771	31.7	17	9.8	13.1	76%
Winston Hall	WN	1	591	29.5	17	15.5	18.0	86%
Withers Hall	WI	3	621	30.5	7	3.0	5.3	46%
Total No. of Rooms = 199	AVERAGE		1,189	41.2	18	12.3	16.7	77%
Total No. of Stations = 5743	Total ASF		236,583					

Campus with College Breakdown

The North Campus had the highest weekly room hours. This was driven by the College of Education with 25.2 WRH and College of Sciences with 27.9 WRH. Further, only the College of Sciences on Central Campus is above the institution average weekly room hour with 18.6 WRH.

Similarly, North Campus had the highest Student Station Occupancy, driven by 86% SSO for College of Engineering and 92% SSO for College of Sciences. The College of Agriculture and Life Sciences on the Central Campus also exceeds the institution average with 87% Student Station Occupancy.

FIGURE 5-8: CLASS LABS UTILIZATION ANALYSIS BY PRECINCT SUMMARY (FALL 2021)
MAIN CAMPUS

	No. of Rooms	No. of Seats	Average Room Size	Average ASF per Station	Average Section Size	Weekly Seat Hours	Average Weekly Room Hours	Student Station Occupancy
Centennial Campus								
College of Engineering	34	969	1,108	54	18	11.3	15.5	73%
Wilson College of Textiles	9	283	1,603	184	22	8.4	13.4	68%
Average		29	1,211	42	19	10.7	15.1	72%
Total	43	1,252						
Central Campus								
Academic and Student Affairs	3	78	2,257	112	48	12.1	11.2	77%
College of Agriculture and Life Science	8	23	856	142	17	8.4	10.7	87%
College of Natural Resources	7	31	1,138	121	17	7.9	14.0	65%
College of Sciences	5	27	954	192	14	10.0	18.6	56%
Average		34	1,146	34	20	9.7	13.5	70%
Total	23	774						
North Campus								
Academic and Student Affairs	5	45	1,124	692	20	5.7	12.0	55%
College of Agriculture and Life Science	32	26	1,001	186	16	8.8	12.7	68%
College of Design	37	30	1,501	143	17	8.3	12.9	61%
College of Education	4	33	1,158	1,200	25	21.6	25.2	73%
College of Engineering	3	30	1,039	1,746	26	17.8	16.3	86%
College of Humanities & Social Sciences	7	21	720	1,069	13	9.6	12.9	77%
College of Sciences	42	25	1,158	150	21	24.7	27.9	92%
Poole College of Management	2	49	1,291	1,604	-	-	-	0%
Average		28	1,191	43	18	13.5	17.8	79%
Total	132	3,689						
West Campus								
College of Agriculture and Life Science	1	28	980	35	21	8.8		73%
Average		28	980	35	21	8.8	12.0	73%
Total	1	28						
AVERAGE		29	1,189	41.2	18	12.3	16.7	77%
TOTAL	199	5,743						

Space Standards

Overview

For the PMP, space standards were applied to provide a complete understanding of current and future space needs. The standards were developed in partnership between NC State and SmithGroup to reflect best practice and the culture of space use.

The categories and subcategories used within this study included:

- Academic Space
 - Classrooms
 - Class Labs
 - Open Labs
- Academic Support Space
 - Academic Offices
 - Administrative Offices
 - Library Space
 - Collaborative Learning Space
- Research Space
 - Research Labs
 - Animal Facilities
 - Greenhouses
 - Field Buildings
- Student Space
 - Recreation
 - Student-Centered Space
 - Healthcare Space
- Other Space
 - Assembly & Exhibit
 - Physical Plant
 - Miscellaneous Space

Based on experience, SmithGroup has found that comparisons using FTE are the most appropriate as they compare an equivalent amount of academic instruction rather than the number of students by headcount. For many of the standards, the unit of analysis for this study is assignable square feet per student full-time equivalent (ASF/FTE) or assignable square feet per student station (ASF/station).

The space standards described in this section will be used in the next section to identify the University's space needs. The space needs analysis involves a process that quantifies

space amounts likely to be needed based on projected enrollment, staffing, and research activity. Reliability of the findings depends on several factors including the quality of the facility data, the appropriateness of the space standards, and the validity of the planning assumptions.

Unless otherwise noted, all findings are in assignable square feet (ASF). ASF is defined as the area measured within the interior walls of a room that can be assigned to a program. ASF does not include circulation, mechanical, or building service spaces, so no space need was generated for these areas.

The NC State University Space Committee (USC) contributed recommendations regarding classrooms and space quality and quantity, as well as noted strides gained that address the University's strategic incentives.

Space condition, standards, and evolving programmatic needs must be factored into the assessment when reviewing space type quantities. Efficiencies might be gained when outdated spaces are renovated to current space standards. The first University building was completed in 1889, followed by many others that did not start to implement space standards until the early 2000's. The examples below demonstrate opportunities for improvements given adequate renovation funding. They are followed by a summary of building condition codes, descriptions, and the percentage of buildings within each condition code.

- Office space for faculty and staff prior to the early 2000's was much larger than that per recommended standards today. To achieve significant efficiency gains, major portions of a floor plate must be renovated to increase the occupant capacity while plumbing fixture count required by code and other building systems must be addressed accordingly.
- Research lab space in more traditional, compartmentalized configurations with outdated or non-functioning equipment often results in research personnel spreading out to gain access to better equipment and adequate space. To achieve significant efficiency gains, major portions of a floor plate must be renovated to configure the labs in a more open and flexible configuration. HVAC, electrical and other building systems must be addressed to provide the capacity needed for modern equipment and code-required air changes.

- Classrooms in traditional front-facing presentation style with non-existent or outdated AV equipment limit the ability to teach in different pedagogic styles. In addition, many auditorium seat widths in older buildings are not sized for today's students. To achieve optimum classroom utilization across campus, an analysis of the classroom "mix" required per neighborhood is needed for section sizes and types of pedagogy to inform the list of classroom renovation projects.

Building Condition Codes and Description

The following building condition codes and descriptions are based on the ranking system in the Facilities Inventory and Utilization Study through the State of North Carolina Higher Education Comprehensive Planning Program. The Facilities Division determines the condition of the building based on the established estimated cost of replacement. (Note: The ratings and descriptions were provided by NC State.)

➤ 1 - Excellent

Suitable for continued use with normal maintenance.

➤ 2 - Good

Requires restoration to present acceptable standards without major room use changes, alterations, or modernizations. The approximate cost of "2-Good" is not greater than 25% of the estimated replacement cost of the building.

➤ 3 - Fair

Requires major updating and/or modernization of the building. The approximate cost of "3-Fair" is greater than 25%, but not greater than 50% of the estimated replacement cost of the building.

➤ 4 - Poor

Requires major remodeling of the building. The approximate cost of "4-Poor" is greater than 50% of the replacement cost of the building.

➤ 5 - End of Useful Life

Should be demolished or abandoned because the building is unsafe or structurally unsound, respective of the need for the space or the availability of funds for a replacement. This category takes precedence over

categories 1-4. If a building is scheduled for demolition, its condition code is recorded as "5-End of Useful Life," regardless of its condition.

➤ 6 - Other

Planned termination or relinquishment of occupancy of the building for reasons other than unsafe or structural unsoundness, such as abandonment of temporary units or vacating of leased space. This category takes precedence over categories 1-4. If a building is scheduled for termination, its condition code is recorded as "6-Other," regardless of its condition.

Condition Code	GSF	Percent
1 - Excellent	7,451,334	41.86%
2 - Good	4,362,789	24.51%
3 - Fair	4,378,519	24.59%
4 - Poor	1,523,667	8.56%
5 - End of Useful Life	84,603	0.48%
6 - Other	1,724	0.01%
Grand Total	17,802,636	

Data as of 9/23/2022

Since starting the Physical Master Plan effort in 2020, strides gained to date to address University strategic initiatives include:

- For the College of Engineering's short-term growth from 2022-2026, space needs will be addressed by gaining 27,220 ASF on the first floor of Research Building IV (RBIV) with a series of renovations projects for the Computer Science, Electrical & Computer Engineering, and Communications units with a placeholder for other units to be determined.
- For the College of Engineering's intermediate term growth from 2026-2028, space needs will be addressed by gaining 40,000 ASF in Mann Hall through a comprehensive renovation of the building for Academic Affairs, Computer Science teaching, flex wet labs and support, and their use of classrooms.
- Space standards have been updated from the UNC System Office standards to more closely align with national standards and best practices.

NC State provided the following information related to the College of Engineering growth:

FIGURE 6-1: COE GROWTH - SHORT TERM SPACE GAINS
JANUARY 10, 2023

Research IV	Research IV Proposed ASF
COE: Communications	1,920
COE: Computer Science	4,620
COE: Electrical & Computer Engineering	12,340
COE: Department TBD	8,340
Total	27,220

Note: This includes only assignable programmatic space and does not include building service spaces such as telecom, custodial, mechanical, electrical, elevators, chases, etc.

FIGURE 6-2: COE GROWTH - INTERMEDIATE SPACE GAINS
JANUARY 10, 2023

Research IV	111 Lampe Existing ASF	Mann Hall Proposed ASF
110 Classrooms (from 111 Lampe)		3,800
COE: Shared Space	1,893	1,400
COE: Academic Affairs	9,127	9,500
COE: Computer Science Teaching	8,541	9,300
COE: Flex Wet Labs/Support		13,000
COE: Open Computer Labs (remain in 111 Lampe)	2,358	0
COE: ITECS (remain in 111 Lampe)	3,673	0
COE: Engineering Online (remain in 111 Lampe)	3,453	0
Interdisciplinary: eSports		8,000
Hearth		3,000
Total	29,045	48,000

Note: This includes only assignable programmatic space and does not include building service spaces such as telecom, custodial, mechanical, electrical, elevators, chases, etc.

The following section briefly outlines space standards for each category. First, a definition of the space will be provided followed by the space standard used in the analysis.

Academic Space

Classrooms

Classrooms are defined as any room generally used for scheduled instruction requiring no special equipment and referred to as a “general purpose” classroom, seminar room, or lecture hall. Classroom service space directly supports one or more classrooms as an extension of the classroom activities, providing media space, preparation areas, or storage. The classroom station size includes classroom service area space. The NC State standard was taken into consideration when determining the targets. The standard is 35 weekly room hours, 65% Student Station Occupancy, and 18 ASF per station.

For the Physical Master Plan, classroom needs were based on utilization targets:

- 35 Weekly Room Hours
- 75% Student Station Occupancy
- 25 ASF per Station

Class Labs

Class labs are defined as rooms used primarily by regularly scheduled classes that require special-purpose equipment to serve the needs of particular disciplines for group instruction, participation, observation, experimentation, or practice. Examples include spaces for chemistry, physics, music, dance, and engineering.

The scheduled weekly room hour average for class labs is generally less than scheduled use of classrooms due to the need for preparation time prior to class and the specialized equipment precluding use by multiple disciplines.

Conversely, the Student Station Occupancy is normally higher as the number enrolled in a lab exercise is more closely monitored, safety being a key issue as well as the limitations of faculty observation.

Class labs might have extended periods of open access so students can practice skills or work in groups as part of collaborative-based learning. As each program varies, it is difficult to factor “unscheduled” time into the analysis. Again, NC State standards were considered when determining the Class Lab standards, these standards are 20 WRH, with a 75% SSO, the ASF per station is determined by the level of intensity.

ASF per station lab standards (see tables below) were established for each discipline and used to calculate space needs. For all disciplines, the weekly room hour standard is 24 WRH, and the Student Station Occupancy is set at 80%. Of important note, these standards can be adjusted to further maximize space usage.

Discipline	ASF/STATION
Ag Economics and Ag Human Sciences	35
Agricultural Engineering	80
Agriculture (Ag Ext, App Ec, PMB, DEPP, UFL)	60
Agronomy (Crop & Soil)	60
Animal Science and CVM	60
Anthropology (Soc & Ant)	60
Biological Sciences	60
Biomedical Engineering	80
BioTech Teaching	80
BTEC	80
Business & Management	35
Chemical Engineering	80
Chemistry (BioChem, METRIC, BIT)	80
Civil/Construction/Transport	80
Communications	35
Dance	80
Education	60
Electrical/Electronic/Communications & Computer Engr	35
Engineering (Dean, EOL, Ac Affairs, Clean Tech, IES)	35
Food Science & Technology	60
Foreign Languages	35
Geology (MEAS)	60
GIS	35
Horticulture	60
Industrial & Management Engineering	80
MAE	80
Materials Science Engineering	80
Mathematics (& Stat)	35
Music	35
Natural Resource Management	60
Nuclear Engineering	80
Physics	60
Social Sciences (& Humanities)	35
Textile Engineering	80

Open Labs

The space classified as open labs includes rooms that are open for student use or are irregularly scheduled. This includes labs that are used exclusively for one semester, open-access labs, and self-paced labs. These rooms might provide equipment to serve the needs of particular disciplines or for group instruction with informally or irregularly scheduled classes. Alternatively, these rooms might also be used for individual student experimentation, observation, or practice in a particular field of study. Types of rooms typically included in this category include arts studios, music practice rooms, discipline-specific computer labs, simulation areas, and rooms used for student projects.

Most space standard systems do not account for this space type. SmithGroup uses its experience and best practice to apply a space per student FTE allocation to account for needs in this area. For the PMP, five ASF per Student FTE was applied. The standard recognizes the various academic disciplines with varying needs such as engineering and performing arts. At NC State, open labs are viewed in conjunction with class labs. As such, the ASF per station was adjusted in the class lab space category.

Academic Support Space

Academic and Administrative Offices

Office space usually consists of at least three types of space: offices and workstations; conference rooms; and office service space, which includes work rooms, file rooms, supply rooms, reception areas, and other rooms usually found in an office suite environment. Note, the distinction between academic and administrative offices is based on the University's organizational structure. For example, an adviser within the College of Engineering would be accounted for within Academic Offices.

The COVID-19 pandemic has fundamentally shifted the way in which we work. NC State, like other campuses across the country, is exploring this new reality through pilots of hybrid work and the impact on space allocations.

To develop standards for office space, employee groups were considered with a workspace allocation and subsequent support space allocation. These do not make determinations as to private, shared, or open workspace and assumes 100% of employees working on campus in the base year 2021. In the target year, 75% of employee types

of professional staff, technical, administrative support, and graduate assistants; 85% of directors/department heads, associate directors, and assistant directors will be assumed to be on campus; and 100% of all other employee types. The space needs quantify total space needed, not the number of doors or seats. The tables below details the office space standards. It is important to note these allocations are to be used for high-level planning, not programming.

Employee Type	Workspace ASF	Service ASF	Total ASF
Chancellor	300	150	450
Dean	180	90	270
Provost	180	90	270
Vice Chancellor	180	90	270
Associate Dean	160	80	240
Assistant Dean	160	80	240
Assistant/Associate VC/Provost	160	80	240
Director/Department Head	160	60	220
Associate Director	120	60	180
Assistant Director	120	60	180
Faculty	120	60	180
Postdoctoral	60	60	120
Professional Staff	120	60	180
Technical	90	50	140
Research Professional/Technical	90	50	140
Administrative Support	90	50	140
Graduate Assistant	40	20	60
Law Enforcement Officer	60	60	120
Emeritus or Blank JCAT	0	0	0
Student Worker	0	0	0
Crafts & Trades	0	0	0
Crafts & Trades Supervisor	90	50	140
Crafts & Trades Lead	60	60	120

Library Space

Library space is classified into five categories: study room, stack, open-stack study room, processing room, and study service. A study space might contain equipment or materials that aid the study or learning process and that do not restrict the space to a particular academic discipline or discipline group. The NC State Standard stack space factor calculation is stack space plus 50% of open stack study room space. The stack space ASF standard is .08 ASF per the number of volumes by category divided by the predetermined adjustment factor.

Collection Type	Adjustment Factor
Books/Serials (Volumes)	1
Thesis Dissertation	2
Cartographic (Volumes)	8
Unbound Serials (Display)	0.5
Microforms	80
Audio/Visual Materials	5
Compact Shelving	33

For the Physical Master Plan, the Library Space standard is based on two parts – the physical collection size and student study space. The physical collection is converted based on the adjustment factors shown in the table to the right, including 33 for compact shelving. Study space is calculated at 25 ASF for 10% of undergraduate student FTE and 10% of graduate student FTE.

Collaborative Learning Space

Collaborative learning space is defined as those study rooms and spaces distributed across campus, not allocated to University Libraries. This space is frequently located near instructional spaces to facilitate before and after class individual and group study and conversation.

For the PMP, the collaboration space standard used is 25 ASF per student for 15% of the undergraduate student FTE and 5% of the graduate student FTE. These spaces should be distributed across the campus recognizing student studying occurs beyond the walls of the physical libraries.

Research Space

Research spaces are rooms used for unscheduled lab experimentation or training in research methods and observation. The research might be conducted by either faculty or students for both funded and non-funded research.

Research Labs

The NC State Standard for determining how much research lab space is needed is based on a calculation of total research units multiplied by the average ASF per research unit. Additionally, it is based on personnel staff paid by research funding, and the headcount of master’s students based on an average of the last four full years of degrees awarded from a master’s degree program. Further, space standards are determined by the intensity of the discipline.

To inform potential changes to the existing standard, 10 years of University research expenditures as reported to the National Science Foundation (NSF) through the Higher Education Research and Development (HERD) survey were reviewed in nominal growth and actual growth when adjusting for inflation. In addition to this, the three-year average expenditures by college and the total research expenditures per Principal Investigator (PI) by college were reviewed to drive the appropriate standards by discipline.

FIGURE 6-3: TOTAL RESEARCH EXPENDITURES, ALL SOURCES, NOMINAL DOLLARS
NATIONAL SCIENCE FOUNDATION HERD SURVEY

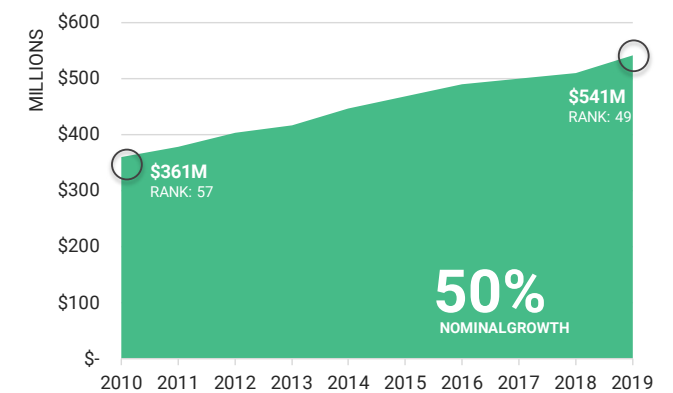


FIGURE 6-4: TOTAL RESEARCH EXPENDITURES, ALL SOURCES, INFLATION ADJUSTED DOLLARS
NATIONAL SCIENCE FOUNDATION HERD SURVEY; HIGHER EDUCATION PRICE INDEX (HEPI) - INDEX YEAR 1983

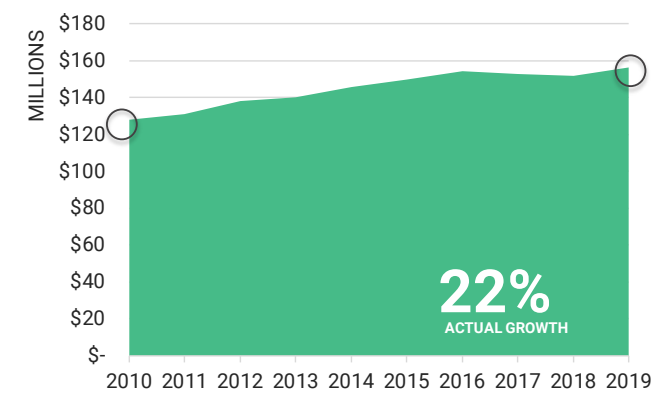


FIGURE 6-5: CHARTING GROWTH
PROJECTING THE FUTURE

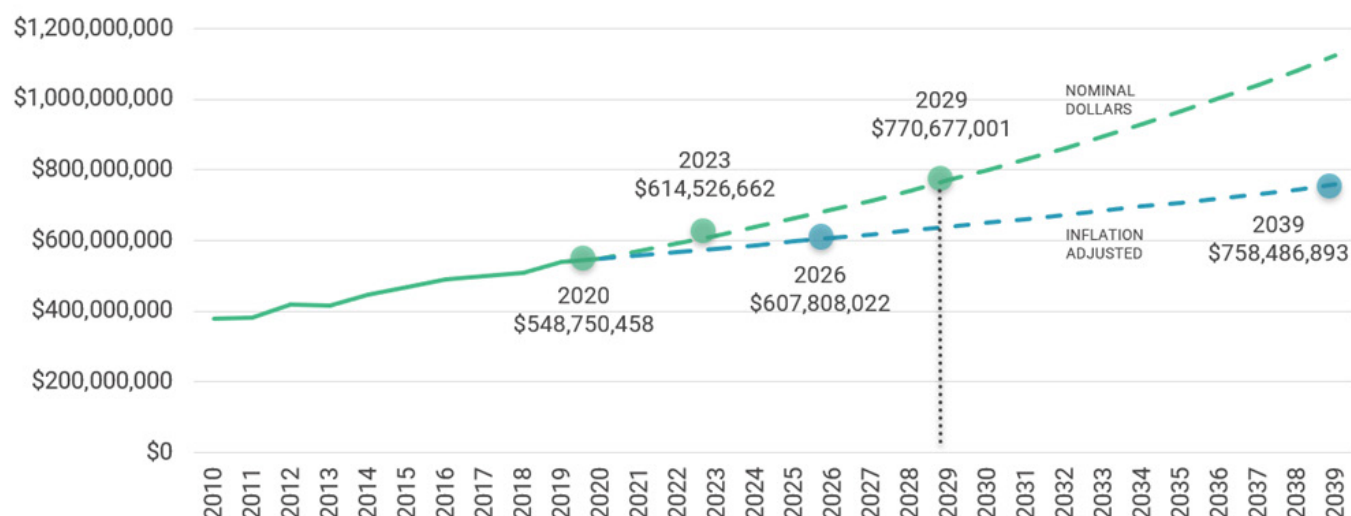


FIGURE 6-6: COLLEGE THREE-YEAR AVERAGE

OFFICE OF INSTITUTIONAL

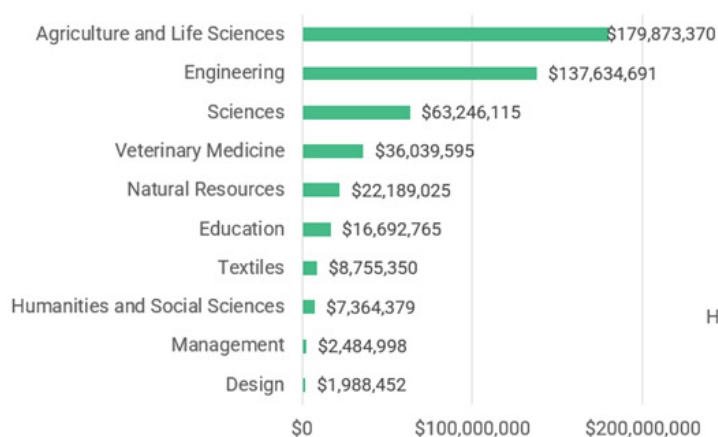
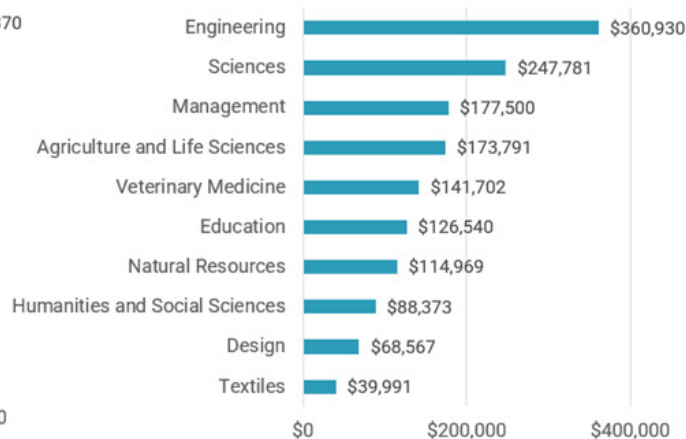


FIGURE 6-7: TOTAL RESEARCH EXPENDITURES
PER, PI, BY COLLEGE
OFFICE OF INSTITUTIONAL



SmithGroup worked with the planning committee to develop four standard types: Computational; Humanities; Wet, Physical; and Wet, Life Sciences. Standards were then applied at the department level ranging anywhere from 40 ASF to 1,400 ASF, applied to 80% of the faculty and 100% of post-docs (at 50% of the faculty allocation). An additional 10% of the total research needed by college was allocated as shared space within each college and 10% of the total research need was allocated for University core facilities. These standards are intended for high-level needs analysis, not programming.

Animal Facilities

Based on discussion with academic leadership, the need was determined to grow by five percent by 2030. The need was split between the current and future years.

Greenhouses

No national standards exist to quantify or project needs for greenhouses. Rather, the need is driven by specific research needs and would be planned within the context of research infrastructure investment.

Field Buildings

No national standards exist to quantify or project needs for field buildings. Rather, the need is driven by specific research needs and would be planned within the context of research infrastructure investment.

Student Space

Recreation

Recreation represents indoor spaces such as gymnasiums, court facilities, weight rooms, indoor running tracks, and fitness centers as well as supporting locker room and shower/toilet facilities, equipment storage and check-out rooms.

For the PMP, the National Intramural-Recreational Sports Association (NIRSA) standards were used as a base. The NIRSA standards consider indoor recreation and fitness facilities such as courts, group exercise rooms, cardio equipment, swimming pools, climbing walls, and associated service areas like locker rooms and outdoor equipment storage. NIRSA was used as a base and then adjusted to reflect the unique conditions at NC State. Space factors vary with the size of an institution, with a reduction in space per student as the number of students increases. Of note, the need is comprehensive to be located across more than a single campus.

Student-Centered Space

Student-centered space includes non-residential dining facilities, bookstores, ballrooms, student lounges, student recreational facilities (such as game and video rooms, not fitness facilities), and student government/club/organization space. While commonly referred to as a center or a union, these spaces are often distributed throughout a campus. For the Physical Master Plan, student-centered space was calculated at 10 ASF per Student FTE.

Healthcare Space

Healthcare space includes both medical and counseling services space needed to support students, employees, and their families. Group therapy rooms are accounted for in this space category. Of note, Campus Health provides services to students, faculty, and staff. Many services are limited to students; however, there is a strategic plan to provide further support to University employees. As such, the standard was adjusted. A standard of one ASF per 100% of the student population was used.

Other Space

Assembly & Exhibit

Assembly and exhibit space is any room that is designed and equipped for the assembly of a large number of people and in direct support of academic programs and experiences. Spaces include theaters, auditoriums, concert halls, and art exhibit space. Buildings with the most Assembly & Exhibit space at NC State include Talley Student Union, Frank Thompson Hall, and Gregg Museum of Art & Design. A standard of three ASF per student FTE was used.

Physical Plant

Physical Plant space accounts for the space needed to support academic, administrative, and student facilities and includes maintenance shops, central storage and receiving, landscape services, vehicle maintenance and storage space, and custodial services.

A standard of 5% of all existing non-physical plant space for the base year was used for this study. For the target year, the standard was applied to the proposed total standards (rather than existing space).

Miscellaneous Space

Miscellaneous space includes space that does not fit into the other space classifications. This includes spaces like media production rooms, departmental resource rooms and storage. Because spaces in these categories are so diverse, most standard systems do not address these space types. Buildings with the most Miscellaneous Space include McKinnon Center, Dorothy and Roy Park Alumni Center, and James B. Hunt Jr. Centennial Campus Library. SmithGroup uses its experience and best practice to apply a space per student FTE allocation to account for needs in this area. For the Physical Master Plan, six ASF per Student FTE was applied.

Space Guidelines

Academic Space

Classrooms

- **35** weekly room hours
- **75%** student station occupancy
- **25** assignable square feet/seat

Class Labs

- **24** weekly room hours
- **80%** student station occupancy
- College of Design (standards provided by NC State)
 - Lab space of **100** assignable square feet/seat multiplied by enrollment multiplied by **0.9**
 - Lab service space of **10** assignable square feet/seat multiplied by the enrollment multiplied by **0.9**

Open Labs

- **5** assignable square feet/student full-time equivalent

FIGURE 6-8: CLASS LABS SPACE GUIDELINE

Discipline	ASF/STATION
Ag Economics and Ag Human Sciences	35
Agricultural Engineering	80
Agriculture (Ag Ext, App Ec, PMB, DEPP, UFL)	60
Agronomy (Crop & Soil)	60
Animal Science and CVM	60
Anthropology (Soc & Ant)	60
Biological Sciences	60
Biomedical Engineering	80
BioTech teaching	80
BTEC	80
Business & Management	35
Chemical Engineering	80
Chemistry (BioChem, METRIC, BIT)	80
Civil/Construction/Transport	80
Communications	35
Dance	80
Education	60
Electrical/Electronic/Communications & Computer Engr	35
Engineering (Dean, EOL, Ac Affairs, Clean Tech, IES)	35
Food Science & Technology	60
Foreign Languages	35
Geology (MEAS)	60
GIS	35
Horticulture	60
Industrial & Management Engineering	80
MAE	80
Materials Science Engineering	80
Mathematics (& Stat)	35
Music	35
Natural Resource Management	60
Nuclear Engineering	80
Physics	60
Social Sciences (& Humanities)	35
Textile Engineering	80

Academic Support Space

Office Space

- Assume **100%** employees on campus in base year
- Assume **75%** of professional staff, technical, administrative support, and graduate assistants on campus; 85% of directors/department heads, associate directors, and assistant directors; all others at 100% in target year

Library Space

- Physical Collections
- Library Study Space of **25** assignable square feet/student full-time equivalent for **10%** of the undergraduate students and **10%** of the graduate students

Collaborative Learning Space

- **25** assignable square feet per **5%** of graduate student full-time equivalent
- **25** assignable square feet per **15%** of undergraduate student full-time equivalent

FIGURE 6-9: OFFICE SPACE GUIDELINE

Employee Type	Workspace ASF	Service ASF	Total ASF
Chancellor	300	150	450
Dean	180	90	270
Provost	180	90	270
Vice Chancellor	180	90	270
Associate Dean	160	80	240
Assistant Dean	160	80	240
Assistant/Associate VC/Provost	160	80	240
Director/Department Head	160	60	220
Associate Director	120	60	220
Assistant Director	120	60	180
Faculty	120	60	180
Postdoctoral	60	60	120
Professional Staff	120	60	180
Technical	90	50	140
Research Professional/Technical	90	50	140
Administrative Support	90	50	140
Graduate Assistant	40	20	60
Law Enforcement Officer	60	60	120
Emeritus or Blank JCAT	0	0	0
Student Worker	0	0	0
Crafts & Trades	0	0	0
Crafts & Trades Supervisor	90	50	140
Crafts & Trades Lead	60	60	120

Research Space

Animal Facilities

- Calculated need to grow **5%** to 2030

Share Space & Core Facilities

- Allocated **10%** of total research need for college for shared space within each college
- Allocated **10%** of total research need for University core facilities

FIGURE 6-10: RESEARCH SPACE GUIDELINE

College	Guideline Type	Guideline ASF
Agriculture and Life Sciences	Computational Wet, Life Sciences	40 1,200-1,400
Design	Humanities	200
Education	Humanities	80
Engineering	Computational Wet, Physical	40-80 1,400
Humanities and Social Sciences	Humanities	40-400
Management	Computational	40
Natural Resources	Computational Wet, Life Sciences	40-80 1,200
Sciences	Computational Wet, Let Sciences Wet, Physical	40 1,200 1,400
Textiles	Wet, Physical	1,200-1,400
Veterinary Medicine	Wet, Life Sciences	1,200

Student Space

Recreation

- Application of National Intramural and Recreational Sports (NIRSA) guidelines
- Calculated need for indoor space only

Student-Centered Space

- **10** assignable square feet/student full-time equivalent

Healthcare Space

- **1** assignable square feet/student headcount

Other Space

Assembly & Exhibit

- **3** assignable square feet/student full-time equivalent

Miscellaneous Space

- **6** assignable square feet/student full-time equivalent

Physical Plant

- **5%** of non-physical plant existing space for base year; based on guidelines for the target year

Space Needs Analysis

Summary by Space Type

The following summaries illustrate the application of standards and inputs (assumptions related to space, enrollment, and faculty and staff growth). While some space types will indicate a surplus of space, not all apparent surpluses can be re-purposed to meet an area of quantitative need. Additionally, quality and configuration of space should be considered in space optimization. For example, the Office space category might indicate an excess of space while the existing configuration does not allow for an easy reallocation to another use. These summaries identify order-of-magnitude need, highlight areas of exploration, and set standards for future capital programming and investment.

FIGURE 7-1: SPACE NEEDS PROFILE (FALL 2021)

Fall 2021 Student FTE = 33,226 Employee FTE = 12,982				
Space Category	Existing ASF	Proposed Standard ASF	Surplus/ (Deficit)	Percent Surplus/ (Deficit)
Academic Space				
Classrooms	267,465	267,806	(341)	0%
Class Labs	323,700	300,637	23,063	7%
Open Labs	165,752	166,131	(379)	0%
Academic Space Subtotal	756,918	734,575	22,343	3%
Academic Support Space				
Academic Offices	1,360,418	1,032,704	327,714	24%
Administrative Offices	508,263	322,441	185,823	37%
Library Space	294,035	271,871	22,164	8%
Collaborative Learning Space	61,418	103,917	(42,499)	(69%)
Academic Support Space Subtotal	2,224,135	1,730,933	493,202	22%
Research Space				
Research Labs	1,203,159	1,292,668	(89,509)	(7%)
Animal Facilities	534,676	548,044	(13,368)	(3%)
Greenhouses	244,995	244,995	-	0%
Field Buildings	207,480	207,480	-	0%
Research Space Subtotal	2,190,311	2,293,187	(102,877)	(5%)
Student Space				
Recreation	290,403	358,212	(67,809)	(23%)
Student-Centered Space	281,765	332,263	(50,497)	(18%)
Healthcare Space	30,951	37,556	(6,605)	(21%)
Student Space Subtotal	603,120	728,031	(124,911)	(21%)
Other Space				
Assembly & Exhibit	84,338	99,679	(15,340)	(18%)
Physical Plant	273,226	336,274	(63,048)	(23%)
Miscellaneous Space	225,906	199,358	26,549	12%
Other Space Subtotal	583,470	635,310	(51,840)	(9%)
TOTAL	6,357,953	6,122,036	235,917	4%

At the base year (Fall 2021) of the PMP, NC State had over 6.3 million assignable square feet (ASF) of space. Application of the standards indicate that the campus should have around 6.1 million ASF, which equates to a surplus of over 200,000 ASF. At the target year, the projected need increases to nearly 6.7 million ASF, resulting in a deficit of over 300,000 ASF.

FIGURE 7-2: SPACE NEEDS PROFILE (FALL 2030)

Fall 2030 Student FTE = 38,176 Employee FTE = 15,266				
Space Category	Existing ASF	Proposed Standard ASF	Surplus/ (Deficit)	Percent Surplus/ (Deficit)
Academic Space				
Classrooms	267,465	297,556	(30,090)	(11%)
Class Labs	323,700	323,384	317	0%
Open Labs	165,752	190,878	(25,126)	(15%)
Academic Space Subtotal	756,918	811,818	(54,900)	(7%)
Academic Support Space				
Academic Offices	1,360,418	1,102,825	257,593	19%
Administrative Offices	508,263	315,844	192,419	38%
Library Space	294,035	285,110	8,925	3%
Collaborative Learning Space	61,418	119,035	(57,617)	(94%)
Academic Support Space Subtotal	2,224,135	1,822,815	401,319	18%
Research Space				
Research Labs	1,203,159	1,495,802	(292,643)	(24%)
Animal Facilities	534,676	561,743	(27,067)	(5%)
Greenhouses	244,995	244,995	TBD	0%
Field Buildings	207,480	207,480	TBD	0%
Research Space Subtotal	2,190,311	2,510,020	(319,710)	(15%)
Student Space				
Recreation	290,403	411,572	(121,169)	(42%)
Student-Centered Space	281,765	381,757	(99,992)	(35%)
Healthcare Space	30,951	43,049	(12,098)	(39%)
Student Space Subtotal	603,120	836,378	(233,259)	(39%)
Other Space				
Assembly & Exhibit	84,338	114,527	(30,189)	(36%)
Physical Plant	273,226	331,686	(58,460)	(21%)
Miscellaneous Space	225,906	229,054	(3,148)	(1%)
Other Space Subtotal	583,470	675,267	(91,797)	(16%)
TOTAL	6,357,953	6,656,299	(298,346)	(5%)

Academic Space

In Fall 2021, the University had just over 750,000 ASF of Academic Space, which includes Classrooms, Class Labs, and Open Labs. Application of the standard indicates NC State should have had over 730,000 ASF, a surplus of over 20,000 ASF. Only Class Labs had a surplus of space, at nearly 25,000 ASF. Conversely, Classrooms had a 300 ASF deficit, and Open Labs had nearly a 400 ASF deficit. At the target year, the application of the standard increases the space need to over 800,000 ASF, resulting in a deficit of about 55,000 ASF. Class Labs have a surplus of 300 ASF, Open Labs have a 25,000 ASF deficit and Classrooms with a 30,000 ASF deficit.

Academic Support Space

Academic Support Space consists of Academic Offices, Administrative Offices, Library Space, and Collaborative Learning Space. NC State had over 2.2 million ASF of this space during Fall 2021. Most of this space was Academic Offices and Administrative Offices at nearly 1.9 million ASF. Application of the standards indicates a need for approximately 1.4 million ASF for both space types, a surplus of nearly 500,000 ASF. Library Space had a surplus of over 20,000 ASF, and Collaborative Learning Space was in deficit at over 40,000 ASF. The standards change to a need of 1.8 million ASF total in the target year. Offices still have a surplus of 450,000 ASF, Library Space has nearly 10,000 ASF of surplus space, while the deficit for Collaborative Learning Space increases to nearly 60,000 ASF.

At the base year there were less than 5,000 study and collaborative learning seats. At the standard of 25 ASF for 10% of the undergraduate and 10% of the graduate student populations there should be around 7,500 stations. At the target year, the number of study and collaborative learning stations needed increases to over 8,500.

FIGURE 7-3: LIBRARY AND COLLABORATIVE LEARNING SPACE STATIONS

Collection Type	Existing	Fall 2021	Year 2030
Library		3,323	3,818
Collaborative Learning Space		4,157	4,761
Total	4,683	7,479	8,579

Research Space

Research Space consists of Research Labs, Animal Facilities, Greenhouses, and Field Buildings. NC State had around 2.2 million ASF of this space during Fall 2021. Most of this space was Research Labs at 1.2 million ASF. Application of the standards indicates a need for approximately 1.3 million ASF for this space type, a deficit of around 90,000 ASF. Animal Facilities were nearly in balance with around 530,000 ASF of existing space and a standard of around 550,000 ASF. Greenhouses and Field Building standards were set to equal the current amount of space in Fall 2021 and 2030. The standards increase from a need of nearly 2.3 million in the base year to over 2.5 million ASF total in the target year. The deficit for Research Labs increases to nearly 300,000 ASF, and the deficit for Animal Facilities increases to close to 30,000 ASF.

Student Space

The campus had over 600,000 ASF of existing student space which includes indoor Recreation Space, Student-Centered Space, and Healthcare Space. Outdoor Recreation Space was not included in the Physical Master Plan. At the base year, all these space types were in deficit. Recreation had a deficit of nearly 70,000 ASF, Student-Centered Space was at 50,000 ASF deficit, and Healthcare Space was nearly 7,000 ASF in deficit. In total, the campus had a deficit of about 125,000 ASF for Student Space. At the target year, the standard calculations show increased need of over 100,000 ASF, a deficit of space of over 230,000 ASF.

Other Space

Finally, NC State had various other space types consisting of Assembly & Exhibit, Physical Plant, and Miscellaneous Space. These spaces totaled close to 600,000 ASF. However, Assembly & Exhibit and Physical Plant were both in deficit at the base year with other space having a deficit over 50,000 ASF. Assembly & Exhibit had close to 85,000 ASF with a standard at nearly 100,000 ASF, Physical Plant was around 275,000 ASF with a standard around 340,000 ASF, and Miscellaneous Space encompassed over 225,000 ASF and had a standard of just under 200,000 ASF. At the target year, all space types within the other space category result in a deficit at under 100,000 ASF.

Summary By Major Academic & Administrative Units

Academic Colleges/Units

Departments at NC State were rolled up into academic colleges/units or administrative units. Since classrooms are centrally scheduled, Classrooms ASF has been placed in its own line on each table.

Academic colleges/units included the academic colleges as well as Academic and Student Affairs and Graduate School. Overall, the academic college/units at NC State had a deficit of space for the base year and the target year of the space needs analysis. As seen in Figure 7-4, in Fall 2021, there was over 4.5 million ASF of space distributed among the academic colleges. With a standard of 4.7 million ASF, there was a deficit of around 180,000 ASF. However, more than half of the academic units had a surplus of space. The College of Agriculture and Life Sciences had the largest surplus both in the base year and the target year with about 180,000 ASF in the base year and over 150,000 ASF in the target year. Classrooms at NC State had the highest deficit with over 260,000 ASF in the base year and over 290,000 ASF deficit in the target year.

FIGURE 7-4: ACADEMIC SPACE NEEDS PROFILE (FALL 2021)

Fall 2021 Student FTE = 33,226 Employee FTE = 12,982				
College/Unit	Existing ASF	Guideline ASF	Surplus / (Deficit)	Percent Surplus/ (Deficit)
Academic				
College of Agriculture and Life Sciences	1,667,396	1,487,725	179,671	11%
College of Design	115,025	136,262	(21,236)	(18%)
College of Education	82,947	80,789	2,158	3%
College of Engineering	730,774	639,410	91,364	13%
College of Humanities & Social Sciences	134,264	136,888	(2,624)	(2%)
College of Natural Resources	129,191	126,393	2,798	2%
College of Sciences	462,274	470,113	(7,839)	(2%)
College of Textiles	220,845	139,191	81,654	37%
College of Vet Medicine	408,299	508,047	(99,748)	(24%)
Poole College of Management	56,130	48,073	8,057	14%
Academic and Student Affairs	569,234	711,956	(142,722)	(25%)
Graduate School	6,436	5,161	1,276	20%
Classrooms	5,232	267,598	(262,365)	(5015%)

FIGURE 7-5: ACADEMIC SPACE NEEDS PROFILE (FALL 2030)

Fall 2030 Student FTE = 38,176 Employee FTE = 15,266				
College/Unit	Existing ASF	Guideline ASF	Surplus / (Deficit)	Percent Surplus/ (Deficit)
Academic				
College of Agriculture and Life Sciences	1,667,396	1,513,826	153,570	9%
College of Design	115,025	143,479	(28,453)	(25%)
College of Education	82,947	83,795	(848)	(1%)
College of Engineering	730,774	850,256	(119,482)	(16%)
College of Humanities & Social Sciences	134,264	140,791	(6,528)	(5%)
College of Natural Resources	129,191	129,656	(465)	0%
College of Sciences	462,274	488,348	(26,075)	(6%)
College of Textiles	220,845	148,483	72,363	33%
College of Vet Medicine	408,299	566,258	(147,959)	(39%)
Poole College of Management	56,130	49,020	7,111	13%
Academic and Student Affairs	569,234	806,659	(237,424)	(42%)
Graduate School	6,436	5,176	1,261	20%
Classrooms	5,232	297,347	(302,116)	(5774%)
Academic Colleges Subtotal	4,588,047	5,223,094	(635,045)	(14%)

Administrative Units

Administrative units include Building Support and Non-University Space; Chancellor's Office; External Affairs, Partnerships, and Economic Development; Finance and Administration; Office of General Counsel; Office of Information Technology, Office of Research and Innovation (ORI), Office of the Executive Vice Chancellor and Provost, University Advancement, and Classrooms. Figure 7-6 shows that across these administrative units there was close to 1.8 million ASF of existing space. With the application of the standards, there is a need of just under 1.4 million ASF in the base year and just over 1.4 million ASF in the target year, a surplus of about 400,000 ASF in the base year and around 335,000 ASF in the target year. Most units had a surplus of space, Classrooms having the largest with 260,000 ASF in both years. Only External Affairs, Partnerships, and Economic Development, and Finance and Administration had a deficit, with the latter having the majority at over 30,000 ASF deficit in the base year and nearly 70,000 ASF deficit in the target year. The Classrooms space noted in the tables is allocated to the administrative units of Finance and Administration, and Office of the Executive Vice Chancellor and Provost, with the Chancellor's Office also producing a small standard amount in both years.

FIGURE 7-6: ADMINISTRATIVE SPACE NEEDS PROFILE (FALL 2021)

Fall 2021 Student FTE = 33,226 Employee FTE = 12,982				
College/Unit	Existing ASF	Guideline ASF	Surplus / (Deficit)	Percent Surplus/ (Deficit)
Administrative				
Building Support and Non-University Space	78,535	38,755	39,780	51%
Chancellor's Office	11,035	5,953	5,082	46%
External Affairs, Partnerships, and Economic Development	6,491	9,000	(2,509)	(39%)
Finance and Administration	623,562	654,655	(31,093)	(5%)
Office of General Counsel	2,590	2,390	200	8%
Office of Information Technology	78,633	77,032	1,601	2%
Office of Research and Innovation (ORI)	60,435	41,446	18,989	31%
Office of the Executive Vice Chancellor and Provost	594,198	496,077	98,121	17%
University Advancement	52,193	38,914	13,279	25%
Classrooms	262,233	209	262,025	100%
Administrative Units Subtotal	1,769,905	1,364,431	405,475	23%

FIGURE 7-7: ADMINISTRATIVE SPACE NEEDS PROFILE (FALL 2030)

Fall 2030 Student FTE = 38,176 Employee FTE = 15,266				
College/Unit	Existing ASF	Guideline ASF	Surplus / (Deficit)	Percent Surplus/ (Deficit)
Administrative				
Building Support and Non-University Space	78,535	42,918	35,617	45%
Chancellor's Office	11,035	5,970	5,065	46%
External Affairs, Partnerships, and Economic Development	6,491	8,683	(2,193)	(34%)
Finance and Administration	623,562	690,532	(66,969)	(11%)
Office of General Counsel	2,590	2,352	238	9%
Office of Information Technology	78,633	75,486	3,147	4%
Office of Research and Innovation (ORI)	60,435	42,686	17,750	29%
Office of the Executive Vice Chancellor and Provost	594,198	525,073	69,126	12%
University Advancement	52,193	39,299	12,894	25%
Classrooms	262,233	209	262,025	100%
Administrative Units Subtotal	1,769,905	1,433,208	336,700	19%

Appendix-A

HIGH-DETAIL COLLEGES AND SCHOOLS MATRIX

NC State	College of Agriculture and Life Sciences	College of Design	College of Education	College of Engineering	College of Humanities and Social Sciences				College of Natural Resources	College of Sciences	College of Veterinary Medicine	Poole College of Management	University College	Wilson College of Textiles
The Pennsylvania State University	College of Agricultural Sciences	Arts and Architecture	Education	College of Engineering	Donald P. Bellisario College of Communications	Information Sciences and Technology	Liberal Arts		Earth and Mineral Sciences	Eberly College of Science		Smeal College of Business		
Purdue University	College of Agriculture		College of Education	College of Engineering	College of Liberal Arts					College of Science	College of Veterinary Medicine	Krannert School of Management	College of Health and Human Sciences	
Rhode Island School of Design		Design (Various Programs)												Textiles (various programs)
Rutgers University-New Brunswick				School of Engineering	School of Arts and Sciences	School of Communication and Information	Graduate School of Applied and Professional Psychology	School of Social Work				Rutgers Business School - Newark and New Brunswick	Mason Gross School of the Arts	
The Ohio State University	College of Food, Agricultural, & Environmental Sciences	Austin E. Knowlton School of Architecture *	College of Education & Human Ecology	College of Engineering	College of Arts and Sciences				School of Environmental and Natural Resources *		College of Veterinary Medicine	Fisher College of Business	School of Health and Rehabilitation Sciences *	
University of Arizona	College of Agriculture & Life Sciences	College of Architecture, Planning and Landscape Architecture	College of Education	College of Engineering	College of Humanities	College of Fine Arts	College of Social and Behavioral Sciences			College of Science	College of Veterinary Medicine	Eller College of Management		
University of California-Davis	Agricultural and Environment Sciences		School of Education	Engineering	Letters and Science					Biological Sciences	School of Veterinary Medicine	Graduate School of Management		
University of Illinois at Urbana-Champaign	College of Agricultural, Consumer, and Environmental Sciences		College of Education	The Grainger College of Engineering	College of Liberal Arts and Humanities	College of Fine and Applied Arts	School of Information Sciences	College of Media			College of Veterinary Medicine	Gies College of Business	College of Applied Health Sciences	
University of Maryland	College of Agriculture and Natural Resources	School of Architecture, Planning, and Preservation	College of Education	A. James Clark School of Engineering	College of Arts and Humanities	College of Behavioral and Social Sciences	College of Information Studies	Phillip Merrill College of Journalism		College of Computer, Mathematical, and Natural Sciences		Robert H. Smith School of Business		
University of Oregon		College of Design	College of Education		College of Arts & Sciences	School of Journalism and Communication						Charles H. Lundquist College of Business	School of Music and Dance	
University of Wisconsin-Madison	College of Agricultural & Life Sciences		Education	College of Engineering	Letters and Sciences						Veterinary Medicine	Business		
Anonymous A		College of Design		College of Engineering	College of Liberal Arts					College of Sciences		College of Business		
Anonymous B	College of Agriculture and Life Sciences	College of Design		College of Engineering	College of Liberal Arts and Sciences						College of Veterinary Medicine	College of Business	College of Human Sciences	

ACADEMIC COLLEGES NOT AT NC STATE UNIVERSITY

Others - Not Matched					Medicine	Law	Nursing	Pharmacy	Public Policy/ Affairs, Government	Social Work	Dentistry	Public Health	Optical
Health and Human Development						Dickinson Law The College Law	Nese College of Nursing		School of International Affairs				
Purdue Polytechnic Institute								College of Pharmacy					
					College of Medicine	Michael E. Moritz College of Law	College of Nursing	College of Pharmacy	The John Glenn College of Public Affairs	College of Social Work	College of Dentistry	College of Public Health	College of Optometry
			College of Applied Science and Technology		College of Medicine	James E. Rogers College of Law	College of Nursing	College of Pharmacy				Mal and Enid Zuckerman College of Public Health	College of Optical Sciences
					School of Medicine	School of Law	The Betty Irene Moore School of Nursing						
School of Labor and Employment Relations					Carle Illinois College of Medicine	College of Law				School of Social Work			
									School of Public Policy			School of Public Health	
						School of Law							
Human Ecology	Computer, Data and Information Sciences	Music	Information School	Environmental Studies	Medicine and Public Health	Law School	Nursing	Pharmacy	Public Affairs	Social Work			

NORTH CAROLINA STATE UNIVERSITY

BACKGROUND DATA		ACADEMIC PORTFOLIO ALIGNMENT	
Main Campus	Raleigh, North Carolina		NC State
Research Expenditures	\$532,487,873		
Student FTE	33,043	College of Agriculture and Life Sciences	
Faculty FTE	2,202	College of Design	
Staff FTE	11,267	College of Education	
Student HC	36,831	College of Engineering	
Faculty HC	2,409	College of Humanities and Social Sciences	
Staff HC	17,053	College of Natural Resources	
Benchmarking Term	Fall 2021	College of Sciences	
		College of Veterinary Medicine	
		Poole College of Management	
		University College	
		Wilson College of Textiles	




















Note: To see full list of academic portfolio similarities, see the High-Detail Colleges and Schools Matrix in [Appendix A](#).

THE PENNSYLVANIA STATE UNIVERSITY

BACKGROUND DATA

Main Campus	University Park, Pennsylvania
Research Expenditures	\$949,679,000
Student FTE	41,592
Faculty FTE	3,619
Staff FTE	2,915
Student HC	46,723
Faculty HC	-
Staff HC	-
Benchmarking Term	Fall 2021

ACADEMIC PORTFOLIO ALIGNMENT

	NC State	The Pennsylvania State University
College of Agriculture and Life Sciences		
College of Design		
College of Education		
College of Engineering		
College of Humanities and Social Sciences		
College of Natural Resources		
College of Sciences		
College of Veterinary Medicine		
Poole College of Management		
University College		
Wilson College of Textiles		

Note: To see full list of academic portfolio similarities, see the *High-Detail Colleges and Schools Matrix* in [Appendix A](#).

PURDUE UNIVERSITY

BACKGROUND DATA		ACADEMIC PORTFOLIO ALIGNMENT	
Main Campus	West Lafayette, Indiana	NC State	Purdue University
Research Expenditures	\$410,711,606	College of Agriculture and Life Sciences	
Student FTE	35,745	College of Design	
Faculty FTE	1,835	College of Education	
Staff FTE	-	College of Engineering	
Student HC	44,008	College of Humanities and Social Sciences	
Faculty HC	2,865	College of Natural Resources	
Staff HC	3,347	College of Sciences	
Benchmarking Term	Fall 2020	College of Veterinary Medicine	
		Poole College of Management	
		University College	
		Wilson College of Textiles	













Note: To see full list of academic portfolio similarities, see the [High-Detail Colleges and Schools Matrix in Appendix A.](#)

RHODE ISLAND SCHOOL OF DESIGN

BACKGROUND DATA

Main Campus	Providence, Rhode Island
Research Expenditures	\$568,779
Student FTE	2,578
Faculty FTE	287
Staff FTE	622
Student HC	2,555
Faculty HC	-
Staff HC	637
Benchmarking Term	Fall 2021

ACADEMIC PORTFOLIO ALIGNMENT

	NC State	Rhode Island School of Design
College of Agriculture and Life Sciences		
College of Design		
College of Education		
College of Engineering		
College of Humanities and Social Sciences		
College of Natural Resources		
College of Sciences		
College of Veterinary Medicine		
Poole College of Management		
University College		
Wilson College of Textiles		

Note: To see full list of academic portfolio similarities, see the *High-Detail Colleges and Schools Matrix* in [Appendix A](#).

RUTGERS UNIVERSITY -NEW BRUNSWICK

BACKGROUND DATA		ACADEMIC PORTFOLIO ALIGNMENT	
		NC State	Rutgers University
Main Campus	New Brunswick, New Jersey		
Research Expenditures	\$657,249,000		
Student FTE	44,524		
Faculty FTE	3,716		
Staff FTE	11,644		
Student HC	49,517		
Faculty HC	-		
Staff HC	-		
Benchmarking Term	Fall 2021		
		College of Agriculture and Life Sciences	
		College of Design	
		College of Education	
		College of Engineering	
		College of Humanities and Social Sciences	
		College of Natural Resources	
		College of Sciences	
		College of Veterinary Medicine	
		Poole College of Management	
		University College	
		Wilson College of Textiles	


















Note: To see full list of academic portfolio similarities, see the [High-Detail Colleges and Schools Matrix in Appendix A.](#)

THE OHIO STATE UNIVERSITY

BACKGROUND DATA

Main Campus	Columbus, Ohio
Research Expenditures	\$550,938,050
Student FTE	57,132
Faculty FTE	2,700
Staff FTE	-
Student HC	62,303
Faculty HC	3,546
Staff HC	29,004
Benchmarking Term	Fall 2020

ACADEMIC PORTFOLIO ALIGNMENT

	NC State	The Ohio State University
College of Agriculture and Life Sciences		
College of Design		
College of Education		
College of Engineering		
College of Humanities and Social Sciences		
College of Natural Resources		
College of Sciences		
College of Veterinary Medicine		
Poole College of Management		
University College		
Wilson College of Textiles		




















Note: The Ohio State University School of Health & Rehabilitation Sciences, School of Environment & Natural Resources, and the Austin E. Knowlton School of Architecture are schools within other colleges. The level of data provided by the institution for these schools did not allow for deeper analysis. To see full list of academic portfolio similarities, see the *High-Detail Colleges and Schools Matrix* in [Appendix A.](#)

UNIVERSITY OF ARIZONA

BACKGROUND DATA

Main Campus	Tucson, Arizona
Research Expenditures	\$687,065,716
Student FTE	39,313
Faculty FTE	865
Staff FTE	-
Student HC	45,918
Faculty HC	1,042
Staff HC	1,763
Benchmarking Term	Fall 2020

ACADEMIC PORTFOLIO ALIGNMENT

	NC State	University of Arizona
College of Agriculture and Life Sciences		
College of Design		
College of Education		
College of Engineering		
College of Humanities and Social Sciences		
College of Natural Resources		
College of Sciences		
College of Veterinary Medicine		
Poole College of Management		
University College		
Wilson College of Textiles		



















Note: To see full list of academic portfolio similarities, see the [High-Detail Colleges and Schools Matrix](#) in [Appendix A](#).

UNIVERSITY OF CALIFORNIA – DAVIS

BACKGROUND DATA

Main Campus	Davis, California
Research Expenditures	\$832,307,089
Student FTE	37,948
Faculty FTE	1,598
Staff FTE	22,525
Student HC	39,071
Faculty HC	-
Staff HC	23,810
Benchmarking Term	2020-21



















ACADEMIC PORTFOLIO ALIGNMENT

	NC State	University of California-Davis
College of Agriculture and Life Sciences		
College of Design		
College of Education		
College of Engineering		
College of Humanities and Social Sciences		
College of Natural Resources		
College of Sciences		
College of Veterinary Medicine		
Poole College of Management		
University College		
Wilson College of Textiles		

Note: To see full list of academic portfolio similarities, see the *High-Detail Colleges and Schools Matrix* in [Appendix A](#).

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

BACKGROUND DATA	
Main Campus	Champaign, Illinois
Research Expenditures	\$677,523,000
Student FTE	48,675
Faculty FTE	3,191
Staff FTE	11,032
Student HC	51,189
Faculty HC	-
Staff HC	-
Benchmarking Term	Fall 2020

ACADEMIC PORTFOLIO ALIGNMENT	NC State	University of Illinois at Urbana-Champaign
College of Agriculture and Life Sciences		
College of Design		
College of Education		
College of Engineering		
College of Humanities and Social Sciences		
College of Natural Resources		
College of Sciences		
College of Veterinary Medicine		
Poole College of Management		
University College		
Wilson College of Textiles		

















Note: To see full list of academic portfolio similarities, see the High-Detail Colleges and Schools Matrix in [Appendix A](#).

UNIVERSITY OF OREGON

BACKGROUND DATA

Main Campus	Eugene, Oregon
Research Expenditures	\$110,664,000
Student FTE	22,143
Faculty FTE	-
Staff FTE	-
Student HC	22,980
Faculty HC	1,536
Staff HC	-
Benchmarking Term	Fall 2018


















ACADEMIC PORTFOLIO ALIGNMENT

	NC State	University of Oregon
College of Agriculture and Life Sciences		
College of Design		
College of Education		
College of Engineering		
College of Humanities and Social Sciences		
College of Natural Resources		
College of Sciences		
College of Veterinary Medicine		
Poole College of Management		
University College		
Wilson College of Textiles		

Note: To see full list of academic portfolio similarities, see the *High-Detail Colleges and Schools Matrix* in [Appendix A](#).

UNIVERSITY OF WISCONSIN-MADISON

BACKGROUND DATA	
Main Campus	Madison, Wisconsin
Research Expenditures	\$1,297,331,000
Student FTE	39,308
Faculty FTE	2,009
Staff FTE	-
Student HC	42,101
Faculty HC	-
Staff HC	16,260
Benchmarking Term	Fall 2020

ACADEMIC PORTFOLIO ALIGNMENT	NC State	University of Wisconsin-Madison
College of Agriculture and Life Sciences		
College of Design		
College of Education		
College of Engineering		
College of Humanities and Social Sciences		
College of Natural Resources		
College of Sciences		
College of Veterinary Medicine		
Poole College of Management		
University College		
Wilson College of Textiles		

Note: To see full list of academic portfolio similarities, see the High-Detail Colleges and Schools Matrix in [Appendix A](#).

ANONYMOUS A

















BACKGROUND DATA

Main Campus	N/A
Research Expenditures	\$1,000,000,000 *
Student FTE	32,000
Faculty FTE	-
Staff FTE	-
Student HC	44,000
Faculty HC	5,000
Staff HC	4,000
Benchmarking Term	Fall 2021

Note: Some information has been omitted or rounded to retain anonymity.

* This was for the most recent available data which was 2020.

ACADEMIC PORTFOLIO ALIGNMENT

	NC State	Anonymous A
College of Agriculture and Life Sciences		
College of Design		
College of Education		
College of Engineering		
College of Humanities and Social Sciences		
College of Natural Resources		
College of Sciences		
College of Veterinary Medicine		
Poole College of Management		
University College		
Wilson College of Textiles		



















Note: To see full list of academic portfolio similarities, see the *High-Detail Colleges and Schools Matrix* in [Appendix A](#).

ANONYMOUS

B

BACKGROUND DATA	
Main Campus	N/A
Research Expenditures	\$300,000,000
Student FTE	32,000
Faculty FTE	1,300
Staff FTE	-
Student HC	33,000
Faculty HC	500
Staff HC	3,000
Benchmarking Term	Fall 2020

Note: Some information has been omitted or rounded to retain anonymity.

ACADEMIC PORTFOLIO ALIGNMENT		NC State	Anonymous B
College of Agriculture and Life Sciences			
College of Design			
College of Education			
College of Engineering			
College of Humanities and Social Sciences			
College of Natural Resources			
College of Sciences			
College of Veterinary Medicine			
Poole College of Management			
University College			
Wilson College of Textiles			

Note: To see full list of academic portfolio similarities, see the High-Detail Colleges and Schools Matrix in [Appendix A](#).

Appendix-B

NC STATE UNIVERSITY • MAIN CAMPUS WAKE COUNTY

Classroom Utilization Analysis by Building Precinct

Fall 2021

Room ID	Space Use Code	Assignable Sq. Ft.	No. of Stations	Assignable Sq. Ft. Per Station	Average Enrollment	Weekly Student Contact Hours	Weekly Seat Hours	Weekly Room Hours	Seat Fill Rate
Centennial Campus									No. of Rooms = 39
Engineering Building I (EB1)									No. of Rooms = 5
EB1 1005	110	1,234	64	19	35	1,204	18.8	35.0	54%
EB1 1007	110	1,981	92	22	61	1,957	21.3	32.6	65%
EB1 1010	110	1,072	43	25	21	554	12.9	27.0	48%
EB1 1011	110	2,708	123	22	79	2,969	24.1	38.0	64%
EB1 2015	110	841	40	21	20	483	12.1	24.0	50%
Average		1,567	72	21.6	43		19.8	31.3	57%
Total		7,836	362			7,167		156.6	
Engineering Building II (EB2)									No. of Rooms = 10
EB2 1021	110	2,170	116	19	76	3,373	29.1	45.0	65%
EB2 1025	110	3,732	211	18	109	4,264	20.2	40.6	50%
EB2 1212	110	533	24	22	10	201	8.4	21.0	40%
EB2 1220	110	911	34	27	16	476	14.0	32.0	44%
EB2 1226	110	999	45	22	31	1,155	25.7	38.0	68%
EB2 1227	110	480	20	24	12	204	10.2	16.0	64%
EB2 1228	110	1,014	45	23	25	900	20.0	36.0	56%
EB2 1229	110	997	42	24	26	887	21.1	36.0	59%
EB2 1230	110	1,249	85	15	37	1,431	16.8	39.0	43%
EB2 1231	110	3,064	162	19	87	3,421	21.1	41.0	52%
Average		1,515	78	19.3	43		20.8	34.5	54%
Total		15,147	784			16,312		344.6	
Engineering Building III (EB3)									No. of Rooms = 7
EB3 2124	110	3,065	126	24	74	3,339	26.5	45.0	59%
EB3 2201	110	1,733	90	19	60	2,358	26.2	39.0	67%
EB3 2207	110	1,789	92	19	44	1,704	18.5	39.0	47%
EB3 2220	110	803	33	24	13	380	11.5	31.0	37%
EB3 2232	110	1,036	52	20	31	1,047	20.1	35.5	57%
EB3 2236	110	968	47	21	20	587	12.5	31.0	40%
EB3 2240	110	1,066	52	21	32	1,054	20.3	34.0	60%
Average		1,494	70	21.3	39		21.3	36.4	53%
Total		10,460	492			10,469		254.5	
Fitts-Woolard Hall									No. of Rooms = 6
FWH 2115	110	797	45	18	23	581	12.9	25.0	52%
FWH 2121	110	672	31	22	13	312	10.1	24.0	42%
FWH 2321	110	1,454	70	21	50	1,832	26.2	35.5	74%
FWH 2331	110	1,755	82	21	58	2,051	25.0	34.0	74%
FWH 2336	110	3,139	150	21	81	2,949	19.7	36.0	55%
FWH 2341	110	871	47	19	29	900	19.1	32.0	60%
Average		1,448	71	20.4	42		20.3	31.1	61%
Total		8,688	425			8,625		186.5	

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Fall 2021

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James B Hunt Jr Centennial Campus Library									No. of Rooms = 2
JHL 1103	110	4,500	393	11	188	5,421	13.8	30.0	46%
JHL 4106	110	1,511	90	17	60	1,992	22.1	33.0	67%
Average		3,005	242	12.4	124		15.3	31.5	57%
Total		6,011	483			7,413		63.0	
Monteith Engineering Res.Ctr. (MRC)									No. of Rooms = 1
MRC 313	110	1,187	48	25	23	555	11.6	24.0	48%
Textiles Complex									No. of Rooms = 8
TEX 2116	110	571	36	16	17	338	9.4	20.0	47%
TEX 2117	110	593	30	20	13	276	9.2	22.0	42%
TEX 2203	110	868	48	18	20	462	9.6	22.0	44%
TEX 2207	110	1,753	96	18	66	2,244	23.4	34.0	69%
TEX 2208	110	754	44	17	16	374	8.5	25.0	34%
TEX 2209	110	829	42	20	18	417	9.9	23.0	43%
TEX 2210	110	736	44	17	26	501	11.4	18.0	63%
TEX 2211	110	847	64	13	41	1,348	21.1	32.0	66%
Average		869	51	17.2	27		14.8	24.5	52%
Total		6,951	404			5,960		196.0	
Centennial Campus Summary									
Average		1,443	77	18.8	43		18.8	31.4	55%
Total		56,280	2,998			56,500		1,225.2	
Central Campus									No. of Rooms = 19
Biltmore Hall (Robertson Wing)									No. of Rooms = 5
BI 2006	110	590	30	20	20	340	11.3	19.0	60%
BI 2010	110	1,197	111	11	60	1,103	9.9	16.0	62%
BI 2102	110	463	31	15	14	222	7.2	15.0	48%
BI 2104	110	677	36	19	22	614	17.0	26.5	64%
BI 3018	110	805	49	16	31	1,093	22.3	35.5	63%
Average		747	51	14.5	30		13.1	22.4	61%
Total		3,733	257			3,371		112.0	
D. S. Weaver Labs									No. of Rooms = 3
DSW 123B	110	566	34	17	18	367	10.8	20.5	53%
DSW 143	110	390	21	19	11	116	5.5	11.0	50%
DSW 158	110	1,050	78	13	31	813	10.4	26.0	40%
Average		669	44	15.1	20		9.7	19.2	47%
Total		2,007	133			1,296		57.5	
Jordan Hall									No. of Rooms = 3
JOR 1108	110	921	59	16	33	853	14.5	26.0	56%
JOR 1109	110	551	27	20	12	186	6.9	15.0	46%
JOR 1112	110	537	24	22	14	404	16.8	28.0	60%

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Average		670	37	18.3	20		13.1	23.0	55%
Total		2,009	110			1,443		69.0	
Jordan Hall Addition									No. of Rooms = 3
JHA 1216	110	1,508	100	15	74	2,084	20.8	27.8	75%
JHA 1218	110	1,191	50	24	34	936	18.7	25.0	75%
JHA 1220	110	1,183	50	24	27	740	14.8	26.5	56%
Average		1,294	67	19.4	45		18.8	26.4	69%
Total		3,882	200			3,760		79.3	
Pulp & Paper Labs									No. of Rooms = 1
PPL 2221	110	820	49	17	40	1,102	22.5	28.5	79%
Schaub Food Science Building									No. of Rooms = 3
SFS 103	110	706	36	20	20	579	16.1	27.0	60%
SFS 105	110	1,270	95	13	36	893	9.4	24.5	38%
SFS 114	110	521	24	22	17	429	17.9	25.0	72%
Average		832	52	16.1	24		12.3	25.5	57%
Total		2,497	155			1,901		76.5	
Witherspoon Student Center									No. of Rooms = 1
WSC 117	110	4,591	455	10	276	6,219	13.7	23.0	59%
Central Campus Summary									
Average		1,028	72	14.4	42		14.0	23.5	60%
Total		19,538	1,359			19,091		445.8	
North Campus									No. of Rooms = 172
111 Lampe Drive									No. of Rooms = 13
LMP 214	110	963	48	20	37	855	17.8	24.0	74%
LMP 216	110	982	52	19	35	747	14.4	22.0	65%
LMP 218	110	1,502	84	18	64	1,347	16.0	21.0	76%
LMP 222	110	1,069	48	22	30	664	13.8	24.0	58%
LMP 232	110	624	33	19	13	459	13.9	36.0	39%
LMP 322	110	934	48	19	38	843	17.6	24.0	73%
LMP 327	110	1,576	90	18	14	365	4.1	26.0	16%
LMP 331	110	794	40	20	17	293	7.3	17.0	43%
LMP 334	110	1,036	48	22	36	790	16.5	22.0	75%
LMP 341	110	1,394	64	22	46	1,129	17.6	25.0	71%
LMP 353	110	1,216	60	20	43	679	11.3	17.0	67%
LMP 371	110	1,113	60	19	43	1,009	16.8	23.0	73%
LMP 434	110	1,700	134	13	98	2,792	20.8	28.0	74%
Average		1,146	62	18.4	39		14.8	23.8	61%
Total		14,904	809			11,972		309.0	
1911 Bldg									No. of Rooms = 3
NIN 111	110	829	43	19	25	907	21.1	35.0	60%

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NIN 124	110	829	41	20	25	946	23.1	38.0	61%
NIN 125	110	401	17	24	11	312	18.4	28.5	64%
Average		687	34	20.4	20		21.4	33.8	62%
Total		2,060	101			2,165		101.5	
Bostian Hall									No. of Rooms = 2
BOS 2722	110	1,455	142	10	94	3,113	21.9	34.0	64%
BOS 3712	110	2,475	250	10	188	5,995	24.0	32.0	75%
Average		1,965	196	10.0	141		23.2	33.0	70%
Total		3,930	392			9,108		66.0	
Brooks Hall									No. of Rooms = 3
BS 300	110	561	32	18	16	235	7.3	14.0	52%
BS 303	110	266	16	17	9	138	8.6	15.0	58%
BS 318	110	1,084	56	19	28	852	15.2	30.0	51%
Average		637	35	18.4	18		11.8	19.7	53%
Total		1,911	104			1,225		59.0	
Burlington Laboratory									No. of Rooms = 3
BU 1202	110	817	48	17	30	688	14.3	23.0	62%
BU 2111	110	361	15	24	10	171	11.4	17.0	67%
BU 3108	110	457	22	21	11	238	10.8	22.0	49%
Average		545	28	19.2	17		12.9	20.7	59%
Total		1,635	85			1,097		62.0	
Caldwell Hall									No. of Rooms = 7
CAL 212	110	695	28	25	18	541	19.3	30.0	64%
CAL G106	110	686	42	16	29	874	20.8	30.0	69%
CAL G107	110	1,837	130	14	43	1,232	9.5	30.0	32%
CAL G108	110	653	32	20	20	563	17.6	28.0	63%
CAL G109	110	653	46	14	32	995	21.6	31.0	70%
CAL G110	110	633	36	18	22	589	16.4	27.0	61%
CAL G111	110	929	75	12	37	938	12.5	26.0	48%
Average		870	56	15.6	29		14.7	28.9	58%
Total		6,087	389			5,732		202.0	
Cox Hall									No. of Rooms = 5
COX 200	110	665	39	17	26	534	13.7	20.5	67%
COX 204	110	668	39	17	24	510	13.1	22.0	59%
COX 206	110	1,434	93	15	63	1,898	20.4	29.0	70%
COX 209	110	792	47	17	32	891	19.0	27.0	70%
COX 214	110	1,464	94	16	68	2,098	22.3	30.0	74%
Average		1,005	62	16.1	43		19.0	25.7	69%
Total		5,023	312			5,931		128.5	

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D.H. Hill Jr. Library (Erdahl-Cloyd West Wing)									No. of Rooms = 1
EC 2304	110	1,428	100	14	95	2,186	21.9	23.0	95%
Dabney Hall									No. of Rooms = 6
DAB 124	110	2,977	236	13	167	6,277	26.6	36.5	73%
DAB 220	110	966	77	13	28	711	9.2	26.0	35%
DAB 222	110	3,065	330	9	216	8,345	25.3	37.3	68%
DAB 330	110	648	35	19	19	474	13.5	23.0	59%
DAB 331	110	607	35	17	15	361	10.3	24.0	43%
DAB 623	110	604	29	21	15	449	15.5	28.0	55%
Average		1,478	124	11.9	77		22.4	29.1	57%
Total		8,867	742			16,617		174.8	
David Clark Labs									No. of Rooms = 2
DCL 101	110	1,886	120	16	85	2,652	22.1	31.0	71%
DCL 102	110	677	35	19	24	565	16.1	23.5	69%
Average		1,282	78	16.5	55		20.8	27.3	70%
Total		2,563	155			3,217		54.5	
Fox Science Teaching Laboratory									No. of Rooms = 6
FOX 104	110	1,594	60	27	43	1,000	16.7	24.0	69%
FOX 140	110	623	24	26	16	343	14.3	22.5	63%
FOX 204	110	784	37	21	31	996	26.9	32.0	84%
FOX 206	110	794	30	26	24	628	20.9	31.0	68%
FOX 304	110	784	30	26	25	735	24.5	31.0	79%
FOX 306	110	794	30	26	23	664	22.1	30.0	74%
Average		895	35	25.5	27		20.7	28.4	74%
Total		5,373	211			4,366		170.5	
Gardner Hall									No. of Rooms = 4
GA 2207	110	548	41	13	19	409	10.0	22.0	45%
GA 2211	110	1,091	86	13	36	535	6.2	15.0	41%
GA 2213	110	849	40	21	22	520	13.0	23.0	57%
GA 3214	110	703	35	20	26	315	9.0	12.0	75%
Average		798	51	15.8	26		8.8	18.0	53%
Total		3,191	202			1,779		72.0	
Kamphoefner Hall									No. of Rooms = 1
KAM G20	110	1,779	178	10	109	3,221	18.1	30.0	60%
Kilgore Hall									No. of Rooms = 2
KI 125	110	887	45	20	29	959	21.3	33.5	64%
KI 159	110	1,543	92	17	54	1,427	15.5	26.5	59%
Average		1,215	69	17.7	41		17.4	30.0	61%
Total		2,430	137			2,386		60.0	

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Leazar Hall									No. of Rooms = 1
LEZ 316	110	482	25	19	16	463	18.5	29.0	64%
Nelson Hall									No. of Rooms = 14
N 1120	110	1,246	50	25	43	1,464	29.3	35.0	84%
N 1130	110	1,323	54	25	38	1,135	21.0	33.3	63%
N 1140	110	1,199	46	26	31	1,089	23.7	35.0	68%
N 1150	110	1,293	47	28	29	1,358	28.9	44.0	66%
N 1206	110	652	38	17	20	480	12.6	28.0	45%
N 1212	110	967	47	21	36	1,175	25.0	30.5	82%
N 2210	110	1,221	51	24	39	1,480	29.0	38.0	76%
N 2402	110	837	47	18	33	1,101	23.4	32.0	73%
N 2403	110	726	32	23	20	345	10.8	17.5	62%
N 2405	110	1,282	90	14	75	2,391	26.6	31.0	86%
N 2406	110	934	47	20	34	1,083	23.0	30.0	77%
N 3210	110	1,211	54	22	38	1,302	24.1	34.5	70%
N 3400	110	5,193	394	13	258	9,276	23.5	36.0	65%
N 4210	110	1,133	51	22	35	1,290	25.3	35.0	72%
Average		1,373	75	18.3	52		23.8	32.8	71%
Total		19,216	1,048			24,968		459.8	
Park Shops									No. of Rooms = 5
PS 130	110	1,926	88	22	62	369	4.2	6.0	70%
PS 200	110	1,735	80	22	63	2,332	29.2	37.0	79%
PS 201	110	1,627	80	20	59	1,693	21.2	28.0	76%
PS 210	110	2,451	124	20	105	4,635	37.4	44.0	85%
PS 215	110	1,122	39	29	20	631	16.2	30.5	53%
Average		1,772	82	21.6	62		23.5	29.1	74%
Total		8,859	411			9,660		145.5	
Patterson Hall									No. of Rooms = 1
PT 208	110	555	27	21	14	391	14.5	27.0	54%
Poe Hall									No. of Rooms = 18
POE 202	110	1,120	52	22	7	55	1.1	9.0	12%
POE 209	110	553	25	22	16	485	19.4	32.0	61%
POE 211	110	549	28	20	15	455	16.3	30.8	53%
POE 214	110	553	28	20	17	708	25.3	41.0	62%
POE 216	110	2,227	208	11	162	3,741	18.0	23.0	78%
POE 218	110	829	55	15	29	919	16.7	29.4	57%
POE 220	110	807	30	27	21	705	23.5	33.0	71%
POE 224	110	549	26	21	14	485	18.7	35.0	53%
POE 228	110	544	30	18	16	546	18.2	32.0	57%
POE 312	110	945	35	27	21	626	17.9	27.0	66%
POE 320	110	1,124	41	27	20	620	15.1	31.0	49%
POE 420	110	832	44	19	39	1,299	29.5	33.0	89%
POE 422	110	621	27	23	15	453	16.8	29.5	57%
POE 424	110	747	40	19	36	1,284	32.1	35.0	92%

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POE 529	110	557	25	22	13	382	15.3	30.5	50%
POE 636	110	547	28	20	16	558	19.9	36.0	55%
POE 724	110	259	14	19	6	148	10.6	24.0	44%
POE 736	110	543	35	16	14	466	13.3	32.8	41%
Average		773	43	18.0	27		18.1	30.2	60%
Total		13,906	771			13,935		544.0	
Ricks Hall									No. of Rooms = 3
RI 105	110	850	40	21	18	440	11.0	24.0	46%
RI 113	110	927	46	20	33	689	15.0	22.0	68%
RI 117	110	344	18	19	10	65	3.6	7.0	52%
Average		707	35	20.4	20		11.5	17.7	56%
Total		2,121	104			1,194		53.0	
Riddick Hall									No. of Rooms = 9
RD 301	110	2,310	148	16	109	4,091	27.6	36.5	76%
RD 314	110	780	31	25	13	323	10.4	25.0	42%
RD 315	110	907	60	15	35	1,261	21.0	36.0	58%
RD 321	110	1,641	115	14	78	2,977	25.9	38.0	68%
RD 325	110	1,117	89	13	45	1,272	14.3	27.0	53%
RD 339	110	838	42	20	24	531	12.6	24.0	53%
RD 450	110	1,118	88	13	43	1,116	12.7	27.5	46%
RD 451	110	1,654	107	15	72	3,012	28.1	39.0	72%
RD 461	110	727	29	25	16	382	13.2	23.0	57%
Average		1,232	79	15.6	48		21.1	30.7	60%
Total		11,092	709			14,965		276.0	
SAS Hall									No. of Rooms = 11
SAS 1102	110	1,974	90	22	60	2,361	26.2	39.0	67%
SAS 1108	110	960	40	24	34	1,135	28.4	35.5	80%
SAS 1216	110	1,368	56	24	34	1,101	19.7	34.0	58%
SAS 1218	110	693	27	26	14	550	20.4	37.0	55%
SAS 1220	110	709	27	26	17	538	19.9	32.8	61%
SAS 2102	110	946	40	24	30	1,009	25.2	35.0	72%
SAS 2106	110	960	44	22	31	1,054	24.0	34.0	70%
SAS 2203	110	2,665	250	11	177	5,943	23.8	33.0	72%
SAS 2225	110	1,175	48	24	33	1,089	22.7	34.0	67%
SAS 2229	110	1,225	48	26	31	926	19.3	30.0	64%
SAS 2235	110	1,269	52	24	34	963	18.5	30.0	62%
Average		1,268	66	19.3	45		23.1	34.0	66%
Total		13,943	722			16,669		374.3	
Scott Hall									No. of Rooms = 1
SC 106	110	806	53	15	31	879	16.6	29.0	57%
Tompkins Hall									No. of Rooms = 18
T 109	110	595	22	27	18	723	32.9	39.0	84%

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T 112	110	756	24	32	18	464	19.3	26.0	74%
T 123	110	942	65	14	40	1,188	18.3	30.0	61%
T 125	110	779	24	32	19	760	31.7	40.0	79%
T 126	110	714	21	34	16	651	31.0	39.0	79%
T 128	110	591	24	25	18	683	28.5	38.0	75%
T 129	110	589	24	25	17	582	24.3	34.0	71%
T G109	110	638	45	14	24	648	14.4	27.0	53%
T G110	110	508	22	23	19	735	33.4	39.0	86%
T G112	110	884	48	18	29	849	17.7	29.3	60%
T G113	110	558	33	17	18	579	17.5	33.0	53%
T G115	110	474	30	16	19	687	22.9	36.0	64%
T G117	110	558	27	21	16	633	23.4	40.5	58%
T G118	110	942	48	20	29	789	16.4	27.0	61%
T G121	110	563	22	26	19	760	34.5	40.0	86%
T G123	110	752	40	19	27	804	20.1	30.0	67%
T G125	110	581	24	24	16	566	23.6	36.5	65%
T G126	110	759	31	24	17	641	20.7	38.0	54%
Average		677	32	21.2	21		22.2	34.6	69%
Total		12,183	574			12,742		622.3	
Williams Hall									No. of Rooms = 5
WMS 1404	110	1,121	85	13	55	1,750	20.6	31.0	66%
WMS 2104	110	854	48	18	20	570	11.9	29.0	41%
WMS 2112	110	511	24	21	12	331	13.8	28.0	49%
WMS 2215	110	2,209	199	11	110	3,729	18.7	33.0	57%
WMS 2312	110	829	47	18	27	905	19.3	34.0	57%
Average		1,105	81	13.7	45		18.1	31.0	54%
Total		5,524	403			7,285		155.0	
Winston Hall									No. of Rooms = 16
WN 1	110	589	30	20	23	674	22.5	28.0	80%
WN 110	110	521	40	13	25	534	13.4	21.0	64%
WN 114	110	584	43	14	23	824	19.2	36.0	53%
WN 12	110	404	25	16	19	564	22.6	30.0	75%
WN 129	110	576	40	14	23	860	21.5	37.5	57%
WN 131	110	715	40	18	20	354	8.9	18.0	49%
WN 17	110	408	16	26	10	375	23.4	40.0	59%
WN 2	110	442	22	20	18	741	33.7	42.0	80%
WN 20	110	461	28	16	19	717	25.6	38.5	66%
WN 205	110	521	27	19	16	678	25.1	42.0	60%
WN 209	110	521	29	18	20	663	22.9	33.0	69%
WN 213	110	472	27	17	16	557	20.6	35.0	59%
WN 29	110	1,099	80	14	53	1,746	21.8	33.0	66%
WN 3	110	536	24	22	18	645	26.9	36.0	75%
WN 4	110	607	32	19	22	772	24.1	35.0	69%
WN 5	110	406	24	17	16	657	27.4	42.0	65%
Average		554	33	16.8	21		21.6	34.2	66%
Total		8,863	527			11,360		547.0	

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Withers Hall									No. of Rooms = 12
WI 105	110	857	40	21	22	641	16.0	27.0	59%
WI 110	110	635	27	24	16	741	27.4	45.0	61%
WI 115	110	785	36	22	25	891	24.8	36.0	69%
WI 120	110	935	48	19	46	1,365	28.4	30.0	95%
WI 125	110	837	40	21	8	88	2.2	11.0	20%
WI 130	110	642	25	26	17	709	28.4	44.0	64%
WI 135	110	778	26	30	14	669	25.7	48.0	54%
WI 140	110	1,708	70	24	56	1,524	21.8	27.0	81%
WI 145	110	657	24	27	14	677	28.2	50.0	56%
WI 150	110	789	36	22	25	958	26.6	38.0	70%
WI 160	110	799	36	22	24	769	21.4	32.0	67%
WI 232A	110	3,567	291	12	135	5,120	17.6	36.0	49%
Average		1,082	58	18.6	33		20.2	35.3	63%
Total		12,988	699			14,152		424.0	
North Campus Summary									
Average		998	58	17.2	37		20.0	30.2	64%
Total		171,718	9,990			199,663		5,198.7	
West Campus									No. of Rooms = 5
CVM Main Building									No. of Rooms = 5
VET B112	110	1,981	112	18	75	150	1.3	2.0	67%
VET C120	110	1,929	104	19	51	305	2.9	5.0	59%
VET D232	110	387	20	19	0	0	0.0	0.0	0%
VET D236	110	1,030	65	16	0	0	0.0	0.0	0%
VET D239	110	2,016	100	20	0	0	0.0	0.0	0%
West Campus Summary									
Average		1,469	80	18.3	25		1.1	1.4	61%
Total		7,344	401			455		7.0	
CAMPUS									
AVERAGE		1,085	63	17.3	38		18.7	29.3	62%
TOTAL		254,881	14,748			275,709		6,876.7	
NO. OF ROOMS		235							

Appendix-C

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Classroom Utilization Analysis by Building

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111 Lampe Drive										No. of Rooms = 13	
LMP 214	110	963	48	20	37	855	17.8	24.0	1,728	0.49	74%
LMP 216	110	982	52	19	35	747	14.4	22.0	1,872	0.4	65%
LMP 218	110	1,502	84	18	64	1,347	16.0	21.0	3,024	0.45	76%
LMP 222	110	1,069	48	22	30	664	13.8	24.0	1,728	0.38	58%
LMP 232	110	624	33	19	13	459	13.9	36.0	1,188	0.39	39%
LMP 322	110	934	48	19	38	843	17.6	24.0	1,728	0.49	73%
LMP 327	110	1,576	90	18	14	365	4.1	26.0	3,240	0.11	16%
LMP 331	110	794	40	20	17	293	7.3	17.0	1,440	0.2	43%
LMP 334	110	1,036	48	22	36	790	16.5	22.0	1,728	0.46	75%
LMP 341	110	1,394	64	22	46	1,129	17.6	25.0	2,304	0.49	71%
LMP 353	110	1,216	60	20	43	679	11.3	17.0	2,160	0.31	67%
LMP 371	110	1,113	60	19	43	1,009	16.8	23.0	2,160	0.47	73%
LMP 434	110	1,700	134	13	98	2,792	20.8	28.0	4,824	0.58	74%
Average		1,146	62	18.4 *	39		14.8	23.8		0.41	61%
Total		14,904	809			11,972		309.0			
1911 Bldg										No. of Rooms = 3	
NIN 111	110	829	43	19	25	907	21.1	35.0	1,548	0.59	60%
NIN 124	110	829	41	20	25	946	23.1	38.0	1,476	0.64	61%
NIN 125	110	401	17	24	11	312	18.4	28.5	612	0.51	64%
Average		687	34	20.4 *	20		21.4	33.8		0.6	62%
Total		2,060	101			2,165		101.5			
Biltmore Hall (Robertson Wing)										No. of Rooms = 5	
BI 2006	110	590	30	20	20	340	11.3	19.0	1,080	0.31	60%
BI 2010	110	1,197	111	11	60	1,103	9.9	16.0	3,996	0.28	62%
BI 2102	110	463	31	15	14	222	7.2	15.0	1,116	0.2	48%
BI 2104	110	677	36	19	22	614	17.0	26.5	1,296	0.47	64%
BI 3018	110	805	49	16	31	1,093	22.3	35.5	1,764	0.62	63%
Average		747	51	14.5 *	30		13.1	22.4		0.36	61%
Total		3,733	257			3,371		112.0			
Bostian Hall										No. of Rooms = 2	
BOS 2722	110	1,455	142	10	94	3,113	21.9	34.0	5,112	0.61	64%
BOS 3712	110	2,475	250	10	188	5,995	24.0	32.0	9,000	0.67	75%
Average		1,965	196	10.0 *	141		23.2	33.0		0.65	70%
Total		3,930	392			9,108		66.0			
Brooks Hall										No. of Rooms = 3	
BS 300	110	561	32	18	16	235	7.3	14.0	1,152	0.2	52%
BS 303	110	266	16	17	9	138	8.6	15.0	576	0.24	58%
BS 318	110	1,084	56	19	28	852	15.2	30.0	2,016	0.42	51%
Average		637	35	18.4 *	18		11.8	19.7		0.33	53%
Total		1,911	104			1,225		59.0			

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Burlington Laboratory										No. of Rooms = 3	
BU 1202	110	817	48	17	30	688	14.3	23.0	1,728	0.4	62%
BU 2111	110	361	15	24	10	171	11.4	17.0	540	0.32	67%
BU 3108	110	457	22	21	11	238	10.8	22.0	792	0.3	49%
Average		545	28	19.2 *	17		12.9	20.7		0.36	59%
Total		1,635	85			1,097		62.0			
Caldwell Hall										No. of Rooms = 7	
CAL 212	110	695	28	25	18	541	19.3	30.0	1,008	0.54	64%
CAL G106	110	686	42	16	29	874	20.8	30.0	1,512	0.58	69%
CAL G107	110	1,837	130	14	43	1,232	9.5	30.0	4,680	0.26	32%
CAL G108	110	653	32	20	20	563	17.6	28.0	1,152	0.49	63%
CAL G109	110	653	46	14	32	995	21.6	31.0	1,656	0.6	70%
CAL G110	110	633	36	18	22	589	16.4	27.0	1,296	0.45	61%
CAL G111	110	929	75	12	37	938	12.5	26.0	2,700	0.35	48%
Average		870	56	15.6 *	29		14.7	28.9		0.41	58%
Total		6,087	389			5,732		202.0			
Cox Hall										No. of Rooms = 5	
COX 200	110	665	39	17	26	534	13.7	20.5	1,404	0.38	67%
COX 204	110	668	39	17	24	510	13.1	22.0	1,404	0.36	59%
COX 206	110	1,434	93	15	63	1,898	20.4	29.0	3,348	0.57	70%
COX 209	110	792	47	17	32	891	19.0	27.0	1,692	0.53	70%
COX 214	110	1,464	94	16	68	2,098	22.3	30.0	3,384	0.62	74%
Average		1,005	62	16.1 *	43		19.0	25.7		0.53	69%
Total		5,023	312			5,931		128.5			
CVM Main Building										No. of Rooms = 5	
VET B112	110	1,981	112	18	75	150	1.3	2.0	4,032	0.04	67%
VET C120	110	1,929	104	19	51	305	2.9	5.0	3,744	0.08	59%
VET D232	110	387	20	19	0	0	0.0	0.0	720	0	0%
VET D236	110	1,030	65	16	0	0	0.0	0.0	2,340	0	0%
VET D239	110	2,016	100	20	0	0	0.0	0.0	3,600	0	0%
Average		1,469	80	18.3 *	25		1.1	1.4		0.03	61%
Total		7,344	401			455		7.0			
D. S. Weaver Labs										No. of Rooms = 3	
DSW 123B	110	566	34	17	18	367	10.8	20.5	1,224	0.3	53%
DSW 143	110	390	21	19	11	116	5.5	11.0	756	0.15	50%
DSW 158	110	1,050	78	13	31	813	10.4	26.0	2,808	0.29	40%
Average		669	44	15.1 *	20		9.7	19.2		0.27	47%
Total		2,007	133			1,296		57.5			

* - Weighted Average using Group Totals

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D.H. Hill Jr. Library (Erdahl-Cloyd West Wing)										No. of Rooms = 1	
EC 2304	110	1,428	100	14	95	2,186	21.9	23.0	3,600	0.61	95%
Average		1,428	100	14.3 *	95		21.9	23.0		0.61	95%
Total		1,428	100			2,186		23.0			
Dabney Hall										No. of Rooms = 6	
DAB 124	110	2,977	236	13	167	6,277	26.6	36.5	8,496	0.74	73%
DAB 220	110	966	77	13	28	711	9.2	26.0	2,772	0.26	35%
DAB 222	110	3,065	330	9	216	8,345	25.3	37.3	11,880	0.7	68%
DAB 330	110	648	35	19	19	474	13.5	23.0	1,260	0.38	59%
DAB 331	110	607	35	17	15	361	10.3	24.0	1,260	0.29	43%
DAB 623	110	604	29	21	15	449	15.5	28.0	1,044	0.43	55%
Average		1,478	124	11.9 *	77		22.4	29.1		0.62	57%
Total		8,867	742			16,617		174.8			
David Clark Labs										No. of Rooms = 2	
DCL 101	110	1,886	120	16	85	2,652	22.1	31.0	4,320	0.61	71%
DCL 102	110	677	35	19	24	565	16.1	23.5	1,260	0.45	69%
Average		1,282	78	16.5 *	55		20.8	27.3		0.58	70%
Total		2,563	155			3,217		54.5			
Engineering Building I (EB1)										No. of Rooms = 5	
EB1 1005	110	1,234	64	19	35	1,204	18.8	35.0	2,304	0.52	54%
EB1 1007	110	1,981	92	22	61	1,957	21.3	32.6	3,312	0.59	65%
EB1 1010	110	1,072	43	25	21	554	12.9	27.0	1,548	0.36	48%
EB1 1011	110	2,708	123	22	79	2,969	24.1	38.0	4,428	0.67	64%
EB1 2015	110	841	40	21	20	483	12.1	24.0	1,440	0.34	50%
Average		1,567	72	21.6 *	43		19.8	31.3		0.55	57%
Total		7,836	362			7,167		156.6			
Engineering Building II (EB2)										No. of Rooms = 10	
EB2 1021	110	2,170	116	19	76	3,373	29.1	45.0	4,176	0.81	65%
EB2 1025	110	3,732	211	18	109	4,264	20.2	40.6	7,596	0.56	50%
EB2 1212	110	533	24	22	10	201	8.4	21.0	864	0.23	40%
EB2 1220	110	911	34	27	16	476	14.0	32.0	1,224	0.39	44%
EB2 1226	110	999	45	22	31	1,155	25.7	38.0	1,620	0.71	68%
EB2 1227	110	480	20	24	12	204	10.2	16.0	720	0.28	64%
EB2 1228	110	1,014	45	23	25	900	20.0	36.0	1,620	0.56	56%
EB2 1229	110	997	42	24	26	887	21.1	36.0	1,512	0.59	59%
EB2 1230	110	1,249	85	15	37	1,431	16.8	39.0	3,060	0.47	43%
EB2 1231	110	3,064	162	19	87	3,421	21.1	41.0	5,832	0.59	52%
Average		1,515	78	19.3 *	43		20.8	34.5		0.58	54%
Total		15,147	784			16,312		344.6			

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Engineering Building III (EB3)										No. of Rooms = 7	
EB3 2124	110	3,065	126	24	74	3,339	26.5	45.0	4,536	0.74	59%
EB3 2201	110	1,733	90	19	60	2,358	26.2	39.0	3,240	0.73	67%
EB3 2207	110	1,789	92	19	44	1,704	18.5	39.0	3,312	0.51	47%
EB3 2220	110	803	33	24	13	380	11.5	31.0	1,188	0.32	37%
EB3 2232	110	1,036	52	20	31	1,047	20.1	35.5	1,872	0.56	57%
EB3 2236	110	968	47	21	20	587	12.5	31.0	1,692	0.35	40%
EB3 2240	110	1,066	52	21	32	1,054	20.3	34.0	1,872	0.56	60%
Average		1,494	70	21.3 *	39		21.3	36.4		0.59	53%
Total		10,460	492			10,469		254.5			
Fitts-Woolard Hall										No. of Rooms = 6	
FWH 2115	110	797	45	18	23	581	12.9	25.0	1,620	0.36	52%
FWH 2121	110	672	31	22	13	312	10.1	24.0	1,116	0.28	42%
FWH 2321	110	1,454	70	21	50	1,832	26.2	35.5	2,520	0.73	74%
FWH 2331	110	1,755	82	21	58	2,051	25.0	34.0	2,952	0.69	74%
FWH 2336	110	3,139	150	21	81	2,949	19.7	36.0	5,400	0.55	55%
FWH 2341	110	871	47	19	29	900	19.1	32.0	1,692	0.53	60%
Average		1,448	71	20.4 *	42		20.3	31.1		0.56	61%
Total		8,688	425			8,625		186.5			
Fox Science Teaching Laboratory										No. of Rooms = 6	
FOX 104	110	1,594	60	27	43	1,000	16.7	24.0	2,160	0.46	69%
FOX 140	110	623	24	26	16	343	14.3	22.5	864	0.4	63%
FOX 204	110	784	37	21	31	996	26.9	32.0	1,332	0.75	84%
FOX 206	110	794	30	26	24	628	20.9	31.0	1,080	0.58	68%
FOX 304	110	784	30	26	25	735	24.5	31.0	1,080	0.68	79%
FOX 306	110	794	30	26	23	664	22.1	30.0	1,080	0.61	74%
Average		895	35	25.5 *	27		20.7	28.4		0.57	74%
Total		5,373	211			4,366		170.5			
Gardner Hall										No. of Rooms = 4	
GA 2207	110	548	41	13	19	409	10.0	22.0	1,476	0.28	45%
GA 2211	110	1,091	86	13	36	535	6.2	15.0	3,096	0.17	41%
GA 2213	110	849	40	21	22	520	13.0	23.0	1,440	0.36	57%
GA 3214	110	703	35	20	26	315	9.0	12.0	1,260	0.25	75%
Average		798	51	15.8 *	26		8.8	18.0		0.24	53%
Total		3,191	202			1,779		72.0			
James B Hunt Jr Centennial Campus Library										No. of Rooms = 2	
JHL 1103	110	4,500	393	11	188	5,421	13.8	30.0	14,148	0.38	46%
JHL 4106	110	1,511	90	17	60	1,992	22.1	33.0	3,240	0.61	67%
Average		3,005	242	12.4 *	124		15.3	31.5		0.43	57%
Total		6,011	483			7,413		63.0			

* - Weighted Average using Group Totals

NC STATE UNIVERSITY • MAIN CAMPUS WAKE COUNTY

Classroom Utilization Analysis by Building

Fall 2021

Room ID	Space Use Code	Assignable Sq. Ft.	No. of Stations	Assignable Sq. Ft. Per Station	Average Enrollment	Weekly Student Contact Hours	Weekly Seat Hours	Weekly Room Hours	WSCH Max (@36.0)	Utilization Ratio %	Seat Fill Rate
Jordan Hall										No. of Rooms = 3	
JOR 1108	110	921	59	16	33	853	14.5	26.0	2,124	0.4	56%
JOR 1109	110	551	27	20	12	186	6.9	15.0	972	0.19	46%
JOR 1112	110	537	24	22	14	404	16.8	28.0	864	0.47	60%
Average		670	37	18.3 *	20		13.1	23.0		0.36	55%
Total		2,009	110			1,443		69.0			
Jordan Hall Addition										No. of Rooms = 3	
JHA 1216	110	1,508	100	15	74	2,084	20.8	27.8	3,600	0.58	75%
JHA 1218	110	1,191	50	24	34	936	18.7	25.0	1,800	0.52	75%
JHA 1220	110	1,183	50	24	27	740	14.8	26.5	1,800	0.41	56%
Average		1,294	67	19.4 *	45		18.8	26.4		0.52	69%
Total		3,882	200			3,760		79.3			
Kamphoefner Hall										No. of Rooms = 1	
KAM G20	110	1,779	178	10	109	3,221	18.1	30.0	6,408	0.5	60%
Average		1,779	178	10.0 *	109		18.1	30.0		0.5	60%
Total		1,779	178			3,221		30.0			
Kilgore Hall										No. of Rooms = 2	
KI 125	110	887	45	20	29	959	21.3	33.5	1,620	0.59	64%
KI 159	110	1,543	92	17	54	1,427	15.5	26.5	3,312	0.43	59%
Average		1,215	69	17.7 *	41		17.4	30.0		0.48	61%
Total		2,430	137			2,386		60.0			
Leazar Hall										No. of Rooms = 1	
LEZ 316	110	482	25	19	16	463	18.5	29.0	900	0.51	64%
Average		482	25	19.3 *	16		18.5	29.0		0.51	64%
Total		482	25			463		29.0			
Monteith Engineering Res.Ctr. (MRC)										No. of Rooms = 1	
MRC 313	110	1,187	48	25	23	555	11.6	24.0	1,728	0.32	48%
Average		1,187	48	24.7 *	23		11.6	24.0		0.32	48%
Total		1,187	48			555		24.0			

* - Weighted Average using Group Totals

NC STATE UNIVERSITY • MAIN CAMPUS WAKE COUNTY

Classroom Utilization Analysis by Building

Fall 2021

Room ID	Space Use Code	Assignable Sq. Ft.	No. of Stations	Assignable Sq. Ft. Per Station	Average Enrollment	Weekly Student Contact Hours	Weekly Seat Hours	Weekly Room Hours	WSCH Max (@36.0)	Utilization Ratio %	Seat Fill Rate
Nelson Hall										No. of Rooms = 14	
N 1120	110	1,246	50	25	43	1,464	29.3	35.0	1,800	0.81	84%
N 1130	110	1,323	54	25	38	1,135	21.0	33.3	1,944	0.58	63%
N 1140	110	1,199	46	26	31	1,089	23.7	35.0	1,656	0.66	68%
N 1150	110	1,293	47	28	29	1,358	28.9	44.0	1,692	0.8	66%
N 1206	110	652	38	17	20	480	12.6	28.0	1,368	0.35	45%
N 1212	110	967	47	21	36	1,175	25.0	30.5	1,692	0.69	82%
N 2210	110	1,221	51	24	39	1,480	29.0	38.0	1,836	0.81	76%
N 2402	110	837	47	18	33	1,101	23.4	32.0	1,692	0.65	73%
N 2403	110	726	32	23	20	345	10.8	17.5	1,152	0.3	62%
N 2405	110	1,282	90	14	75	2,391	26.6	31.0	3,240	0.74	86%
N 2406	110	934	47	20	34	1,083	23.0	30.0	1,692	0.64	77%
N 3210	110	1,211	54	22	38	1,302	24.1	34.5	1,944	0.67	70%
N 3400	110	5,193	394	13	258	9,276	23.5	36.0	14,184	0.65	65%
N 4210	110	1,133	51	22	35	1,290	25.3	35.0	1,836	0.7	72%
Average		1,373	75	18.3 *	52		23.8	32.8		0.66	71%
Total		19,216	1,048			24,968		459.8			
Park Shops										No. of Rooms = 5	
PS 130	110	1,926	88	22	62	369	4.2	6.0	3,168	0.12	70%
PS 200	110	1,735	80	22	63	2,332	29.2	37.0	2,880	0.81	79%
PS 201	110	1,627	80	20	59	1,693	21.2	28.0	2,880	0.59	76%
PS 210	110	2,451	124	20	105	4,635	37.4	44.0	4,464	1.04	85%
PS 215	110	1,122	39	29	20	631	16.2	30.5	1,404	0.45	53%
Average		1,772	82	21.6 *	62		23.5	29.1		0.65	74%
Total		8,859	411			9,660		145.5			
Patterson Hall										No. of Rooms = 1	
PT 208	110	555	27	21	14	391	14.5	27.0	972	0.4	54%
Average		555	27	20.5 *	14		14.5	27.0		0.4	54%
Total		555	27			391		27.0			

* - Weighted Average using Group Totals

NC STATE UNIVERSITY • MAIN CAMPUS WAKE COUNTY

Classroom Utilization Analysis by Building

Fall 2021

Room ID	Space Use Code	Assignable Sq. Ft.	No. of Stations	Assignable Sq. Ft. Per Station	Average Enrollment	Weekly Student Contact Hours	Weekly Seat Hours	Weekly Room Hours	WSCH Max (@36.0)	Utilization Ratio %	Seat Fill Rate
Poe Hall										No. of Rooms = 18	
POE 202	110	1,120	52	22	7	55	1.1	9.0	1,872	0.03	12%
POE 209	110	553	25	22	16	485	19.4	32.0	900	0.54	61%
POE 211	110	549	28	20	15	455	16.3	30.8	1,008	0.45	53%
POE 214	110	553	28	20	17	708	25.3	41.0	1,008	0.7	62%
POE 216	110	2,227	208	11	162	3,741	18.0	23.0	7,488	0.5	78%
POE 218	110	829	55	15	29	919	16.7	29.4	1,980	0.46	57%
POE 220	110	807	30	27	21	705	23.5	33.0	1,080	0.65	71%
POE 224	110	549	26	21	14	485	18.7	35.0	936	0.52	53%
POE 228	110	544	30	18	16	546	18.2	32.0	1,080	0.51	57%
POE 312	110	945	35	27	21	626	17.9	27.0	1,260	0.5	66%
POE 320	110	1,124	41	27	20	620	15.1	31.0	1,476	0.42	49%
POE 420	110	832	44	19	39	1,299	29.5	33.0	1,584	0.82	89%
POE 422	110	621	27	23	15	453	16.8	29.5	972	0.47	57%
POE 424	110	747	40	19	36	1,284	32.1	35.0	1,440	0.89	92%
POE 529	110	557	25	22	13	382	15.3	30.5	900	0.42	50%
POE 636	110	547	28	20	16	558	19.9	36.0	1,008	0.55	55%
POE 724	110	259	14	19	6	148	10.6	24.0	504	0.29	44%
POE 736	110	543	35	16	14	466	13.3	32.8	1,260	0.37	41%
Average		773	43	18.0 *	27		18.1	30.2		0.5	60%
Total		13,906	771			13,935		544.0			
Pulp & Paper Labs										No. of Rooms = 1	
PPL 2221	110	820	49	17	40	1,102	22.5	28.5	1,764	0.62	79%
Average		820	49	16.7 *	40		22.5	28.5		0.62	79%
Total		820	49			1,102		28.5			
Ricks Hall										No. of Rooms = 3	
RI 105	110	850	40	21	18	440	11.0	24.0	1,440	0.31	46%
RI 113	110	927	46	20	33	689	15.0	22.0	1,656	0.42	68%
RI 117	110	344	18	19	10	65	3.6	7.0	648	0.1	52%
Average		707	35	20.4 *	20		11.5	17.7		0.32	56%
Total		2,121	104			1,194		53.0			
Riddick Hall										No. of Rooms = 9	
RD 301	110	2,310	148	16	109	4,091	27.6	36.5	5,328	0.77	76%
RD 314	110	780	31	25	13	323	10.4	25.0	1,116	0.29	42%
RD 315	110	907	60	15	35	1,261	21.0	36.0	2,160	0.58	58%
RD 321	110	1,641	115	14	78	2,977	25.9	38.0	4,140	0.72	68%
RD 325	110	1,117	89	13	45	1,272	14.3	27.0	3,204	0.4	53%
RD 339	110	838	42	20	24	531	12.6	24.0	1,512	0.35	53%
RD 450	110	1,118	88	13	43	1,116	12.7	27.5	3,168	0.35	46%
RD 451	110	1,654	107	15	72	3,012	28.1	39.0	3,852	0.78	72%
RD 461	110	727	29	25	16	382	13.2	23.0	1,044	0.37	57%
Average		1,232	79	15.6 *	48		21.1	30.7		0.59	60%
Total		11,092	709			14,965		276.0			

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Classroom Utilization Analysis by Building

Fall 2021

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SAS Hall										No. of Rooms = 11	
SAS 1102	110	1,974	90	22	60	2,361	26.2	39.0	3,240	0.73	67%
SAS 1108	110	960	40	24	34	1,135	28.4	35.5	1,440	0.79	80%
SAS 1216	110	1,368	56	24	34	1,101	19.7	34.0	2,016	0.55	58%
SAS 1218	110	693	27	26	14	550	20.4	37.0	972	0.57	55%
SAS 1220	110	709	27	26	17	538	19.9	32.8	972	0.55	61%
SAS 2102	110	946	40	24	30	1,009	25.2	35.0	1,440	0.7	72%
SAS 2106	110	960	44	22	31	1,054	24.0	34.0	1,584	0.67	70%
SAS 2203	110	2,665	250	11	177	5,943	23.8	33.0	9,000	0.66	72%
SAS 2225	110	1,175	48	24	33	1,089	22.7	34.0	1,728	0.63	67%
SAS 2229	110	1,225	48	26	31	926	19.3	30.0	1,728	0.54	64%
SAS 2235	110	1,269	52	24	34	963	18.5	30.0	1,872	0.51	62%
Average		1,268	66	19.3 *	45		23.1	34.0		0.64	66%
Total		13,943	722			16,669		374.3			
Schaub Food Science Building										No. of Rooms = 3	
SFS 103	110	706	36	20	20	579	16.1	27.0	1,296	0.45	60%
SFS 105	110	1,270	95	13	36	893	9.4	24.5	3,420	0.26	38%
SFS 114	110	521	24	22	17	429	17.9	25.0	864	0.5	72%
Average		832	52	16.1 *	24		12.3	25.5		0.34	57%
Total		2,497	155			1,901		76.5			
Scott Hall										No. of Rooms = 1	
SC 106	110	806	53	15	31	879	16.6	29.0	1,908	0.46	57%
Average		806	53	15.2 *	31		16.6	29.0		0.46	57%
Total		806	53			879		29.0			
Textiles Complex										No. of Rooms = 8	
TEX 2116	110	571	36	16	17	338	9.4	20.0	1,296	0.26	47%
TEX 2117	110	593	30	20	13	276	9.2	22.0	1,080	0.26	42%
TEX 2203	110	868	48	18	20	462	9.6	22.0	1,728	0.27	44%
TEX 2207	110	1,753	96	18	66	2,244	23.4	34.0	3,456	0.65	69%
TEX 2208	110	754	44	17	16	374	8.5	25.0	1,584	0.24	34%
TEX 2209	110	829	42	20	18	417	9.9	23.0	1,512	0.28	43%
TEX 2210	110	736	44	17	26	501	11.4	18.0	1,584	0.32	63%
TEX 2211	110	847	64	13	41	1,348	21.1	32.0	2,304	0.59	66%
Average		869	51	17.2 *	27		14.8	24.5		0.41	52%
Total		6,951	404			5,960		196.0			

* - Weighted Average using Group Totals

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Classroom Utilization Analysis by Building

Fall 2021

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Tompkins Hall										No. of Rooms = 18	
T 109	110	595	22	27	18	723	32.9	39.0	792	0.91	84%
T 112	110	756	24	32	18	464	19.3	26.0	864	0.54	74%
T 123	110	942	65	14	40	1,188	18.3	30.0	2,340	0.51	61%
T 125	110	779	24	32	19	760	31.7	40.0	864	0.88	79%
T 126	110	714	21	34	16	651	31.0	39.0	756	0.86	79%
T 128	110	591	24	25	18	683	28.5	38.0	864	0.79	75%
T 129	110	589	24	25	17	582	24.3	34.0	864	0.67	71%
T G109	110	638	45	14	24	648	14.4	27.0	1,620	0.4	53%
T G110	110	508	22	23	19	735	33.4	39.0	792	0.93	86%
T G112	110	884	48	18	29	849	17.7	29.3	1,728	0.49	60%
T G113	110	558	33	17	18	579	17.5	33.0	1,188	0.49	53%
T G115	110	474	30	16	19	687	22.9	36.0	1,080	0.64	64%
T G117	110	558	27	21	16	633	23.4	40.5	972	0.65	58%
T G118	110	942	48	20	29	789	16.4	27.0	1,728	0.46	61%
T G121	110	563	22	26	19	760	34.5	40.0	792	0.96	86%
T G123	110	752	40	19	27	804	20.1	30.0	1,440	0.56	67%
T G125	110	581	24	24	16	566	23.6	36.5	864	0.66	65%
T G126	110	759	31	24	17	641	20.7	38.0	1,116	0.57	54%
Average		677	32	21.2 *	21		22.2	34.6		0.62	69%
Total		12,183	574			12,742		622.3			
Williams Hall										No. of Rooms = 5	
WMS 1404	110	1,121	85	13	55	1,750	20.6	31.0	3,060	0.57	66%
WMS 2104	110	854	48	18	20	570	11.9	29.0	1,728	0.33	41%
WMS 2112	110	511	24	21	12	331	13.8	28.0	864	0.38	49%
WMS 2215	110	2,209	199	11	110	3,729	18.7	33.0	7,164	0.52	57%
WMS 2312	110	829	47	18	27	905	19.3	34.0	1,692	0.53	57%
Average		1,105	81	13.7 *	45		18.1	31.0		0.5	54%
Total		5,524	403			7,285		155.0			

* - Weighted Average using Group Totals

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Classroom Utilization Analysis by Building

Fall 2021

Room ID	Space Use Code	Assignable Sq. Ft.	No. of Stations	Assignable Sq. Ft. Per Station	Average Enrollment	Weekly Student Contact Hours	Weekly Seat Hours	Weekly Room Hours	WSCH Max (@36.0)	Utilization Ratio %	Seat Fill Rate
Winston Hall										No. of Rooms = 16	
WN 1	110	589	30	20	23	674	22.5	28.0	1,080	0.62	80%
WN 110	110	521	40	13	25	534	13.4	21.0	1,440	0.37	64%
WN 114	110	584	43	14	23	824	19.2	36.0	1,548	0.53	53%
WN 12	110	404	25	16	19	564	22.6	30.0	900	0.63	75%
WN 129	110	576	40	14	23	860	21.5	37.5	1,440	0.6	57%
WN 131	110	715	40	18	20	354	8.9	18.0	1,440	0.25	49%
WN 17	110	408	16	26	10	375	23.4	40.0	576	0.65	59%
WN 2	110	442	22	20	18	741	33.7	42.0	792	0.94	80%
WN 20	110	461	28	16	19	717	25.6	38.5	1,008	0.71	66%
WN 205	110	521	27	19	16	678	25.1	42.0	972	0.7	60%
WN 209	110	521	29	18	20	663	22.9	33.0	1,044	0.64	69%
WN 213	110	472	27	17	16	557	20.6	35.0	972	0.57	59%
WN 29	110	1,099	80	14	53	1,746	21.8	33.0	2,880	0.61	66%
WN 3	110	536	24	22	18	645	26.9	36.0	864	0.75	75%
WN 4	110	607	32	19	22	772	24.1	35.0	1,152	0.67	69%
WN 5	110	406	24	17	16	657	27.4	42.0	864	0.76	65%
Average		554	33	16.8 *	21		21.6	34.2		0.6	66%
Total		8,863	527			11,360		547.0			
Withers Hall										No. of Rooms = 12	
WI 105	110	857	40	21	22	641	16.0	27.0	1,440	0.45	59%
WI 110	110	635	27	24	16	741	27.4	45.0	972	0.76	61%
WI 115	110	785	36	22	25	891	24.8	36.0	1,296	0.69	69%
WI 120	110	935	48	19	46	1,365	28.4	30.0	1,728	0.79	95%
WI 125	110	837	40	21	8	88	2.2	11.0	1,440	0.06	20%
WI 130	110	642	25	26	17	709	28.4	44.0	900	0.79	64%
WI 135	110	778	26	30	14	669	25.7	48.0	936	0.71	54%
WI 140	110	1,708	70	24	56	1,524	21.8	27.0	2,520	0.6	81%
WI 145	110	657	24	27	14	677	28.2	50.0	864	0.78	56%
WI 150	110	789	36	22	25	958	26.6	38.0	1,296	0.74	70%
WI 160	110	799	36	22	24	769	21.4	32.0	1,296	0.59	67%
WI 232A	110	3,567	291	12	135	5,120	17.6	36.0	10,476	0.49	49%
Average		1,082	58	18.6 *	33		20.2	35.3		0.56	63%
Total		12,988	699			14,152		424.0			
Witherspoon Student Center										No. of Rooms = 1	
WSC 117	110	4,591	455	10	276	6,219	13.7	23.0	16,380	0.38	59%
Average		4,591	455	10.1 *	276		13.7	23.0		0.38	59%
Total		4,591	455			6,219		23.0			
AVERAGE		1,085	63	17.3 *	38		18.7	29.3		0.52	62%
TOTAL		254,881	14,748			275,709		6,876.7	530,928		
NO. OF ROOMS		235									

* - Weighted Average using Group Totals

Appendix-D

NC STATE UNIVERSITY • MAIN CAMPUS WAKE COUNTY

Classroom Utilization Analysis by Classroom Precinct

Fall 2021

Room ID	Space Use Code	Assignable Sq. Ft.	No. of Stations	Assignable Sq. Ft. Per Station	Average Enrollment	Weekly Student Contact Hours	Weekly Seat Hours	Weekly Room Hours	Seat Fill Rate
Brickyard									No. of Rooms = 38
111 Lampe Drive									No. of Rooms = 13
LMP 214	110	963	48	20	37	855	17.8	24.0	74%
LMP 216	110	982	52	19	35	747	14.4	22.0	65%
LMP 218	110	1,502	84	18	64	1,347	16.0	21.0	76%
LMP 222	110	1,069	48	22	30	664	13.8	24.0	58%
LMP 232	110	624	33	19	13	459	13.9	36.0	39%
LMP 322	110	934	48	19	38	843	17.6	24.0	73%
LMP 327	110	1,576	90	18	14	365	4.1	26.0	16%
LMP 331	110	794	40	20	17	293	7.3	17.0	43%
LMP 334	110	1,036	48	22	36	790	16.5	22.0	75%
LMP 341	110	1,394	64	22	46	1,129	17.6	25.0	71%
LMP 353	110	1,216	60	20	43	679	11.3	17.0	67%
LMP 371	110	1,113	60	19	43	1,009	16.8	23.0	73%
LMP 434	110	1,700	134	13	98	2,792	20.8	28.0	74%
Average		1,146	62	18.4	39		14.8	23.8	61%
Total		14,904	809			11,972		309.0	
Burlington Laboratory									No. of Rooms = 3
BU 1202	110	817	48	17	30	688	14.3	23.0	62%
BU 2111	110	361	15	24	10	171	11.4	17.0	67%
BU 3108	110	457	22	21	11	238	10.8	22.0	49%
Average		545	28	19.2	17		12.9	20.7	59%
Total		1,635	85			1,097		62.0	
Cox Hall									No. of Rooms = 5
COX 200	110	665	39	17	26	534	13.7	20.5	67%
COX 204	110	668	39	17	24	510	13.1	22.0	59%
COX 206	110	1,434	93	15	63	1,898	20.4	29.0	70%
COX 209	110	792	47	17	32	891	19.0	27.0	70%
COX 214	110	1,464	94	16	68	2,098	22.3	30.0	74%
Average		1,005	62	16.1	43		19.0	25.7	69%
Total		5,023	312			5,931		128.5	
D.H. Hill Jr. Library (Erdahl-Cloyd West Wing)									No. of Rooms = 1
EC 2304	110	1,428	100	14	95	2,186	21.9	23.0	95%
Dabney Hall									No. of Rooms = 6
DAB 124	110	2,977	236	13	167	6,277	26.6	36.5	73%
DAB 220	110	966	77	13	28	711	9.2	26.0	35%
DAB 222	110	3,065	330	9	216	8,345	25.3	37.3	68%
DAB 330	110	648	35	19	19	474	13.5	23.0	59%
DAB 331	110	607	35	17	15	361	10.3	24.0	43%
DAB 623	110	604	29	21	15	449	15.5	28.0	55%
Average		1,478	124	11.9	77		22.4	29.1	57%
Total		8,867	742			16,617		174.8	

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Patterson Hall									No. of Rooms = 1
PT 208	110	555	27	21	14	391	14.5	27.0	54%
Riddick Hall									No. of Rooms = 9
RD 301	110	2,310	148	16	109	4,091	27.6	36.5	76%
RD 314	110	780	31	25	13	323	10.4	25.0	42%
RD 315	110	907	60	15	35	1,261	21.0	36.0	58%
RD 321	110	1,641	115	14	78	2,977	25.9	38.0	68%
RD 325	110	1,117	89	13	45	1,272	14.3	27.0	53%
RD 339	110	838	42	20	24	531	12.6	24.0	53%
RD 450	110	1,118	88	13	43	1,116	12.7	27.5	46%
RD 451	110	1,654	107	15	72	3,012	28.1	39.0	72%
RD 461	110	727	29	25	16	382	13.2	23.0	57%
Average		1,232	79	15.6	48		21.1	30.7	60%
Total		11,092	709			14,965		276.0	
Brickyard Summary									
Average		1,145	73	15.6	47		19.1	26.3	62%
Total		43,503	2,784			53,159		1,000.3	
Cates Avenue									No. of Rooms = 1
Witherspoon Student Center									No. of Rooms = 1
WSC 117	110	4,591	455	10	276	6,219	13.7	23.0	59%
Centennial Campus									No. of Rooms = 39
Engineering Building I (EB1)									No. of Rooms = 5
EB1 1005	110	1,234	64	19	35	1,204	18.8	35.0	54%
EB1 1007	110	1,981	92	22	61	1,957	21.3	32.6	65%
EB1 1010	110	1,072	43	25	21	554	12.9	27.0	48%
EB1 1011	110	2,708	123	22	79	2,969	24.1	38.0	64%
EB1 2015	110	841	40	21	20	483	12.1	24.0	50%
Average		1,567	72	21.6	43		19.8	31.3	57%
Total		7,836	362			7,167		156.6	
Engineering Building II (EB2)									No. of Rooms = 10
EB2 1021	110	2,170	116	19	76	3,373	29.1	45.0	65%
EB2 1025	110	3,732	211	18	109	4,264	20.2	40.6	50%
EB2 1212	110	533	24	22	10	201	8.4	21.0	40%
EB2 1220	110	911	34	27	16	476	14.0	32.0	44%
EB2 1226	110	999	45	22	31	1,155	25.7	38.0	68%
EB2 1227	110	480	20	24	12	204	10.2	16.0	64%
EB2 1228	110	1,014	45	23	25	900	20.0	36.0	56%
EB2 1229	110	997	42	24	26	887	21.1	36.0	59%
EB2 1230	110	1,249	85	15	37	1,431	16.8	39.0	43%
EB2 1231	110	3,064	162	19	87	3,421	21.1	41.0	52%

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Average		1,515	78	19.3	43		20.8	34.5	54%
Total		15,147	784			16,312		344.6	
Engineering Building III (EB3)									No. of Rooms = 7
EB3 2124	110	3,065	126	24	74	3,339	26.5	45.0	59%
EB3 2201	110	1,733	90	19	60	2,358	26.2	39.0	67%
EB3 2207	110	1,789	92	19	44	1,704	18.5	39.0	47%
EB3 2220	110	803	33	24	13	380	11.5	31.0	37%
EB3 2232	110	1,036	52	20	31	1,047	20.1	35.5	57%
EB3 2236	110	968	47	21	20	587	12.5	31.0	40%
EB3 2240	110	1,066	52	21	32	1,054	20.3	34.0	60%
Average		1,494	70	21.3	39		21.3	36.4	53%
Total		10,460	492			10,469		254.5	
Fitts-Woolard Hall									No. of Rooms = 6
FWH 2115	110	797	45	18	23	581	12.9	25.0	52%
FWH 2121	110	672	31	22	13	312	10.1	24.0	42%
FWH 2321	110	1,454	70	21	50	1,832	26.2	35.5	74%
FWH 2331	110	1,755	82	21	58	2,051	25.0	34.0	74%
FWH 2336	110	3,139	150	21	81	2,949	19.7	36.0	55%
FWH 2341	110	871	47	19	29	900	19.1	32.0	60%
Average		1,448	71	20.4	42		20.3	31.1	61%
Total		8,688	425			8,625		186.5	
James B Hunt Jr Centennial Campus Library									No. of Rooms = 2
JHL 1103	110	4,500	393	11	188	5,421	13.8	30.0	46%
JHL 4106	110	1,511	90	17	60	1,992	22.1	33.0	67%
Average		3,005	242	12.4	124		15.3	31.5	57%
Total		6,011	483			7,413		63.0	
Monteith Engineering Res.Ctr. (MRC)									No. of Rooms = 1
MRC 313	110	1,187	48	25	23	555	11.6	24.0	48%
Textiles Complex									No. of Rooms = 8
TEX 2116	110	571	36	16	17	338	9.4	20.0	47%
TEX 2117	110	593	30	20	13	276	9.2	22.0	42%
TEX 2203	110	868	48	18	20	462	9.6	22.0	44%
TEX 2207	110	1,753	96	18	66	2,244	23.4	34.0	69%
TEX 2208	110	754	44	17	16	374	8.5	25.0	34%
TEX 2209	110	829	42	20	18	417	9.9	23.0	43%
TEX 2210	110	736	44	17	26	501	11.4	18.0	63%
TEX 2211	110	847	64	13	41	1,348	21.1	32.0	66%
Average		869	51	17.2	27		14.8	24.5	52%
Total		6,951	404			5,960		196.0	

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Centennial Campus Summary									
Average		1,443	77	18.8	43		18.8	31.4	55%
Total		56,280	2,998			56,500		1,225.2	
Court of NC									
								No. of Rooms = 98	
1911 Bldg									
								No. of Rooms = 3	
NIN 111	110	829	43	19	25	907	21.1	35.0	60%
NIN 124	110	829	41	20	25	946	23.1	38.0	61%
NIN 125	110	401	17	24	11	312	18.4	28.5	64%
Average		687	34	20.4	20		21.4	33.8	62%
Total		2,060	101			2,165		101.5	
Brooks Hall									
								No. of Rooms = 3	
BS 300	110	561	32	18	16	235	7.3	14.0	52%
BS 303	110	266	16	17	9	138	8.6	15.0	58%
BS 318	110	1,084	56	19	28	852	15.2	30.0	51%
Average		637	35	18.4	18		11.8	19.7	53%
Total		1,911	104			1,225		59.0	
Caldwell Hall									
								No. of Rooms = 7	
CAL 212	110	695	28	25	18	541	19.3	30.0	64%
CAL G106	110	686	42	16	29	874	20.8	30.0	69%
CAL G107	110	1,837	130	14	43	1,232	9.5	30.0	32%
CAL G108	110	653	32	20	20	563	17.6	28.0	63%
CAL G109	110	653	46	14	32	995	21.6	31.0	70%
CAL G110	110	633	36	18	22	589	16.4	27.0	61%
CAL G111	110	929	75	12	37	938	12.5	26.0	48%
Average		870	56	15.6	29		14.7	28.9	58%
Total		6,087	389			5,732		202.0	
Kamphoefner Hall									
								No. of Rooms = 1	
KAM G20	110	1,779	178	10	109	3,221	18.1	30.0	60%
Leazar Hall									
								No. of Rooms = 1	
LEZ 316	110	482	25	19	16	463	18.5	29.0	64%
Park Shops									
								No. of Rooms = 5	
PS 130	110	1,926	88	22	62	369	4.2	6.0	70%
PS 200	110	1,735	80	22	63	2,332	29.2	37.0	79%
PS 201	110	1,627	80	20	59	1,693	21.2	28.0	76%
PS 210	110	2,451	124	20	105	4,635	37.4	44.0	85%
PS 215	110	1,122	39	29	20	631	16.2	30.5	53%
Average		1,772	82	21.6	62		23.5	29.1	74%
Total		8,859	411			9,660		145.5	

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Poe Hall									No. of Rooms = 18
POE 202	110	1,120	52	22	7	55	1.1	9.0	12%
POE 209	110	553	25	22	16	485	19.4	32.0	61%
POE 211	110	549	28	20	15	455	16.3	30.8	53%
POE 214	110	553	28	20	17	708	25.3	41.0	62%
POE 216	110	2,227	208	11	162	3,741	18.0	23.0	78%
POE 218	110	829	55	15	29	919	16.7	29.4	57%
POE 220	110	807	30	27	21	705	23.5	33.0	71%
POE 224	110	549	26	21	14	485	18.7	35.0	53%
POE 228	110	544	30	18	16	546	18.2	32.0	57%
POE 312	110	945	35	27	21	626	17.9	27.0	66%
POE 320	110	1,124	41	27	20	620	15.1	31.0	49%
POE 420	110	832	44	19	39	1,299	29.5	33.0	89%
POE 422	110	621	27	23	15	453	16.8	29.5	57%
POE 424	110	747	40	19	36	1,284	32.1	35.0	92%
POE 529	110	557	25	22	13	382	15.3	30.5	50%
POE 636	110	547	28	20	16	558	19.9	36.0	55%
POE 724	110	259	14	19	6	148	10.6	24.0	44%
POE 736	110	543	35	16	14	466	13.3	32.8	41%
Average		773	43	18.0	27		18.1	30.2	60%
Total		13,906	771			13,935		544.0	
Ricks Hall									No. of Rooms = 3
RI 105	110	850	40	21	18	440	11.0	24.0	46%
RI 113	110	927	46	20	33	689	15.0	22.0	68%
RI 117	110	344	18	19	10	65	3.6	7.0	52%
Average		707	35	20.4	20		11.5	17.7	56%
Total		2,121	104			1,194		53.0	
SAS Hall									No. of Rooms = 11
SAS 1102	110	1,974	90	22	60	2,361	26.2	39.0	67%
SAS 1108	110	960	40	24	34	1,135	28.4	35.5	80%
SAS 1216	110	1,368	56	24	34	1,101	19.7	34.0	58%
SAS 1218	110	693	27	26	14	550	20.4	37.0	55%
SAS 1220	110	709	27	26	17	538	19.9	32.8	61%
SAS 2102	110	946	40	24	30	1,009	25.2	35.0	72%
SAS 2106	110	960	44	22	31	1,054	24.0	34.0	70%
SAS 2203	110	2,665	250	11	177	5,943	23.8	33.0	72%
SAS 2225	110	1,175	48	24	33	1,089	22.7	34.0	67%
SAS 2229	110	1,225	48	26	31	926	19.3	30.0	64%
SAS 2235	110	1,269	52	24	34	963	18.5	30.0	62%
Average		1,268	66	19.3	45		23.1	34.0	66%
Total		13,943	722			16,669		374.3	
Tompkins Hall									No. of Rooms = 18
T 109	110	595	22	27	18	723	32.9	39.0	84%
T 112	110	756	24	32	18	464	19.3	26.0	74%
T 123	110	942	65	14	40	1,188	18.3	30.0	61%

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T 125	110	779	24	32	19	760	31.7	40.0	79%
T 126	110	714	21	34	16	651	31.0	39.0	79%
T 128	110	591	24	25	18	683	28.5	38.0	75%
T 129	110	589	24	25	17	582	24.3	34.0	71%
T G109	110	638	45	14	24	648	14.4	27.0	53%
T G110	110	508	22	23	19	735	33.4	39.0	86%
T G112	110	884	48	18	29	849	17.7	29.3	60%
T G113	110	558	33	17	18	579	17.5	33.0	53%
T G115	110	474	30	16	19	687	22.9	36.0	64%
T G117	110	558	27	21	16	633	23.4	40.5	58%
T G118	110	942	48	20	29	789	16.4	27.0	61%
T G121	110	563	22	26	19	760	34.5	40.0	86%
T G123	110	752	40	19	27	804	20.1	30.0	67%
T G125	110	581	24	24	16	566	23.6	36.5	65%
T G126	110	759	31	24	17	641	20.7	38.0	54%
Average		677	32	21.2	21		22.2	34.6	69%
Total		12,183	574			12,742		622.3	

Winston Hall

No. of Rooms = 16

WN 1	110	589	30	20	23	674	22.5	28.0	80%
WN 110	110	521	40	13	25	534	13.4	21.0	64%
WN 114	110	584	43	14	23	824	19.2	36.0	53%
WN 12	110	404	25	16	19	564	22.6	30.0	75%
WN 129	110	576	40	14	23	860	21.5	37.5	57%
WN 131	110	715	40	18	20	354	8.9	18.0	49%
WN 17	110	408	16	26	10	375	23.4	40.0	59%
WN 2	110	442	22	20	18	741	33.7	42.0	80%
WN 20	110	461	28	16	19	717	25.6	38.5	66%
WN 205	110	521	27	19	16	678	25.1	42.0	60%
WN 209	110	521	29	18	20	663	22.9	33.0	69%
WN 213	110	472	27	17	16	557	20.6	35.0	59%
WN 29	110	1,099	80	14	53	1,746	21.8	33.0	66%
WN 3	110	536	24	22	18	645	26.9	36.0	75%
WN 4	110	607	32	19	22	772	24.1	35.0	69%
WN 5	110	406	24	17	16	657	27.4	42.0	65%
Average		554	33	16.8	21		21.6	34.2	66%
Total		8,863	527			11,360		547.0	

Withers Hall

No. of Rooms = 12

WI 105	110	857	40	21	22	641	16.0	27.0	59%
WI 110	110	635	27	24	16	741	27.4	45.0	61%
WI 115	110	785	36	22	25	891	24.8	36.0	69%
WI 120	110	935	48	19	46	1,365	28.4	30.0	95%
WI 125	110	837	40	21	8	88	2.2	11.0	20%
WI 130	110	642	25	26	17	709	28.4	44.0	64%
WI 135	110	778	26	30	14	669	25.7	48.0	54%
WI 140	110	1,708	70	24	56	1,524	21.8	27.0	81%
WI 145	110	657	24	27	14	677	28.2	50.0	56%
WI 150	110	789	36	22	25	958	26.6	38.0	70%

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WI 160	110	799	36	22	24	769	21.4	32.0	67%
WI 232A	110	3,567	291	12	135	5,120	17.6	36.0	49%
Average		1,082	58	18.6	33		20.2	35.3	63%
Total		12,988	699			14,152		424.0	
Court of NC Summary									
Average		869	47	18.5	30		20.1	32.0	64%
Total		85,181	4,605			92,517		3,131.6	
Gov Scott Courtyard									
								No. of Rooms = 36	
Bostian Hall									
								No. of Rooms = 2	
BOS 2722	110	1,455	142	10	94	3,113	21.9	34.0	64%
BOS 3712	110	2,475	250	10	188	5,995	24.0	32.0	75%
Average		1,965	196	10.0	141		23.2	33.0	70%
Total		3,930	392			9,108		66.0	
David Clark Labs									
								No. of Rooms = 2	
DCL 101	110	1,886	120	16	85	2,652	22.1	31.0	71%
DCL 102	110	677	35	19	24	565	16.1	23.5	69%
Average		1,282	78	16.5	55		20.8	27.3	70%
Total		2,563	155			3,217		54.5	
Fox Science Teaching Laboratory									
								No. of Rooms = 6	
FOX 104	110	1,594	60	27	43	1,000	16.7	24.0	69%
FOX 140	110	623	24	26	16	343	14.3	22.5	63%
FOX 204	110	784	37	21	31	996	26.9	32.0	84%
FOX 206	110	794	30	26	24	628	20.9	31.0	68%
FOX 304	110	784	30	26	25	735	24.5	31.0	79%
FOX 306	110	794	30	26	23	664	22.1	30.0	74%
Average		895	35	25.5	27		20.7	28.4	74%
Total		5,373	211			4,366		170.5	
Gardner Hall									
								No. of Rooms = 4	
GA 2207	110	548	41	13	19	409	10.0	22.0	45%
GA 2211	110	1,091	86	13	36	535	6.2	15.0	41%
GA 2213	110	849	40	21	22	520	13.0	23.0	57%
GA 3214	110	703	35	20	26	315	9.0	12.0	75%
Average		798	51	15.8	26		8.8	18.0	53%
Total		3,191	202			1,779		72.0	
Kilgore Hall									
								No. of Rooms = 2	
KI 125	110	887	45	20	29	959	21.3	33.5	64%
KI 159	110	1,543	92	17	54	1,427	15.5	26.5	59%
Average		1,215	69	17.7	41		17.4	30.0	61%
Total		2,430	137			2,386		60.0	

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Nelson Hall									No. of Rooms = 14
N 1120	110	1,246	50	25	43	1,464	29.3	35.0	84%
N 1130	110	1,323	54	25	38	1,135	21.0	33.3	63%
N 1140	110	1,199	46	26	31	1,089	23.7	35.0	68%
N 1150	110	1,293	47	28	29	1,358	28.9	44.0	66%
N 1206	110	652	38	17	20	480	12.6	28.0	45%
N 1212	110	967	47	21	36	1,175	25.0	30.5	82%
N 2210	110	1,221	51	24	39	1,480	29.0	38.0	76%
N 2402	110	837	47	18	33	1,101	23.4	32.0	73%
N 2403	110	726	32	23	20	345	10.8	17.5	62%
N 2405	110	1,282	90	14	75	2,391	26.6	31.0	86%
N 2406	110	934	47	20	34	1,083	23.0	30.0	77%
N 3210	110	1,211	54	22	38	1,302	24.1	34.5	70%
N 3400	110	5,193	394	13	258	9,276	23.5	36.0	65%
N 4210	110	1,133	51	22	35	1,290	25.3	35.0	72%
Average		1,373	75	18.3	52		23.8	32.8	71%
Total		19,216	1,048			24,968		459.8	
Scott Hall									No. of Rooms = 1
SC 106	110	806	53	15	31	879	16.6	29.0	57%
Williams Hall									No. of Rooms = 5
WMS 1404	110	1,121	85	13	55	1,750	20.6	31.0	66%
WMS 2104	110	854	48	18	20	570	11.9	29.0	41%
WMS 2112	110	511	24	21	12	331	13.8	28.0	49%
WMS 2215	110	2,209	199	11	110	3,729	18.7	33.0	57%
WMS 2312	110	829	47	18	27	905	19.3	34.0	57%
Average		1,105	81	13.7	45		18.1	31.0	54%
Total		5,524	403			7,285		155.0	
Gov Scott Courtyard Summary									
Average		1,195	72	16.5	48		20.8	29.6	67%
Total		43,034	2,601			53,987		1,066.8	
West Campus									No. of Rooms = 5
CVM Main Building									No. of Rooms = 5
VET B112	110	1,981	112	18	75	150	1.3	2.0	67%
VET C120	110	1,929	104	19	51	305	2.9	5.0	59%
VET D232	110	387	20	19	0	0	0.0	0.0	0%
VET D236	110	1,030	65	16	0	0	0.0	0.0	0%
VET D239	110	2,016	100	20	0	0	0.0	0.0	0%
West Campus Summary									
Average		1,469	80	18.3	25		1.1	1.4	61%
Total		7,344	401			455		7.0	

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Western Boulevard									No. of Rooms = 18
Biltmore Hall (Robertson Wing)									No. of Rooms = 5
BI 2006	110	590	30	20	20	340	11.3	19.0	60%
BI 2010	110	1,197	111	11	60	1,103	9.9	16.0	62%
BI 2102	110	463	31	15	14	222	7.2	15.0	48%
BI 2104	110	677	36	19	22	614	17.0	26.5	64%
BI 3018	110	805	49	16	31	1,093	22.3	35.5	63%
Average		747	51	14.5	30		13.1	22.4	61%
Total		3,733	257			3,371		112.0	
D. S. Weaver Labs									No. of Rooms = 3
DSW 123B	110	566	34	17	18	367	10.8	20.5	53%
DSW 143	110	390	21	19	11	116	5.5	11.0	50%
DSW 158	110	1,050	78	13	31	813	10.4	26.0	40%
Average		669	44	15.1	20		9.7	19.2	47%
Total		2,007	133			1,296		57.5	
Jordan Hall									No. of Rooms = 3
JOR 1108	110	921	59	16	33	853	14.5	26.0	56%
JOR 1109	110	551	27	20	12	186	6.9	15.0	46%
JOR 1112	110	537	24	22	14	404	16.8	28.0	60%
Average		670	37	18.3	20		13.1	23.0	55%
Total		2,009	110			1,443		69.0	
Jordan Hall Addition									No. of Rooms = 3
JHA 1216	110	1,508	100	15	74	2,084	20.8	27.8	75%
JHA 1218	110	1,191	50	24	34	936	18.7	25.0	75%
JHA 1220	110	1,183	50	24	27	740	14.8	26.5	56%
Average		1,294	67	19.4	45		18.8	26.4	69%
Total		3,882	200			3,760		79.3	
Pulp & Paper Labs									No. of Rooms = 1
PPL 2221	110	820	49	17	40	1,102	22.5	28.5	79%
Schaub Food Science Building									No. of Rooms = 3
SFS 103	110	706	36	20	20	579	16.1	27.0	60%
SFS 105	110	1,270	95	13	36	893	9.4	24.5	38%
SFS 114	110	521	24	22	17	429	17.9	25.0	72%
Average		832	52	16.1	24		12.3	25.5	57%
Total		2,497	155			1,901		76.5	
Western Boulevard Summary									
Average		830	50	16.5	29		14.2	23.5	60%
Total		14,948	904			12,872		422.8	

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CAMPUS									
	AVERAGE	1,085	63	17.3	38		18.7	29.3	62%
	TOTAL	254,881	14,748			275,709		6,876.7	
	NO. OF ROOMS	235							

Appendix-E

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Centennial Campus										No. of Rooms = 43	
BTC 105	210	968	20	48	20	100	5.0	5.0	480	0.21	100%
BTC 110	210	998	20	50	17	125	6.3	7.5	480	0.26	83%
BTC 112	210	1,000	20	50	18	213	10.7	12.1	480	0.44	88%
BTC 140A	210	1,064	12	89	13	63	5.2	5.0	288	0.22	104%
BTC 142A	210	1,118	12	93	12	60	5.0	5.0	288	0.21	100%
BTC 144A	210	1,122	12	94	12	284	23.7	23.7	288	0.99	100%
BTC 146A	210	1,010	12	84	12	311	25.9	25.9	288	1.08	100%
BTC 252A	210	1,558	16	97	15	75	4.7	5.0	384	0.2	94%
BTC 257	210	648	11	59	9	118	10.7	12.5	264	0.45	85%
BTC 258	210	756	13	58	10	75	5.8	7.5	312	0.24	77%
EB1 1016	210	3,167	63	50	20	312	5.0	16.0	1,512	0.21	31%
EB1 3003	210	875	36	24	18	54	1.5	3.0	864	0.06	50%
EB2 1014	210	587	32	18	27	372	11.6	14.0	768	0.48	83%
EB2 1026	210	886	26	34	22	1,077	41.4	48.0	624	1.73	86%
EB2 1028	210	585	32	18	22	218	6.8	10.0	768	0.28	68%
EB2 1032	210	831	20	42	13	201	10.1	15.0	480	0.42	67%
EB2 1203A	210	1,619	46	35	22	356	7.7	16.0	1,104	0.32	48%
EB2 1221	210	924	27	34	25	830	30.7	33.5	648	1.28	92%
EB3 1201	210	666	25	27	25	198	7.9	8.0	600	0.33	99%
EB3 2206	210	1,081	30	36	18	290	9.7	16.0	720	0.4	60%
EB3 2208	210	969	30	32	18	424	14.1	24.0	720	0.59	59%
EB3 2213	210	1,726	84	21	46	1,788	21.3	39.0	2,016	0.89	55%
EB3 2216	210	648	20	32	19	458	22.9	24.0	480	0.95	95%
EB3 4101	210	487	16	30	17	242	15.1	14.0	384	0.63	108%
EB3 4114	210	733	20	37	18	379	19.0	22.0	480	0.79	86%
EB3 4118	210	766	26	29	10	80	3.1	8.0	624	0.13	38%
EB3 4201	210	1,827	20	91	15	342	17.1	22.0	480	0.71	78%
FWH 1152	210	969	8	121	3	3	0.4	1.0	192	0.02	38%
FWH 1321	210	1,328	24	55	17	168	7.0	10.0	576	0.29	70%
FWH 2125	210	1,022	40	26	11	55	1.4	5.0	960	0.06	28%
FWH 3137	210	1,443	24	60	18	108	4.5	6.0	576	0.19	75%
FWH 3270	210	1,376	46	30	9	105	2.3	12.0	1,104	0.1	19%
FWH 4290	210	1,972	80	25	51	1,072	13.4	22.0	1,920	0.56	61%
MRC 136	210	932	46	20	14	414	9.0	30.0	1,104	0.38	30%
TEX 1115	210	2,465	16	154	12	378	23.6	30.0	384	0.98	79%
TEX 1204	210	2,797	43	65	43	215	5.0	5.0	1,032	0.21	100%
TEX 2115	210	1,384	48	29	22	623	13.0	28.0	1,152	0.54	46%
TEX 2119	210	1,038	18	58	17	132	7.3	8.0	432	0.31	92%
TEX 2204	210	1,633	16	102	14	63	3.9	4.5	384	0.16	88%
TEX 3412C	210	922	30	31	24	218	7.3	9.0	720	0.3	81%
TEX 4414	210	1,180	32	37	32	288	9.0	9.0	768	0.38	100%
TEX 4415	210	1,390	48	29	14	109	2.3	8.5	1,152	0.09	27%
TEX 4419	210	1,613	32	50	16	354	11.1	19.0	768	0.46	58%
Average		1,211	29	41.6	19		10.7	15.1		0.44	72%
Total		52,084	1,252			13,349		648.7			

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Central Campus										No. of Rooms = 23	
BI 2026	210	973	24	41	8	90	3.8	12.0	576	0.16	31%
BI 3032	210	959	24	40	24	396	16.5	17.0	576	0.69	97%
DSW 125	210	914	38	24	18	186	4.9	11.0	912	0.2	44%
DSW 142	210	640	18	36	15	212	11.8	14.0	432	0.49	84%
GRL 1105	210	672	24	28	17	66	2.8	4.0	576	0.11	69%
HWP 105	210	730	21	35	22	517	24.6	24.0	504	1.03	103%
JHA 2214	210	1,715	36	48	24	96	2.7	4.0	864	0.11	67%
JHA 2230	210	1,699	36	47	12	108	3.0	9.0	864	0.12	33%
JHA 3214	210	1,024	36	28	23	321	8.9	15.0	864	0.37	59%
JHA 4214	210	1,379	24	57	22	620	25.8	29.0	576	1.08	89%
JOR 2104	210	832	24	35	16	141	5.9	9.0	576	0.24	65%
JOR 2106	210	836	24	35	10	153	6.4	15.0	576	0.27	43%
JOR 2115	210	989	35	28	10	201	5.7	19.0	840	0.24	30%
JOR 5103	210	863	40	22	11	185	4.6	17.0	960	0.19	27%
JOR 5131	210	732	30	24	13	257	8.6	21.0	720	0.36	41%
JOR 6109	210	857	16	54	22	493	30.8	20.0	384	1.28	154%
JOR 6114	210	969	18	54	15	38	2.1	2.5	432	0.09	83%
JOR 6117	210	830	35	24	18	350	10.0	18.0	840	0.42	56%
JOR 6136	210	830	16	52	10	149	9.3	13.0	384	0.39	71%
PMC 101	210	1,440	35	41	19	111	3.2	6.0	840	0.13	53%
PMC 110	210	1,957	60	33	28	314	5.2	9.5	1,440	0.22	55%
PMC 120	210	3,374	140	24	98	2,430	17.4	18.0	3,360	0.72	96%
SFS 124	210	1,138	20	57	19	57	2.9	3.0	480	0.12	95%
Average		1,146	34	34.0	20		9.7	13.5		0.4	70%
Total		26,351	774			7,489		310.0			

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North Campus										No. of Rooms = 132	
BOS 3706A	210	1,061	24	44	23	819	34.1	36.0	576	1.42	95%
BOS 3706E	210	1,072	24	45	23	909	37.9	39.0	576	1.58	97%
BOS 3707A	210	1,072	24	45	22	978	40.8	45.0	576	1.7	91%
BOS 3707E	210	1,072	24	45	22	663	27.6	30.0	576	1.15	92%
BOS 4705A	210	1,061	24	44	10	114	4.8	12.0	576	0.2	40%
BOS 4705E	210	1,072	24	45	32	636	26.5	20.0	576	1.1	133%
BOS 4706A	210	1,072	24	45	15	273	11.4	18.0	576	0.47	63%
BOS 4706D	210	1,072	24	45	19	174	7.3	9.0	576	0.3	81%
BOS 4707	210	1,060	24	44	18	195	8.1	11.0	576	0.34	74%
BR 1402	210	1,272	94	14	33	498	5.3	15.0	2,256	0.22	35%
BR 1403	210	1,270	55	23	14	168	3.1	12.0	1,320	0.13	25%
BR 1404	210	1,279	30	43	15	180	6.0	12.0	720	0.25	50%
BR 2101	210	2,288	16	143	20	156	9.8	8.0	384	0.41	122%
BR 2405	210	904	24	38	23	351	14.6	15.0	576	0.61	98%
BR 2408	210	897	24	37	17	99	4.1	6.0	576	0.17	69%
BS 105	210	1,067	30	36	13	156	5.2	12.0	720	0.22	43%
BS 107	210	632	15	42	14	168	11.2	12.0	360	0.47	93%
BS 108	210	1,019	21	49	11	132	6.3	12.0	504	0.26	52%
BS 109	210	1,027	22	47	11	132	6.0	12.0	528	0.25	50%
BS 112	210	818	21	39	9	108	5.1	12.0	504	0.21	43%
BS 114	210	806	30	27	7	72	2.4	11.5	720	0.1	21%
BS 202	210	708	19	37	15	90	4.7	6.0	456	0.2	79%
BS 203C	210	605	24	25	21	291	12.1	15.0	576	0.51	81%
BS 203D	210	604	24	25	19	306	12.8	16.0	576	0.53	80%
BS 212A	210	911	38	24	6	18	0.5	3.0	912	0.02	16%
BS 305	210	3,529	75	47	49	924	12.3	18.0	1,800	0.51	68%
BS 316	210	909	16	57	11	116	7.2	11.5	384	0.3	63%
BS 316A	210	911	20	46	14	167	8.3	11.5	480	0.35	72%
BS 319	210	890	18	49	13	144	8.0	11.5	432	0.33	70%
BS 320	210	1,009	26	39	14	167	6.4	11.5	624	0.27	56%
BU 3109	210	325	10	33	4	21	2.1	6.0	240	0.09	35%
COX 105	210	2,254	99	23	76	1,909	19.3	24.0	2,376	0.8	80%
COX 110	210	1,859	81	23	35	1,036	12.8	28.6	1,944	0.53	45%
DAB 316	210	1,229	18	68	14	243	13.5	18.0	432	0.56	75%
DAB 425	210	912	12	76	8	165	13.8	22.0	288	0.57	63%
DAB 608	210	1,529	12	127	8	96	8.0	12.0	288	0.33	67%
DCL 182	210	1,189	24	50	22	597	24.9	27.0	576	1.04	92%
DCL 183	210	1,192	24	50	20	609	25.4	30.0	576	1.06	85%
DCL 186	210	1,198	24	50	20	480	20.0	24.0	576	0.83	83%
DCL 187	210	1,202	24	50	17	666	27.8	39.0	576	1.16	71%
DCL 282	210	1,198	24	50	22	453	18.9	21.0	576	0.79	90%
DCL 283	210	1,201	24	50	12	108	4.5	9.0	576	0.19	50%
DCL 286	210	1,198	24	50	13	120	5.0	9.0	576	0.21	56%
DCL 287	210	1,201	24	50	23	555	23.1	24.0	576	0.96	96%
FOX 112	210	906	24	38	26	1,386	57.8	54.0	576	2.41	107%
FOX 116	210	940	24	39	23	496	20.7	22.0	576	0.86	94%
FOX 117	210	1,278	20	64	17	405	20.3	24.0	480	0.84	84%
FOX 120	210	921	24	38	27	1,136	47.3	42.0	576	1.97	113%

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FOX 121	210	1,276	20	64	17	597	29.9	36.0	480	1.24	83%
FOX 126	210	921	24	38	16	876	36.5	54.0	576	1.52	68%
FOX 128	210	940	24	39	14	446	18.6	32.0	576	0.77	58%
FOX 132	210	906	24	38	10	240	10.0	24.0	576	0.42	42%
FOX 212	210	1,219	20	61	20	748	37.4	38.0	480	1.56	98%
FOX 216	210	1,253	20	63	19	738	36.9	38.0	480	1.54	97%
FOX 217	210	1,279	20	64	18	691	34.6	39.0	480	1.44	89%
FOX 221	210	1,276	20	64	20	744	37.2	38.0	480	1.55	98%
FOX 222	210	1,253	20	63	19	738	36.9	38.0	480	1.54	97%
FOX 226	210	1,220	20	61	19	738	36.9	38.0	480	1.54	97%
FOX 312	210	1,219	20	61	17	450	22.5	27.0	480	0.94	83%
FOX 316	210	1,253	20	63	19	573	28.7	30.0	480	1.19	96%
FOX 317	210	1,279	20	64	40	1,080	54.0	27.0	480	2.25	200%
FOX 321	210	1,276	24	53	41	1,242	51.8	30.0	576	2.16	173%
FOX 322	210	1,253	20	63	23	483	24.2	21.0	480	1.01	115%
FOX 326	210	1,220	20	61	17	360	18.0	21.0	480	0.75	86%
FOX B21	210	997	24	42	19	222	9.3	12.0	576	0.39	77%
FOX B31	210	950	40	24	21	410	10.3	16.8	960	0.43	61%
GA 1406	210	1,050	18	58	11	120	6.7	12.0	432	0.28	56%
GA 1418	210	923	24	38	17	193	8.0	11.3	576	0.34	71%
GA 2206	210	765	28	27	11	33	1.2	4.0	672	0.05	29%
GA 2212	210	755	28	27	15	45	1.6	3.0	672	0.07	54%
GA 4302	210	716	24	30	9	51	2.1	6.0	576	0.09	35%
GA 4310	210	825	24	34	6	36	1.5	6.0	576	0.06	25%
KAM A200	210	4,448	86	52	25	705	8.2	27.8	2,064	0.34	30%
KAM A300	210	5,396	95	57	42	1,134	11.9	18.0	2,280	0.5	66%
KAM A401	210	1,387	18	77	11	132	7.3	12.0	432	0.31	61%
KAM G40	210	713	13	55	12	96	7.4	8.0	312	0.31	92%
KI 72	210	1,237	20	62	10	93	4.7	9.0	480	0.19	52%
LEZ 230	210	1,388	16	87	11	126	7.9	12.0	384	0.33	66%
LEZ 230D	210	1,434	18	80	8	120	6.7	16.0	432	0.28	42%
LEZ 240	210	1,282	20	64	10	80	4.0	8.0	480	0.17	50%
LEZ 240A	210	1,290	16	81	13	104	6.5	8.0	384	0.27	81%
LEZ 302	210	2,913	58	50	21	496	8.6	24.0	1,392	0.36	36%
LEZ 304	210	2,941	57	52	20	480	8.4	24.0	1,368	0.35	35%
LEZ 310	210	822	30	27	24	471	15.7	18.0	720	0.65	87%
LEZ 312	210	544	20	27	10	160	8.0	16.0	480	0.33	50%
LEZ 321A	210	1,477	35	42	24	438	12.5	18.0	840	0.52	70%
LEZ 321B	210	1,432	20	72	15	120	6.0	8.0	480	0.25	75%
LEZ 325A	210	1,456	28	52	26	208	7.4	8.0	672	0.31	93%
LEZ 325B	210	1,452	30	48	28	252	8.4	9.0	720	0.35	93%
LMP 101	210	920	12	77	12	138	11.5	12.0	288	0.48	96%
LMP 110	210	2,037	24	85	13	39	1.6	3.0	576	0.07	54%
LMP 118B	210	2,909	41	71	13	213	5.2	17.0	984	0.22	30%
LMP 120	210	1,534	21	73	19	162	7.7	8.5	504	0.32	90%
LMP 123	210	986	20	49	16	235	11.8	16.0	480	0.49	73%
LMP 131	210	1,335	25	53	23	253	10.1	11.0	600	0.42	92%
LMP 200	210	1,498	47	32	39	858	18.3	22.0	1,128	0.76	83%
LMP 255	210	1,294	33	39	35	726	22.0	21.0	792	0.92	105%
N B400	210	928	38	24	0	0	0.0	0.0	912	0	0%

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Class Labs Utilization Analysis by Precinct

Fall 2021

Room ID	Space Use Code	Assignable Sq. Ft.	No. of Stations	Assignable Sq. Ft. Per Station	Average Enrollment	Weekly Student Contact Hours	Weekly Seat Hours	Weekly Room Hours	WSCH Max (@24.0)	Utilization Ratio %	Seat Fill Rate
N B410	210	1,653	60	28	0	0	0.0	0.0	1,440	0	0%
NIN 110	210	916	25	37	15	290	11.6	21.0	600	0.48	55%
PK 128A	210	725	55	13	26	361	6.6	15.0	1,320	0.27	44%
PK 23	210	1,084	20	54	15	226	11.3	15.6	480	0.47	73%
POE 103	210	837	20	42	17	204	10.2	12.0	480	0.42	85%
POE 106	210	1,999	60	33	50	1,776	29.6	35.6	1,440	1.23	83%
POE 122	210	989	25	40	19	452	18.1	24.0	600	0.75	75%
POE 742	210	806	26	31	14	401	15.4	29.0	624	0.64	53%
PS 222	210	1,110	24	46	20	120	5.0	6.0	576	0.21	83%
RD 319	210	821	15	55	0	0	0.0	0.0	360	0	0%
RD 336	210	1,315	40	33	28	477	11.9	16.0	960	0.5	75%
RD 340	210	1,197	40	30	18	218	5.5	12.0	960	0.23	45%
RD 460	210	1,682	36	47	32	936	26.0	28.0	864	1.08	93%
RD 464	210	1,037	16	65	0	0	0.0	0.0	384	0	0%
RI 118	210	822	24	34	17	387	16.1	23.0	576	0.67	70%
SC 105	210	698	30	23	13	132	4.4	11.0	720	0.18	40%
SC 130	210	720	24	30	7	101	4.2	13.0	576	0.18	32%
SC 158	210	806	24	34	7	93	3.9	13.0	576	0.16	30%
T 110	210	560	17	33	18	515	30.3	29.0	408	1.26	104%
THM 1503	210	987	24	41	19	231	9.6	12.0	576	0.4	80%
THM 1512	210	853	24	36	16	144	6.0	9.0	576	0.25	67%
THM 1518	210	839	24	35	17	186	7.8	10.4	576	0.32	75%
THM 1522	210	862	24	36	16	147	6.1	9.0	576	0.26	68%
THM 1527	210	998	24	42	24	999	41.6	42.0	576	1.73	99%
WI 131	210	1,271	40	32	11	112	2.8	10.0	960	0.12	28%
WI 243	210	281	6	47	0	0	0.0	0.0	144	0	0%
WI 246	210	310	15	21	12	69	4.6	6.0	360	0.19	77%
WMS 1400	210	776	24	32	13	173	7.2	13.0	576	0.3	55%
WMS 1403	210	822	36	23	23	245	6.8	11.0	864	0.28	62%
WMS 2125	210	790	20	40	14	209	10.4	14.5	480	0.43	72%
WMS 2302	210	733	24	31	24	576	24.0	24.0	576	1	100%
WMS 2306	210	683	18	38	18	105	5.8	6.0	432	0.24	97%
WMS 2417	210	821	24	34	11	120	5.0	10.0	576	0.21	50%
WN 133	210	591	20	30	17	309	15.5	18.0	480	0.64	86%
Average		1,191	28	42.6	18		13.5	17.8		0.56	79%
Total		157,168	3,689			49,691		2,353.6			
West Campus										No. of Rooms = 1	
HHH 112	210	980	28	35	21	246	8.8	12.0	672	0.37	73%
Average		980	28	35.0	21		8.8	12.0		0.37	73%
Total		980	28			246		12.0			
AVERAGE		1,189	29	41.2	18		12.3	16.7		0.51	77%
TOTAL		236,583	5,743			70,774		3,324.3	137,832		
NO. OF ROOMS		199									

Appendix-F

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Class Labs Utilization Analysis by Building

Fall 2021

Room ID	Space Use Code	Assignable Sq. Ft.	No. of Stations	Assignable Sq. Ft. Per Station	Average Enrollment	Weekly Student Contact Hours	Weekly Seat Hours	Weekly Room Hours	WSCH Max (@24.0)	Utilization Ratio %	Seat Fill Rate
111 Lampe Drive										No. of Rooms = 8	
LMP 101	210	920	12	77	12	138	11.5	12.0	288	0.48	96%
LMP 110	210	2,037	24	85	13	39	1.6	3.0	576	0.07	54%
LMP 118B	210	2,909	41	71	13	213	5.2	17.0	984	0.22	30%
LMP 120	210	1,534	21	73	19	162	7.7	8.5	504	0.32	90%
LMP 123	210	986	20	49	16	235	11.8	16.0	480	0.49	73%
LMP 131	210	1,335	25	53	23	253	10.1	11.0	600	0.42	92%
LMP 200	210	1,498	47	32	39	858	18.3	22.0	1,128	0.76	83%
LMP 255	210	1,294	33	39	35	726	22.0	21.0	792	0.92	105%
Average		1,564	28	56.1	21		11.8	13.8		0.49	80%
Total		12,513	223			2,623		110.5			
1911 Bldg										No. of Rooms = 1	
NIN 110	210	916	25	37	15	290	11.6	21.0	600	0.48	55%
Average		916	25	36.6	15		11.6	21.0		0.48	55%
Total		916	25			290		21.0			
Biltmore Hall (Robertson Wing)										No. of Rooms = 2	
BI 2026	210	973	24	41	8	90	3.8	12.0	576	0.16	31%
BI 3032	210	959	24	40	24	396	16.5	17.0	576	0.69	97%
Average		966	24	40.2	16		10.1	14.5		0.42	70%
Total		1,931	48			486		29.0			
Bostian Hall										No. of Rooms = 9	
BOS 3706A	210	1,061	24	44	23	819	34.1	36.0	576	1.42	95%
BOS 3706E	210	1,072	24	45	23	909	37.9	39.0	576	1.58	97%
BOS 3707A	210	1,072	24	45	22	978	40.8	45.0	576	1.7	91%
BOS 3707E	210	1,072	24	45	22	663	27.6	30.0	576	1.15	92%
BOS 4705A	210	1,061	24	44	10	114	4.8	12.0	576	0.2	40%
BOS 4705E	210	1,072	24	45	32	636	26.5	20.0	576	1.1	133%
BOS 4706A	210	1,072	24	45	15	273	11.4	18.0	576	0.47	63%
BOS 4706D	210	1,072	24	45	19	174	7.3	9.0	576	0.3	81%
BOS 4707	210	1,060	24	44	18	195	8.1	11.0	576	0.34	74%
Average		1,068	24	44.5	20		22.0	24.4		0.92	90%
Total		9,615	216			4,761		220.0			

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Brooks Hall											No. of Rooms = 15
BS 105	210	1,067	30	36	13	156	5.2	12.0	720	0.22	43%
BS 107	210	632	15	42	14	168	11.2	12.0	360	0.47	93%
BS 108	210	1,019	21	49	11	132	6.3	12.0	504	0.26	52%
BS 109	210	1,027	22	47	11	132	6.0	12.0	528	0.25	50%
BS 112	210	818	21	39	9	108	5.1	12.0	504	0.21	43%
BS 114	210	806	30	27	7	72	2.4	11.5	720	0.1	21%
BS 202	210	708	19	37	15	90	4.7	6.0	456	0.2	79%
BS 203C	210	605	24	25	21	291	12.1	15.0	576	0.51	81%
BS 203D	210	604	24	25	19	306	12.8	16.0	576	0.53	80%
BS 212A	210	911	38	24	6	18	0.5	3.0	912	0.02	16%
BS 305	210	3,529	75	47	49	924	12.3	18.0	1,800	0.51	68%
BS 316	210	909	16	57	11	116	7.2	11.5	384	0.3	63%
BS 316A	210	911	20	46	14	167	8.3	11.5	480	0.35	72%
BS 319	210	890	18	49	13	144	8.0	11.5	432	0.33	70%
BS 320	210	1,009	26	39	14	167	6.4	11.5	624	0.27	56%
Average		1,030	27	38.7	15		7.5	11.7		0.31	62%
Total		15,445	399			2,990		175.5			
Broughton Hall											No. of Rooms = 6
BR 1402	210	1,272	94	14	33	498	5.3	15.0	2,256	0.22	35%
BR 1403	210	1,270	55	23	14	168	3.1	12.0	1,320	0.13	25%
BR 1404	210	1,279	30	43	15	180	6.0	12.0	720	0.25	50%
BR 2101	210	2,288	16	143	20	156	9.8	8.0	384	0.41	122%
BR 2405	210	904	24	38	23	351	14.6	15.0	576	0.61	98%
BR 2408	210	897	24	37	17	99	4.1	6.0	576	0.17	69%
Average		1,318	41	32.5	20		6.0	11.3		0.25	63%
Total		7,909	243			1,452		68.0			
BTEC - Golden LEAF Biomanufacturing Training And Education Center											No. of Rooms = 10
BTC 105	210	968	20	48	20	100	5.0	5.0	480	0.21	100%
BTC 110	210	998	20	50	17	125	6.3	7.5	480	0.26	83%
BTC 112	210	1,000	20	50	18	213	10.7	12.1	480	0.44	88%
BTC 140A	210	1,064	12	89	13	63	5.2	5.0	288	0.22	104%
BTC 142A	210	1,118	12	93	12	60	5.0	5.0	288	0.21	100%
BTC 144A	210	1,122	12	94	12	284	23.7	23.7	288	0.99	100%
BTC 146A	210	1,010	12	84	12	311	25.9	25.9	288	1.08	100%
BTC 252A	210	1,558	16	97	15	75	4.7	5.0	384	0.2	94%
BTC 257	210	648	11	59	9	118	10.7	12.5	264	0.45	85%
BTC 258	210	756	13	58	10	75	5.8	7.5	312	0.24	77%
Average		1,024	15	69.2	14		9.6	10.9		0.4	94%
Total		10,242	148			1,424		109.2			

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Burlington Laboratory										No. of Rooms = 1	
BU 3109	210	325	10	33	4	21	2.1	6.0	240	0.09	35%
Average		325	10	32.5	4		2.1	6.0		0.09	35%
Total		325	10			21		6.0			
Cox Hall										No. of Rooms = 2	
COX 105	210	2,254	99	23	76	1,909	19.3	24.0	2,376	0.8	80%
COX 110	210	1,859	81	23	35	1,036	12.8	28.6	1,944	0.53	45%
Average		2,056	90	22.8	56		16.4	26.3		0.68	61%
Total		4,113	180			2,945		52.6			
D. S. Weaver Labs										No. of Rooms = 2	
DSW 125	210	914	38	24	18	186	4.9	11.0	912	0.2	44%
DSW 142	210	640	18	36	15	212	11.8	14.0	432	0.49	84%
Average		777	28	27.7	16		7.1	12.5		0.3	67%
Total		1,554	56			398		25.0			
Dabney Hall										No. of Rooms = 3	
DAB 316	210	1,229	18	68	14	243	13.5	18.0	432	0.56	75%
DAB 425	210	912	12	76	8	165	13.8	22.0	288	0.57	63%
DAB 608	210	1,529	12	127	8	96	8.0	12.0	288	0.33	67%
Average		1,223	14	87.4	10		12.0	17.3		0.5	68%
Total		3,669	42			504		52.0			
David Clark Labs										No. of Rooms = 8	
DCL 182	210	1,189	24	50	22	597	24.9	27.0	576	1.04	92%
DCL 183	210	1,192	24	50	20	609	25.4	30.0	576	1.06	85%
DCL 186	210	1,198	24	50	20	480	20.0	24.0	576	0.83	83%
DCL 187	210	1,202	24	50	17	666	27.8	39.0	576	1.16	71%
DCL 282	210	1,198	24	50	22	453	18.9	21.0	576	0.79	90%
DCL 283	210	1,201	24	50	12	108	4.5	9.0	576	0.19	50%
DCL 286	210	1,198	24	50	13	120	5.0	9.0	576	0.21	56%
DCL 287	210	1,201	24	50	23	555	23.1	24.0	576	0.96	96%
Average		1,197	24	49.9	19		18.7	22.9		0.78	82%
Total		9,579	192			3,588		183.0			
Engineering Building I (EB1)										No. of Rooms = 2	
EB1 1016	210	3,167	63	50	20	312	5.0	16.0	1,512	0.21	31%
EB1 3003	210	875	36	24	18	54	1.5	3.0	864	0.06	50%
Average		2,021	50	40.8	19		3.7	9.5		0.15	34%
Total		4,042	99			366		19.0			

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Engineering Building II (EB2)										No. of Rooms = 6	
EB2 1014	210	587	32	18	27	372	11.6	14.0	768	0.48	83%
EB2 1026	210	886	26	34	22	1,077	41.4	48.0	624	1.73	86%
EB2 1028	210	585	32	18	22	218	6.8	10.0	768	0.28	68%
EB2 1032	210	831	20	42	13	201	10.1	15.0	480	0.42	67%
EB2 1203A	210	1,619	46	35	22	356	7.7	16.0	1,104	0.32	48%
EB2 1221	210	924	27	34	25	830	30.7	33.5	648	1.28	92%
Average		905	31	29.7	22		16.7	22.8		0.7	79%
Total		5,433	183			3,054		136.5			
Engineering Building III (EB3)										No. of Rooms = 9	
EB3 1201	210	666	25	27	25	198	7.9	8.0	600	0.33	99%
EB3 2206	210	1,081	30	36	18	290	9.7	16.0	720	0.4	60%
EB3 2208	210	969	30	32	18	424	14.1	24.0	720	0.59	59%
EB3 2213	210	1,726	84	21	46	1,788	21.3	39.0	2,016	0.89	55%
EB3 2216	210	648	20	32	19	458	22.9	24.0	480	0.95	95%
EB3 4101	210	487	16	30	17	242	15.1	14.0	384	0.63	108%
EB3 4114	210	733	20	37	18	379	19.0	22.0	480	0.79	86%
EB3 4118	210	766	26	29	10	80	3.1	8.0	624	0.13	38%
EB3 4201	210	1,827	20	91	15	342	17.1	22.0	480	0.71	78%
Average		989	30	32.9	21		15.5	19.7		0.65	74%
Total		8,903	271			4,201		177.0			
Fitts-Woolard Hall										No. of Rooms = 6	
FWH 1152	210	969	8	121	3	3	0.4	1.0	192	0.02	38%
FWH 1321	210	1,328	24	55	17	168	7.0	10.0	576	0.29	70%
FWH 2125	210	1,022	40	26	11	55	1.4	5.0	960	0.06	28%
FWH 3137	210	1,443	24	60	18	108	4.5	6.0	576	0.19	75%
FWH 3270	210	1,376	46	30	9	105	2.3	12.0	1,104	0.1	19%
FWH 4290	210	1,972	80	25	51	1,072	13.4	22.0	1,920	0.56	61%
Average		1,352	37	36.5	18		6.8	9.3		0.28	52%
Total		8,110	222			1,511		56.0			

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Fox Science Teaching Laboratory										No. of Rooms = 22	
FOX 112	210	906	24	38	26	1,386	57.8	54.0	576	2.41	107%
FOX 116	210	940	24	39	23	496	20.7	22.0	576	0.86	94%
FOX 117	210	1,278	20	64	17	405	20.3	24.0	480	0.84	84%
FOX 120	210	921	24	38	27	1,136	47.3	42.0	576	1.97	113%
FOX 121	210	1,276	20	64	17	597	29.9	36.0	480	1.24	83%
FOX 126	210	921	24	38	16	876	36.5	54.0	576	1.52	68%
FOX 128	210	940	24	39	14	446	18.6	32.0	576	0.77	58%
FOX 132	210	906	24	38	10	240	10.0	24.0	576	0.42	42%
FOX 212	210	1,219	20	61	20	748	37.4	38.0	480	1.56	98%
FOX 216	210	1,253	20	63	19	738	36.9	38.0	480	1.54	97%
FOX 217	210	1,279	20	64	18	691	34.6	39.0	480	1.44	89%
FOX 221	210	1,276	20	64	20	744	37.2	38.0	480	1.55	98%
FOX 222	210	1,253	20	63	19	738	36.9	38.0	480	1.54	97%
FOX 226	210	1,220	20	61	19	738	36.9	38.0	480	1.54	97%
FOX 312	210	1,219	20	61	17	450	22.5	27.0	480	0.94	83%
FOX 316	210	1,253	20	63	19	573	28.7	30.0	480	1.19	96%
FOX 317	210	1,279	20	64	40	1,080	54.0	27.0	480	2.25	200%
FOX 321	210	1,276	24	53	41	1,242	51.8	30.0	576	2.16	173%
FOX 322	210	1,253	20	63	23	483	24.2	21.0	480	1.01	115%
FOX 326	210	1,220	20	61	17	360	18.0	21.0	480	0.75	86%
FOX B21	210	997	24	42	19	222	9.3	12.0	576	0.39	77%
FOX B31	210	950	40	24	21	410	10.3	16.8	960	0.43	61%
Average		1,138	22	50.9	21		30.1	31.9		1.25	97%
Total		25,031	492			14,799		701.8			
Gardner Hall										No. of Rooms = 6	
GA 1406	210	1,050	18	58	11	120	6.7	12.0	432	0.28	56%
GA 1418	210	923	24	38	17	193	8.0	11.3	576	0.34	71%
GA 2206	210	765	28	27	11	33	1.2	4.0	672	0.05	29%
GA 2212	210	755	28	27	15	45	1.6	3.0	672	0.07	54%
GA 4302	210	716	24	30	9	51	2.1	6.0	576	0.09	35%
GA 4310	210	825	24	34	6	36	1.5	6.0	576	0.06	25%
Average		839	24	34.5	11		3.3	7.1		0.14	50%
Total		5,033	146			478		42.3			
Grinnells Lab										No. of Rooms = 1	
GRL 1105	210	672	24	28	17	66	2.8	4.0	576	0.11	69%
Average		672	24	28.0	17		2.8	4.0		0.11	69%
Total		672	24			66		4.0			
Hodges Wood Products										No. of Rooms = 1	
HWP 105	210	730	21	35	22	517	24.6	24.0	504	1.03	103%
Average		730	21	34.7	22		24.6	24.0		1.03	103%
Total		730	21			517		24.0			

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Horticulture Headhouse										No. of Rooms = 1	
HHH 112	210	980	28	35	21	246	8.8	12.0	672	0.37	73%
Average		980	28	35.0	21		8.8	12.0		0.37	73%
Total		980	28			246		12.0			
Jordan Hall										No. of Rooms = 9	
JOR 2104	210	832	24	35	16	141	5.9	9.0	576	0.24	65%
JOR 2106	210	836	24	35	10	153	6.4	15.0	576	0.27	43%
JOR 2115	210	989	35	28	10	201	5.7	19.0	840	0.24	30%
JOR 5103	210	863	40	22	11	185	4.6	17.0	960	0.19	27%
JOR 5131	210	732	30	24	13	257	8.6	21.0	720	0.36	41%
JOR 6109	210	857	16	54	22	493	30.8	20.0	384	1.28	154%
JOR 6114	210	969	18	54	15	38	2.1	2.5	432	0.09	83%
JOR 6117	210	830	35	24	18	350	10.0	18.0	840	0.42	56%
JOR 6136	210	830	16	52	10	149	9.3	13.0	384	0.39	71%
Average		860	26	32.5	14		8.3	14.9		0.34	62%
Total		7,739	238			1,966		134.5			
Jordan Hall Addition										No. of Rooms = 4	
JHA 2214	210	1,715	36	48	24	96	2.7	4.0	864	0.11	67%
JHA 2230	210	1,699	36	47	12	108	3.0	9.0	864	0.12	33%
JHA 3214	210	1,024	36	28	23	321	8.9	15.0	864	0.37	59%
JHA 4214	210	1,379	24	57	22	620	25.8	29.0	576	1.08	89%
Average		1,454	33	44.1	20		8.7	14.3		0.36	71%
Total		5,818	132			1,145		57.0			
Kamphoefner Hall										No. of Rooms = 4	
KAM A200	210	4,448	86	52	25	705	8.2	27.8	2,064	0.34	30%
KAM A300	210	5,396	95	57	42	1,134	11.9	18.0	2,280	0.5	66%
KAM A401	210	1,387	18	77	11	132	7.3	12.0	432	0.31	61%
KAM G40	210	713	13	55	12	96	7.4	8.0	312	0.31	92%
Average		2,986	53	56.3	22		9.8	16.5		0.41	53%
Total		11,944	212			2,067		65.8			
Kilgore Hall										No. of Rooms = 1	
KI 72	210	1,237	20	62	10	93	4.7	9.0	480	0.19	52%
Average		1,237	20	61.9	10		4.7	9.0		0.19	52%
Total		1,237	20			93		9.0			

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Leazar Hall										No. of Rooms = 12	
LEZ 230	210	1,388	16	87	11	126	7.9	12.0	384	0.33	66%
LEZ 230D	210	1,434	18	80	8	120	6.7	16.0	432	0.28	42%
LEZ 240	210	1,282	20	64	10	80	4.0	8.0	480	0.17	50%
LEZ 240A	210	1,290	16	81	13	104	6.5	8.0	384	0.27	81%
LEZ 302	210	2,913	58	50	21	496	8.6	24.0	1,392	0.36	36%
LEZ 304	210	2,941	57	52	20	480	8.4	24.0	1,368	0.35	35%
LEZ 310	210	822	30	27	24	471	15.7	18.0	720	0.65	87%
LEZ 312	210	544	20	27	10	160	8.0	16.0	480	0.33	50%
LEZ 321A	210	1,477	35	42	24	438	12.5	18.0	840	0.52	70%
LEZ 321B	210	1,432	20	72	15	120	6.0	8.0	480	0.25	75%
LEZ 325A	210	1,456	28	52	26	208	7.4	8.0	672	0.31	93%
LEZ 325B	210	1,452	30	48	28	252	8.4	9.0	720	0.35	93%
Average		1,536	29	53.0	17		8.8	14.1		0.37	59%
Total		18,431	348			3,055		169.0			
Monteith Engineering Res.Ctr. (MRC)										No. of Rooms = 1	
MRC 136	210	932	46	20	14	414	9.0	30.0	1,104	0.38	30%
Average		932	46	20.3	14		9.0	30.0		0.38	30%
Total		932	46			414		30.0			
Nelson Hall										No. of Rooms = 2	
N B400	210	928	38	24	0	0	0.0	0.0	912	0	0%
N B410	210	1,653	60	28	0	0	0.0	0.0	1,440	0	0%
Average		1,291	49	26.3	0		0.0	0.0		0	0%
Total		2,582	98			0		0.0			
Park Shops										No. of Rooms = 1	
PS 222	210	1,110	24	46	20	120	5.0	6.0	576	0.21	83%
Average		1,110	24	46.3	20		5.0	6.0		0.21	83%
Total		1,110	24			120		6.0			
Poe Hall										No. of Rooms = 4	
POE 103	210	837	20	42	17	204	10.2	12.0	480	0.42	85%
POE 106	210	1,999	60	33	50	1,776	29.6	35.6	1,440	1.23	83%
POE 122	210	989	25	40	19	452	18.1	24.0	600	0.75	75%
POE 742	210	806	26	31	14	401	15.4	29.0	624	0.64	53%
Average		1,158	33	35.4	25		21.6	25.2		0.9	73%
Total		4,631	131			2,833		100.6			

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Polk Hall											No. of Rooms = 2
PK 128A	210	725	55	13	26	361	6.6	15.0	1,320	0.27	44%
PK 23	210	1,084	20	54	15	226	11.3	15.6	480	0.47	73%
Average		905	38	24.1	20		7.8	15.3		0.33	58%
Total		1,809	75			587		30.6			
Price Music Center											No. of Rooms = 3
PMC 101	210	1,440	35	41	19	111	3.2	6.0	840	0.13	53%
PMC 110	210	1,957	60	33	28	314	5.2	9.5	1,440	0.22	55%
PMC 120	210	3,374	140	24	98	2,430	17.4	18.0	3,360	0.72	96%
Average		2,257	78	28.8	48		12.1	11.2		0.51	77%
Total		6,771	235			2,855		33.5			
Ricks Hall											No. of Rooms = 1
RI 118	210	822	24	34	17	387	16.1	23.0	576	0.67	70%
Average		822	24	34.3	17		16.1	23.0		0.67	70%
Total		822	24			387		23.0			
Riddick Hall											No. of Rooms = 5
RD 319	210	821	15	55	0	0	0.0	0.0	360	0	0%
RD 336	210	1,315	40	33	28	477	11.9	16.0	960	0.5	75%
RD 340	210	1,197	40	30	18	218	5.5	12.0	960	0.23	45%
RD 460	210	1,682	36	47	32	936	26.0	28.0	864	1.08	93%
RD 464	210	1,037	16	65	0	0	0.0	0.0	384	0	0%
Average		1,210	29	41.2	16		11.1	11.2		0.46	77%
Total		6,052	147			1,631		56.0			
Schaub Food Science Building											No. of Rooms = 1
SFS 124	210	1,138	20	57	19	57	2.9	3.0	480	0.12	95%
Average		1,138	20	56.9	19		2.9	3.0		0.12	95%
Total		1,138	20			57		3.0			
Scott Hall											No. of Rooms = 3
SC 105	210	698	30	23	13	132	4.4	11.0	720	0.18	40%
SC 130	210	720	24	30	7	101	4.2	13.0	576	0.18	32%
SC 158	210	806	24	34	7	93	3.9	13.0	576	0.16	30%
Average		741	26	28.5	9		4.2	12.3		0.17	34%
Total		2,224	78			326		37.0			

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Textiles Complex										No. of Rooms = 9	
TEX 1115	210	2,465	16	154	12	378	23.6	30.0	384	0.98	79%
TEX 1204	210	2,797	43	65	43	215	5.0	5.0	1,032	0.21	100%
TEX 2115	210	1,384	48	29	22	623	13.0	28.0	1,152	0.54	46%
TEX 2119	210	1,038	18	58	17	132	7.3	8.0	432	0.31	92%
TEX 2204	210	1,633	16	102	14	63	3.9	4.5	384	0.16	88%
TEX 3412C	210	922	30	31	24	218	7.3	9.0	720	0.3	81%
TEX 4414	210	1,180	32	37	32	288	9.0	9.0	768	0.38	100%
TEX 4415	210	1,390	48	29	14	109	2.3	8.5	1,152	0.09	27%
TEX 4419	210	1,613	32	50	16	354	11.1	19.0	768	0.46	58%
Average		1,603	31	51.0	22		8.4	13.4		0.35	68%
Total		14,423	283			2,380		121.0			
Thomas Hall										No. of Rooms = 5	
THM 1503	210	987	24	41	19	231	9.6	12.0	576	0.4	80%
THM 1512	210	853	24	36	16	144	6.0	9.0	576	0.25	67%
THM 1518	210	839	24	35	17	186	7.8	10.4	576	0.32	75%
THM 1522	210	862	24	36	16	147	6.1	9.0	576	0.26	68%
THM 1527	210	998	24	42	24	999	41.6	42.0	576	1.73	99%
Average		908	24	37.8	19		14.2	16.5		0.59	86%
Total		4,539	120			1,707		82.4			
Tompkins Hall										No. of Rooms = 1	
T 110	210	560	17	33	18	515	30.3	29.0	408	1.26	104%
Average		560	17	33.0	18		30.3	29.0		1.26	104%
Total		560	17			515		29.0			
Williams Hall										No. of Rooms = 6	
WMS 1400	210	776	24	32	13	173	7.2	13.0	576	0.3	55%
WMS 1403	210	822	36	23	23	245	6.8	11.0	864	0.28	62%
WMS 2125	210	790	20	40	14	209	10.4	14.5	480	0.43	72%
WMS 2302	210	733	24	31	24	576	24.0	24.0	576	1	100%
WMS 2306	210	683	18	38	18	105	5.8	6.0	432	0.24	97%
WMS 2417	210	821	24	34	11	120	5.0	10.0	576	0.21	50%
Average		771	24	31.7	17		9.8	13.1		0.41	76%
Total		4,626	146			1,428		78.5			
Winston Hall										No. of Rooms = 1	
WN 133	210	591	20	30	17	309	15.5	18.0	480	0.64	86%
Average		591	20	29.5	17		15.5	18.0		0.64	86%
Total		591	20			309		18.0			

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Withers Hall										No. of Rooms = 3	
WI 131	210	1,271	40	32	11	112	2.8	10.0	960	0.12	28%
WI 243	210	281	6	47	0	0	0.0	0.0	144	0	0%
WI 246	210	310	15	21	12	69	4.6	6.0	360	0.19	77%
Average		621	20	30.5	7		3.0	5.3		0.12	46%
Total		1,862	61			181		16.0			
AVERAGE		1,189	29	41.2	18		12.3	16.7		0.51	77%
TOTAL		236,583	5,743			70,774		3,324.3	137,832		
NO. OF ROOMS		199									

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Class Labs Utilization Analysis by Department

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Room ID	Space Use Code	Assignable Sq. Ft.	No. of Stations	Assignable Sq. Ft. Per Station	Average Enrollment	Weekly Student Contact Hours	Weekly Seat Hours	Weekly Room Hours	Seat Fill Rate
Academic and Student Affairs									No. of Rooms = 8
Music									No. of Rooms = 8
BR 1402	210	1,272	94	14	33	498	5.3	15.0	35%
BR 1403	210	1,270	55	23	14	168	3.1	12.0	25%
BR 1404	210	1,279	30	43	15	180	6.0	12.0	50%
BR 2405	210	904	24	38	23	351	14.6	15.0	98%
BR 2408	210	897	24	37	17	99	4.1	6.0	69%
PMC 101	210	1,440	35	41	19	111	3.2	6.0	53%
PMC 110	210	1,957	60	33	28	314	5.2	9.5	55%
PMC 120	210	3,374	140	24	98	2,430	17.4	18.0	96%
Academic and Student Affairs Summary									
Average		1,549	58	26.8	31		9.0	11.7	63%
Total		12,392	462			4,151		93.5	
College of Agriculture and Life Science									No. of Rooms = 41
Agricultural and Human Sciences									No. of Rooms = 1
RI 118	210	822	24	34	17	387	16.1	23.0	70%
Animal Science									No. of Rooms = 4
RD 336	210	1,315	40	33	28	477	11.9	16.0	75%
RD 340	210	1,197	40	30	18	218	5.5	12.0	45%
RD 460	210	1,682	36	47	32	936	26.0	28.0	93%
RD 464	210	1,037	16	65	0	0	0.0	0.0	0%
Average		1,308	33	39.6	20		12.4	14.0	77%
Total		5,230	132			1,631		56.0	
Applied Ecology									No. of Rooms = 3
DCL 282	210	1,198	24	50	22	453	18.9	21.0	90%
DCL 283	210	1,201	24	50	12	108	4.5	9.0	50%
DCL 287	210	1,201	24	50	23	555	23.1	24.0	96%
Average		1,200	24	50.0	19		15.5	18.0	86%
Total		3,600	72			1,116		54.0	
Biochemistry									No. of Rooms = 3
BR 2101	210	2,288	16	143	20	156	9.8	8.0	122%
PK 128A	210	725	55	13	26	361	6.6	15.0	44%
PK 23	210	1,084	20	54	15	226	11.3	15.6	73%
Average		1,366	30	45.0	20		8.2	12.9	72%
Total		4,097	91			743		38.6	
Biological And Agri Engr									No. of Rooms = 3
DSW 125	210	914	38	24	18	186	4.9	11.0	44%
DSW 142	210	640	18	36	15	212	11.8	14.0	84%
GRL 1105	210	672	24	28	17	66	2.8	4.0	69%

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Average		742	27	27.8	16		5.8	9.7	67%
Total		2,225	80			464		29.0	
Biotechnology Teaching									No. of Rooms = 4
JOR 6109	210	857	16	54	22	493	30.8	20.0	154%
JOR 6114	210	969	18	54	15	38	2.1	2.5	83%
JOR 6117	210	830	35	24	18	350	10.0	18.0	56%
JOR 6136	210	830	16	52	10	149	9.3	13.0	71%
Average		872	21	41.0	16		12.1	13.4	97%
Total		3,486	85			1,029		53.5	
Crop & Soil Sciences									No. of Rooms = 6
WMS 1400	210	776	24	32	13	173	7.2	13.0	55%
WMS 1403	210	822	36	23	23	245	6.8	11.0	62%
WMS 2125	210	790	20	40	14	209	10.4	14.5	72%
WMS 2302	210	733	24	31	24	576	24.0	24.0	100%
WMS 2306	210	683	18	38	18	105	5.8	6.0	97%
WMS 2417	210	821	24	34	11	120	5.0	10.0	50%
Average		771	24	31.7	17		9.8	13.1	76%
Total		4,626	146			1,428		78.5	
Entomology & Plant Pathology									No. of Rooms = 4
GA 1406	210	1,050	18	58	11	120	6.7	12.0	56%
GA 1418	210	923	24	38	17	193	8.0	11.3	71%
GA 4302	210	716	24	30	9	51	2.1	6.0	35%
GA 4310	210	825	24	34	6	36	1.5	6.0	25%
Average		879	23	39.0	10		4.4	8.8	52%
Total		3,514	90			400		35.3	
Food, Bioprocessing & Nutrition Sciences									No. of Rooms = 1
SFS 124	210	1,138	20	57	19	57	2.9	3.0	95%
Horticultural Science									No. of Rooms = 4
FOX B21	210	997	24	42	19	222	9.3	12.0	77%
FOX B31	210	950	40	24	21	410	10.3	16.8	61%
HHH 112	210	980	28	35	21	246	8.8	12.0	73%
KI 72	210	1,237	20	62	10	93	4.7	9.0	52%
Average		1,041	28	37.2	17		8.7	12.5	66%
Total		4,164	112			971		49.8	
Plant and Microbial Biology									No. of Rooms = 5
BOS 4706A	210	1,072	24	45	15	273	11.4	18.0	63%
BOS 4706D	210	1,072	24	45	19	174	7.3	9.0	81%
BOS 4707	210	1,060	24	44	18	195	8.1	11.0	74%
GA 2206	210	765	28	27	11	33	1.2	4.0	29%
GA 2212	210	755	28	27	15	45	1.6	3.0	54%

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Average		945	26	36.9	16		5.6	9.0	66%
Total		4,724	128			720		45.0	
Poultry Science									No. of Rooms = 3
SC 105	210	698	30	23	13	132	4.4	11.0	40%
SC 130	210	720	24	30	7	101	4.2	13.0	32%
SC 158	210	806	24	34	7	93	3.9	13.0	30%
Average		741	26	28.5	9		4.2	12.3	34%
Total		2,224	78			326		37.0	
College of Agriculture and Life Science Summary									
Average		972	26	37.7	16		8.8	12.3	72%
Total		39,851	1,058			9,272		502.7	
College of Design									No. of Rooms = 37
Architecture									No. of Rooms = 4
BS 108	210	1,019	21	49	11	132	6.3	12.0	52%
BS 109	210	1,027	22	47	11	132	6.0	12.0	50%
BS 305	210	3,529	75	47	49	924	12.3	18.0	68%
KAM A300	210	5,396	95	57	42	1,134	11.9	18.0	66%
Average		2,743	53	51.5	28		10.9	15.0	61%
Total		10,971	213			2,322		60.0	
Art And Design									No. of Rooms = 7
BS 112	210	818	21	39	9	108	5.1	12.0	43%
BS 114	210	806	30	27	7	72	2.4	11.5	21%
LEZ 230	210	1,388	16	87	11	126	7.9	12.0	66%
LEZ 230D	210	1,434	18	80	8	120	6.7	16.0	42%
LEZ 321B	210	1,432	20	72	15	120	6.0	8.0	75%
LEZ 325A	210	1,456	28	52	26	208	7.4	8.0	93%
LEZ 325B	210	1,452	30	48	28	252	8.4	9.0	93%
Average		1,255	23	53.9	15		6.2	10.9	57%
Total		8,786	163			1,006		76.5	
College of Design									No. of Rooms = 7
BS 212A	210	911	38	24	6	18	0.5	3.0	16%
KAM A401	210	1,387	18	77	11	132	7.3	12.0	61%
LEZ 302	210	2,913	58	50	21	496	8.6	24.0	36%
LEZ 304	210	2,941	57	52	20	480	8.4	24.0	35%
LEZ 310	210	822	30	27	24	471	15.7	18.0	87%
LEZ 312	210	544	20	27	10	160	8.0	16.0	50%
LEZ 321A	210	1,477	35	42	24	438	12.5	18.0	70%
Average		1,571	37	42.9	17		8.6	16.4	53%
Total		10,995	256			2,195		115.0	

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Graphic & Industrial Design									No. of Rooms = 7
BS 105	210	1,067	30	36	13	156	5.2	12.0	43%
BS 107	210	632	15	42	14	168	11.2	12.0	93%
BS 316	210	909	16	57	11	116	7.2	11.5	63%
BS 316A	210	911	20	46	14	167	8.3	11.5	72%
BS 319	210	890	18	49	13	144	8.0	11.5	70%
BS 320	210	1,009	26	39	14	167	6.4	11.5	56%
KAM G40	210	713	13	55	12	96	7.4	8.0	92%
Average		876	20	44.4	13		7.3	11.1	69%
Total		6,132	138			1,013		78.0	
Industrial Design									No. of Rooms = 8
LEZ 240	210	1,282	20	64	10	80	4.0	8.0	50%
LEZ 240A	210	1,290	16	81	13	104	6.5	8.0	81%
LMP 101	210	920	12	77	12	138	11.5	12.0	96%
LMP 110	210	2,037	24	85	13	39	1.6	3.0	54%
LMP 118B	210	2,909	41	71	13	213	5.2	17.0	30%
LMP 120	210	1,534	21	73	19	162	7.7	8.5	90%
LMP 123	210	986	20	49	16	235	11.8	16.0	73%
LMP 131	210	1,335	25	53	23	253	10.1	11.0	92%
Average		1,537	22	68.7	15		6.8	10.4	70%
Total		12,292	179			1,223		83.5	
Information Technology Lab									No. of Rooms = 3
BS 202	210	708	19	37	15	90	4.7	6.0	79%
BS 203C	210	605	24	25	21	291	12.1	15.0	81%
BS 203D	210	604	24	25	19	306	12.8	16.0	80%
Average		639	22	28.6	18		10.3	12.3	80%
Total		1,917	67			687		37.0	
Landscape Architecture									No. of Rooms = 1
KAM A200	210	4,448	86	52	25	705	8.2	27.8	30%
College of Design Summary									
Average		1,501	30	50.4	17		8.3	12.9	61%
Total		55,540	1,102			9,151		477.8	
College of Education									No. of Rooms = 4
College of Education									No. of Rooms = 1
POE 106	210	1,999	60	33	50	1,776	29.6	35.6	83%
Science, Technology, Engineering & Math Education (STEM)									No. of Rooms = 3
POE 103	210	837	20	42	17	204	10.2	12.0	85%
POE 122	210	989	25	40	19	452	18.1	24.0	75%
POE 742	210	806	26	31	14	401	15.4	29.0	53%

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Average		877	24	37.1	17		14.9	21.7	67%
Total		2,632	71			1,057		65.0	
College of Education Summary									
Average		1,158	33	35.4	25		21.6	25.2	73%
Total		4,631	131			2,833		100.6	
College of Engineering									
									No. of Rooms = 37
Biomedical Program-Engineering									No. of Rooms = 4
EB3 4101	210	487	16	30	17	242	15.1	14.0	108%
EB3 4114	210	733	20	37	18	379	19.0	22.0	86%
EB3 4118	210	766	26	29	10	80	3.1	8.0	38%
EB3 4201	210	1,827	20	91	15	342	17.1	22.0	78%
Average		953	21	46.5	15		12.7	16.5	82%
Total		3,812	82			1,043		66.0	
BTEC-Biomanufacturing Training Education Center									No. of Rooms = 10
BTC 105	210	968	20	48	20	100	5.0	5.0	100%
BTC 110	210	998	20	50	17	125	6.3	7.5	83%
BTC 112	210	1,000	20	50	18	213	10.7	12.1	88%
BTC 140A	210	1,064	12	89	13	63	5.2	5.0	104%
BTC 142A	210	1,118	12	93	12	60	5.0	5.0	100%
BTC 144A	210	1,122	12	94	12	284	23.7	23.7	100%
BTC 146A	210	1,010	12	84	12	311	25.9	25.9	100%
BTC 252A	210	1,558	16	97	15	75	4.7	5.0	94%
BTC 257	210	648	11	59	9	118	10.7	12.5	85%
BTC 258	210	756	13	58	10	75	5.8	7.5	77%
Average		1,024	15	69.2	14		9.6	10.9	94%
Total		10,242	148			1,424		109.2	
Chemical & Biomolecular Engineering									No. of Rooms = 1
EB1 1016	210	3,167	63	50	20	312	5.0	16.0	31%
Civil, Const & Env Engineering									No. of Rooms = 4
FWH 1152	210	969	8	121	3	3	0.4	1.0	38%
FWH 1321	210	1,328	24	55	17	168	7.0	10.0	70%
FWH 3137	210	1,443	24	60	18	108	4.5	6.0	75%
FWH 3270	210	1,376	46	30	9	105	2.3	12.0	19%
Average		1,279	26	50.2	12		3.8	7.3	49%
Total		5,117	102			384		29.0	
College of Engineering									No. of Rooms = 1
MRC 136	210	932	46	20	14	414	9.0	30.0	30%
Computer Science-Engr									No. of Rooms = 4
EB3 1202A	210	1,610	46	35	22	256	7.7	16.0	49%

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LMP 200	210	1,498	47	32	39	858	18.3	22.0	83%
LMP 255	210	1,294	33	39	35	726	22.0	21.0	105%
Average		1,334	38	34.9	30		18.1	23.1	85%
Total		5,335	153			2,770		92.5	
Electrical & Computer Engr.									No. of Rooms = 4
EB2 1014	210	587	32	18	27	372	11.6	14.0	83%
EB2 1026	210	886	26	34	22	1,077	41.4	48.0	86%
EB2 1028	210	585	32	18	22	218	6.8	10.0	68%
EB2 1032	210	831	20	42	13	201	10.1	15.0	67%
Average		722	28	26.3	21		17.0	21.8	80%
Total		2,890	110			1,868		87.0	
Engineering Online									No. of Rooms = 1
EB3 2213	210	1,726	84	21	46	1,788	21.3	39.0	55%
Fitts Dept Indust & Syst Engr									No. of Rooms = 2
FWH 2125	210	1,022	40	26	11	55	1.4	5.0	28%
FWH 4290	210	1,972	80	25	51	1,072	13.4	22.0	61%
Average		1,497	60	24.9	31		9.4	13.5	55%
Total		2,993	120			1,127		27.0	
Materials Science & Engineering									No. of Rooms = 1
EB1 3003	210	875	36	24	18	54	1.5	3.0	50%
Mechanical & Aerospace Engr									No. of Rooms = 4
EB3 1201	210	666	25	27	25	198	7.9	8.0	99%
EB3 2206	210	1,081	30	36	18	290	9.7	16.0	60%
EB3 2208	210	969	30	32	18	424	14.1	24.0	59%
EB3 2216	210	648	20	32	19	458	22.9	24.0	95%
Average		841	26	32.0	20		13.0	18.0	76%
Total		3,365	105			1,370		72.0	
Nuclear Engr									No. of Rooms = 1
BU 3109	210	325	10	33	4	21	2.1	6.0	35%
College of Engineering Summary									
Average		1,102	29	38.5	19		11.9	15.6	74%
Total		40,779	1,059			12,574		576.7	
College of Humanities & Social Sciences									No. of Rooms = 7
CHASS Deans Office									No. of Rooms = 1
WN 133	210	591	20	30	17	309	15.5	18.0	86%
CHASS IT									No. of Rooms = 1
NIN 110	210	916	25	37	15	290	11.6	21.0	55%

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English									No. of Rooms = 1
T 110	210	560	17	33	18	515	30.3	29.0	104%
Foreign Languages And Lit									No. of Rooms = 1
WI 131	210	1,271	40	32	11	112	2.8	10.0	28%
History									No. of Rooms = 2
WI 243	210	281	6	47	0	0	0.0	0.0	0%
WI 246	210	310	15	21	12	69	4.6	6.0	77%
Average		295	11	28.1	6		3.3	3.0	77%
Total		591	21			69		6.0	
Sociology & Anthropology									No. of Rooms = 1
PS 222	210	1,110	24	46	20	120	5.0	6.0	83%
College of Humanities & Social Sciences Summary									
Average		720	21	34.3	13		9.6	12.9	77%
Total		5,039	147			1,415		90.0	
College of Natural Resources									No. of Rooms = 7
College of Natural Resources									No. of Rooms = 4
BI 2026	210	973	24	41	8	90	3.8	12.0	31%
BI 3032	210	959	24	40	24	396	16.5	17.0	97%
JHA 3214	210	1,024	36	28	23	321	8.9	15.0	59%
JOR 5103	210	863	40	22	11	185	4.6	17.0	27%
Average		955	31	30.8	16		8.0	15.3	55%
Total		3,819	124			992		61.0	
Forest Biomaterials									No. of Rooms = 1
HWP 105	210	730	21	35	22	517	24.6	24.0	103%
Forestry and Environmental Resources Academic Research									No. of Rooms = 2
JHA 2214	210	1,715	36	48	24	96	2.7	4.0	67%
JHA 2230	210	1,699	36	47	12	108	3.0	9.0	33%
Average		1,707	36	47.4	18		2.8	6.5	44%
Total		3,414	72			204		13.0	
College of Natural Resources Summary									
Average		1,138	31	36.7	17		7.9	14.0	65%
Total		7,963	217			1,713		98.0	
College of Sciences									No. of Rooms = 47
Biological Sciences									No. of Rooms = 16
BOS 3706A	210	1,061	24	44	23	819	34.1	36.0	95%
BOS 3706E	210	1,072	24	45	23	909	37.9	39.0	97%
BOS 3707A	210	1,072	24	45	22	978	40.8	45.0	91%
BOS 3707E	210	1,072	24	45	22	663	27.6	30.0	92%

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BOS 4705A	210	1,061	24	44	10	114	4.8	12.0	40%
BOS 4705E	210	1,072	24	45	32	636	26.5	20.0	133%
DCL 182	210	1,189	24	50	22	597	24.9	27.0	92%
DCL 183	210	1,192	24	50	20	609	25.4	30.0	85%
DCL 186	210	1,198	24	50	20	480	20.0	24.0	83%
DCL 187	210	1,202	24	50	17	666	27.8	39.0	71%
DCL 286	210	1,198	24	50	13	120	5.0	9.0	56%
THM 1503	210	987	24	41	19	231	9.6	12.0	80%
THM 1512	210	853	24	36	16	144	6.0	9.0	67%
THM 1518	210	839	24	35	17	186	7.8	10.4	75%
THM 1522	210	862	24	36	16	147	6.1	9.0	68%
THM 1527	210	998	24	42	24	999	41.6	42.0	99%
Average		1,058	24	44.1	20		21.6	24.6	88%
Total		16,928	384			8,298		393.4	

Chemistry

No. of Rooms = 17

DAB 316	210	1,229	18	68	14	243	13.5	18.0	75%
DAB 425	210	912	12	76	8	165	13.8	22.0	63%
DAB 608	210	1,529	12	127	8	96	8.0	12.0	67%
FOX 117	210	1,278	20	64	17	405	20.3	24.0	84%
FOX 121	210	1,276	20	64	17	597	29.9	36.0	83%
FOX 212	210	1,219	20	61	20	748	37.4	38.0	98%
FOX 216	210	1,253	20	63	19	738	36.9	38.0	97%
FOX 217	210	1,279	20	64	18	691	34.6	39.0	89%
FOX 221	210	1,276	20	64	20	744	37.2	38.0	98%
FOX 222	210	1,253	20	63	19	738	36.9	38.0	97%
FOX 226	210	1,220	20	61	19	738	36.9	38.0	97%
FOX 312	210	1,219	20	61	17	450	22.5	27.0	83%
FOX 316	210	1,253	20	63	19	573	28.7	30.0	96%
FOX 317	210	1,279	20	64	40	1,080	54.0	27.0	200%
FOX 321	210	1,276	24	53	41	1,242	51.8	30.0	173%
FOX 322	210	1,253	20	63	23	483	24.2	21.0	115%
FOX 326	210	1,220	20	61	17	360	18.0	21.0	86%
Average		1,248	19	65.1	20		31.0	29.2	101%
Total		21,220	326			10,091		497.0	

College of Sciences

No. of Rooms = 2

COX 105	210	2,254	99	23	76	1,909	19.3	24.0	80%
COX 110	210	1,859	81	23	35	1,036	12.8	28.6	45%
Average		2,056	90	22.8	56		16.4	26.3	61%
Total		4,113	180			2,945		52.6	

Marine Earth & Atmospheric Science

No. of Rooms = 5

JHA 4214	210	1,379	24	57	22	620	25.8	29.0	89%
JOR 2104	210	832	24	35	16	141	5.9	9.0	65%
JOR 2106	210	836	24	35	10	153	6.4	15.0	43%
JOR 2115	210	989	35	28	10	201	5.7	19.0	30%
JOR 5131	210	732	30	24	13	257	8.6	21.0	41%

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Average		954	27	34.8	14		10.0	18.6	56%
Total		4,768	137			1,372		93.0	
Physics									No. of Rooms = 7
FOX 112	210	906	24	38	26	1,386	57.8	54.0	107%
FOX 116	210	940	24	39	23	496	20.7	22.0	94%
FOX 120	210	921	24	38	27	1,136	47.3	42.0	113%
FOX 126	210	921	24	38	16	876	36.5	54.0	68%
FOX 128	210	940	24	39	14	446	18.6	32.0	58%
FOX 132	210	906	24	38	10	240	10.0	24.0	42%
RD 319	210	821	15	55	0	0	0.0	0.0	0%
Average		908	23	40.0	16		28.8	32.6	84%
Total		6,355	159			4,580		228.0	
College of Sciences Summary									
Average		1,136	25	45.0	20		23.0	26.9	89%
Total		53,384	1,186			27,286		1,264.0	
Poole College of Management									No. of Rooms = 2
Computing Svs Coll Of Mgmt									No. of Rooms = 2
N B400	210	928	38	24	0	0	0.0	0.0	0%
N B410	210	1,653	60	28	0	0	0.0	0.0	0%
Poole College of Management Summary									
Average		1,291	49	26.3	0		0.0	0.0	0%
Total		2,582	98			0		0.0	
Wilson College of Textiles									No. of Rooms = 9
College of Textiles									No. of Rooms = 1
TEX 2115	210	1,384	48	29	22	623	13.0	28.0	46%
Textile & Apparel Tech & Mgmt									No. of Rooms = 6
TEX 1115	210	2,465	16	154	12	378	23.6	30.0	79%
TEX 2204	210	1,633	16	102	14	63	3.9	4.5	88%
TEX 3412C	210	922	30	31	24	218	7.3	9.0	81%
TEX 4414	210	1,180	32	37	32	288	9.0	9.0	100%
TEX 4415	210	1,390	48	29	14	109	2.3	8.5	27%
TEX 4419	210	1,613	32	50	16	354	11.1	19.0	58%
Average		1,534	29	52.9	19		8.1	13.3	71%
Total		9,204	174			1,410		80.0	
Textile Engr Chemistry & Sci									No. of Rooms = 2
TEX 1204	210	2,797	43	65	43	215	5.0	5.0	100%
TEX 2119	210	1,038	18	58	17	132	7.3	8.0	92%
Average		1,918	31	62.9	30		5.7	6.5	95%

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Wilson College of Textiles Summary									
	Average	1,603	31	51.0	22		8.4	13.4	68%
	Total	14,423	283			2,380		121.0	
CAMPUS									
	AVERAGE	1,189	29	41.2	18		12.3	16.7	77%
	TOTAL	36,583	5,743			70,774		3,324.3	
	NO. OF ROOMS	199							



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