

**2021 FACILITIES INVENTORY
AND UTILIZATION STUDY**
for
The University of North Carolina System
Fifty-Fifth Edition



Apodaca Science Building, Western Carolina University

September 2023

Apodaca Science Building

Western Carolina University

(Cover Page)

In July 2022, the \$110.5 million state-of-the-art Apodaca Science Building replaced the 1970's-era Natural Science Building with the largest capital project from the voter-approved Connect NC bond for infrastructure improvements. The building is named after former state Senator Tom Apodaca, a 1980, WCU alumnus.

The multi-level building is 182,989 square feet and features five stories of laboratory, classroom, assembly space, 150-person seat lecture hall, office space, and a collaborative space. There is an additional rooftop plaza level for astronomy observations and a greenhouse. The facility is home to the Department of Biology, Department of Chemistry and Physics and the interdisciplinary program in Forensic Science. The new science building is of great importance to the university's mission and the chancellor's vision for WCU.

Hundreds of students can now learn the latest techniques and approaches that can be applied to real-world research. This building could not have come at a better time, according to David Kinner, dean of the College of Arts and Sciences, since science is always advancing at a rapid pace. "Science is a very collaborative endeavor. We have always performed a lot of research with our students, but this new building, for the first time, allows us to have better working spaces to perform research in a shared lab experience," said Kinner. Shared labs, or research neighborhoods, are large spaces where more than one team can research at the same time and/or collaborate on a larger project. The shared labs serve as a combined space with people who have similar equipment and space needs. While in these spaces, students use the same industry-approved lab instruments that instructors will use. New student workspaces are equipped with monitors and desks outside the classroom, and a dedicated extensive garden home to native species of plants, which enhances learning beyond the textbook.

Although what people see today is a new building above ground, faculty, and students, along with archaeologists from TRC Environmental Corporation, found the remains of an ancestral Cherokee community beneath the property.

From 2017-2018, the group carried out archaeological surveys and excavations under the footprint of the Apodaca Science Building. Some of the most significant finds included ceramics dating to the Late Woodland (600-900 CE), Early Pisgah (1000-1200 CE) and Qualla (1400-1838 CE) time periods. Under the old Josefina Niggli Theater, which was demolished to make way for the new science building, archaeologists from TRC uncovered and mapped the post hole patterns of two ancestral Cherokee houses, most likely dating to the Early Pisgah phase.

"These finds are very significant," said Ben Steere, director of WCU's Cherokee Studies Program and an associate professor of anthropology. "We know that WCU is built on the Cherokee town of Tali Tsigwayahi (Two Sparrows Town), and these ancient houses, ceramics and stone tools are additional material evidence of this ancestral Cherokee heritage on WCU's campus. Documenting, preserving, and teaching the campus community about this heritage is one important way for us to honor WCU's special relationship with the Eastern Band of Cherokee Indians."

The Apodaca Science Building is likely the most significant addition to WCU's main campus in more than two decades. Its impact will reach far beyond Cullowhee into the region and beyond.

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Participating Institutions

UNIVERSITY OF NORTH CAROLINA SYSTEM

By Carnegie Classification <https://carnegieclassifications.iu.edu/>

Doctoral Universities: Very High Research Activity

	<u>Chancellor</u>	<u>Project Officer</u>
NC State University	Randy Woodson	Sally Rau, Facilities, Information Manager
UNC-Chapel Hill	Kevin M. Guskiewicz	Suzanne Canipe, Space Information Analyst

Doctoral Universities: High Research Activity

East Carolina University	Philip Rogers	Kim Higdon, Space Analyst
N.C. A & T State University	Harold L. Martin, Sr.	Sharika Cochran, University Space Planner
UNC Charlotte	Sharon L. Gaber	Steve Coppola, Provost for Inst. Research
UNC Greensboro	Franklin D. Gilliam, Jr.	Steve Morley, Dir. Space Management
UNC Wilmington	Aswani Volety	Nicholas Troutman, University Space Planner

Doctoral/Professional Universities

Western Carolina University	Kelli R. Brown	Trista Middleton, Research Specialist
Winston-Salem State University	Elwood L. Robinson	Ronald E Vanard, Architect

Master's (Comprehensive) Universities and Colleges

Appalachian State University	Sheri N. Everts	Heather Langdon, Executive Director
Fayetteville State University	Darrell T. Allison	Ashlynn McDougall, Planning & Construction
North Carolina Central University	Johnson O. Akinleye	Tim Williams, Design and Construction
UNC Pembroke	Robin G. Cummings	Frank Britt, Project Manager

Baccalaureate Colleges: Arts & Sciences Focus

UNC Asheville	Kimberly van Noort, Interim	Keith Krumpe, Senior Admin-Space Planner
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Baccalaureate Colleges: Diverse Fields

Elizabeth City State University	Karrie Dixon	Fred Okanda, Dir. Inst. Research
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Schools of Art, Music, and Design

UNC School of the Arts	Brian Cole	Jeff Paton, Dir. Inst. Research
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Teaching Hospitals

	<u>Executive Director</u>	<u>Project Officer</u>
UNC Hospitals at Chapel Hill	Gary L. Park	Laura McClamb, Asset Manager

Foreword

This study, the 55th in the annual series of facilities inventory and utilization studies, reflects the campus-reported status of space in University of North Carolina System institutions of higher education at the end of the drop-add period of the 2021 fall term. It also gives indications of the uses being made of the space and provides, where feasible, norms and historical information for the past five years to enable institutions to make their own assessments of their facilities.

The purposes of this study include providing facilities data to state authorities, making data on University of North Carolina System institution facilities available to other commissions for comparative purposes, and providing participating institutions with data, which may be helpful in the management of their facilities. This report presents selected summary information from the assembled data.

The participating institutions are listed in the preceding section and throughout the study according to current Carnegie Classification. In 2021, Western Carolina University and Winston-Salem State University were re-classified from Master's to Doctoral/Professional. The project officers of the participating institutions deserve special recognition for the tremendous job they have done in providing the basic data for this study.

The space utilization data for 2020 was to be considered an anomaly from previous collections due to the COVID-19 outbreak and the resulting move by many institutions to online instruction. Therefore, 2021 utilization data is compared to 2019 to reflect pre-pandemic levels.

The 2021 Facilities Inventory and Utilization Study is being published in its entirety, online, in a format that can be printed front and back. The 2021 study can be found at <https://www.northcarolina.edu/impact/stats-data-reports/facilities-utilization/>

Katherine Lynn

Vice President for Finance and Capital Planning

Table of Contents

Foreword..... vi

Table of Contents..... vii

List of Tables viii

Introduction ix

Executive Summary..... E1

I. Utilization of Instructional Space..... 1

II. Room Space Characteristics..... 36

III. Building Characteristics..... 67

Institutional Index107

Bibliography108

Index.....109

Appendices.....112

List of Tables

Utilization of Instructional Space

1. Capacity/Enrollment Ratio	5	7. Percent Student Station Utilization, Classrooms and Class Laboratories	18
2. Square Feet of Academic Facilities per FTE Student	8	8. Student Clock Hours of Instruction	20
3. Average Weekly Room Hours of Instruction in Classrooms.....	10	9. Space Factors	25
4. Average Weekly Room Hours of Instruction in Class Laboratories.....	12	10. Range of Selected Space Utilization Indices.....	27
5. Average Weekly Use of Student Stations in Classrooms.....	14	11. Space Standards	29
6. Average Weekly Use of Student Stations in Class Laboratories.....	16	12. Enrollments	34
		a. FTE Enrollments by Institution	35

Room Space Characteristics

13. Net-To-Gross Ratio	38	15. Assignable Area by Room Code	58
14. Percentage Distribution of Assignable Area by Summary Programs	41	16. Assignable Square Feet per Student Station for Classrooms	64
a. Instruction, Research & Public Service Subprograms	45	17. Assignable Square Feet per Student Station for Class Laboratories	66
b. Academic Support Subprograms	48		
c. Student Service and Physical Plant Operations Subprograms	50		
d. Institutional Administration, Independent Operations and Unassigned Subprograms..	54		

Building Characteristics

18. Ownership of Buildings.....	70	25. Accessible Area by Summary Programs and Subprograms	92
19. Capital Investment, Non-Residential Buildings .	74	a. Instruction, Research & Public Service Subprograms.....	94
20. Capital Investment, Residential Buildings	75	b. Academic Support Subprograms	97
21. Age of Buildings Reported by Gross Square Feet	78	c. Student Service and Physical Plant Operations Subprograms.....	99
22. Condition of Buildings.....	82	d. Institutional Administration, Independent Operations and Unassigned Subprograms	101
23. Estimated Cost to Renovate or Replace Unsatisfactory Facilities.....	87	26. Accessible Area by Room Code	104
24. Accessible Area as a Percentage of Assignable	90		

Introduction

The primary purpose of the Facilities Inventory and Utilization Study is to provide higher education administrators within the University of North Carolina System with a detailed statistical profile of the facilities of their own campuses and of the other universities in the system as a tool for space management and planning. It is published annually by the division of Finance and Administration.

Institutions Included

The study provides self-reported data for all the 16 public senior institutions, which comprise the University of North Carolina System, as well as UNC Hospitals at Chapel Hill, a part of the University of North Carolina System. The institutions are listed by Carnegie Classification in each table, and by type on page v along with the name of the chancellor and the project officer for each school. An alphabetical listing of these institutions can be found on page 107.

Due to the unique facilities requirements of health affairs complexes and medical schools, data for the Division of Health Affairs at East Carolina University and the University of North Carolina at Chapel Hill are listed separately from their parent campuses. For similar reasons, the Facilities Inventory and Utilization Study separately lists the data for North Carolina State University's College of Veterinary Medicine.

Types of Data Collected

The study is divided into sections that reflect the three broad categories of facilities data which are reported: room characteristics, building characteristics, and the utilization of instructional space. The section dealing with room characteristics statistically describes campus space by its uses and the programs to which it is assigned. It also provides data relating the sizes and capacities of classrooms and class laboratories. The building characteristics section focuses on such data elements as building age, condition, and replacement cost. The section on the utilization of instructional space provides ratios, percentages, and indices, which relate the amount of instructional activity at an institution to various categories of campus space.

This study is designed to provide only a self-reported "snapshot" of institutional facilities at a particular point in time. Facilities data reflect all buildings that were completed as of October 1 of the year of the study. Utilization data reflect only the courses which were under way as of the drop-add period of the fall term. The data do not consider any instructional activity that occurred during the spring semester.

Procedures Used in Collecting Data

Finance and Administration maintains an annually updated, self-reported computer-based facilities inventory of each institution included in the study comprised of a Room Characteristic Report and a Building Characteristic Report. The Room Characteristic Report lists every room in each building and provides information about its size and capacity. Each room is also coded to reflect its use and the institutional programs that it supports. The Building Characteristic Report provides detailed information about each building on an institution's campus.

Each fall, every institution submits a file containing changes in its facilities inventory occurring since the previous fall via a web-based system named DAVE (Data Additions Validations Edits). This reporting system is based on the physical inventory of each campus that has been made interactive on the web.

Space utilization data are based on the annual submission by each institution of a list of its fall term courses indicating when and where the class is held, and the number of students enrolled. Each institution's course data are compared programmatically to its updated facilities inventory to generate the Instructional Space Utilization Report. This report indicates how effectively an institution uses its facilities and measures its need for classroom and laboratory space.

Both the facilities inventory updates and the utilization data are reviewed carefully, including using extensive computer edits as a means of ensuring accuracy and consistency. When problems are discovered, the institutions are contacted for additional information or corrections. The ultimate responsibility for the accuracy of the data, of course, lies with the individual institutions as they originate the data on which this study is based.

Limitations and Special Situations

This study contains useful information concerning the facilities of institutions in the UNC system and their utilization for instructional purposes. It is important, however, to note two limitations in the data provided.

Although campus facilities would generally be viewed as including such assets as parking lots, tennis courts, and radio control towers, this study is limited to data relating to buildings. For the purposes of the study, a building is defined as any roofed structure. This definition includes trailers and other mobile units.

Due to technical problems in collecting course information from medical schools and related programs, utilization data are not supplied by the Division of Health Affairs at East Carolina University and the University of North Carolina at Chapel Hill, UNC Hospitals at Chapel Hill, or the North Carolina State University College of Veterinary Medicine. Therefore, they are excluded from most of the utilization tables. Separate enrollment figures are provided for these divisions, however, and Table 2 includes utilization data for the Veterinary College and the two Divisions of Health Affairs (although these data are excluded from all totals).

Special situations exist at several institutions that can affect both the reporting and summarization of utilization data. These situations are described below to enable reviewers to make more accurate and fair comparisons among different institutions.

University of North Carolina School of the Arts instructs secondary school students, as well as students at the college level. To reflect this fact, high school courses conducted at the campus were also considered in calculating student clock hours. The high school students were not included in the full-time equivalent enrollment figures for this institution. In Table 2, this has the effect of significantly underestimating the total utilization of academic space for the UNC School of the Arts. It should also be noted that the programs conducted at the UNC School of the Arts inherently require significantly more space per student than at other constituent institutions of the University of North Carolina System. Comparisons of this institution's utilization with that of any other college or university would, therefore, be misleading.

NC State University and North Carolina A&T State University similarly show an above-average square footage of academic facilities per FTE student (Table 2) and understated utilization of academic space in other tables. This is due to the extensive instruction and research programs in Agriculture and Engineering, which require significantly more academic space per FTE student than is typical of other general academic programs.

The primary purpose of the annual Facilities Inventory and Utilization Study (study) is to offer higher education administrators within the University of North Carolina System a detailed statistical profile of the facilities of their own campuses and of the other universities in the system as a tool for space management and planning. The study evaluates self-reported data for UNC institutions with the data carefully reviewed, including extensive use of computer edits as a means of ensuring accuracy and consistency. The ultimate responsibility for the precision of the data, of course, lies with the individual institutions as the source on which this study is based. While each institution has a vested interest in its own space picture, a systemwide overview of key elements of the study provides useful context on the facilities in the UNC System.

In 2021, the UNC System had approximately 92.0 million gross square feet of space and 3,012 buildings including all sixteen campuses and excluding UNC Hospitals.

This study typically looks at the UNC System facilities with a focus on three key areas: **utilization of instructional space, room space characteristics, and building characteristics.**

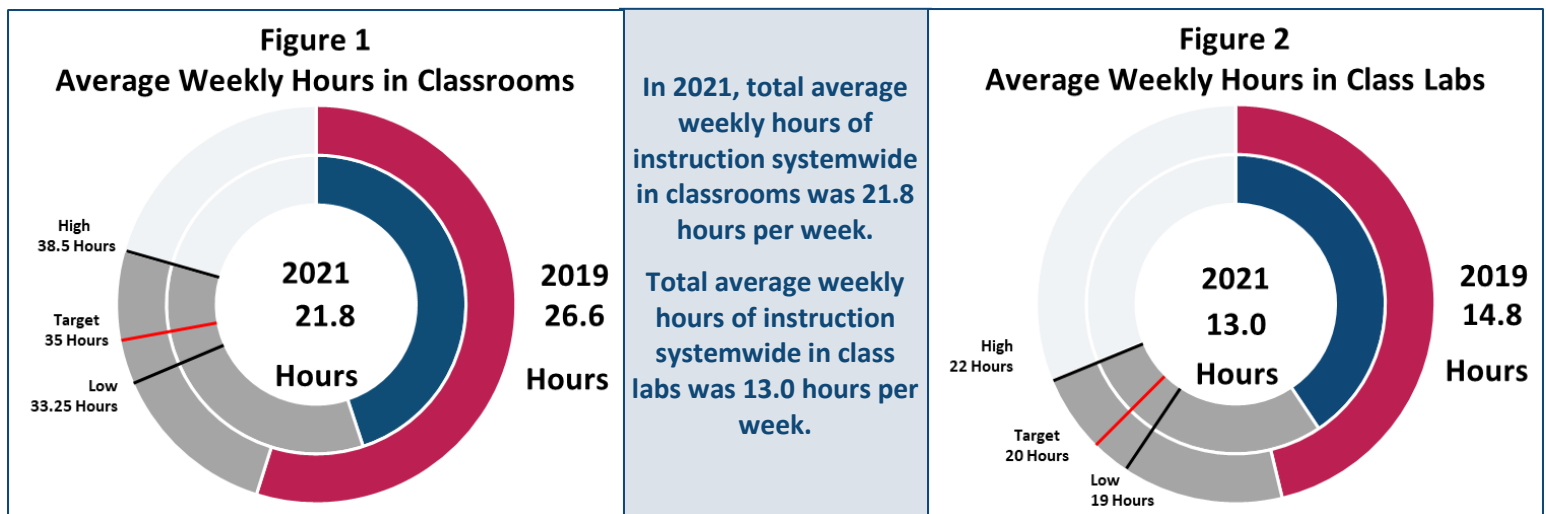
Utilization of Instructional Space

The study looks at several areas to gauge the capacity and utilization of space. This includes two primary measures: the weekly room utilization and the seat fill. The weekly room utilization indicates how often the room is utilized for scheduled classes. The UNC System has set a utilization standard target that each available classroom be scheduled for 35 hours of class instruction per week based on day and evening scheduling, Monday – Friday between 5 a.m. and 11 p.m. **Daytime utilization is based on all class times between and including 5:00 a.m. and 4:59 p.m.; nighttime utilization is based on all other classes.** The average weekly room hours of instruction is calculated by dividing the total room hours of instruction by the total number of rooms. This data is taken from Tables 3 and 4 found on pages 10 and 12 of the study.

The UNC System standard for classrooms is 35 hours per week of scheduled class instruction.

The UNC System standard for class labs is 20 hours per week of scheduled class instruction.

2020 space utilization data is considered an anomaly due to COVID-19. Therefore, 2021 is compared to 2019 data.

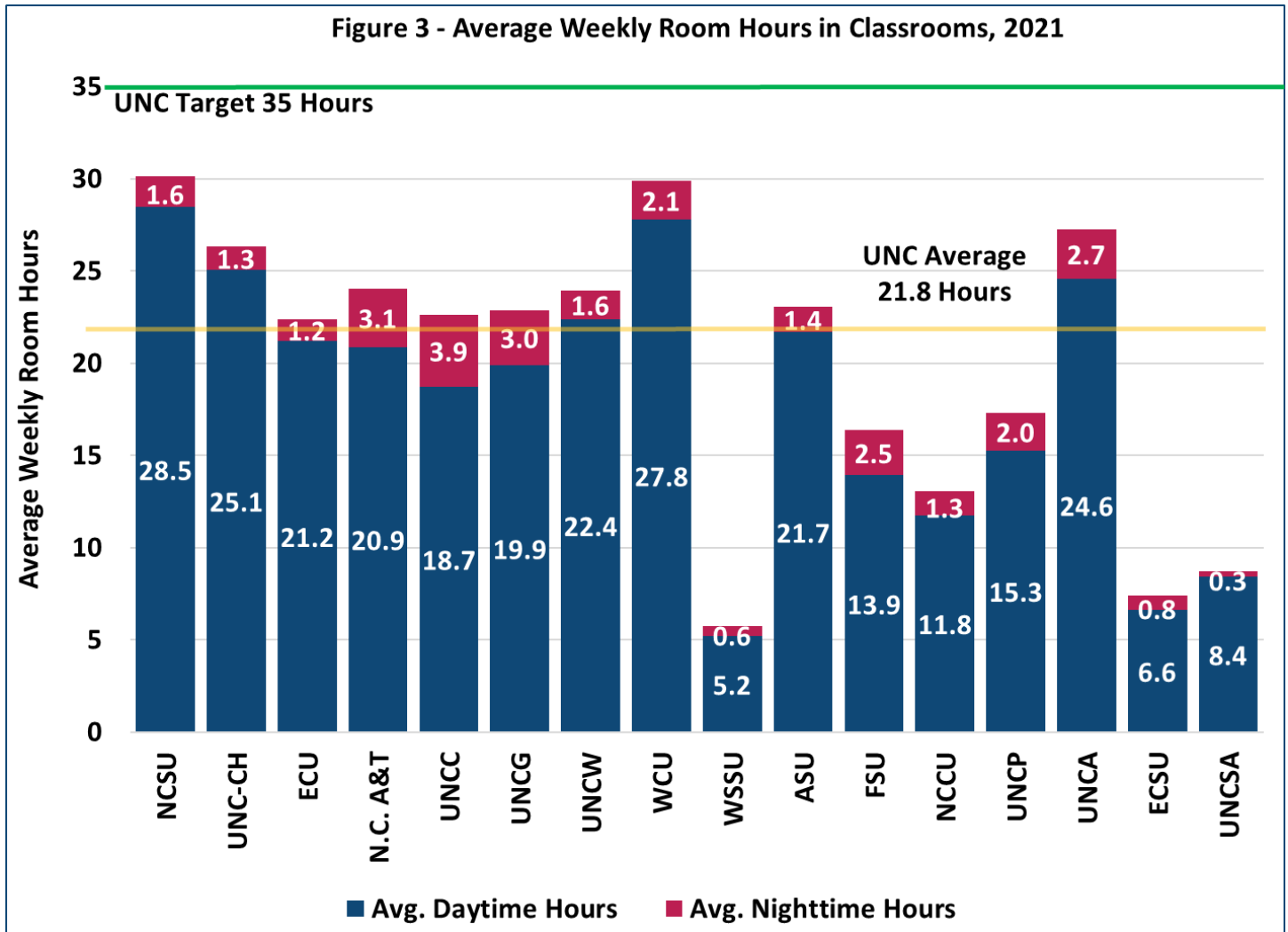


Figures 1 and 2 show the average weekly hours of instruction for classrooms and class labs in 2021.

Source: Table 3

Source: Table 4

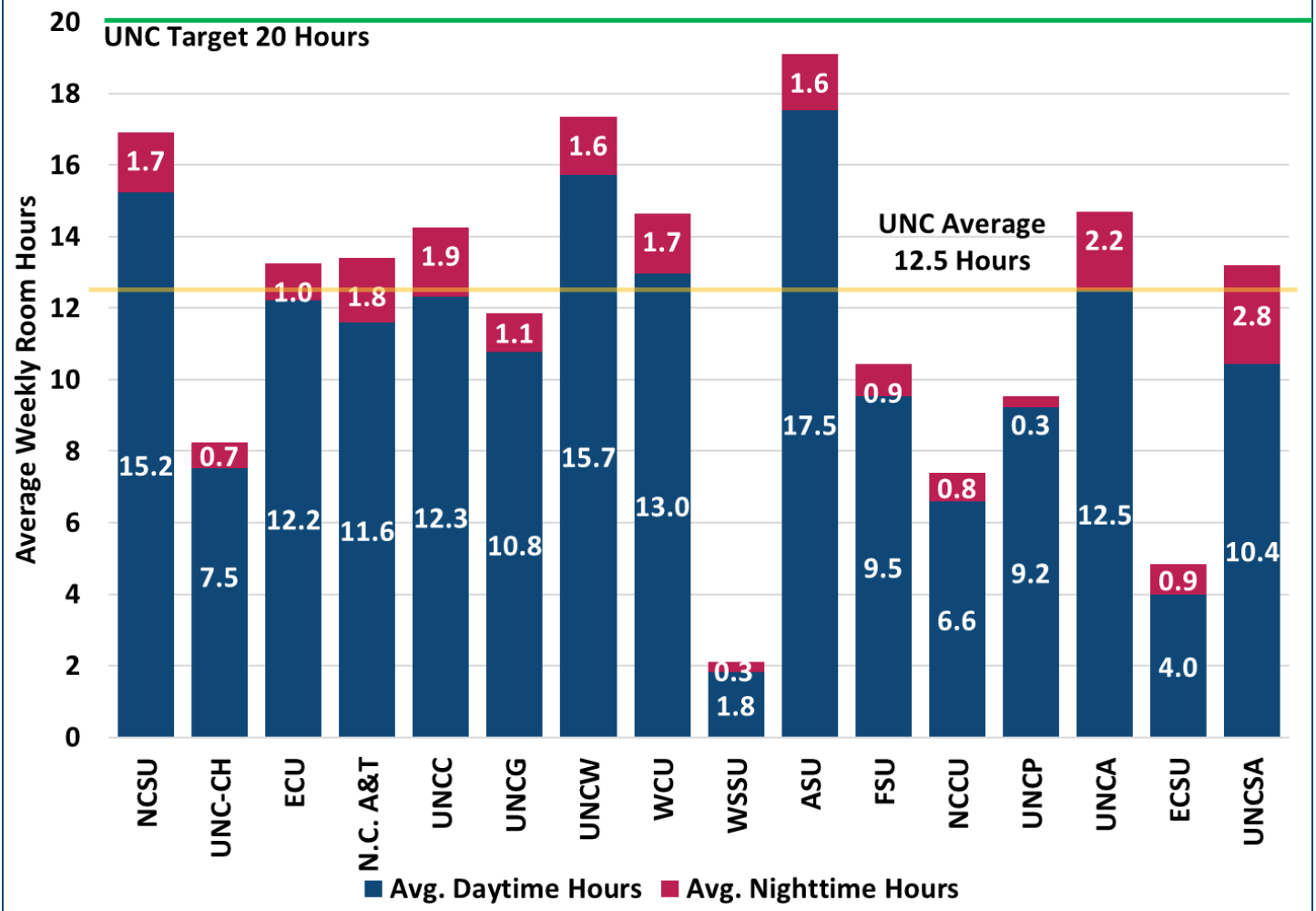
Figure 3 includes a breakdown of average weekly hours for classrooms by institution, and includes additional details on daytime and nighttime room hours.



Source: Table 3

Figure 4, on the next page, includes a breakdown of average weekly hours for class labs by institution and includes additional details on daytime and nighttime room hours.

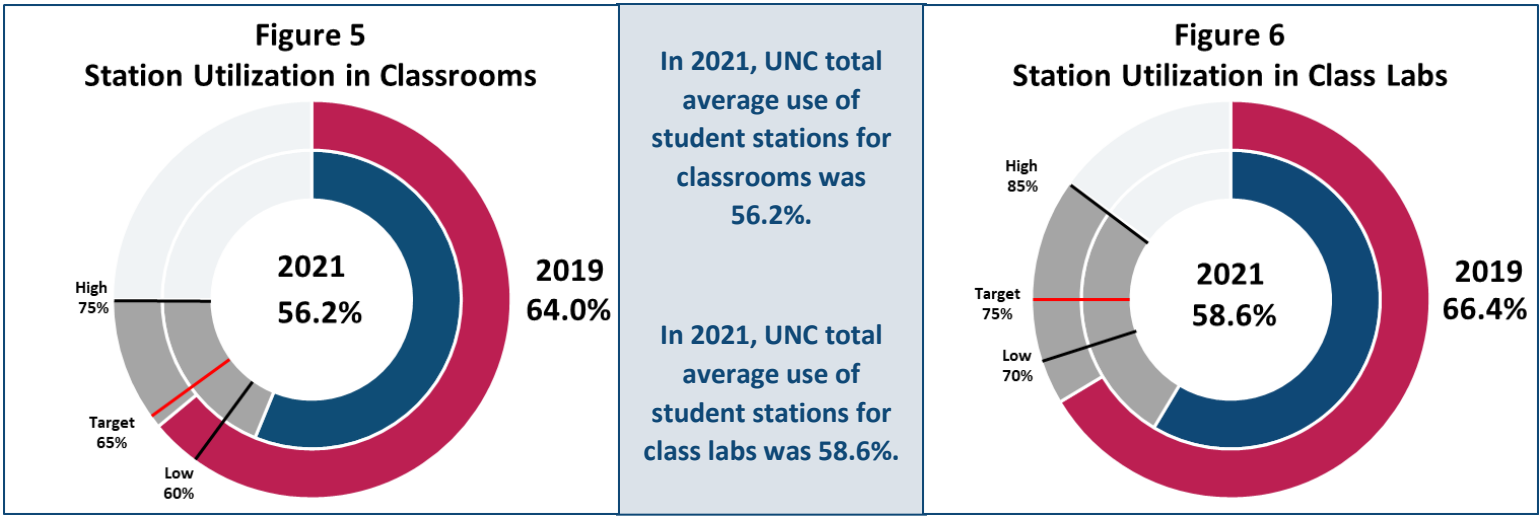
Figure 4 - Average Weekly Room Hours in Class Labs, 2021



Source: Table 4

Average weekly use of student stations is used to indicate the average number of hours each week a student station is used by room. **A student station is defined as a seat in the room.** Average weekly use of student stations is calculated by dividing the total number of student clock hours generated in the room by the total number of student stations in the room. The UNC System standard target for average weekly use of student stations for classrooms is 65%. The UNC System standard for class laboratories is 75%. For additional information on Student Clock Hours, see page 4 of the study.

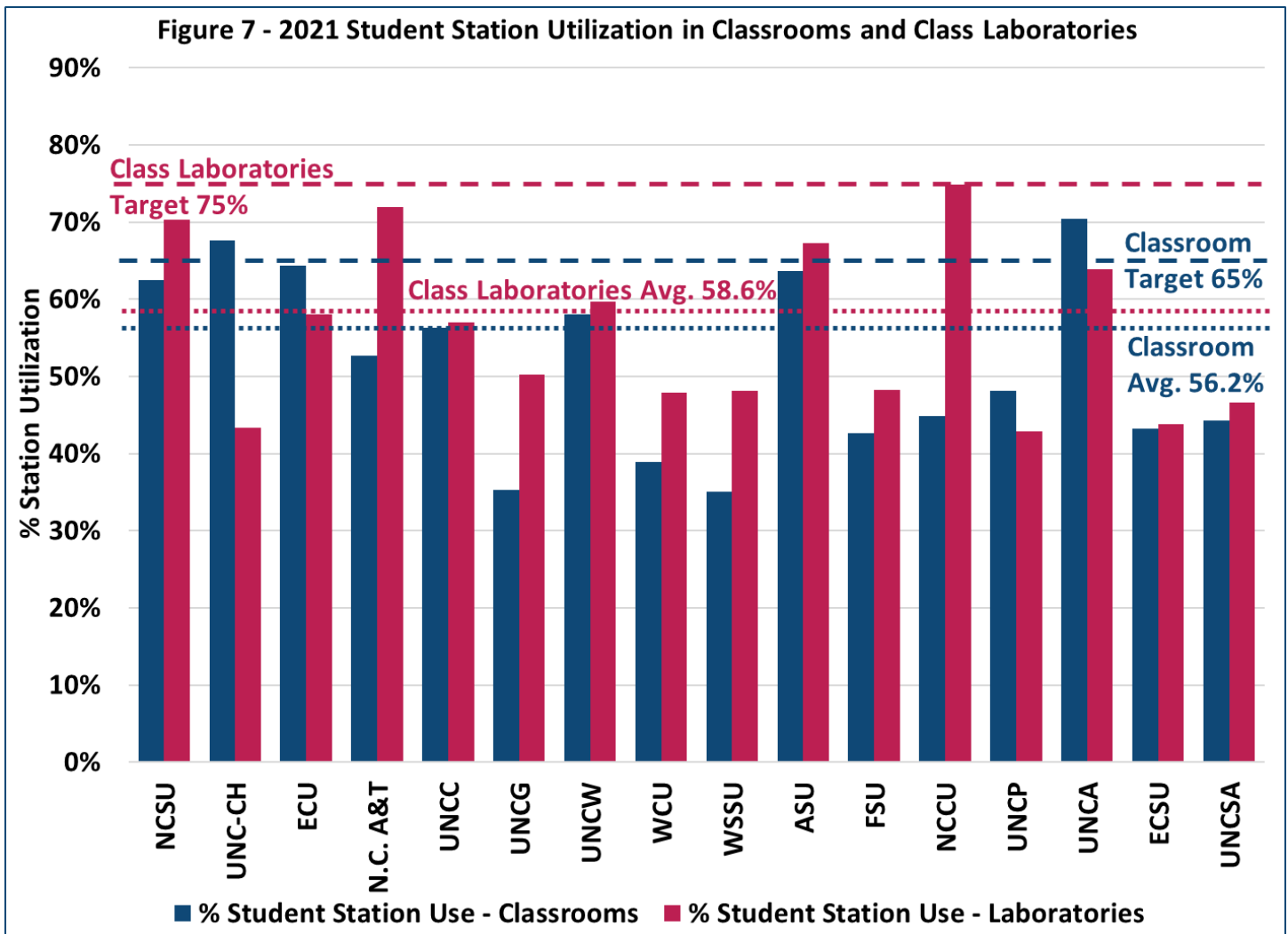
Figures 5 and 6, on the following page, indicate the average student station utilization systemwide for classrooms and class labs. In 2021, the average weekly use of student stations in classrooms was 56.2% and for class labs was 58.6%. This indicates a slight increase from 2017 of 7.8% for classrooms and 7.8% for class labs.



Source: Table 7

Source: Table 7

Figure 7 displays use of student stations data by institution for classrooms and class labs. Further details on the utilization of instructional space are available on pages 3-35 of the study.



Source: Table 7

Room Space Characteristics

The study includes information on the assignment and use of each room on every campus. Of the 92.0 million gross square feet in the UNC System, excluding UNC Hospitals, 49.9 million square feet is considered assignable space. Assignable space is defined as space that is assigned to, or available for assignment to, an occupant or specific use. Assignable space excludes building service areas, circulation, mechanical, and structural areas. From 2017 to 2021, the assignable space has increased by 1,459,810 SF or 3.0%.

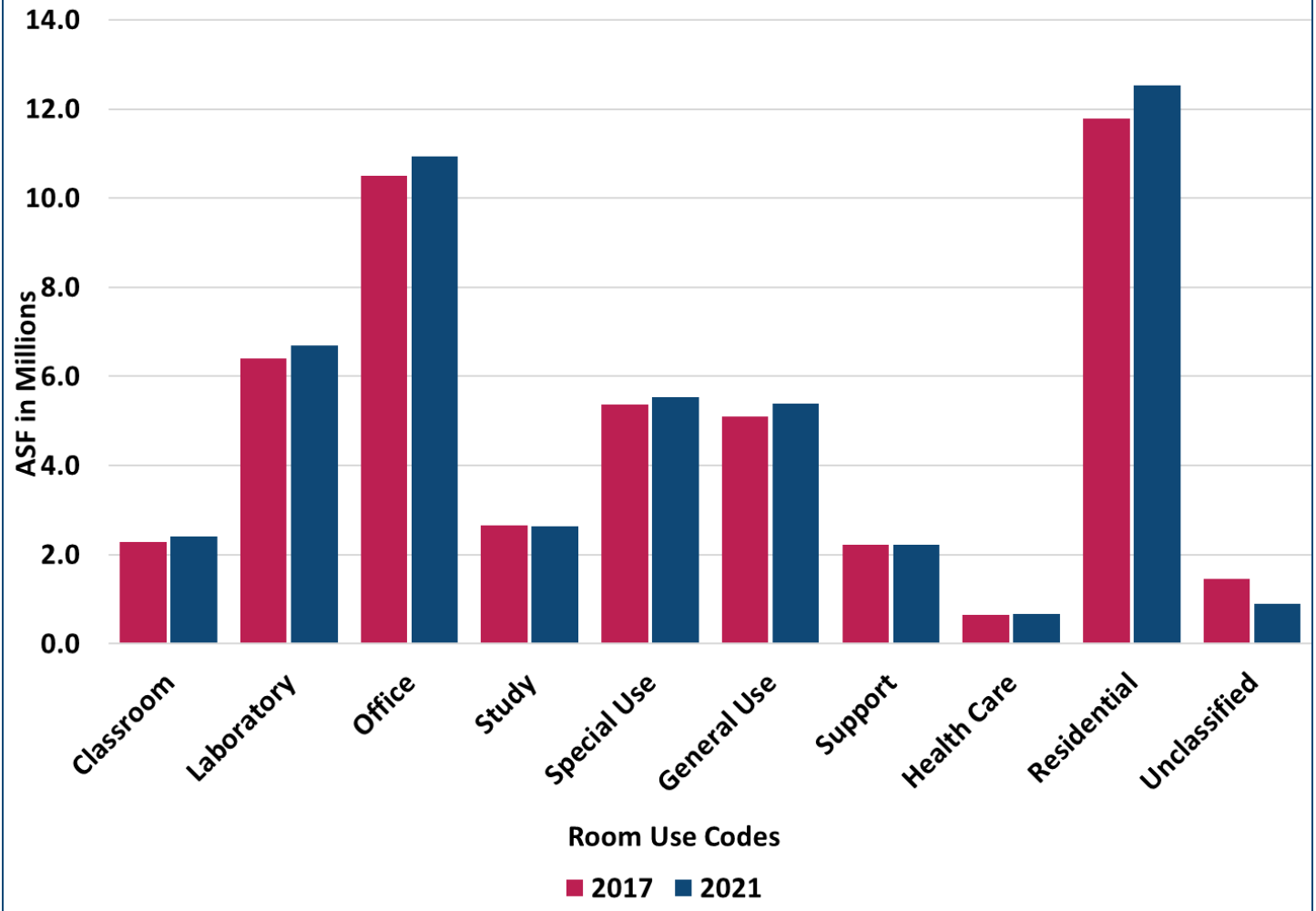
Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	12,169,779	24.38%	23.78%	0.61%
Research	5,859,836	11.74%	11.85%	-0.11%
Public Service	1,732,814	3.47%	3.48%	-0.01%
Student Service	20,556,756	41.19%	40.06%	1.13%
Other	9,588,723	19.21%	20.83%	-1.62%

Assignable space is categorized by program use category, utilizing the Program Classification Structure developed by the National Center for Higher Education Management System. The classification system includes 10 program areas, but the majority of space falls into four program areas: instruction, research, student services, and public service. These four program areas account for nearly 80% of all the assignable space. Instruction and research saw moderate increases in assignable square footage over the period: Instruction, 650,204 SF or 5.6%; Research, 117,998 or 2.1%. Public service assignable square footage, which includes activities established to make available to the public the various resources and capabilities of the institution for the specific purpose of responding to a community need or solving a community problem, increased 46,037 SF or 2.7%. The assignable square footage for student services, which includes areas that support students' physical, emotional, and intellectual development in facilities such as student centers and wellness facilities outside of formal, scheduled instruction, increased 1,147,826 SF, or 5.9% from 2017. Assignable square footage for independent operations, which includes institutional activities that are owned or controlled by the institution as investments, and which are financed as part of the institution's current operations, increased 2,034 SF, or 0.4%.

Every room on every campus is also assigned a Room Use Code as defined by the Higher Education Facilities Inventory and Utilization Manual (7th edition). A detailed list of room use codes is on pages 61-62. Figure 8 shows the classification of assignable space by room use code.

The single largest category of assignable space is for residential facilities, with 12.5M SF, or 25% of all space, assigned to this room use code. This represents an increase of 736,832 SF, or 6.2%, since 2017. Office space is the second largest room use category at 10.9M SF, or 22% of all assignable space. Office space has increased by 425,162 SF, or 4.0% since 2017. Together, these two categories account for nearly 50% of the assignable space. All other areas have seen negligible increase in assignable space and proportionally remain the same. For additional details on specific program and subprogram uses and specific details for each campus, see pages 38-66 and 90-106 in the study.

Figure 8 - Assignable Square Feet by Room Use Code, 2017 and 2021









Source: Table 15

Building Characteristics

Excluding UNC Hospitals, the UNC System has 92.0 million gross square feet of space comprised of 3,012 buildings and a total estimated replacement value of more than \$32.3B. The building characteristics primarily focus on the physical attributes of the building including ownership, building use, fund type, age, and building condition. The chart below shows the general characteristics of all buildings in the UNC System.

UNC System Building Characteristics	
3,012 Total Buildings	
2,503 Owned	
1,964 Appropriated	139 Leased
1,048 Non-Appropriated	370 Other Agreement
<u>3,012 Total</u>	<u>3,012 Total</u>

One important building characteristic is building condition. This indicates the extent to which existing facilities are in sound operating order, functioning as originally intended. Building condition categories are listed in the chart below.

<p> Condition Code 1 - Satisfactory - Suitable for continued use with normal maintenance</p> <p> Condition Code 2 - Remodeling A - Less than 25% of the estimated replacement cost of the building</p> <p> Condition Code 3 - Remodeling B - Between 25% and 50% of the estimated replacement cost of the building</p>	<p> Condition Code 4 - Remodeling C - More than 50% of the estimated replacement cost of the building</p> <p> Condition Code 5 - Demolition - Identified for demolition, typically because they are unsafe or unsound</p> <p> Condition Code 6 - Termination - No longer in use for reasons other than condition</p>
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Buildings which are in Condition 3 or 4 are generally older and require major renovation to repair or replace building systems that are reaching end-of-life or are obsolete. These condition categories do not incorporate costs associated with modifying facilities to meet current program needs which change over time. Funding for repairs and renovations permits the useful life of these facilities to be extended and preserves the value of significant assets.

Condition 5 designates facilities that have been identified for demolition, typically because they are unsafe or unsound, while Condition 6 indicates facilities that are no longer in use for reasons other than condition.

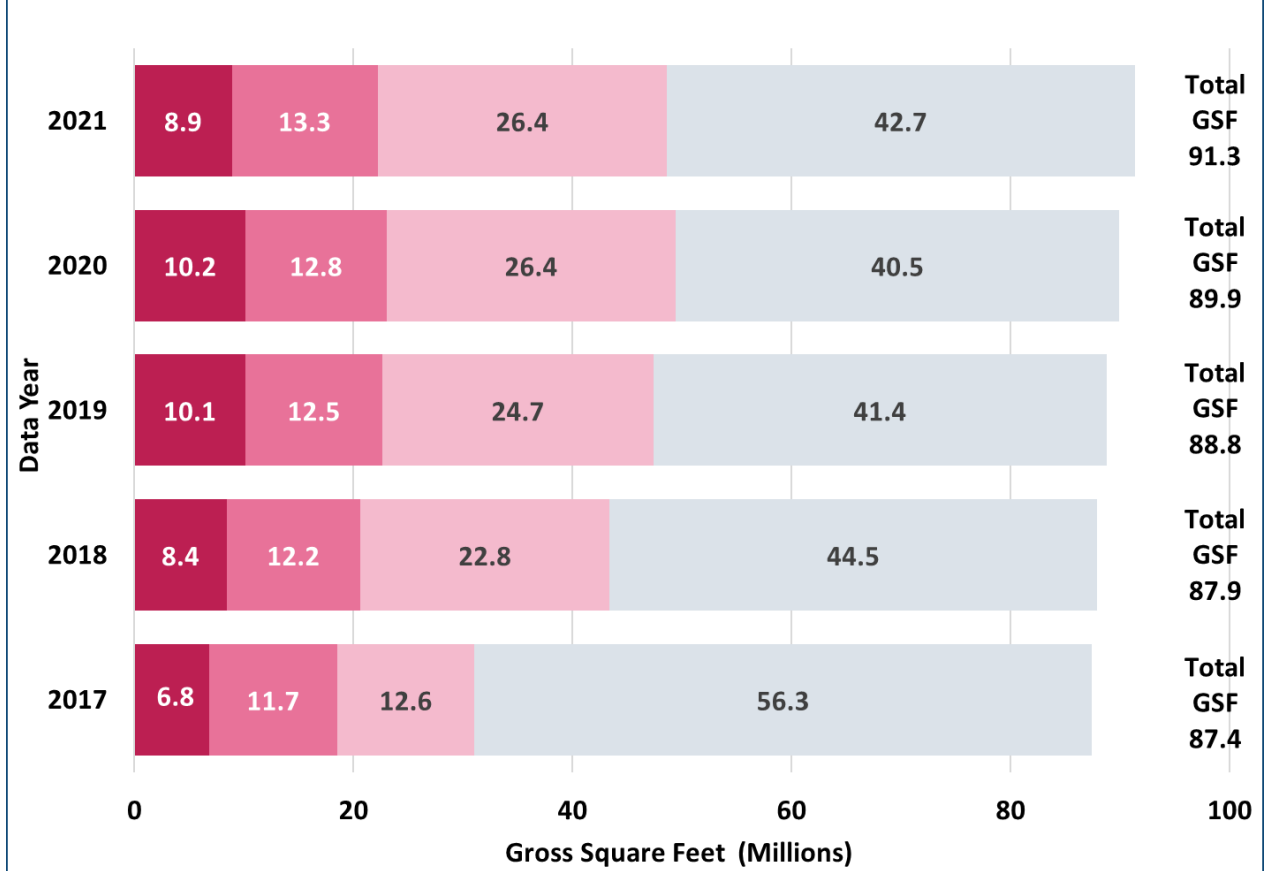
On the next page, Figure 9 illustrates the GSF and condition type from 2017 to 2021. The GSF in Conditions 3 and 4 has increased by 1,648,875 and 2,055,226, or 14% and 30% respectively since 2017, accounting for more than 24% of the 2021 GSF. Deferred maintenance will continue to increase exponentially if deteriorating building conditions are not addressed in a timely manner. Building Condition Codes 5 (Demolition) and 6 (Termination) are excluded from the figures.

Figure 10 illustrates the GSF by funding type. While state funding can be allocated to address repairs and renovations in appropriated buildings, other sources of funding, including donations, trust funds, or self-liquidating debt, must be identified for non-appropriated buildings. Adequate capital funding to address chronic deferred maintenance continues to be the primary challenge for all campuses.

Another primary building characteristic is the age of buildings. As buildings age, the building systems wear out, reach the end of their useful life, or become harder to repair and maintain due to obsolescence. Failure to plan for timely replacement of systems often leads to building system failures and costly emergency repairs.

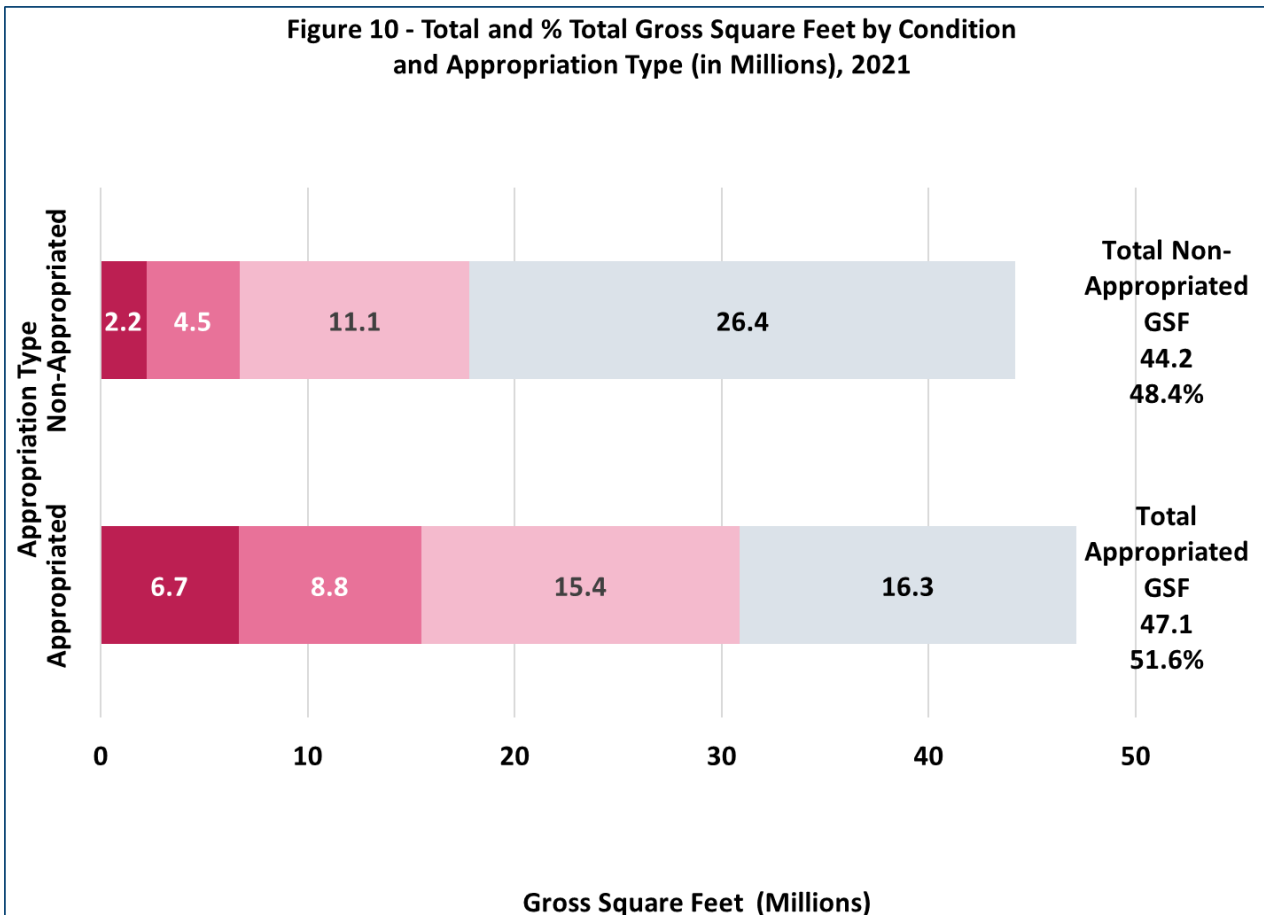
Further details regarding building characteristics, including a breakdown by campus, are on pages 70-87 in the study.

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021



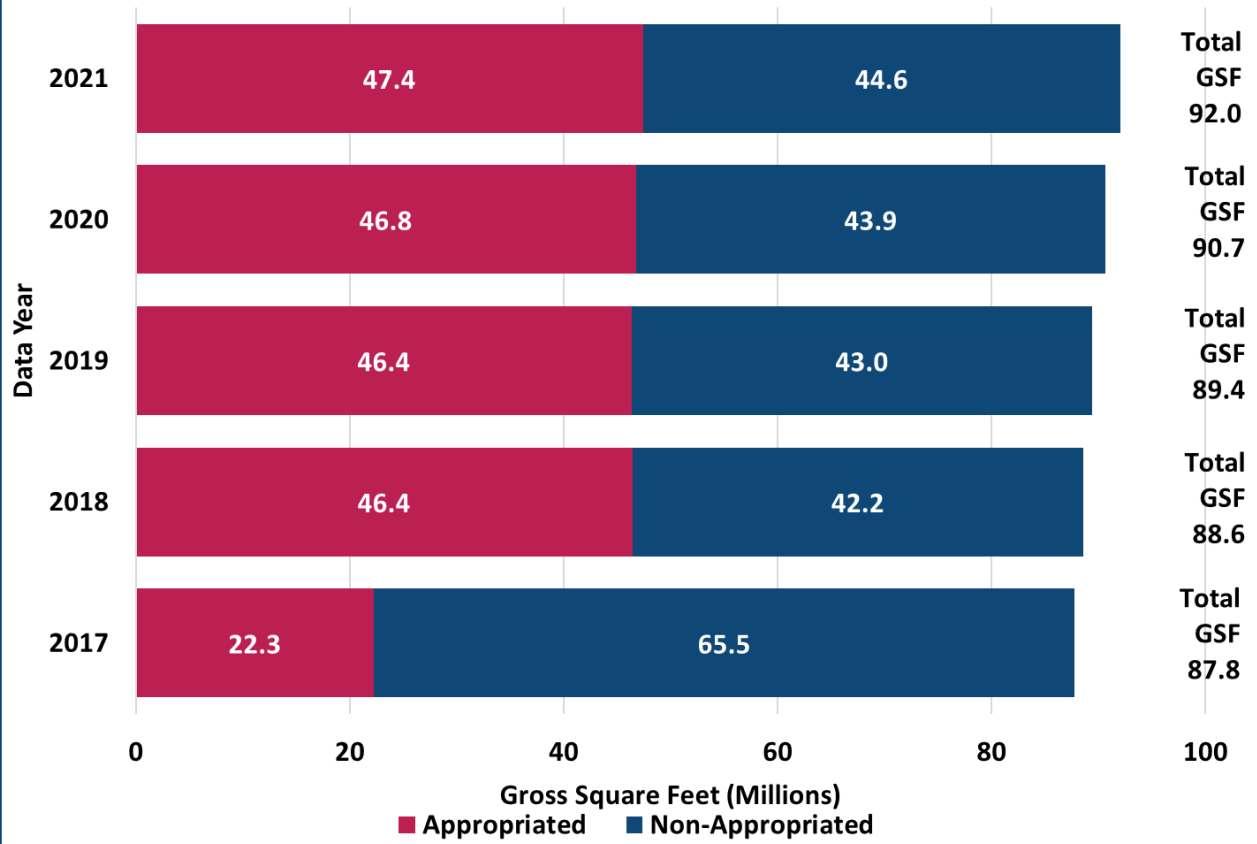
Source: Table 22

Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021



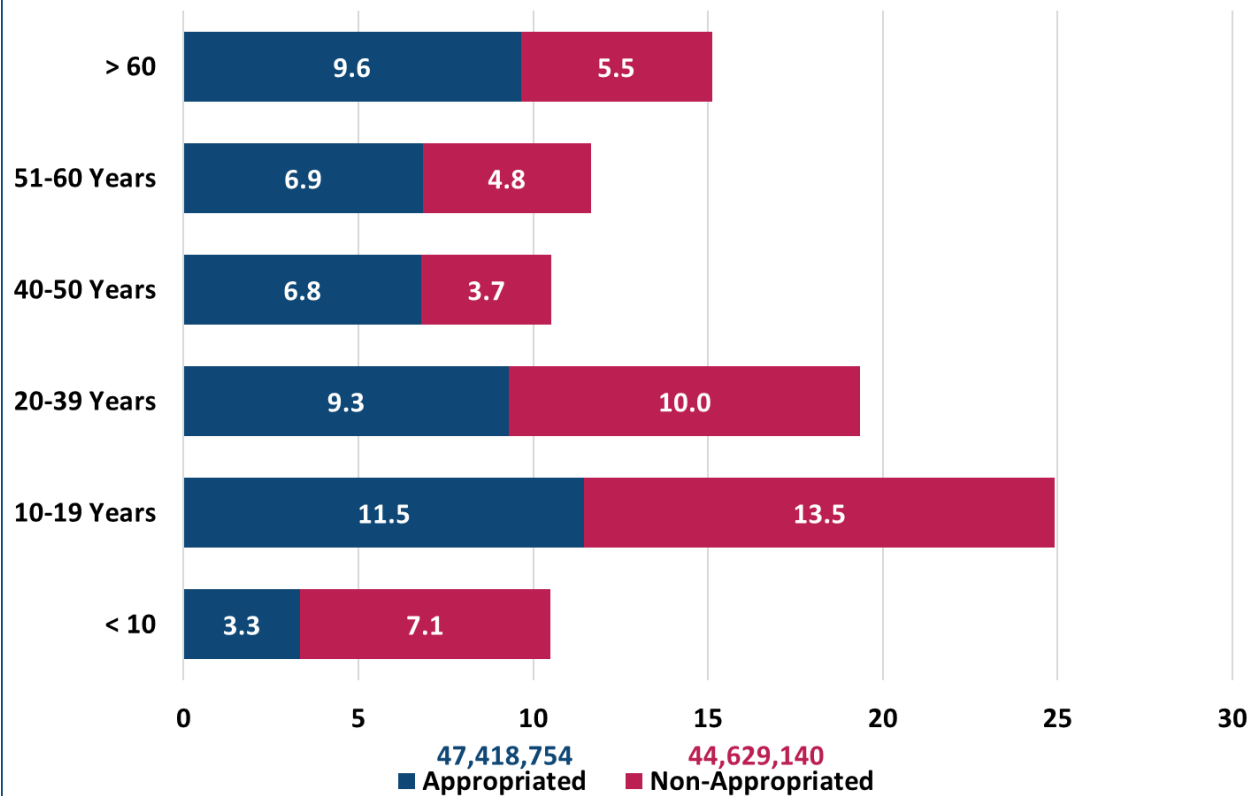
Source: Table 22 (GSF Only)

Figure 11 - Gross Square Feet by Appropriation Type 2017-2021



Source: Table 22 (GSF Only)

Figure 12 - 2021 Age of Buildings by Appropriation Type, GSF (in Millions)



Source: Table 22 (GSF Only)

Utilization of Instructional Space

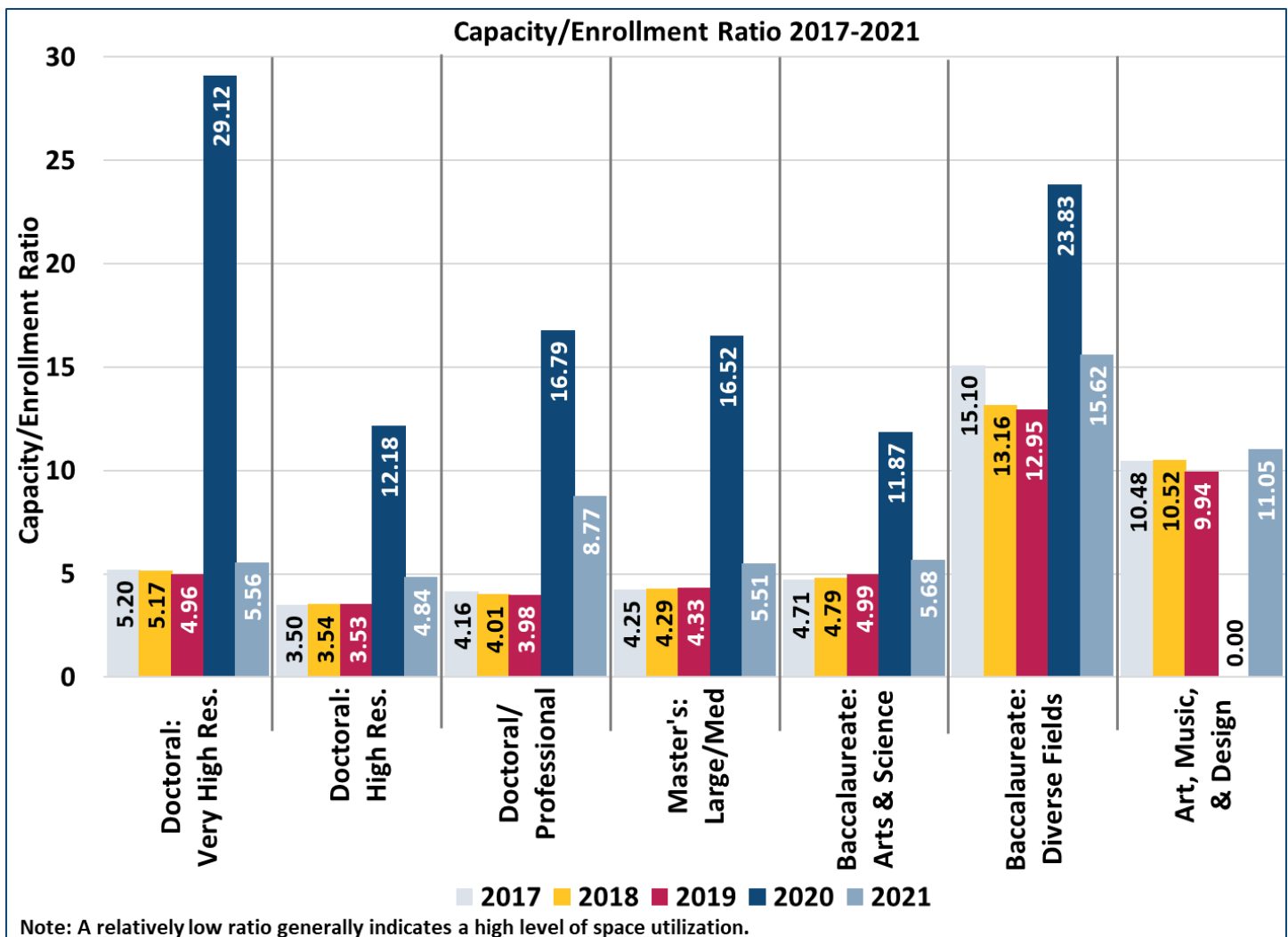
Table 1. Capacity/Enrollment Ratio	3
Table 2. Sq. Ft. Academic Facilities per FTE Student.....	7
Table 3. Room Hours of Instruction in Classroom	9
Table 4. Room Hours of Instruction in Class Laboratories	11
Table 5. Use of Student Stations in Classrooms	13
Table 6. Use of Student Stations in Class Laboratories	15
Table 7. Percent Student Station Utilization	17
Table 8. Student Clock Hours of Instruction	19
Table 9. Space Factors	23
Table 10. Range of Space Utilization Indices	27
Table 11. Space Standards	29
Table 12. FTE Enrollments.....	33
Table 12a. FTE Enrollments by Institution.....	35

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Table 1: Capacity/Enrollment Ratio

The capacity/enrollment ratio, often referred to as the C/E ratio, is the amount of instructional and library space on campus divided by the total fall term student clock hours of that institution. The C/E ratio relates the amount of space directly used in an institution's instructional programs to the instructional activity of the campus. It is one of the most used indices of instructional utilization of institutional facilities.

$$\text{CAPACITY/ENROLLMENT RATIO} = \frac{\text{INSTRUCTIONAL \& LIBRARY SPACE}}{\text{TOTAL WEEKLY STUDENT CLOCK HOURS}}$$



In analyzing and comparing the capacity/enrollment ratios it should be kept in mind that a relatively low ratio generally indicates a high level of space utilization. It should also be noted, however, that such factors as the level of an institution and the kind of instructional programs that it offers will affect the amount of space required and, therefore, the C/E ratio.

Instructional and Library Space

Instructional and library space is defined in terms of program codes (pages 39-40, 43-44, 47, 49, and 53) and room use codes (pages 61-62). It is the sum of the areas of all rooms that carry both a program designation of 11-18 (Instruction), 41 (Library Services), or 01 (Unassigned, Capable of Use), and one of the room use codes listed below, with the exception that office space is omitted from program 01.

<u>Room Use Codes</u>	
110 Classroom	410 Study Room
115 Classroom Service	420 Stack
	430 Open-Stack Study Room
210 Class Laboratory	440 Processing Room
215 Class Laboratory Service	455 Study Service
220 Open Laboratory	510 Armory
225 Open Lab Service	515 Armory Service
310 Office	520 Athletic or Physical Ed.
315 Office Service	525 Athletic or Physical Ed. Svc.

Student Clock Hours

Student clock hours is a measurement of the total weekly hours of scheduled instruction for an institution's total number of students. It is computed for each course by multiplying the number of times the course meets each week by the number of hours of each course meeting (rounded to the half hour) and multiplying that product by the number of students.

Thus, if a course with 20 students meets Tuesdays and Thursdays from 9:00 a.m. until 10:30 a.m., the number of student clock hours resulting from that class would be 60 (2 meetings/week x 1.5 hours/meeting x 20 students).

The student clock hours reported in this study are based upon on-campus courses, both credit and non-credit, which were in progress during the week following the drop-add period of the fall term and which lasted for at least eight weeks. More detailed student clock hour data are provided in Table 8.

Table 1. Capacity/Enrollment Ratio

Institution	ASF of Instructional & Lib. Facilities	Total Student Clock Hours	Capacity / Enrollment Ratio				
			2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity							
NC State	1,671,865	373,282.5	4.48	13.65	4.10	4.34	4.44
UNC-Chapel Hill	2,046,144	295,979.0	6.91	1212.50	6.10	6.26	6.17
Subtotal	3,718,009	669,261.5					
Subtotal Ratio			5.56	29.12	4.96	5.17	5.20
Doctoral Universities: High Research Activity							
East Carolina	1,034,466	204,115.0	5.07	7.85	3.83	3.77	3.62
N.C. A&T	665,957	138,533.5	4.81	15.03	4.51	4.68	4.78
UNC Charlotte	1,082,829	247,132.5	4.38	14.56	2.97	2.87	2.77
UNC Greensboro	787,608	121,399.5	6.49	11.53	3.74	3.52	3.65
UNC Wilmington	572,285	144,426.5	3.96	24.18	3.08	3.04	3.01
Subtotal	4,143,145	855,607.0					
Subtotal Ratio			4.84	12.18	3.53	3.54	3.50
Doctoral/Professional Universities							
Western Carolina	582,196	88,029.5	6.61	16.61	3.66	3.80	3.95
Winston-Salem	334,111	16,501.5	20.25	17.09	4.82	4.49	4.63
Subtotal	916,307	104,531.0					
Subtotal Ratio			8.77	16.79	3.98	4.01	4.16
Master's Colleges & Universities: Larger/Medium Programs							
Appalachian	909,898	229,728.5	3.96	30.42	3.25	3.37	3.10
Fayetteville	283,535	25,776.5	11.00	10.65	5.96	5.53	6.24
NCCU	538,893	66,918.5	8.05	15.70	6.60	6.15	5.94
UNC Pembroke	326,393	51,098.5	6.39	10.01	4.78	4.67	5.04
Subtotal	2,058,719	373,522.0					
Subtotal Ratio			5.51	16.52	4.33	4.29	4.25
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	221,754	39,071.0	5.68	11.87	4.99	4.79	4.71
Subtotal	221,754	39,071.0					
Subtotal Ratio			5.68	11.87	4.99	4.79	4.71
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	292,755	18,742.5	15.62	23.83	12.95	13.16	15.10
Subtotal	292,755	18,742.5					
Subtotal Ratio			15.62	23.83	12.95	13.16	15.10
Schools of Art, Music, & Design							
UNC School of the Arts	346,908	31,405.5	11.05	-	9.94	10.52	10.48
Subtotal	346,908	31,405.5					
Subtotal Ratio			11.05	-	9.94	10.52	10.48
Grand Total	11,697,597	2,092,140.5					
Grand Total Ratio			5.59	16.68	4.27	4.30	4.28

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Table 2: Square Feet of Academic Facilities Per FTE Student

The ratio of an institution's square footage of academic facilities to its full-time equivalent enrollment represents an important index of the instructional utilization of campus facilities. It was first used by the U. S. Office of Education as a planning standard in the 1960s. In 1969, the Office of Education published an extensive study entitled Federal Support for Higher Education Construction: Current Programs and Future Needs, which provided normative figures by level and control of institution. The figures are summarized below:

SF of Academic Facilities per FTE Student Norms		
<u>Institutional Level</u>	<u>Public</u>	<u>Private</u>
University	132	150
Four-year	93	103

Academic Facilities

"Academic facilities" is a broader concept than "instructional and library space" (page 4). In general terms, it includes all space used for instruction, research, and the administration or support of instruction or research.

Academic facilities can be more precisely defined in terms of program codes (pages 39-40, 43-44, 47, 49, and 53) and room use codes (pages 61-62). The term refers to an institution's total assignable area (page 38) less the square footage of all rooms bearing program codes 42 (Museums and Galleries), 52 (Social and Cultural Development), 55 (Student Auxiliary Services), 56 (Intercollegiate Athletics), 65 (Faculty and Staff Auxiliary Services), 66 (Public Relations/Development), 91-92 (Independent Operations), and 02 (Incapable of Use). In addition, space with program code 63 (General Administration and Logistical Service) is deleted if it also has room use code 750 (Central Service), 755 (Central Service Support), 760 (Hazardous Materials), 770 (Hazardous Waste Storage), or 775 (Hazardous Waste Service). Space with program 01 (Unassigned, Capable of Use) and any of the following room use codes is also excluded from academic facilities: 523 (Athletic Facilities Spectator Seating), 630 (Food Facility), 635 (Food Facility Service), 660 (Merchandising), 665 (Merchandising Service), 750 (Central Service), 755 (Central Service Support), 760 (Hazardous Materials Storage), 770 (Hazardous Waste Storage), 775 (Hazardous Waste Service) all of the 800s (Health Care Facilities), and all of the 900s (Residential Facilities).

FTE Enrollment

Full-time equivalent (FTE) enrollment is computed by assigning a percentage to each part-time student to reflect his/her course load and then adding the result to the total full-time enrollment. FTE enrollment differs from the other frequently used standard for estimating student populations, headcount enrollment, in that the latter treats full-time and part-time students identically. A more detailed description of the procedure used in calculating FTE enrollment can be found on page 33.

$$\text{SQ. FT. OF ACADEMIC FACILITIES PER FTE STUDENT} = \frac{\text{SQUARE FEET OF ACADEMIC FACILITIES}}{\text{FTE ENROLLMENT}}$$

Table 2. Square Feet of Academic Facilities Per FTE Student

Institution	ASF of Academic Facilities	FTE Enrollment	Square Feet of Academic Facilities Per FTE Student				
			2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity							
NC State	6,035,367	32,643	185	189	185	190	196
NC State Veterinary Med	448,792	397	1,130	1,133	1,132	1,091	1,083
UNC-Chapel Hill	3,933,758	24,204	163	169	164	161	160
UNC-Chapel Hill Hlth Aff.	2,502,671	5,256	476	514	535	555	535
Subtotal	9,969,125	56,847					
Subtotal Ratio			175	181	176	177	180
Doctoral Universities: High Research Activity							
East Carolina	1,708,194	22,008	78	75	76	75	72
East Carolina Hlth Aff.	1,144,494	2,738	418	389	393	420	415
N.C. A&T	1,492,764	12,384	121	130	132	137	139
UNC Charlotte	2,013,283	27,600	73	70	72	69	67
UNC Greensboro	1,577,319	16,982	93	84	81	79	83
UNC Wilmington	1,128,573	15,973	71	73	64	64	68
Subtotal	7,920,133	94,947					
Subtotal Ratio			83	82	81	82	82
Doctoral/Professional Universities							
Western Carolina	911,970	10,713	85	77	76	79	85
Winston-Salem	564,535	4,813	117	118	110	112	114
Subtotal	1,476,505	15,526					
Subtotal Ratio			95	89	87	89	94
Master's Colleges & Universities: Larger/Medium Programs							
Appalachian	1,340,636	19,781	68	68	71	73	69
Fayetteville	466,374	5,553	84	83	84	86	98
NCCU	792,024	7,208	110	109	110	107	108
UNC Pembroke	551,931	7,148	77	76	77	84	96
Subtotal	3,150,965	39,690					
Subtotal Ratio			79	80	81	83	85
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	388,051	3,007	129	129	125	118	120
Subtotal	388,051	3,007					
Subtotal Ratio			129	129	125	118	120
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	427,408	1,854	231	237	260	278	333
Subtotal	427,408	1,854					
Subtotal Ratio			231	237	260	278	333
Schools of Art, Music, & Design							
UNC School of the Arts	565,267	1,109	510	520	498	515	534
Subtotal	565,267	1,109					
Subtotal Ratio			510	520	498	515	534
Grand Total	23,897,454	212,980.0					
Grand Total Ratio			112	112	110	111	113

Table 3: Average Weekly Room Hours of Instruction in Classrooms

The average weekly room hours of instruction in classrooms is calculated by dividing the total room hours of instruction in classrooms by the total number of classrooms. In more general terms, it is the average number of hours that an institution's classrooms are used for instructional purposes each week. Weekly room hours of instruction is also referred to as the **Room Utilization Rate (RUR)**.

$$\text{AVG. WEEKLY ROOM HOURS OF INSTRUCTION IN CLASSROOMS} = \frac{\text{TOTAL ROOM HOURS OF INSTRUCTION IN CLASSROOMS}}{\text{TOTAL NUMBER OF CLASSROOMS}}$$

The total room hours of instruction in classrooms is the number of hours each week that a classroom is used for regularly scheduled classes. Thus, a classroom that is used Mondays, Wednesdays, and Fridays from 9:00 a.m. until 1:00 p.m. and on Tuesdays and Thursdays from 8:30 a.m. until noon would generate 19 room hours (4 hours/day x 3 days/week + 3.5 hours/day x 2 days/week). Table 3 indicates the total room hours of instruction in classrooms; the total number of classrooms can be found in Table 16.

For purposes of this study, a classroom is defined as a room used to conduct classes that do not require special-purpose equipment for student use. Thus, a classroom is by definition a general use facility that could be used for teaching the lecture portion of any course. If a room is used for regularly scheduled classes but has special equipment that ties it to a particular subject matter, then the room is a class laboratory, and its use would not be considered in this table.

Table 3 separates average weekly room hours of instruction in classrooms into daytime and nighttime utilizations. Daytime utilization is based on all classes with beginning times between and including 5:00 a.m. and 4:59 p.m.; nighttime utilization is based on all other classes. The "All Hours" section of Table 3 indicates the sum of the daytime and nighttime figures for the last five years.

The average weekly room hours of classroom instruction can serve as an indicator of the adequacy of the number of classrooms at an institution. **The University of North Carolina target standard is 35 hours of instruction in classrooms per week**, but institutions in North Carolina and in many other states average significantly fewer hours.

**Table 3. Average Weekly Room Hours
of Instruction in Classrooms**

Institution	Total Room Hours	Average Daytime Hours	Average Nighttime Hours	All Hours				
				2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity								
NC State	6,926.5	28.5	1.6	30.1	11.0	31.8	31.2	31.1
UNC-Chapel Hill	7,582.0	25.1	1.3	26.3	0.3	27.3	27.6	27.7
Subtotal	14,508.5							
Subtotal Average		26.6	1.4	28.0	5.2	29.0	29.2	29.3
Doctoral Universities: High Research Activity								
East Carolina	4,030.5	21.2	1.2	22.4	13.4	27.1	27.2	27.7
N.C. A&T	3,652.0	20.9	3.1	24.0	9.7	27.9	25.4	24.4
UNC Charlotte	5,338.0	18.7	3.9	22.6	9.8	29.9	30.8	34.3
UNC Greensboro	3,478.5	19.9	3.0	22.9	16.2	32.2	31.6	30.5
UNC Wilmington	3,808.0	22.4	1.6	23.9	6.8	30.8	32.2	31.1
Subtotal	20,307.0							
Subtotal Average		20.5	2.6	23.1	10.9	29.1	29.5	29.9
Doctoral/Professional Universities								
Western Carolina	3,225.5	27.8	2.1	29.9	7.6	33.2	32.3	30.9
Winston-Salem	534.5	5.2	0.6	5.7	6.9	20.9	22.6	22.2
Subtotal	3,760.0							
Subtotal Average		17.3	1.4	18.7	7.3	28.0	28.2	27.1
Master's Colleges & Universities: Larger/Medium Programs								
Appalachian	5,352.0	21.7	1.4	23.1	4.5	28.8	27.2	28.7
Fayetteville	1,032.5	13.9	2.5	16.4	15.6	23.0	25.3	25.6
NCCU	1,982.0	11.8	1.3	13.0	5.9	14.8	16.6	16.8
UNC Pembroke	2,163.0	15.3	2.0	17.3	9.9	22.4	22.8	22.2
Subtotal	10,529.5							
Subtotal Average		16.8	1.6	18.4	7.4	22.8	23.2	23.7
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	1,500.0	24.6	2.7	27.3	11.2	27.4	28.3	25.6
Subtotal	1,500.0							
Subtotal Average		24.6	2.7	27.3	11.2	27.4	28.3	25.6
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	698.5	6.6	0.8	7.4	6.2	9.6	10.2	11.3
Subtotal	698.5							
Subtotal Average		6.6	0.8	7.4	6.2	9.6	10.2	11.3
Schools of Art, Music, & Design								
UNC School of the Arts	517.5	8.4	0.3	8.8	0.0	11.4	10.4	10.8
Subtotal	517.5							
Subtotal Average		8.4	0.3	8.8	0.0	11.4	10.4	10.8
Grand Total	51,821							
Grand Total Average		19.9	1.9	21.8	8.1	26.6	26.7	26.9

Table 4: Average Weekly Room Hours of Instruction in Class Laboratories

The average weekly room hours of instruction in class laboratories is calculated by dividing the total room hours of instruction in class laboratories by the total number of class laboratories. In more general terms, it is the average number of hours that an institution's class laboratories are used for instructional purposes each week. Weekly room hours of instruction is also referred to as the **Room Utilization Rate (RUR)**.

$$\text{AVG. WEEKLY ROOM HOURS OF INSTRUCTION IN CLASS LABORATORIES} = \frac{\text{TOTAL ROOM HOURS OF INSTRUCTION IN CLASS LABORATORIES}}{\text{TOTAL NUMBER OF CLASS LABORATORIES}}$$

The total room hours of instruction in class laboratories is the number of hours each week that each class laboratory is used for regularly scheduled classes. This figure is provided in Table 4; the total number of class laboratories can be found in Table 17. Table 4 also separates the average room hour data into daytime and nighttime uses of class laboratories. For specific definitions of "daytime" and "nighttime," and for a more detailed explanation of the calculation of total room hours, see page 9.

For purposes of this study, a class laboratory is defined as a room used primarily for regularly scheduled classes that require special purpose equipment for student participation, experimentation, observation, or practice in a field of study. This definition excludes rooms used for regularly scheduled classes that have no special-purpose equipment (i.e., classrooms) and excludes rooms with special-purpose equipment which are not used for regularly scheduled classes (i.e., other kinds of laboratories).

Table 4 can provide some indication of the adequacy of the number of class laboratories at a particular institution. Unfortunately, since the data reflect the utilization of all class laboratories, it is impossible to determine whether an institution's shortage (or surplus) of these rooms is limited to certain types or is "across the board." In such cases, an institution might be able to make a more useful measurement by determining the average weekly use of each type of class laboratory.

Since each class laboratory is designed for use in a particular field of study, most of them are not used as frequently as classrooms. **The University of North Carolina target standard for the average use of class laboratories is 20 hours per week.**

Table 4. Average Weekly Room Hours of Instruction in Class Laboratories

Institution	Total Room Hours	Average Daytime Hours	Average Nighttime Hours	All Hours				
				2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity								
NC State	3,332.0	15.2	1.7	16.9	6.2	15.4	12.7	13.4
UNC-Chapel Hill	776.0	7.5	0.7	8.3	-	8.9	9.3	9.4
Subtotal	4,108.0							
Subtotal Average		12.7	1.4	14.1	4.4	13.3	11.8	12.2
Doctoral Universities: High Research Activity								
East Carolina	2,331.5	12.2	1.0	13.2	11.4	14.6	15.2	15.4
N.C. A&T	1,354.0	11.6	1.8	13.4	4.2	13.3	13.0	13.2
UNC Charlotte	1,995.5	12.3	1.9	14.3	7.2	18.7	20.7	18.9
UNC Greensboro	1,649.5	10.8	1.1	11.9	13.0	18.0	17.5	18.3
UNC Wilmington	1,786.0	15.7	1.6	17.3	3.5	19.5	17.0	18.0
Subtotal	9,116.5							
Subtotal Average		12.4	1.4	13.8	8.2	16.5	16.6	16.6
Doctoral/Professional Universities								
Western Carolina	1,465.0	13.0	1.7	14.7	9.4	18.1	17.7	17.0
Winston-Salem	166.0	1.8	0.3	2.1	2.7	9.6	10.1	9.2
Subtotal	1,631.0							
Subtotal Average		8.0	1.1	9.1	6.3	14.8	14.8	13.9
Master's Colleges & Universities: Larger/Medium Programs								
Appalachian	2,826.0	17.5	1.6	19.1	3.8	20.2	20.5	21.8
Fayetteville	354.5	9.5	0.9	10.4	10.9	14.4	15.7	12.1
NCCU	480.0	6.6	0.8	7.4	5.4	7.5	8.5	8.9
UNC Pembroke	476.5	9.2	0.3	9.5	9.6	14.0	17.4	14.8
Subtotal	4,137.0							
Subtotal Average		12.8	1.1	13.9	5.9	15.6	16.7	16.2
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	264.5	12.5	2.2	14.7	8.7	12.8	11.8	14.7
Subtotal	264.5							
Subtotal Average		12.5	2.2	14.7	8.7	12.8	11.8	14.7
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	324.0	4.0	0.9	4.8	4.1	5.9	6.7	6.1
Subtotal	324.0							
Subtotal Average		4.0	0.9	4.8	4.1	5.9	6.7	6.1
Schools of Art, Music, & Design								
UNC School of the Arts	1,002.5	10.4	2.8	13.2	-	13.2	12.3	13.2
Subtotal	1,002.5							
Subtotal Average		10.4	2.8	13.2	-	13.2	12.3	13.2
Grand Total	20,583.5							
Grand Total Average		11.6	1.4	13.0	6.2	14.8	14.5	14.6

Table 5: Average Weekly Use of Student Stations in Classrooms

Average weekly use of student stations in classrooms is calculated by dividing the total number of student clock hours generated in classrooms by the total number of student stations in classrooms. More generally, it can be thought of as the average number of hours each week that each classroom student station is used.

$$\text{AVERAGE WEEKLY USE OF STUDENT STATIONS IN CLASSROOMS} = \frac{\text{TOTAL STUDENT CLOCK HOURS IN CLASSROOMS}}{\text{TOTAL STUDENT STATIONS IN CLASSROOMS}}$$

For the current year, Table 5 reports the total number of classroom student stations and breaks down the average weekly use figure into daytime and nighttime utilizations. (See page 9 for precise definitions of classrooms and of daytime and nighttime utilizations.) For purposes of comparison, this table also lists the average weekly use of student stations for the previous four years.

The average weekly use of student stations can serve as an indicator of the adequacy of the number of student stations in classrooms.

A frequently cited norm is **22.75 hours per week**. This figure assumes that the average weekly use of classrooms is 35 hours (see Table 3) and that there is 65% utilization of student stations when classrooms are in use (Table 7).

Table 5. Average Weekly Use of Student Stations in Classrooms

Institution	No. of Stations	Total Student Clock Hours	Average Daytime Hours	Average Nighttime Hours	All Hours				
					2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity									
NC State	14,346	278,555.0	18.7	0.8	19.4	5.6	21.2	20.8	19.9
UNC-Chapel Hill	14,255	272,208.0	18.4	0.7	19.1	0.2	19.2	18.6	18.6
Subtotal	28,601	550,763.0							
Subtotal Average			18.5	0.7	19.3	3.9	20.0	19.7	19.2
Doctoral Universities: High Research Activity									
East Carolina	9,361	147,586.5	15.2	0.6	15.8	8.7	20.9	21.7	22.8
N.C. A&T	6,997	96,647.0	12.4	1.4	13.8	4.8	16.3	15.4	14.8
UNC Charlotte	13,464	206,831.5	13.3	2.1	15.4	4.9	21.7	22.1	24.4
UNC Greensboro	8,694	85,193.5	8.9	0.9	9.8	11.9	17.5	18.6	18.4
UNC Wilmington	7,217	108,371.5	14.1	0.9	15.0	5.5	21.8	22.2	21.4
Subtotal	45,733	644,630.0							
Subtotal Average			12.8	1.3	14.1	6.6	19.5	20.3	20.9
Doctoral/Professional Universities									
Western Carolina	4,464	54,120.0	11.4	0.7	12.1	7.4	23.7	22.3	21.0
Winston-Salem	4,002	11,402.5	2.6	0.2	2.8	3.3	12.7	13.7	13.3
Subtotal	8,466	65,522.5							
Subtotal Average			7.3	0.5	7.7	4.5	19.0	18.8	17.8
Master's Colleges & Universities: Larger/Medium Programs									
Appalachian	9,712	154,890.5	15.2	0.7	15.9	5.0	20.5	19.3	21.0
Fayetteville	2,516	19,014.5	6.7	0.9	7.6	7.8	13.9	14.8	14.0
NCCU	6,397	47,862.5	6.9	0.6	7.5	3.0	9.2	9.6	10.2
UNC Pembroke	4,783	42,459.5	8.3	0.6	8.9	5.0	13.6	14.5	13.8
Subtotal	23,408	264,227.0							
Subtotal Average			10.6	0.7	11.3	4.7	15.1	15.2	15.7
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	1,462	28,356.0	17.8	1.6	19.4	11.3	17.5	18.2	16.0
Subtotal	1,462	28,356.0							
Subtotal Average			17.8	1.6	19.4	11.3	17.5	18.2	16.0
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	3,493	13,654.0	3.6	0.3	3.9	2.8	5.2	5.1	4.2
Subtotal	3,493	13,654.0							
Subtotal Average			3.6	0.3	3.9	2.8	5.2	5.1	4.2
Schools of Art, Music, & Design									
UNC School of the Arts	1,366	6,426.0	4.6	0.1	4.7	0.0	6.4	5.9	6.1
Subtotal	1,366	6,426.0							
Subtotal Average			4.6	0.1	4.7	0.0	6.4	5.9	6.1
Grand Total	112,529	1,573,578.5							
Grand Total Average			13.1	0.9	14.0	5.2	18.4	18.4	18.5

Table 6: Average Weekly Use of Student Stations in Class Laboratories

Average weekly use of student stations in class laboratories is calculated by dividing the total number of student clock hours generated in class laboratories by the total number of student stations in class laboratories. More generally, it can be thought of as the average number of hours each week that each class lab student station is used.

$$\text{AVERAGE WEEKLY USE OF STUDENT STATIONS IN CLASS LABORATORIES} = \frac{\text{TOTAL STUDENT CLOCK HOURS IN CLASS LABORATORIES}}{\text{TOTAL STUDENT STATIONS IN CLASS LABORATORIES}}$$

For the current year, Table 6 reports the total number of class lab student stations and breaks down the average weekly use figure into daytime and nighttime utilizations. (See page 13 for a discussion of what the term class laboratory includes and page 9 for precise definitions of daytime and nighttime utilizations.) For purposes of comparison, this table also lists the average weekly use of student stations for the previous four years.

The average weekly use of student stations can serve as an indicator of the adequacy of the number of stations in class laboratories.

A frequently cited norm is **15 hours per week**. This figure assumes that the average weekly use of class labs is 20 hours (see Table 4) and that there is 75% utilization of student stations when class labs are in use (Table 7).

Table 6. Average Weekly Use of Student Stations in Class Laboratories

Institution	No. of Stations	Student Clock Hours	Average Daytime Hours	Average Nighttime Hours	All Hours				
					2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity									
NC State	5,609	69,258.5	11.2	1.1	12.3	4.6	12.2	10.5	11.1
UNC-Chapel Hill	2,676	14,858.0	4.8	0.7	5.5	0.0	6.8	6.8	6.6
Subtotal	8,285	84,116.5							
Subtotal Average			9.2	1.0	10.2	3.3	10.6	9.4	9.7
Doctoral Universities: High Research Activity									
East Carolina	4,703	44,756.5	8.8	0.7	9.5	8.7	11.4	11.6	11.4
N.C. A&T	2,396	25,475.0	9.3	1.3	10.6	3.0	11.7	11.1	11.0
UNC Charlotte	3,960	37,043.5	8.2	1.2	9.4	5.0	13.1	14.6	13.7
UNC Greensboro	3,800	29,942.0	7.2	0.7	7.9	10.5	11.7	8.9	13.1
UNC Wilmington	2,580	31,700.5	11.1	1.2	12.3	3.0	15.0	14.1	15.8
Subtotal	17,439	168,917.5							
Subtotal Average			8.7	1.0	9.7	6.5	12.5	11.6	12.3
Doctoral/Professional Universities									
Western Carolina	2,400	22,104.0	8.2	1.0	9.2	6.3	13.9	13.9	13.6
Winston-Salem	1,581	2,204.5	1.3	0.1	1.4	1.8	8.7	8.4	7.0
Subtotal	3,981	24,308.5							
Subtotal Average			5.5	0.6	6.1	4.2	12.1	12.0	11.3
Master's Colleges & Universities: Larger/Medium Programs									
Appalachian	3,630	50,433.0	12.6	1.3	13.9	3.2	17.5	17.5	18.2
Fayetteville	940	5,314.0	5.4	0.2	5.7	5.7	10.0	10.9	8.5
NCCU	1,387	10,198.5	6.1	1.2	7.4	4.2	7.2	8.4	8.7
UNC Pembroke	1,494	6,531.5	4.3	0.1	4.4	4.1	11.3	14.3	11.6
Subtotal	7,451	72,477.0							
Subtotal Average			8.8	0.9	9.7	4.1	13.2	14.1	13.3
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	387	4,372.0	9.9	1.4	11.3	10.7	10.7	10.2	11.5
Subtotal	387	4,372.0							
Subtotal Average			9.9	1.4	11.3	10.7	10.7	10.2	11.5
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	1,481	4,943.5	2.7	0.7	3.3	4.3	4.3	3.9	3.6
Subtotal	1,481	4,943.5							
Subtotal Average			2.7	0.7	3.3	4.3	4.3	3.9	3.6
Schools of Art, Music, & Design									
UNC School of the Arts	1,938	14,479.0	6.0	1.5	7.9	7.9	7.9	7.4	7.4
Subtotal	1,938	14,479.0							
Subtotal Average			6.0	1.5	7.5	7.9	7.9	7.4	7.4
Grand Total	40,962	373,614.0							
Grand Total Average			8.2	0.9	9.1	4.5	11.5	11.1	11.3

Table 7: Percent Student Station Utilization, Classrooms & Class Laboratories

Percent student station utilization indicates the average percentage of student stations that are occupied when classrooms or class laboratories are in use. It is calculated by dividing the student clock hours generated in class-rooms (or class labs) by the potential student clock hours for classrooms (or class labs) and multiplying by 100 to convert to a percentage. Potential student clock hours are computed on a room-by-room basis by multiplying the number of student stations in each room by the hours of instruction generated by the room (Tables 3 and 4). It indicates the number of student clock hours that would be generated if every room were filled (i.e., if the number of students equaled the number of stations) each time a course met in the room.

$$\text{PERCENT STUDENT STATION UTILIZATION IN CLASSROOMS (OR CLASS LABS) =} \\ \frac{\text{STUDENT CLOCK HOURS IN CLASSROOMS (OR CLASS LABS)}}{\text{POTENTIAL STUDENT CLOCK HOURS IN CLASSROOMS (OR CLASS LABS)}}$$

It is important to keep in mind that the percent student station utilization assesses the utilization of rooms only when they are in use. Therefore, this figure is a helpful indicator of how close to capacity an institution's courses are to the rooms in which they are scheduled. It does not, however, indicate the overall efficiency of utilization since it does not consider how frequently a room is used.

The University of North Carolina standards are 65% for classrooms and 75% for class laboratories. The higher percentage for class labs reflects the assumption that these rooms, although used less frequently than classrooms due to their specialized configuration and/or equipment, are usually closer to being filled when they are in use.

Data for University of North Carolina institutions indicate that the percent student station utilization of labs at most campuses are generally higher than classrooms.

Percent student station utilization may also be referred to as the Station Occupancy Rate (SOR).

Table 7. Percent Student Station Utilization, Classrooms and Class Laboratories

Institution	Classrooms					Laboratories				
	2021	2020	2019	2018	2017	2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity										
NC State	62.5	37.5	64.7	64.7	63.3	70.4	69.3	78.2	75.5	73.8
UNC-Chapel Hill	67.7	40.9	68.6	66.9	65.5	43.3	0.0	49.5	50.1	51.2
Group Subtotal Percent	65.0	37.5	66.5	65.8	64.4	63.4	69.3	69.8	67.9	67.5
Doctoral Universities: High Research Activity										
East Carolina	64.3	49.8	69.8	70.7	72.6	58.0	61.5	62.3	62.0	59.5
N.C. A&T	52.7	36.5	54.2	54.7	55.3	72.0	67.7	76.7	73.6	71.6
UNC Charlotte	56.2	36.3	66.0	67.1	66.5	57.0	52.3	63.6	65.2	60.9
UNC Greensboro	35.3	63.3	57.9	62.0	61.6	50.2	73.4	57.5	54.2	61.5
UNC Wilmington	58.0	63.9	67.0	63.1	65.4	59.6	70.5	68.5	70.4	75.7
Group Subtotal Percent	53.3	45.7	63.6	64.6	65.3	58.2	63.0	64.4	63.8	64.1
Doctoral/Professional Universities										
Western Carolina	38.9	86.1	69.7	67.0	66.8	47.9	59.7	63.6	63.0	63.7
Winston-Salem	35.1	34.7	57.5	58.5	57.9	48.2	43.5	65.0	61.6	57.7
Group Subtotal Percent	38.1	49.2	65.8	64.2	63.8	47.9	55.5	63.9	62.6	62.3
Master's Colleges & Universities: Larger/Medium Programs										
Appalachian	63.7	73.8	68.3	67.6	69.3	67.2	68.9	80.0	78.2	77.4
Fayetteville	42.6	47.5	57.0	54.9	52.5	48.2	51.9	62.0	63.6	61.2
NCCU	44.9	39.9	52.2	49.4	51.1	74.9	65.5	77.4	82.9	82.8
UNC Pembroke	48.1	43.5	58.1	61.4	59.5	42.9	43.3	67.6	72.8	66.9
Group Subtotal Percent	54.7	47.6	61.8	60.9	61.4	63.1	55.8	75.5	76.0	74.2
Baccalaureate Colleges: Arts & Sciences Focus										
UNC Asheville	70.4	80.1	62.8	63.3	60.4	63.9	73.5	73.7	66.5	66.0
Group Subtotal Percent	70.4	80.1	62.8	63.3	60.4	63.9	73.5	73.7	66.5	66.0
Baccalaureate Colleges: Diverse Fields										
Elizabeth City	43.2	31.4	44.1	41.2	35.3	43.9	41.7	47.5	40.9	38.4
Group Subtotal Percent	43.2	31.4	44.1	41.2	35.3	43.9	41.7	47.5	40.9	38.4
Schools of Art, Music, & Design										
UNC School of the Arts	44.2	0.0	49.5	50.5	50.7	46.6	0.0	49.8	49.6	48.0
Group Subtotal Percent	44.2	0.0	49.5	50.5	50.7	46.6	0.0	49.8	49.6	48.0
Grand Total Percent	56.2	44.6	63.9	63.9	63.8	58.6	61.6	66.4	65.6	65.1

Table 8: Student Clock Hours of Instruction

This table indicates the weekly student clock hours of instruction being conducted at the end of the fall drop-add period. Student clock hours are computed by multiplying for each course the number of hours that the course meets each week by the number of students enrolled. (To compute the number of hours that the course meets each week, the class length is rounded to the nearest half hour and multiplied by the number of times the class meets weekly.) The data reflect both credit and non-credit courses, which were at least eight weeks in duration.

The columns headed "Laboratories" reflect instruction conducted only in class laboratories (room code 210). A precise definition of class laboratory is provided on page 11. The columns headed "Other" reflect instruction in rooms coded other than 110 and 210 (e.g., other types of laboratories, physical education facilities, offices). An outline of the room use code structure is presented on pages 61-62.

The number of clock hours conducted in a particular category of space is a function of the number of students enrolled, the nature of the instructional programs being pursued by the students, and the instructional philosophy of the institution.

Table 8. Student Clock Hours of Instruction

Institution	2021			2020		
	Classroom	Laboratory	Other	Classroom	Laboratory	Other
Doctoral Universities: Very High Research Activity						
NC State	278,555.0	69,258.5	25,469.0	79,709.0	29,851.0	13,690.0
UNC-Chapel Hill	272,208.0	14,858.0	8,913.0	1,472.0	0.0	139.5
Subtotal	550,763.0	84,116.5	34,382.0	81,181.0	29,851.0	13,829.5
Doctoral Universities: High Research Activity						
East Carolina	147,586.5	44,756.5	11,772.0	81,187.0	39,174.5	11,192.5
N.C. A&T	96,647.0	25,475.0	16,411.5	33,452.5	7,307.5	7,160.0
UNC Charlotte	206,831.5	37,043.5	3,257.5	55,027.0	13,561.0	2,184.5
UNC Greensboro	85,193.5	29,942.0	6,264.0	38,274.5	19,832.0	5,305.0
UNC Wilmington	108,371.5	31,700.5	4,354.5	19,643.0	4,233.0	1,662.5
Subtotal	644,630.0	168,917.5	42,059.5	227,584.0	84,108.0	27,504.5
Doctoral/Professional Universities						
Western Carolina	54,120.0	22,104.0	11,805.5	12,685.0	11,156.0	9,070.0
Winston-Salem	11,402.5	2,204.5	2,894.5	12,941.0	2,831.5	3,777.0
Subtotal	65,522.5	24,308.5	14,700.0	25,626.0	13,987.5	12,847.0
Master's Colleges & Universities: Larger/Medium Programs						
Appalachian	154,890.5	50,433.0	24,405.0	17,502.0	6,419.0	5,088.5
Fayetteville	19,014.5	5,314.0	1,448.0	19,789.5	5,365.0	1,463.0
NCCU	47,862.5	10,198.5	8,857.5	19,384.0	5,817.0	9,085.0
UNC Pembroke	42,459.5	6,531.5	2,107.5	24,763.5	5,788.0	3,149.0
Subtotal	264,227.0	72,477.0	36,818.0	81,439.0	23,389.0	18,785.5
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	28,356.0	4,372.0	6,343.0	11,641.0	2,608.0	5,391.5
Subtotal	28,356.0	4,372.0	6,343.0	11,641.0	2,608.0	5,391.5
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	13,654.0	4,943.5	145.0	8,289.5	3,408.0	120.0
Subtotal	13,654.0	4,943.5	145.0	8,289.5	3,408.0	120.0
Schools of Art, Music, & Design						
UNC School of the Arts	6,426.0	14,479.0	10,500.5	0.0	0.0	0.0
Subtotal	6,426.0	14,479.0	10,500.5	0.0	0.0	0.0
Grand Total	1,573,578.5	373,614.0	144,948.0	435,760.5	157,351.5	78,478.0

Table 8. (Cont'd) Student Clock Hours of Instruction

Institution	2019		
	Classroom	Laboratory	Other
Doctoral Universities: Very High Research Activity			
NC State	304,855.5	74,105.5	30,105.5
UNC-Chapel Hill	278,423.0	19,407.0	10,721.0
Subtotal	583,278.5	93,512.5	40,826.5
Doctoral Universities: High Research Activity			
East Carolina	196,439.5	51,854.0	21,258.5
N.C. A&T	113,801.5	27,853.5	18,044.0
UNC Charlotte	286,693.0	53,460.5	5,012.5
UNC Greensboro	150,149.5	34,293.5	12,317.5
UNC Wilmington	136,075.5	34,220.0	6,925.0
Subtotal	883,159.0	201,681.5	63,557.5
Doctoral/Professional Universities			
Western Carolina	105,192.0	32,018.5	12,663.5
Winston-Salem	41,261.5	10,149.0	6,475.0
Subtotal	146,453.5	42,167.5	19,138.5
Master's Colleges & Universities: Larger/Medium Programs			
Appalachian	181,661.5	53,750.5	35,670.0
Fayetteville	34,896.0	9,447.5	3,242.0
NCCU	58,582.0	10,010.5	12,926.0
UNC Pembroke	52,556.5	10,150.5	2,196.5
Subtotal	327,696.0	83,359.0	54,034.5
Baccalaureate Colleges: Arts & Sciences Focus			
UNC Asheville	34,992.5	7,854.5	7,452.0
Subtotal	34,992.5	7,854.5	7,452.0
Baccalaureate Colleges: Diverse Fields			
Elizabeth City	15,444.5	6,023.5	282.5
Subtotal	15,444.5	6,023.5	282.5
Schools of Art, Music, & Design			
UNC School of the Arts	7,327.0	15,201.0	11,183.5
Subtotal	7,327.0	15,201.0	11,183.5
Grand Total	1,998,351.0	449,799.5	196,475.0

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Table 9: Space Factors

A space factor is the assignable square feet of a given type of space divided by the student clock hours of instruction generated from that type of space. It is very useful to facilities planners in that it combines the concepts of weekly room hours (Tables 3 and 4), percent student station utilization (Table 7), and assignable square feet per student station (Tables 16 and 17) into a single factor. **The lower the space factor, the more effectively the space is being utilized for instructional purposes.**

Space factors can be specifically defined in two ways. For Table 9, the following formula is used:

$$\text{SPACE FACTOR} = \frac{\text{ASSIGNABLE SQUARE FEET}}{\text{STUDENT CLOCK HOURS}}$$

An alternative formula is:

$$\text{SPACE FACTOR} = \frac{\text{ASSIGNABLE SF/STATION}}{\text{AVG WEEKLY ROOM HOURS X PERCENT STATION UTILIZATION}}$$

Note that space factors must relate to a specified type of space. For example, a classroom space factor is calculated by dividing the assignable square feet of classroom space by the student clock hours generated in classrooms.

Although the two are equivalent, they may produce slightly different results due to the rounding, which is inherent in the second formula. The second formula is nevertheless useful in calculating space factor norms.

Classrooms - If the UNC target standards cited for Tables 3, 7, and 16 are used for the three factors which comprise the second formula, the result is a space factor of 0.79:

$$\text{Classroom Space Factor} = \frac{18}{35 \times .65} = 0.79$$

Although this represents a frequently cited norm for classroom space factors, it is considerably lower (i.e., more efficient) than the classroom space factors of most University of North Carolina System institutions. The current average can be calculated by using the averages for the three required indices from Tables 3, 7, and 16:

$$\text{Classroom Space Factor} = \frac{19}{21.8 \times .562} = 1.55$$

Class Laboratories

The average assignable square footage per station in class laboratories varies widely among different types of labs. This variance results in a wide range of space factors and makes defining norms difficult. Standards adopted by the University of North Carolina System (See Table 11) classify class laboratories into four categories, based on discipline requirements, and assign a space factor (and other criteria) for each:

<p>High Intensive (e.g., Engineering and intensive Fine Arts) is assigned a Space Factor standard of 7.20. This is based on standards of 20 Weekly Room Hours (Room Utilization Rate), a Percent Student Station Utilization (or Station Occupancy Rate) of 0.75, and ASF per Student Station (Station Size) of 108 square feet.</p>	<p>Moderately Intensive (e.g., Communications, Education) is assigned a Space Factor standard of 3.33. This is based on standards of 20 Weekly Room Hours, a Percent Student Station Utilization of 0.75, and ASF per student Station of 50 square feet.</p>
<p>Intensive (e.g., Agriculture, Architecture, Biological Sciences, Health Professions, Library and Physical Sciences) is assigned a Space Factor Standard of 4.67. This is based on standards of 20 Weekly Room Hours, a Percent Student Station Utilization of 0.75, and ASF per Student Station of 70 square feet.</p>	<p>Non-Intensive (e.g., Business, Cinematography, Languages) is assigned a Space Factor of 2.20. This is based on standards of 20 Weekly Room Hours, a Percent Student Station Utilization of 0.75, and ASF per Student Station of 33 square feet.</p>

Teaching Areas

Teaching areas represent the sum of classroom and class laboratory space. A space factor norm for teaching areas has not been derived, but the group means can be useful in assessing the extent of utilization.

Table 10 has also been developed to assist institutions in analyzing their utilization data. High, low, and weighted means are reported for average weekly room hours, percent student station utilization, and space factors, in both classrooms and class laboratories.

Table 9. Space Factors

Institution	Classrooms					Laboratories				
	2021	2020	2019	2018	2017	2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity										
NC State	0.89	3.10	0.82	0.83	0.87	3.37	8.84	3.29	3.88	3.73
UNC-Chapel Hill	0.97	173.79	0.93	0.94	0.94	5.84	0.00	5.04	4.97	5.01
Group Subtotal Factor	0.93	6.20	0.87	0.89	0.91	3.81	11.83	3.65	4.12	4.01
Doctoral Universities: High Research Activity										
East Carolina	1.11	2.03	0.84	0.81	0.77	3.76	4.15	3.14	3.11	3.19
N.C. A&T	1.42	4.11	1.21	1.27	1.33	3.89	13.03	3.42	3.61	3.66
UNC Charlotte	1.19	4.39	0.84	0.82	0.77	4.41	12.36	3.04	2.60	2.98
UNC Greensboro	1.82	3.59	0.96	0.92	0.92	5.49	6.76	3.96	4.22	3.67
UNC Wilmington	1.39	8.05	0.96	0.94	0.95	3.07	21.33	2.45	2.75	2.52
Group Subtotal Factor	1.32	3.69	0.93	0.91	0.88	4.10	7.73	3.17	3.18	3.16
Doctoral/Professional Universities										
Western Carolina	1.79	7.13	0.86	0.91	0.96	5.15	8.67	3.02	3.11	3.23
Winston-Salem	7.35	6.48	1.57	1.45	1.51	32.07	24.97	4.29	4.30	5.15
Group Subtotal Factor	2.76	6.80	1.06	1.08	1.13	7.59	11.97	3.32	3.41	3.66
Master's Colleges & Universities: Larger/Medium Programs										
Appalachian	1.26	10.38	0.99	1.04	0.94	2.85	21.18	2.55	2.53	2.40
Fayetteville	2.65	2.54	1.44	1.37	1.46	6.73	6.66	3.78	3.38	4.32
NCCU	2.50	6.16	2.04	1.94	1.83	5.84	10.24	5.95	5.10	4.92
UNC Pembroke	2.35	4.30	1.62	1.59	1.68	6.87	7.27	3.53	2.91	3.59
Group Subtotal Factor	1.76	5.62	1.33	1.33	1.28	3.92	11.69	3.22	3.02	3.14
Baccalaureate Colleges: Arts & Sciences Focus										
UNC Asheville	1.52	3.75	1.24	1.19	1.34	3.47	6.43	4.87	5.16	4.76
Group Subtotal Factor	1.52	3.75	1.24	1.19	1.34	3.47	6.43	4.87	5.16	4.76
Baccalaureate Colleges: Diverse Fields										
Elizabeth City	5.42	7.75	4.16	4.17	5.01	10.27	14.49	8.20	8.90	9.72
Group Subtotal Factor	5.42	7.75	4.16	4.17	5.01	10.27	14.49	8.20	8.90	9.72
Schools of Art, Music, & Design										
UNC School of the Arts	5.92	0.00	4.10	4.43	4.25	5.87	0.00	5.59	5.95	5.79
Group Subtotal Factor	5.92	0.00	4.10	4.43	4.25	5.87	0.00	5.59	5.95	5.79
Grand Total Factor	1.38	4.85	1.03	1.09	1.08	4.37	10.14	3.47	3.81	3.82

Table 9. (Continued) Space Factors

Institution	Teaching Areas				
	2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity					
NC State	1.38	4.67	1.30	1.40	1.45
UNC-Chapel Hill	1.22	234.51	1.19	1.21	1.22
Group Subtotal Factor	1.31	7.71	1.25	1.32	1.34
Doctoral Universities: High Research Activity					
East Carolina	1.73	2.72	1.32	1.27	1.21
N.C. A&T	1.94	5.71	1.64	1.73	1.80
UNC Charlotte	1.68	5.96	1.19	1.07	1.10
UNC Greensboro	2.77	4.67	1.52	1.47	1.37
UNC Wilmington	1.77	10.41	1.26	1.27	1.26
Group Subtotal Factor	1.90	4.78	1.34	1.30	1.28
Doctoral/Professional Universities					
Western Carolina	2.77	7.85	1.37	1.42	1.49
Winston-Salem	11.36	9.80	2.10	1.97	2.10
Group Subtotal Factor	4.07	8.63	1.57	1.59	1.67
Master's Colleges & Universities: Larger/Medium Programs					
Appalachian	1.65	13.28	1.35	1.38	1.27
Fayetteville	3.54	3.42	1.94	1.82	2.17
NCCU	3.08	7.11	2.61	2.44	2.32
UNC Pembroke	2.95	4.86	1.93	1.80	1.94
Group Subtotal Factor	2.23	6.98	1.71	1.68	1.66
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	1.78	4.24	1.90	1.86	1.85
Group Subtotal Factor	1.78	4.24	1.90	1.86	1.85
Baccalaureate Colleges: Diverse Fields					
Elizabeth City	6.71	9.71	5.29	5.42	6.38
Group Subtotal Factor	6.71	9.71	5.29	5.42	6.38
Schools of Art, Music, & Design					
UNC School of the Arts	5.88	0.00	5.10	5.46	5.28
Group Subtotal Factor	5.88	0.00	5.10	5.46	5.28
Grand Total Factor	1.95	8.59	1.48	1.57	1.57

Table 10. Range of Selected Space Utilization Indices for Classrooms and Class Laboratories

Classification	Room Hours Per Week			% Student Station Utilization			Space Factor		
	High	Mean	Low	High	Mean	Low	High	Mean	Low
Classrooms									
Doctoral Universities: Very High Research Activity	30.1	28.0	26.3	67.7	65.0	62.5	0.97	0.93	0.89
Doctoral Universities: High Research Activity	24.0	23.1	22.4	64.3	53.3	35.3	1.82	1.32	1.11
Doctoral/Professional Universities	29.9	18.7	5.7	38.9	38.1	35.1	7.35	2.76	1.79
Master's Colleges & Universities: Larger Pro.	23.1	18.4	13.0	63.7	54.7	42.6	2.65	1.76	1.26
Baccalaureate Colleges: Arts & Sciences Focus	27.3	27.3	27.3	70.4	70.4	70.4	1.52	1.52	1.52
Baccalaureate Colleges: Diverse Fields	27.3	17.4	7.4	43.2	43.2	43.2	5.42	5.42	5.42
Schools of Art, Music, & Design*	8.8	8.8	8.8	44.2	44.2	44.2	5.92	5.92	5.92
Grand Total									
State Range	30.1	21.8	5.7	35.1	56.2	70.4	5.92	1.55	0.89
Typical Standard	-	35.0	-	-	65.0	-	-	0.79	-
Class Laboratories									
Doctoral Universities: Very High Research Activity	16.9	14.1	8.3	70.4	63.4	43.3	5.84	4.36	3.37
Doctoral Universities: High Research Activity	17.3	13.8	11.9	72.0	58.2	50.2	5.50	4.98	3.10
Doctoral/Professional Universities	14.7	9.1	2.1	48.2	47.9	47.9	32.10	10.55	5.20
Master's Colleges & Universities: Larger/Med.	19.1	11.2	7.4	74.9	63.1	42.9	6.90	4.33	2.80
Baccalaureate Colleges: Arts & Sciences Focus	14.7	14.7	14.7	63.9	63.9	63.9	3.47	3.47	3.47
Baccalaureate Colleges: Diverse Fields	4.8	4.8	4.8	43.9	43.9	43.9	10.27	10.27	10.27
Schools of Art, Music, & Design*	13.2	13.2	13.2	46.6	46.6	46.6	5.87	5.87	5.87
Grand Total									
State Range	19.1	13.0	2.1	74.9	58.6	42.9	32.07	5.25	2.85
Typical Standard	-	20.0	-	-	75.0	-	-	7.20	-

*Only one institution in this category

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Table 11: Space Standards

The University of North Carolina, in conjunction with higher education consultants Eva Klein and Associates, Ltd., in 1997-98 developed space planning standards to be used as an additional variable in the evaluation of capital project needs at the UNC institutions. Space planning standards were developed for the first four series of HEGIS Room Use Codes, 100, 200, 300, and 400, as defined in both the national and N.C. facilities classification manuals. The resulting proposed space planning standards reported in “The University of North Carolina Space Planning Standards - October 1998” were officially adopted by the UNC Board of Governors in October 1998.

It should be noted that the criteria presented here are planning guidelines for current and future needs based on specific assumptions of program, enrollment, employment, and/or research growth during a given planning period. These standards do not attempt to address quality issues of space in terms of either facility condition or suitability for current and future needs. Differences in institutional missions, program diversity, or specific strategic plans are also not represented in the space standards.

As a result, these standards are not intended as exclusive or absolute indicators for determination of project needs. Given these limitations, the space standards are used within various formulas to develop totals for predicted space for each campus. These figures are in turn used, in comparison with inventoried space statistics, to calculate hypothetical surplus/deficit assignable square footages in the selected categories.

100 Series – Classroom Facilities – The standards apply only to the 110-Classroom Room Use Code. Room Use Code 115 (Classroom Service) is omitted in the calculations in accordance with typical comparative reporting practices in higher education.

See Table 3 for additional details on average weekly room hours, Table 7 on percent student station and station occupancy ratio, Table 9 on space factors, and Table 16 regarding student station size.

CLASSROOM (110) STANDARDS	
Average Student Station Size	18 ASF
Average Weekly Room Hours	35 hours/week
Station Occupancy Ratio	65%
Space Factor (see Table 9)	0.79

200 Series – Laboratory Facilities – Two types of laboratory space were studied:

210 – Class Laboratory – This includes only those laboratories that are used for regularly scheduled instruction. Excluded are areas classified as 215-Class Laboratory Service, 220-Open Laboratory (irregularly scheduled), and 225-Open Laboratory Service.

250 – Research/Nonclass Laboratory – Based again on typical industry reporting standards, this analysis also includes space classified as 255-Research/Nonclass Laboratory Service as an aggregate for calculations. Only 250/255 space further classified under the Program Codes for Research (codes 21 and 22) are used in the calculations.

CLASS (TEACHING) LABORATORY (210) STANDARDS

Space Factors are based on a Percent Student Station Utilization (Station Occupancy Ratio) of 75% and a Weekly Room Hour (Room Utilization Rate) standard of 20 hours.

Teaching Lab Category	Discipline	ASF Per Station	Space Factor
Highly Intensive	Engineering (including Textiles), Applied Design, Dance, Dramatic Arts	108	7.2
Intensive	Agriculture, Architecture, Biological Sciences, Health Professions, Library Sciences, Physical Sciences	70	4.67
Moderately Intensive	Communications, Computer/Info Tech, Education, Art, Home Economics, Law, Psychology	50	3.33
Non-Intensive	Business, Cinematography, Music, Language, Letters, Mathematics, Public Affairs, Social Sciences	33	2.2

RESEARCH/NONCLASS LABORATORY (250/255) STANDARDS

Currently, a research space planning standard ASF allowance of 9,000 square feet per \$1 million of organized research expenditures, averaged over five years, is recommended for application to only the two major research universities – UNC-Chapel Hill and N.C. State University. For all other UNC institutions, program considerations, and not planning standards, remain the basis for justification for research space capital requests. A recommendation is in place to ultimately develop four categories of disciplines with corresponding ASF allowances per \$1 million of averaged expenditures.

Research Lab Category	Discipline	ASF per \$1M Averaged Organized Research Expenditures
Highly Intensive	Production Agriculture/ Animal, Crop, Poultry, Soil Sciences	11,000
Intensive	Agricultural Sciences (other than Production Agriculture), Architecture and Related Programs, Conservation and Renewable Resources/Textiles, Forestry, Marine Sciences, Engineering, Health Professions, Physical Sciences	9,000
Moderately Intensive	Biological Sciences, Home Economics, Psychology	6,000
Non-Intensive	Applied Math/Statistics, Business, Communications, Education, Fine Arts, Languages, Law, Letters, Library Sciences, Public Affairs, Social Sciences	4,000

300 – Office Facilities – Office space standards aggregate inventoried square footages for the four Room Use Codes in the 300-series: 310-Office, 315-Office Service, 350-Conference Room, and 355-Conference Room Service.

Four standards of ASF allowance, based on personnel categories, were developed.

OFFICE FACILITY (310/315, 350/355) STANDARDS	ASF Standard
Administrative	275 ASF
Instructional and Professional	190 ASF
Technical and Clerical	140 ASF
Graduate Assistants	95 ASF

400 – Study Facilities – For study facilities, separate figures for predicted space are calculated for 410-Study Room, 420-Stack, 430-Open-Stack Study Room (using an assumption of an equal assignment of space to stack and study area within the formula), 440-Processing Room, and 455-Study Service. For surplus/deficit estimations, these figures are aggregated to study, stack, and service space and then subset under Program Code 41-Library Services for application to campus central libraries (i.e., excludes departmental libraries and study areas within residential and other buildings).

STUDY FACILITY (410, 420, 430, 440, 455) STANDARDS		
<i>Central Libraries only (Program Code 41)</i>		
Study Space	410-Study Room and 50% of 430-Open-Stack Study Room space	25 ASF per station for 20% of FTE students plus 8% of FTE faculty
Stack Space	420-Stack and 50% of 430-Open-Stack Study Room Space	0.08 ASF per volume
Service Space	440-Processing Room and 455-Study Service space	15% of the combined predicted requirement for study and stack space

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Table 12: Enrollments

The two primary measures of student populations are full-time equivalent (FTE) enrollment and headcount enrollment. FTE enrollment considers part-time students as fractions of full-time students using conversion formulas, which are described below. Headcount enrollment makes no distinction between full-time and part-time students.

FTE enrollments are generally more relevant than headcount enrollments in making space utilization assessments. Table 12, therefore, reports only FTE enrollments.

FTE Enrollment

FTE enrollment, as used in this study, is based on fall enrollment. It is defined as the number of full-time students (those carrying at least 75 percent of the normal credit hour load) plus the equivalent number of students enrolled for less than 75 percent of the normal full-time load. In obtaining the undergraduate FTE enrollment figures for the University of North Carolina System, a student carrying 12 or more credit hours is considered a full-time student. In those instances where a student takes less than 12 hours, the following method of calculating FTE students is used: a student with a load of nine through 11 credit hours is the equivalent of 3/4 FTE; the student with a six through eight credit hour load is the equivalent of 1/2 FTE; and a student with less than six credit hours is the equivalent of 1/4 FTE. In obtaining graduate FTE enrollment figures for the University of North Carolina System, a student carrying nine or more credit hours is considered a full-time student. In those instances where a graduate student takes less than nine credit hours, the following method of equating is used: a student with a load of six through eight credit hours is the equivalent of 3/4 FTE; the student with a three through five credit hour load is the equivalent of 1/2 FTE; and a student with less than three credit hours is the equivalent of 1/4 FTE.

Table 12. Summary of FTE Enrollment

Public Institutions		2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity		56,847	55,031	55,225	54,839	53,759
Doctoral Universities: High Research Activity		94,946	95,957	95,614	95,040	94,596
Doctoral/Professional Universities		15,526	15,907	15,890	15,503	14,782
Master's Colleges & Universities: Larger/Medium Program		39,690	39,368	38,286	37,681	36,470
Baccalaureate Colleges: Arts & Sciences Focus		3,007	3,105	3,295	3,489	3,553
Baccalaureate Colleges: Diverse Fields		1,854	1,822	1,663	1,554	1,298
Schools of Art, Music, & Design		1,109	1,059	1,075	1,040	998
Grand Total		212,978	212,249	211,048	209,146	205,456

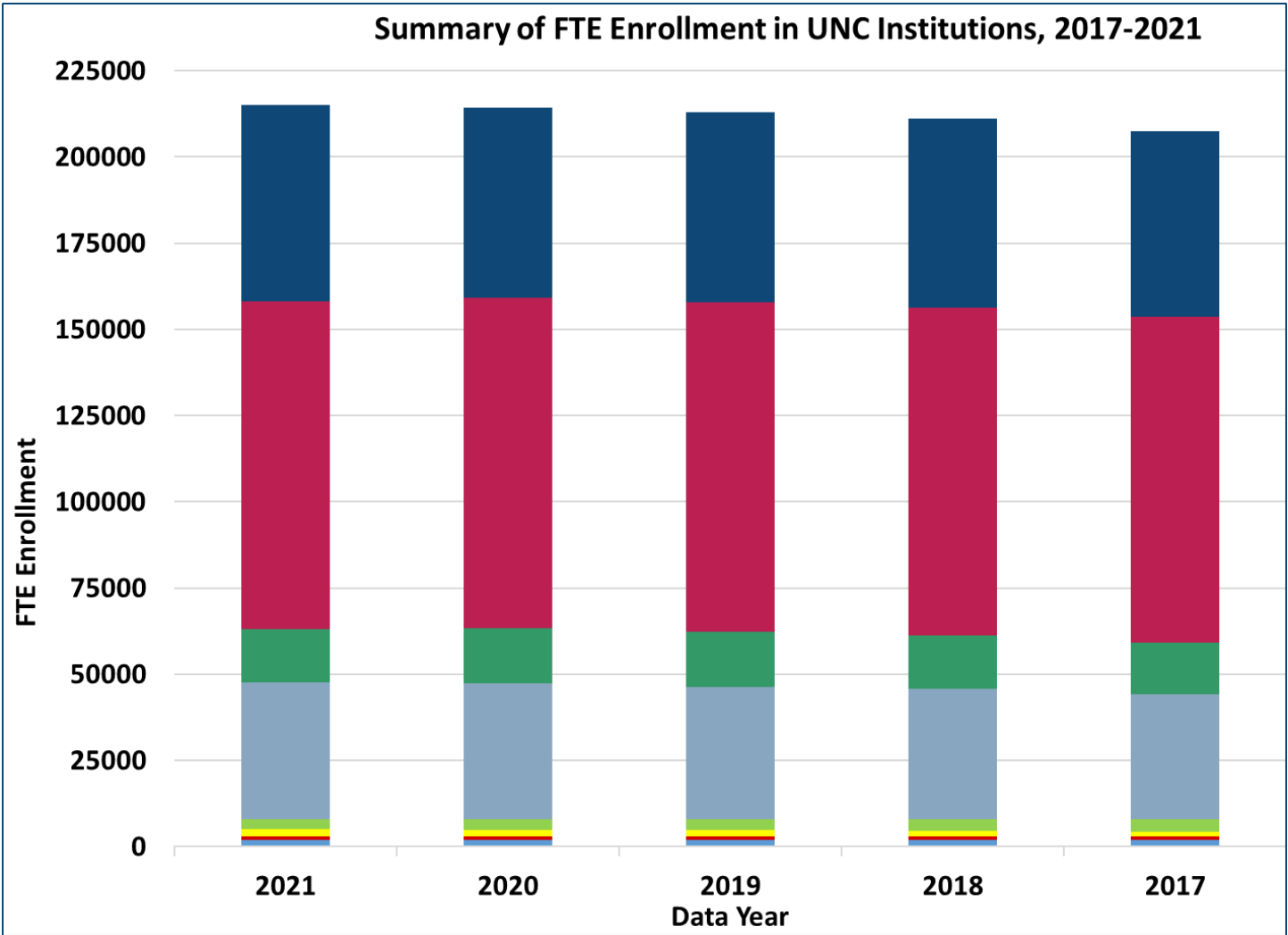


Table 12a. FTE Enrollments by Institution

Institution	2021		2020	2019	2018	2017
	On-Campus	Total	On-Campus	On-Campus	On-Campus	On-Campus
Doctoral Universities: Very High Research Activity						
NC State	32,643	-	31,872	32,121	31,513	30,552
NC State Veterinary Med	397	-	399	398	400	402
UNC-Chapel Hill	24,204	-	23,159	23,104	23,326	23,207
UNC-Chapel Hill Hlth Aff.	5,256	-	4,859	4,752	4,633	4,615
Subtotal	56,847	-	55,031	55,225	54,839	53,759
Doctoral Universities: High Research Activity						
East Carolina	22,008	-	22,786	22,701	22,958	23,483
East Carolina Hlth Aff.	2,738	-	2,771	2,744	2,754	2,747
N.C. A&T	12,384	-	11,897	11,765	11,346	11,112
UNC Charlotte	27,600	-	27,579	27,167	27,340	26,783
UNC Greensboro	16,982	-	17,764	18,184	18,239	18,153
UNC Wilmington	15,973	-	15,931	15,797	15,157	15,065
Subtotal	94,946	-	95,957	95,614	95,040	94,596
Doctoral/Professional Universities						
Western Carolina	10,713	-	11,104	11,103	10,660	10,031
Winston-Salem	4,813	-	4,803	4,787	4,843	4,751
Subtotal	15,526	-	15,907	15,890	15,503	14,782
Master's Colleges & Universities: Larger/Medium Programs						
Appalachian	19,781	-	19,188	18,572	18,394	18,099
Fayetteville	5,553	-	5,626	5,567	5,431	5,345
NCCU	7,208	-	7,343	7,291	7,502	7,471
UNC Pembroke	7,148	-	7,211	6,856	6,354	5,555
Subtotal	39,690	-	39,368	38,286	37,681	36,470
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	3,007	-	3,105	3,295	3,489	3,553
Subtotal	3,007	-	3,105	3,295	3,489	3,553
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	1,854	-	1,822	1,663	1,554	1,298
Subtotal	1,854	-	1,822	1,663	1,554	1,298
Schools of Art, Music, & Design						
UNC School of the Arts	1,109	(252)	1,059	1,075	1,040	998
Subtotal	1,109	(252)	1,059	1,075	1,040	998
Grand Total	212,978	(252)	212,249	211,048	209,146	205,456

2021 UNCSA FTE enrollment including high school students is 1,337.

Room Space Characteristics

- Table 13. Net-to-Gross Ratio 37
- Table 14. Summary Programs 39
 - Table 14a. Instruction, Research, and Public Service Subprograms 43
 - Table 14b. Academic Support Subprograms 47
 - Table 14c. Student Service and Physical Plant Operations Subprograms 49
 - Table 14d. Institutional Administrations, Independent Operations & Unassigned Subprograms 53
- Table 15. Assignable Area by Room Code 57
- Room Use Codes 61
- Table 16. ASF per Student Stations for Classrooms 63
- Table 17. ASF per Student Stations for Class Laboratories 65

Table 13: Net-to-Gross Ratio

The net-to-gross ratio is the assignable square-foot (ASF) area of a building or group of buildings divided by the gross square foot (GSF). It is generally used as a measure of the efficiency of a building: the higher the net-to-gross ratio, the more space that can be assigned to the various programs for which the building was intended.

Simply stated, the gross area of a building is the sum of the floor areas of the outside faces of its exterior walls for all the building's stories (or areas that have floor surfaces). A building's assignable area is the sum of all areas on all floors that are assigned to, or available for assignment to, an occupant or specific use. More specifically, it is the building's gross area less its building service, circulation, mechanical, and structural areas.

Beginning in 1985, parking deck space was coded as Nonassignable. This change in policy, while providing a truer picture of interior space characteristics, has the effect of decreasing the net-to-gross ratios of institutions with parking decks because GSF figures include these structures. The following institutions have parking decks:

Appalachian State University	379,144 GSF
N. C. State University	2,404,414 GSF
N.C. State Veterinary Medicine	186,098 GSF
UNC Asheville	98,200 GSF
UNC-Chapel Hill - Academic Affairs	1,011,884 GSF
UNC-Chapel Hill - Health Affairs	2,007,520 GSF
UNC Charlotte	3,049,241 GSF
UNC Greensboro	875,642 GSF
UNC Wilmington	635,812 GSF

Adjusted net-to-gross figures for these institutions, which eliminate parking decks entirely and thus provide a more accurate index of campus space efficiency, are as follows:

Appalachian State University	61.9%
N.C. State University	65.2%
N.C. State Veterinary Medicine	63.9%
UNC Asheville	59.0%
UNC-Chapel Hill Health Affairs	63.3%
UNC-Chapel Hill - Academic Affairs	60.6%
UNC Charlotte	56.5%
UNC Greensboro	58.6%
UNC Wilmington	68.5%

Table 13 Net-to-Gross Ratio

Institution	Gross Sq. Ft.	Assignable Sq. Ft.	Net-to-Gross %				
			2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity							
NC State	16,729,685	9,336,417	55.8	55.9	55.6	55.4	55.5
NC State Veterinary Med	906,787	460,789	50.8	51.1	51.1	50.5	50.3
UNC-Chapel Hill	13,701,486	7,623,259	55.6	55.3	54.9	55.1	55.2
UNC-Chapel Hill Hlth Aff.	6,902,797	2,575,081	37.3	37.2	38.0	38.1	38.3
Subtotal	38,240,755	19,995,546					
Subtotal Ratio			52.3	52.2	52.0	52.0	52.1
Doctoral Universities: High Research Activity							
East Carolina	5,482,487	3,391,073	61.9	59.6	59.5	64.5	65.2
East Carolina Hlth Aff.	1,932,930	1,152,846	59.6	56.7	56.7	61.4	61.3
N.C. A&T	3,338,581	2,302,589	69.0	69.3	69.3	69.2	69.8
UNC Charlotte	10,036,202	4,132,970	41.2	41.3	40.8	41.7	42.0
UNC Greensboro	6,853,853	3,500,601	51.1	50.8	50.9	50.7	50.7
UNC Wilmington	4,998,634	2,883,772	57.7	57.9	63.2	63.4	62.5
Subtotal	32,642,687	17,363,851					
Subtotal Ratio			53.2	52.8	53.3	54.7	54.6
Doctoral/Professional Universities							
Western Carolina	4,194,186	2,103,895	50.2	63.4	63.2	63.4	63.8
Winston-Salem	2,003,023	1,284,309	64.1	64.1	64.8	64.6	64.7
Subtotal	6,197,209	3,388,204					
Subtotal Ratio			54.7	63.6	63.8	63.8	64.1
Master's Colleges & Universities: Larger/Medium Programs							
Appalachian	5,126,829	2,940,197	57.3	57.1	56.7	56.4	56.5
Fayetteville	1,472,197	919,639	62.5	62.5	62.5	62.5	61.1
NCCU	2,182,407	1,394,029	63.9	64.0	64.0	64.7	64.8
UNC Pembroke	1,854,022	1,249,665	67.4	64.9	67.0	65.9	65.9
Subtotal	10,635,455	6,503,530					
Subtotal Ratio			61.1	60.6	60.8	60.5	60.5
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	1,675,747	931,199	55.6	57.1	57.7	57.7	57.4
Subtotal	1,675,747	931,199					
Subtotal Ratio			55.6	57.1	57.7	57.7	57.4
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	1,301,259	867,383	66.7	66.5	66.5	66.5	66.5
Subtotal	1,301,259	867,383					
Subtotal Ratio			66.7	66.5	66.5	66.5	66.5
Schools of Art, Music, & Design							
UNC School of the Arts	1,354,782	858,195	63.3	69.6	67.7	67.7	67.4
Subtotal	1,354,782	858,195					
Subtotal Ratio			63.3	69.6	67.7	67.7	67.4
Teaching Hospitals							
UNC Hospitals	2,499,249	1,358,303	54.3	54.3	54.3	54.3	54.3
Subtotal	2,499,249	1,358,303					
Subtotal Ratio			54.3	54.3	54.3	54.3	54.3
Grand Total	94,547,143	51,266,211					
Grand Total Ratio			54.2	54.6	54.7	55.1	62.0

Table 14: Percentage Distribution of Assignable Area by Summary Programs and Subprograms

All colleges and universities conduct a wide range of activities in pursuit of their missions as institutions of higher education. The Program Classification Structure, developed by the National Center for Higher Education Management Systems in 1978, attempts to categorize these activities.

The structure divides all of an institution's activities into ten major categories, called programs. Each program is divided into various subprograms. Virtually every activity and square foot of assignable space can be related to one of these subprograms.

Table 14 reports for each institution the percentage of total assignable area, which is classified under each program. Tables 14a-14d indicate these percentages for the subprograms. Definitions of the programs and subprograms are provided in the narratives, which precede the tables.

In Tables 14 and 14a-14d, the percentages relate the assignable square footage of the specified program or subprogram to the total assignable area for the institution. For Table 14, these percentages should in theory add to exactly 100.0, but in some cases they do not due to rounding. In Tables 14a-14d, the sums of the percentages reported for the subprograms under a given program should in theory equal the percentage for that program as reported in Table 14. Again, they sometimes do not because of the rounding of the subprogram percentages.

PROGRAM DEFINITIONS

The descriptions of programs and subprograms which precede Tables 14-14d are excerpted from Program Classification Structure: Technical Report 106 by Douglas J. Collier.

- 10 Instruction Program.** This program includes activities carried out for the express purpose of eliciting some measure of educational change in a learner or group of learners. An instructional activity need not be eligible for credit in meeting specified formal curricular requirements leading to a post-secondary degree or certificate.
- 20 Research Program.** Any activity intended to produce one or more research outcomes--including the creation of knowledge, the organization of knowledge, and the application of knowledge--is included within this program. A research activity may be conducted with institutional funds or under the terms of agreement with an agency external to the institution.
- 30 Public Service.** The Public Service Program includes activities established to make available to the public the various resources and capabilities of the institution for the specific purpose of responding to a community need or solving a community problem.
- 40 Academic Support Program.** Any activity carried out in direct support of one or more of the Instruction (10), Research (20), and Public Service (30) Programs is classified as Academic Support.
- 50 Student Service Program.** The objective of the Student Service Program is to contribute to the emotional and physical well-being of the students, as well as to their intellectual, cultural, and social development outside of the context of the institution's formal Instruction Program.
- 60 Institutional Administration Program.** This program consists of those activities carried out to provide for both the day-to-day functioning and the long-range viability of the institution as an operating organization. The goal of the Institutional Administration Program is to provide for the institution's organizational effectiveness and continuity.
- 70 Physical Plant Operations Program.** **Activities related to maintaining existing grounds and facilities,** providing utility services, and planning and designing future plant expansions and modifications are included within the Physical Plant Operations Program.
- 80 Student Financial Support Program.** This program includes only the financial assistance provided to students in the form of outright grants, trainee stipends, and prizes, awarded by and/or administered through the institution. Although it is part of the Program Classification Structure, this program applies only to funds and not to space or activities. It is not, therefore, used in facilities inventories.

- 90 Independent Operations Program.** Those institutional activities that are owned or controlled by the institution as investments, and which are financed as part of the institution's current operations, comprise the Independent Operations Program.
- 00 Unassigned.** Facilities that were not in use at the time of the inventory are classified under this program. It is unique to facilities management and is not included in the Program Classification Structure.

Table 14. Percentage Distribution of Assignable Area by Summary Programs

Institution	Assignable Sq. Ft.	Instruction 10	Research 20	Public Service 30	Academic Support 40
Doctoral Universities: Very High Research Activity					
NC State	9,336,417	18.9	27.8	4.9	6.4
NC State Veterinary Med	460,789	20.9	34.8	28.5	7.0
UNC-Chapel Hill	7,623,259	24.2	7.4	0.6	10.7
UNC-Chapel Hill Hlth Aff.	2,575,081	22.6	49.8	10.9	7.8
Subtotal	19,995,546				
Subtotal Percentage		21.4	23.0	4.6	8.2
Doctoral Universities: High Research Activity					
East Carolina	3,391,073	29.9	2.6	0.3	6.6
East Carolina Hlth Aff.	1,152,846	22.8	17.9	45.7	8.5
N.C. A&T	2,302,589	29.3	7.9	1.1	13.2
UNC Charlotte	4,132,970	22.7	7.6	1.6	10.1
UNC Greensboro	3,500,601	22.1	5.8	0.2	8.8
UNC Wilmington	2,883,772	19.6	4.2	1.2	8.4
Subtotal	17,363,851				
Subtotal Percentage		24.4	6.4	3.9	9.2
Doctoral/Professional Universities					
Western Carolina	2,103,895	25.5	1.2	0.2	9.4
Winston-Salem	1,284,309	24.1	2.6	0.3	7.5
Subtotal	3,388,204				
Subtotal Percentage		25.0	1.8	0.3	8.7
Master's Colleges & Universities: Larger/Medium Programs					
Appalachian	2,940,197	30.8	0.6	2.6	5.2
Fayetteville	919,639	28.1	1.0	0.1	10.5
NCCU	1,394,029	38.1	2.4	0.6	8.0
UNC Pembroke	1,249,665	24.3	0.0	0.0	10.3
Subtotal	6,503,530				
Subtotal Percentage		30.7	0.9	1.3	7.5
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	931,199	21.0	1.4	1.1	8.9
Subtotal	931,199				
Subtotal Percentage		21.0	1.4	1.1	8.9
Baccalaureate Colleges: Diverse Fields					
Elizabeth City	867,383	32.3	0.3	2.2	5.2
Subtotal	867,383				
Subtotal Percentage		32.3	0.3	2.2	5.2
Schools of Art, Music, & Design					
UNC School of the Arts	858,195	39.1	1.0	2.9	8.3
Subtotal	858,195				
Subtotal Percentage		39.1	1.0	2.9	8.3
Teaching Hospitals					
UNC Hospitals	1,358,303	1.0	0.5	81.8	0.0
Subtotal	1,358,303				
Subtotal Percentage		1.0	0.5	81.8	0.0
Grand Total	51,266,211				
Grand Total Percentage		23.8	11.4	5.5	8.2

**Table 14. (Continued) Percentage Distribution of Assignable Area
by Summary Programs**

Institution	Student Services 50	Inst. Admin. 60	Physical Plant 70	Indep. Opns. 90	Unassigned 00
Doctoral Universities: Very High Research Activity					
NC State	31.1	5.4	1.5	1.4	2.6
NC State Veterinary Med	1.4	1.3	4.5	0.7	1.1
UNC-Chapel Hill	46.0	5.4	2.8	0.7	2.1
UNC-Chapel Hill Hlth Aff.	0.3	2.7	0.2	2.1	3.5
Subtotal Percentage	32.2	5.0	1.9	1.2	2.5
Doctoral Universities: High Research Activity					
East Carolina	47.9	7.3	2.6	1.6	1.3
East Carolina Hlth Aff.	0.1	2.7	2.2	0.0	0.1
N.C. A&T	34.5	11.6	1.4	0.9	0.3
UNC Charlotte	50.3	4.4	1.6	0.0	1.6
UNC Greensboro	51.5	7.3	2.2	1.5	0.7
UNC Wilmington	59.2	4.3	0.7	1.7	0.6
Subtotal Percentage	46.1	6.3	1.8	1.0	0.9
Doctoral/Professional Universities					
Western Carolina	50.3	7.2	2.8	1.4	2.0
Winston-Salem	54.0	6.9	1.7	0.7	2.1
Subtotal Percentage	51.7	7.1	2.4	1.1	2.1
Master's Colleges & Universities: Larger/Medium Programs					
Appalachian	53.9	4.7	1.6	0.3	0.3
Fayetteville	41.1	4.6	1.4	1.3	11.9
NCCU	37.7	5.9	0.6	1.3	5.4
UNC Pembroke	55.2	8.5	1.7	0.0	0.0
Subtotal Percentage	48.9	5.7	1.4	0.6	3.0
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	56.9	5.0	4.5	1.1	0.0
Subtotal Percentage	56.9	5.0	4.5	1.1	0.0
Baccalaureate Colleges: Diverse Fields					
Elizabeth City	46.2	5.6	0.9	0.0	7.2
Subtotal Percentage	46.2	5.6	0.9	0.0	7.2
Schools of Art, Music, & Design					
UNC School of the Arts	29.6	10.9	2.6	0.3	5.3
Subtotal Percentage	29.6	10.9	2.6	0.3	5.3
Teaching Hospitals					
UNC Hospitals	0.0	10.8	1.8	1.0	3.1
Subtotal Percentage	0.0	10.8	1.8	1.0	3.1
Grand Total Percentage	40.1	5.9	1.9	1.0	2.1

Table 14a: Instruction, Research, and Public Service Subprograms

Table 14a indicates the percentages of institutional square footage under the Instruction, Research, and Public Service Subprograms.

The definitions of these subprograms follow. Subprograms that are described but which are not included in Table 14a, had no square footage assigned to them by institutions.

- 11 General Academic Instruction.** This subprogram includes instructional offerings intended both to prepare learners, in a generalized sense, to function in several different occupations and to prepare them for further academic study. Instructional offerings of this general academic nature are classified in this subprogram only if they are offered as part of one of the institution's formal degree or certificate programs.
- 12 Vocational/Technical Instruction.** This subprogram includes instructional offerings intended to prepare learners for immediate entry into a specific occupation or career. Instructional offerings are classified in this subprogram only if they are offered as part of one of the institution's formal degree or certificate programs.
- 13 Requisite Preparatory/Remedial Instruction.** This category includes instructional offerings carried out to provide the learner with the skills or knowledge required by the institution to undertake course work leading to a postsecondary degree or certificate.
- 14 General Studies.** This subprogram includes instructional offerings that are not part of one of the institution's formal postsecondary degree or certificate programs and that are intended to provide the learner with knowledge, skills, and attitudes typically associated with an academic discipline (such as literature, mathematics, philosophy).
- 15 Occupational-Related Instruction.** This subprogram includes instructional offerings that are not carried out as part of a formal certificate or degree program but that are offered to provide the learner with knowledge, skills, and background related to a specific occupation or career.
- 16 Social Roles/Interaction Instruction.** This subprogram includes instructional offerings that are not carried out as part of a certificate or degree program but that are offered to provide the learner with knowledge, skills, and background needed to function as a member of society or to interact with the variety of social institutions. It also includes offerings that deal with the person as a member of a particular social organization or institution.
- 17 Home and Family Life Instruction.** This subprogram includes instructional offerings that are not offered as part of a certificate or degree program, but which are carried out to provide the learner with knowledge, skills, and capabilities related to the establishment, maintenance, and improvement of a home; to the carrying out of those functions typically associated with the conduct of a household; or to the person's responsibilities as a member of the family unit.
- 18 Personal Interest and Leisure Instruction.** This subprogram includes those instructional activities that are not offered as part of a certificate or degree program, but which are carried out to support an individual's recreational or vocational pursuits or to improve his or her day-to-day living skills.
- 21 Institutes and Research Centers.** This subprogram includes all research activities conducted within the framework of a formal research organization except for those conducted under federally funded research centers. (There are no federally funded research centers in North Carolina.)
- 22 Individual or Project Research.** This subprogram includes research activities that normally are managed within the academic departments. Such research activities usually have a stated goal or purpose, have projected outcomes, and generally are created for specific time periods because of a contract, grant, or specific time allocation of institutional resources. Research that is carried out as an instructional activity, however, is classified under the appropriate Instructional Subprogram.
- 31 Direct Patient Care.** This subprogram includes activities carried out for the specific purpose of providing direct patient care (prevention, diagnosis, treatment, education, rehabilitation, and so forth). These services are typically

rendered under the auspices of a teaching hospital or health-sciences center and are provided for the benefit of a clientele in the community-at-large rather than for the institution's own student body or faculty and staff.

- 32 Health Care Supportive Services.** This subprogram includes activities that are unique to a teaching hospital, health science center, or clinic and that directly support the provision of health care, but which cannot themselves legitimately be considered part of the provision of direct patient care.
- 33 Community Services.** This subprogram consists of resources, services, and expertise made available to persons and groups outside of the context of the institution's regular instruction, research, and support programs that are not included in the other Public Service Subprograms (i.e., 31, 32, 34, and 35). Activities within this subprogram differ from those under Cooperative Extension Services (34) in that they are generally sponsored and controlled by the institution; extension services usually involve a sharing of programmatic and fiscal control with an outside agency.
- 34 Cooperative Extension Services.** This subprogram includes activities that make resources, services, and expertise available outside the instruction, research, and support programs and that are conducted as cooperative efforts with outside agencies. A distinguishing feature of the activities included in this subprogram is that programmatic and fiscal control is usually shared with one or more external agencies or governmental units.
- 35 Public Broadcasting Services.** This subprogram includes the operation and maintenance of broadcasting services that are operated outside the context of the institution's instruction, research, and support programs. Excluded from this category are broadcasting services that are conducted primarily in support of instruction, broadcasting services that are primarily operated as a student-broadcasting club, and broadcasting activities that are independent operations.

Table 14a. Instruction, Research, and Public Service Programs

Institution	General Academic Instruction 11	Vocational Technical Instruction 12	Preparatory Remedial Instruction 13	General Studies 14	Occupational Related Instruction 15	Social Roles Instruction 16	Home & Family Life 17
Doctoral Universities: Very High Research Activity							
NC State	18.7	0.0	0.0	0.2	0.0	0.0	0.0
NC State Veterinary Med	20.9	0.0	0.0	0.0	0.0	0.0	0.0
UNC-Chapel Hill	23.4	0.0	0.0	0.5	0.3	0.0	0.0
UNC-Chapel Hill Hlth Aff.	22.3	0.0	0.0	0.2	0.1	0.0	0.0
Subtotal Percentage	21.0	0.0	0.0	0.3	0.1	0.0	0.0
Doctoral Universities: High Research Activity							
East Carolina	29.9	0.0	0.0	0.0	0.0	0.0	0.0
East Carolina Hlth Aff.	22.7	0.0	0.0	0.0	0.1	0.0	0.0
N.C. A&T	29.3	0.0	0.0	0.0	0.0	0.0	0.0
UNC Charlotte	22.6	0.0	0.0	0.1	0.0	0.0	0.0
UNC Greensboro	22.1	0.0	0.0	0.0	0.0	0.0	0.0
UNC Wilmington	19.6	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal Percentage	24.3	0.0	0.0	0.0	0.0	0.0	0.0
Doctoral/Professional Universities							
Western Carolina	25.2	0.0	0.1	0.2	0.0	0.0	0.0
Winston-Salem	23.9	0.0	0.2	0.0	0.0	0.0	0.0
Subtotal Percentage	24.7	0.0	0.1	0.1	0.0	0.0	0.0
Master's Colleges & Universities: Larger/Medium Programs							
Appalachian	30.8	0.0	0.0	0.0	0.0	0.0	0.0
Fayetteville	27.8	0.0	0.0	0.3	0.0	0.0	0.0
NCCU	38.1	0.0	0.0	0.0	0.0	0.0	0.0
UNC Pembroke	23.4	0.0	0.5	0.5	0.0	0.0	0.0
Subtotal Percentage	30.5	0.0	0.1	0.1	0.0	0.0	0.0
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	20.6	0.0	0.0	0.3	0.0	0.0	0.0
Subtotal Percentage	20.6	0.0	0.0	0.3	0.0	0.0	0.0
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	32.1	0.0	0.0	0.2	0.0	0.0	0.0
Subtotal Percentage	32.1	0.0	0.0	0.2	0.0	0.0	0.0
Schools of Art, Music, & Design							
UNC School of the Arts	39.1	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal Percentage	39.1	0.0	0.0	0.0	0.0	0.0	0.0
Teaching Hospitals							
UNC Hospitals	0.5	0.0	0.0	0.5	0.0	0.0	0.0
Subtotal Percentage	0.5	0.0	0.0	0.5	0.0	0.0	0.0
Grand Total Percentage	23.5	0.0	0.02	0.2	0.1	0.0	0.0

Table 14a. (Continued) Instruction, Research, and Public Service Programs

Institution	Personal Leisure Instruction 18	Institutes & Research Centers 21	Individual or Project Research 22	Direct Patient Care 31	Health Care Services 32	Community Services 33	Cooperative Extension Services 34	Public Broadcasting Services 35
Doctoral Universities: Very High Research Activity								
NC State	0.0	7.4	20.4	0.0	0.0	2.0	2.9	0.0
NC State Veterinary Med	0.0	0.0	34.8	16.7	11.7	0.0	0.1	0.0
UNC-Chapel Hill	0.0	0.6	6.8	0.0	0.1	0.4	0.0	0.1
UNC-Chapel Hill Hlth Aff.	0.0	1.8	48.0	4.7	5.7	0.5	0.0	0.0
Subtotal Percentage	0.0	3.9	19.1	1.0	1.0	1.1	1.4	0.0
Doctoral Universities: High Research Activity								
East Carolina	0.0	0.6	2.0	0.0	0.1	0.1	0.0	0.1
East Carolina Hlth Aff.	0.0	0.6	17.3	27.9	17.2	0.6	0.0	0.0
N.C. A&T	0.0	2.4	5.5	0.0	0.0	0.3	0.7	0.1
UNC Charlotte	0.0	2.5	5.2	0.0	0.0	1.6	0.0	0.0
UNC Greensboro	0.0	0.0	5.8	0.1	0.0	0.1	0.0	0.0
UNC Wilmington	0.0	3.9	0.3	0.0	0.4	0.8	0.0	0.0
Subtotal Percentage	0.0	1.7	4.7	1.9	1.2	0.6	0.1	0.0
Doctoral/Professional Universities								
Western Carolina	0.1	0.8	0.5	0.0	0.0	0.2	0.0	0.0
Winston-Salem	0.0	1.1	1.5	0.0	0.0	0.3	0.0	0.0
Subtotal Percentage	0.0	0.9	0.9	0.0	0.0	0.2	0.0	0.0
Master's Colleges & Universities: Larger/Medium Programs								
Appalachian	0.0	0.1	0.4	0.4	0.0	2.2	0.0	0.0
Fayetteville	0.0	0.0	1.0	0.0	0.0	0.1	0.0	0.0
NCCU	0.0	1.4	1.0	0.0	0.0	0.2	0.0	0.4
UNC Pembroke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal Percentage	0.0	0.4	0.6	0.2	0.0	1.1	0.0	0.1
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	0.1	0.3	1.1	0.0	0.0	1.1	0.0	0.0
Subtotal Percentage	0.1	0.3	1.1	0.0	0.0	1.1	0.0	0.0
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	0.0	0.0	0.3	0.0	0.0	1.8	0.0	0.3
Subtotal Percentage	0.0	0.0	0.3	0.0	0.0	1.8	0.0	0.3
Schools of Art, Music, & Design								
UNC School of the Arts	0.0	1.0	0.0	0.0	0.0	2.9	0.0	0.0
Subtotal Percentage	0.0	1.0	0.0	0.0	0.0	2.9	0.0	0.0
Teaching Hospitals								
UNC Hospitals	0.0	0.0	0.5	33.4	48.4	0.0	0.0	0.0
Subtotal Percentage	0.0	0.0	0.5	33.4	48.4	0.0	0.0	0.0
Grand Total Percentage	0.005	2.2	9.2	1.9	2.1	0.9	0.6	0.05

Table 14b: Academic Support Subprograms

Table 14b indicates the percentages of institutional square footage under each of the Academic Support Subprograms.

The definitions of these subprograms follow. Subprograms that are described but which are not included in Table 14b had no square footage assigned to them by institutions.

- 41 Library Services.** This subprogram includes activities that directly support the collection, cataloging, storage, and distribution of published materials in support of one or more of the institution's primary programs. This subprogram applies only to library services that are separately funded; departmental libraries are included under the appropriate instruction subprogram.
- 42 Museums and Galleries.** This subprogram includes activities related to the collection, preservation, and exhibition of historical materials, art objects, scientific displays, and so forth that support one or more of the institution's primary programs. This subprogram applies only to museums and galleries that are separately funded. Departmental exhibit areas are included under the appropriate Instruction Subprogram.
- 43 Educational Media Services.** This subprogram includes audio, visual, and other technological services that have been established to provide direct support for the institution's instruction, research, and public service programs.
- 44 Academic Computer Support.** This subprogram includes computer services that have been established to provide direct support for one or more of the institution's primary programs. It does not include administrative data processing services and computing support.
- 45 Ancillary Support.** This subprogram includes activities that directly contribute to the way in which instruction is delivered or research is conducted but that cannot be appropriately classified as educational media services or academic computing support.
- 46 Academic Administration.** This subprogram consists of activities that provide administrative and management support specifically for the institution's academic programs. It includes the activities of the college deans, the administrative activities of departmental chairpersons, and the activities of their associated support staff, but it does not include the activities of those whose responsibilities are institution-wide and involve duties outside of the academic realm.
- 47 Course and Curriculum Development.** This subprogram includes only those formal planning and development activities established either to improve or to add to the institution's curriculum. Those activities that individual faculty members carry out to update and improve their current course offerings are included under the appropriate Instruction Subprogram.
- 48 Academic Personnel Development.** This subprogram includes activities that provide the faculty with opportunities for personal and professional growth and development, as well as those activities intended to evaluate and reward the professional performance of the faculty.

Table 14b. Academic Support Programs

Institution	Library Services 41	Museums & Galleries 42	Educational & Media Services 43	Academic Computing Support 44	Ancillary Support 45	Academic Admin. 46	Course & Curriculum Dev. 47	Academic Personnel Dev. 48
Doctoral Universities: Very High Research Activity								
NC State	3.4	0.2	0.5	0.5	0.0	1.7	0.0	0.0
NC State Veterinary Med	2.6	0.0	0.3	0.3	0.0	3.7	0.0	0.0
UNC-Chapel Hill	8.2	0.5	0.1	0.4	0.1	1.3	0.0	0.2
UNC-Chapel Hill Hlth Aff.	2.2	0.0	0.0	0.1	1.2	4.3	0.0	0.0
Subtotal Percentage	5.0	0.3	0.2	0.4	0.2	1.9	0.0	0.1
Doctoral Universities: High Research Activity								
East Carolina	5.1	0.2	0.1	0.1	0.4	0.6	0.0	0.0
East Carolina Hlth Aff.	6.0	0.2	0.2	0.0	0.0	2.0	0.0	0.0
N.C. A&T	5.0	0.7	0.1	0.2	3.8	3.3	0.0	0.0
UNC Charlotte	4.9	0.2	0.2	0.4	0.0	4.4	0.0	0.0
UNC Greensboro	3.5	0.7	0.4	0.1	0.4	3.7	0.0	0.0
UNC Wilmington	3.5	0.2	0.1	0.4	0.0	4.1	0.0	0.0
Subtotal Percentage	4.5	0.4	0.2	0.2	0.7	3.2	0.0	0.0
Doctoral/Professional Universities								
Western Carolina	5.6	0.5	0.1	0.1	0.6	2.3	0.0	0.2
Winston-Salem	3.4	0.9	0.2	0.4	0.1	2.5	0.0	0.0
Subtotal Percentage	4.8	0.7	0.1	0.2	0.4	2.4	0.0	0.1
Master's Colleges & Universities: Larger/Medium Programs								
Appalachian	3.5	0.0	0.0	0.4	0.1	1.1	0.1	0.0
Fayetteville	7.2	0.0	0.5	0.7	0.7	1.4	0.0	0.0
NCCU	4.5	0.3	0.1	0.4	0.6	1.9	0.0	0.2
UNC Pembroke	2.8	0.5	0.6	0.0	0.7	5.6	0.0	0.0
Subtotal Percentage	4.1	0.2	0.2	0.4	0.4	2.2	0.0	0.0
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	6.8	0.0	0.6	0.9	0.5	0.2	0.0	0.1
Subtotal Percentage	6.8	0.0	0.6	0.9	0.5	0.2	0.0	0.1
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	4.1	0.1	0.0	0.4	0.4	0.3	0.0	0.0
Subtotal Percentage	4.1	0.1	0.0	0.4	0.4	0.3	0.0	0.0
Schools of Art, Music, & Design								
UNC School of the Arts	6.5	0.1	0.0	0.0	0.1	1.5	0.0	0.0
Subtotal Percentage	6.5	0.1	0.0	0.0	0.1	1.5	0.0	0.0
Teaching Hospitals								
UNC Hospitals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal Percentage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grand Total Percentage	4.6	0.3	0.2	0.3	0.4	2.3	0.01	0.05

Table 14c: Student Service and Physical Plant Operations Subprograms

Table 14c indicates the percentages of institutional square footage under the Student Service and Physical Plant Operations Subprograms.

The definitions of these subprograms follow. Subprograms that are described but which are not included in Table 14c, had no square footage assigned to them by institutions.

- 51 Student Service Administration.** This subprogram includes administrative activities that aid and support (excluding academic support) to the needs and interests of students.
- 52 Social and Cultural Development.** This subprogram includes activities established to provide for the social and cultural development of the student outside of the formal academic program. It includes activities primarily supported and controlled by the student body, those cultural activities provided outside the student's educational experience, and general recreation activities for the student body.
- 53 Counseling and Career Guidance.** This subprogram includes formal placement, career guidance, and personal counseling services provided for the benefit of students. Excluded are psychiatric and psychological counseling services that are carried out as part of the student health program.
- 54 Financial Aid Administration.** This subprogram includes administrative activities carried out in support of the institution's financial aid program.
- 55 Student Auxiliary Services.** This subprogram includes conveniences and services needed to maintain an on-campus, resident student body. A fee, which is related to but not necessarily equal to the cost of the service rendered, is often charged for these services.
- 56 Intercollegiate Athletics.** This subprogram includes team and individual sports activities that involve competition between two or more educational institutions.
- 57 Student Health/Medical Services.** This subprogram includes activities carried out for the specific purpose of providing health and medical services for the student body. Generally, the activities included here are associated with a student infirmary rather than a teaching hospital. Health and medical services provided for the institution's faculty and staff are also included in this subprogram.
- 71 Physical Plant Administration.** This subprogram consists of administrative activities carried out in direct support of the institution's physical plant operations. Those activities related to the development of plans for plant expansion or modification, as well as for new construction, are also included.
- 72 Building Maintenance.** This subprogram consists of activities related to routine repair and maintenance of buildings and structures, including both normally recurring repairs and preventive maintenance.
- 73 Custodial Services.** This subprogram consists of activities related to custodial services in institutional buildings.
- 74 Utilities.** This subprogram consists of activities related to heating, cooling, light and power, gas, water, and any other utilities necessary for the operation of the physical plant.
- 75 Landscape and Ground Maintenance.** This subprogram consists of activities related to the operation and maintenance of campus landscape and grounds.
- 76 Major Repairs and Renovations.** This subprogram consists of activities related to major repairs, maintenance, and renovation projects. Major projects are generally defined by each institution. Expenditures that are at least 25% of a building's estimated replacement cost should be considered major.

Table 14c. Student Service and Physical Plant Operations Subprograms

Institution	Student Svcs Admin 51	Social & Cultural Dev. 52	Couns / Career Guid. 53	Finan. Aid Admin. 54	Student Aux. Svcs 55	Inter- coll Athl. 56
Doctoral Universities: Very High Research Activity						
NC State	0.3	2.6	0.3	0.1	22.2	5.1
NC State Veterinary Med	0.0	0.0	0.0	0.0	1.4	0.0
UNC-Chapel Hill	0.6	2.8	0.3	0.1	32.0	9.8
UNC-Chapel Hill Hlth Aff.	0.1	0.0	0.0	0.0	0.2	0.0
Subtotal Percentage	0.3	2.3	0.2	0.1	22.6	6.1
Doctoral Universities: High Research Activity						
East Carolina	1.7	8.3	0.1	0.1	31.2	6.0
East Carolina Hlth Aff.	0.0	0.0	0.0	0.0	0.1	0.0
N.C. A&T	0.3	4.4	0.5	0.3	24.8	3.5
UNC Charlotte	0.6	8.6	0.4	0.1	37.6	2.5
UNC Greensboro	0.1	5.0	0.3	0.1	42.7	2.7
UNC Wilmington	0.7	6.8	0.1	0.0	46.9	4.1
Subtotal Percentage	0.6	6.4	0.3	0.1	34.8	3.5
Doctoral/Professional Universities						
Western Carolina	0.5	9.7	0.4	0.2	36.1	3.2
Winston-Salem	1.4	7.6	0.3	0.1	41.1	3.1
Subtotal Percentage	0.8	8.9	0.4	0.2	38.0	3.1
Master's Colleges & Universities: Larger/Medium Programs						
Appalachian	0.1	10.5	0.3	0.2	38.1	4.1
Fayetteville	0.7	6.8	0.5	0.0	29.3	3.3
NCCU	0.6	3.6	0.8	0.3	29.3	2.8
UNC Pembroke	0.9	4.6	0.2	0.2	46.1	2.7
Subtotal Percentage	0.4	7.4	0.4	0.2	36.5	3.4
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.3	10.3	0.3	0.2	38.1	7.2
Subtotal Percentage	0.3	10.3	0.3	0.2	38.1	7.2
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	0.8	5.2	0.5	0.2	37.5	1.7
Subtotal Percentage	0.8	5.2	0.5	0.2	37.5	1.7
Schools of Art, Music, & Design						
UNC School of the Arts	0.0	8.5	0.2	0.3	20.1	0.0
Subtotal Percentage	0.0	8.5	0.2	0.3	20.1	0.0
Teaching Hospitals						
UNC Hospitals	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal Percentage	0.0	0.0	0.0	0.0	0.0	0.0
Grand Total Percentage	0.5	5.0	0.3	0.1	29.4	4.4

Table 14c. (Continued) Student Service & Physical Plant Operations Subprograms

Institution	Student Hlth/Med Svc. 57	Phys. Plant Admin. 71	Bldg. Maint. 72	Cust'l Svcs. 73	Utilities 74	Landscp Grounds Maint. 75
Doctoral Universities: Very High Research Activity						
NC State	0.6	0.1	0.3	0.1	0.3	0.5
NC State Veterinary Med	0.0	0.0	2.0	0.2	0.9	1.1
UNC-Chapel Hill	0.5	0.2	0.6	0.2	1.0	0.5
UNC-Chapel Hill Hlth Aff.	0.0	0.0	0.0	0.1	0.0	0.0
Subtotal Percentage	0.5	0.1	0.4	0.1	0.5	0.5
Doctoral Universities: High Research Activity						
East Carolina	0.4	0.3	1.5	0.1	0.0	0.5
East Carolina Hlth Aff.	0.0	0.0	0.0	0.1	1.7	0.4
N.C. A&T	0.8	0.3	0.8	0.0	0.2	0.0
UNC Charlotte	0.4	0.2	1.2	0.1	0.1	0.0
UNC Greensboro	0.7	0.1	0.7	0.0	0.8	0.4
UNC Wilmington	0.5	0.3	0.2	0.1	0.1	0.0
Subtotal Percentage	0.5	0.2	0.9	0.1	0.3	0.2
Doctoral/Professional Universities						
Western Carolina	0.3	2.2	0.4	0.0	0.1	0.1
Winston-Salem	0.4	0.9	0.3	0.3	0.1	0.1
Subtotal Percentage	0.3	1.7	0.3	0.1	0.1	0.1
Master's Colleges & Universities: Larger/Medium Programs						
Appalachian	0.5	0.5	0.9	0.1	0.2	0.0
Fayetteville	0.5	0.3	0.2	0.1	0.2	0.5
NCCU	0.3	0.2	0.4	0.0	0.0	0.1
UNC Pembroke	0.5	0.6	0.6	0.2	0.3	0.1
Subtotal Percentage	0.4	0.4	0.6	0.1	0.2	0.1
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.7	0.0	2.1	0.2	2.1	0.0
Subtotal Percentage	0.7	0.0	2.1	0.2	2.1	0.0
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	0.3	0.5	0.4	0.0	0.1	0.0
Subtotal Percentage	0.3	0.5	0.4	0.0	0.1	0.0
Schools of Art, Music, & Design						
UNC School of the Arts	0.5	0.5	1.1	0.2	0.0	0.7
Subtotal Percentage	0.5	0.5	1.1	0.2	0.0	0.7
Teaching Hospitals						
UNC Hospitals	0.0	0.0	1.4	0.5	0.0	0.0
Subtotal Percentage	0.0	0.0	1.4	0.5	0.0	0.0
Grand Total Percentage	0.5	0.3	0.7	0.1	0.4	0.3

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Table 14d: Institutional Administration, Independent Operations, & Unassigned Programs

Table 14d indicates the percentages of institutional square footage under the Institutional Administration, Independent Operations, and Unassigned Subprograms. The definitions of these subprograms follow.

- 61 Executive Management.** This subprogram consists of executive-level activities concerned with the overall management of and long-range planning for the entire institution. Included are the activities of the various administrators involved in policy formulation and executive direction, including those of the governing board, the chief executive officer, and the senior executive officers.
- 62 Financial Management and Operations.** This subprogram consists of activities related to the day-to-day financial management and fiscal operations of the institution.
- 63 General Administration and Logistical Services.** This subprogram consists of activities related to the general administrative operations and services of the institution except for those activities related to financial operations, to administrative data processing, and to student records.
- 64 Administrative Computing Support.** This subprogram includes computer and data processing services that have been established to provide support for institution-wide administrative functions.
- 65 Faculty and Staff Auxiliary Services.** This subprogram includes support services that have been established primarily to serve the faculty and staff. A fee, which is related to but not necessarily equal to the cost of the service rendered, is often charged for these services.
- 66 Public Relations/Development.** This subprogram consists of institutional activities established to maintain relations with the local community, the institution's alumni, governmental entities, and the public in general, as well as those activities carried out to support institution-wide fund raising and development efforts.
- 67 Student Recruitment and Admissions.** This subprogram consists of activities carried out by an institution that are related to the identification of prospective students, the promotion of attendance at the institution, and the processing of applications for admission to the institution.
- 68 Student Records.** This subprogram includes activities the institution carries out to maintain, handle, and update records for currently enrolled students as well as for those who were previously enrolled.
- 91 Independent Operations/Institutional.** This subprogram includes operations that are owned or controlled by the institution but that are unrelated to or independent of the institution's mission. Excluded are those operations managed as investments of the institution's endowment funds.
- 92 Independent Operations/External Agencies.** This subprogram includes activities that are controlled or operated by outside agencies, but that are housed or otherwise supported in some way by the institution.
- 01 Capable of Use.** This subprogram is limited to rooms that are not in use but are capable of use at the time of the inventory.
- 02 Incapable of Use.** This subprogram is limited to rooms that are not in use at the time of the inventory since these are incapable of use. Included are rooms that are under or in need of alteration or renovation and rooms that have been declared structurally unsafe.

Subprogram 03 (Building Service) is not included in this table (and is not considered as part of Program 00 in Table 14) since it applies to Nonassignable area only.

**Table 14d. Institutional Administration, Independent Operations,
& Unassigned Subprograms**

Institution	Institutional Administration							
	Exec. Mgmt 61	Fin. Mgmt 62	Gen Ad Log Svc 63	Admin Comp 64	Fac/Stf Aux. Svcs 65	P.R. Devel. 66	Stud't Admiss 67	Stud't Records 68
Doctoral Universities: Very High Research Activity								
NC State	0.3	0.2	2.1	1.0	0.9	0.7	0.2	0.0
NC State Veterinary Med	0.0	0.5	0.3	0.2	0.2	0.0	0.0	0.0
UNC-Chapel Hill	0.3	0.5	2.1	1.3	0.3	0.8	0.2	0.0
UNC-Chapel Hill Hlth Aff.	0.0	0.8	1.7	0.1	0.1	0.0	0.0	0.0
Subtotal Percentage	0.3	0.4	2.0	1.0	0.5	0.6	0.2	0.0
Doctoral Universities: High Research Activity								
East Carolina	1.5	2.2	1.8	0.8	0.3	0.3	0.2	0.1
East Carolina Hlth Aff.	0.3	1.4	0.1	0.6	0.0	0.3	0.0	0.0
N.C. A&T	0.5	0.5	8.7	0.8	0.4	0.4	0.2	0.1
UNC Charlotte	0.4	0.5	1.4	0.5	0.3	0.8	0.3	0.1
UNC Greensboro	0.4	0.3	3.8	0.9	0.8	0.8	0.2	0.1
UNC Wilmington	0.6	0.1	2.0	0.6	0.1	0.3	0.3	0.3
Subtotal Percentage	0.7	0.8	3.0	0.7	0.4	0.5	0.2	0.1
Doctoral/Professional Universities								
Western Carolina	0.5	0.5	1.0	0.8	3.0	0.9	0.4	0.2
Winston-Salem	0.7	1.0	2.3	0.5	1.7	0.5	0.2	0.1
Subtotal Percentage	0.6	0.7	1.5	0.7	2.5	0.7	0.3	0.2
Master's Colleges & Universities: Larger/Medium Programs								
Appalachian	0.3	0.4	2.0	0.3	0.5	0.6	0.3	0.2
Fayetteville	1.0	0.8	1.4	0.1	0.8	0.3	0.1	0.1
NCCU	0.7	0.5	2.6	0.8	0.8	0.4	0.1	0.1
UNC Pembroke	1.4	0.5	3.8	0.9	1.0	0.4	0.4	0.2
Subtotal Percentage	0.7	0.5	2.4	0.5	0.7	0.5	0.2	0.2
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	1.3	0.6	0.8	0.0	0.9	0.8	0.5	0.2
Subtotal Percentage	1.3	0.6	0.8	0.0	0.9	0.8	0.5	0.2
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	0.7	0.5	1.3	0.9	1.7	0.2	0.2	0.2
Subtotal Percentage	0.7	0.5	1.3	0.9	1.7	0.2	0.2	0.2
Schools of Art, Music, & Design								
UNC School of the Arts	0.9	0.2	6.1	0.4	1.7	1.2	0.3	0.3
Subtotal Percentage	0.9	0.2	6.1	0.4	1.7	1.2	0.3	0.3
Teaching Hospitals								
UNC Hospitals	0.6	3.7	4.3	1.6	0.5	0.1	0.0	0.0
Subtotal Percentage	0.6	3.7	4.3	1.6	0.5	0.1	0.0	0.0
Grand Total Percentage	0.5	0.6	2.4	0.8	0.7	0.6	0.2	0.1

Table 14d. (Continued) Institutional Administration, Independent Operations, & Unassigned Subprograms

Institution	Ind. Operations		Unassigned	
	Inst. 91	Ext. Agency 92	Usable 01	Unusable 02
Doctoral Universities: Very High Research Activity				
NC State	0.0	1.4	0.6	2.0
NC State Veterinary Med	0.0	0.7	1.1	0.0
UNC-Chapel Hill	0.3	0.5	1.0	1.1
UNC-Chapel Hill Hlth Aff.	1.0	1.1	3.2	0.3
Subtotal Percentage	0.2	1.0	1.1	1.4
Doctoral Universities: High Research Activity				
East Carolina	0.0	1.6	0.0	1.3
East Carolina Hlth Aff.	0.0	0.0	0.0	0.1
N.C. A&T	0.4	0.5	0.1	0.2
UNC Charlotte	0.0	0.0	0.4	1.2
UNC Greensboro	0.0	1.5	0.0	0.6
UNC Wilmington	0.5	1.3	0.2	0.4
Subtotal Percentage	0.1	0.9	0.1	0.8
Doctoral/Professional Universities				
Western Carolina	0.4	1.0	0.2	1.8
Winston-Salem	0.5	0.2	1.7	0.4
Subtotal Percentage	0.5	0.7	0.8	1.3
Master's Colleges & Universities: Larger/Medium Programs				
Appalachian	0.1	0.2	0.0	0.3
Fayetteville	0.3	1.0	4.6	7.3
NCCU	0.1	1.2	0.8	4.7
UNC Pembroke	0.0	0.0	0.0	0.0
Subtotal Percentage	0.1	0.5	0.8	2.2
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0.0	1.1	0.0	0.0
Subtotal Percentage	0.0	1.1	0.0	0.0
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	0.0	0.0	5.1	2.1
Subtotal Percentage	0.0	0.0	5.1	2.1
Schools of Art, Music, & Design				
UNC School of the Arts	0.3	0.0	3.1	2.2
Subtotal Percentage	0.3	0.0	3.1	2.2
Teaching Hospitals				
UNC Hospitals	0.0	1.0	0.7	2.3
Subtotal Percentage	0.0	1.0	0.7	2.3
Grand Total Percentage	0.2	0.8	0.8	1.3

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Table 15: Assignable Area by Room Code

Just as all assignable space can be categorized by program (Table 14), it can also be classified by use of the room. A system of codes has been developed that includes virtually all types of rooms, in terms of specific use, which can be found at a college or university. The Room Use Code Structure is summarized on pages 61-62; specific definitions can be found in the Higher Education Facilities Commission's Facilities Inventory and Utilization Manual (7th edition). This updated manual incorporates the codes and definitions presented in the 2006 national Postsecondary Education Facilities Inventory and Classification Manual.

Table 15 provides percentage distributions among the ten major room use code divisions. In theory, the sums of the percentages should always equal to 100.0, but they do not for some institutions due to rounding.

The chart below identifies the utilization of assignable space for 2021 by Room Use Code. Room Use Code definitions are found beginning on page 61.

Room Use Codes	All UNC Institutions 2021 (%)
Classroom (100)	4.7%
Laboratory (200)	13.1%
Office (300)	22.0%
Study (400)	5.2%
Special Use (500)	10.9%
General Use (600)	10.6%
Support (700)	4.5%
Health Care (800)	2.7%
Residential (900)	24.4%
Unclassified (000)	1.9%

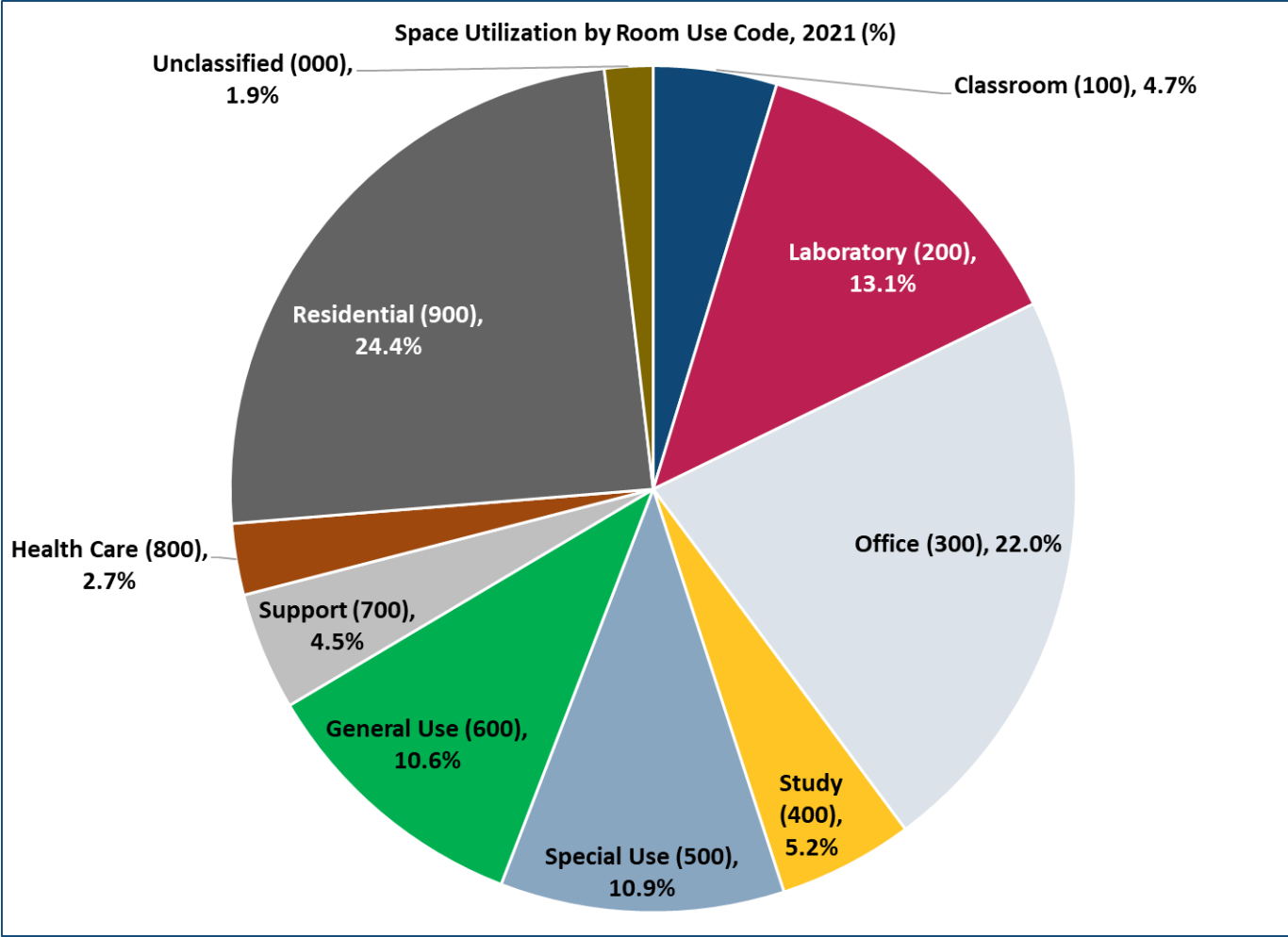


Table 15. Assignable Area by Room Codes

Institution	Total Assignable Area	Classroom Facilities 100		Laboratory Facilities 200		Office Facilities 300		Study Facilities 400	
		ASF	%	ASF	%	ASF	%	ASF	%
Doctoral Universities: Very High Research Activity									
NC State	9,336,417	259,696	2.8	1,653,228	17.7	1,956,574	21.0	367,795	3.9
NC State Veterinary Med	460,789	7,757	1.7	102,237	22.2	97,009	21.1	10,739	2.3
UNC-Chapel Hill	7,623,259	277,142	3.6	616,097	8.1	1,690,985	22.2	637,948	8.4
UNC-Chapel Hill Hlth Aff.	2,575,081	88,951	3.5	822,084	31.9	1,074,643	41.7	51,551	2.0
Subtotal	19,995,546	633,546		3,193,646		4,819,211		1,068,033	
Subtotal Percentage			3.2		16.0		24.1		5.3
Doctoral Universities: High Research Activity									
East Carolina	3,391,073	171,226	5.0	383,084	11.3	800,141	23.6	190,984	5.6
East Carolina Hlth Aff.	1,152,846	43,915	3.8	193,579	16.8	461,351	40.0	74,724	6.5
N.C. A&T	2,302,589	143,568	6.2	363,663	15.8	466,107	20.2	137,842	6.0
UNC Charlotte	4,132,970	255,344	6.2	588,974	14.3	965,997	23.4	229,207	5.5
UNC Greensboro	3,500,601	161,410	4.6	416,721	11.9	648,689	18.5	142,068	4.1
UNC Wilmington	2,883,772	159,181	5.5	287,082	10.0	500,510	17.4	126,928	4.4
Subtotal	17,363,851	934,644		2,233,103		3,842,795		901,753	
Subtotal Percentage			5.4		12.9		22.1		5.2
Doctoral/Professional Universities									
Western Carolina	2,103,895	103,871	4.9	227,181	10.8	338,721	16.1	140,804	6.7
Winston-Salem	1,284,309	86,812	6.8	115,958	9.0	231,021	18.0	58,950	4.6
Subtotal	3,388,204	190,683		343,139		569,742		199,754	
Subtotal Percentage			5.6		10.1		16.8		5.9
Master's Colleges & Universities: Larger/Medium Programs									
Appalachian	2,940,197	203,116	6.9	281,999	9.6	591,768	20.1	104,483	3.6
Fayetteville	919,639	54,864	6.0	60,047	6.5	202,077	22.0	68,222	7.4
NCCU	1,394,029	125,660	9.0	146,171	10.5	304,472	21.8	103,940	7.5
UNC Pembroke	1,249,665	103,454	8.3	68,901	5.5	213,256	17.1	41,458	3.3
Subtotal	6,503,530	487,094		557,118		1,311,573		318,103	
Subtotal Percentage			7.5		8.6		20.2		4.9
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	931,199	44,422	4.8	89,274	9.6	155,207	16.7	66,983	7.2
Subtotal	931,199	44,422		89,274		155,207		66,983	
Subtotal Percentage			4.8		9.6		16.7		7.2
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	867,383	80,493	9.3	68,221	7.9	121,093	14.0	40,792	4.7
Subtotal	867,383	80,493		68,221		121,093		40,792	
Subtotal Percentage			9.3		7.9		14.0		4.7
Schools of Art, Music, & Design									
UNC School of the Arts	858,195	38,430	4.5	204,170	23.8	112,530	13.1	47,673	5.6
Subtotal	858,195	38,430		204,170		112,530		47,673	
Subtotal Percentage			4.5		23.8		13.1		5.6
Teaching Hospitals									
UNC Hospitals	1,358,303	9,926	0.7	10,829	0.8	371,821	27.4	3,244	0.2
Subtotal	1,358,303	9,926		10,829		371,821		3,244	
Subtotal Percentage			0.7		0.8		27.4		0.2
Grand Total	51,266,211	2,419,238		6,699,500		11,303,972		2,646,335	
Grand Total Percentage			4.7		13.1		22.0		5.2

Table 15. (Continued) Assignable Area by Room Codes

Institution	Special Use Facilities 500		General Use Facilities 600		Support Facilities 700		Health Care Facilities 800	
	ASF	%	ASF	%	ASF	%	ASF	%
Doctoral Universities: Very High Research Activity								
NC State	1,755,382	18.8	779,630	8.4	433,750	4.6	37,817	0.4
NC State Veterinary Med	76,077	16.5	13,240	2.9	28,078	6.1	120,723	26.2
UNC-Chapel Hill	953,219	12.5	875,858	11.5	454,899	6.0	23,037	0.3
UNC-Chapel Hill Hlth Aff.	203,311	7.9	92,999	3.6	33,569	1.3	175,256	6.8
Subtotal	2,987,989		1,761,727		950,296		356,833	
Subtotal Percentage		14.9		8.8		4.8		1.8
Doctoral Universities: High Research Activity								
East Carolina	376,293	11.1	395,010	11.6	174,677	5.2	7,793	0.2
East Carolina Hlth Aff.	113,798	9.9	25,348	2.2	24,986	2.2	213,921	18.6
N.C. A&T	233,917	10.2	300,680	13.1	212,765	9.2	12,809	0.6
UNC Charlotte	221,975	5.4	470,042	11.4	67,841	1.6	7,806	0.2
UNC Greensboro	121,481	3.5	564,706	16.1	275,258	7.9	13,120	0.4
UNC Wilmington	247,183	8.6	261,560	9.1	81,695	2.8	14,737	0.5
Subtotal	1,314,647		2,017,346		837,222		270,186	
Subtotal Percentage		7.6		11.6		4.8		1.6
Doctoral/Professional Universities								
Western Carolina	210,849	10.0	301,484	14.3	62,195	3.0	3,246	0.2
Winston-Salem	107,068	8.3	151,950	11.8	43,083	3.4	4,228	0.3
Subtotal	317,917		453,434		105,278		7,474	
Subtotal Percentage		9.4		13.4		3.1		0.2
Master's Colleges & Universities: Larger/Medium Programs								
Appalachian	385,494	13.1	375,347	12.8	84,067	2.9	11,733	0.4
Fayetteville	72,661	7.9	112,700	12.3	19,413	2.1	2,319	0.3
NCCU	125,718	9.0	159,813	11.5	25,663	1.8	2,805	0.2
UNC Pembroke	100,934	8.1	133,287	10.7	58,386	4.7	4,114	0.3
Subtotal	684,807		781,147		187,529		20,971	
Subtotal Percentage		10.5		12.0		2.9		0.3
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	109,357	11.7	125,750	13.5	40,749	4.4	3,088	0.3
Subtotal	109,357		125,750		40,749		3,088	
Subtotal Percentage		11.7		13.5		4.4		0.3
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	91,449	10.5	104,158	12.0	16,998	2.0	1,574	0.2
Subtotal	91,449		104,158		16,998		1,574	
Subtotal Percentage		10.5		12.0		2.0		0.2
Schools of Art, Music, & Design								
UNC School of the Arts	27,368	3.2	136,733	15.9	84,864	9.9	3,073	0.4
Subtotal	27,368		136,733		84,864		3,073	
Subtotal Percentage		3.2		15.9		9.9		0.4
Teaching Hospitals								
UNC Hospitals	32,493	2.4	62,294	4.6	85,493	6.3	736,525	54.2
Subtotal	32,493		62,294		85,493		736,525	
Subtotal Percentage		2.4		4.6		6.3		54.2
Grand Total	5,566,027		5,442,589		2,308,429		1,399,724	
Grand Total Percentage		10.9		10.6		4.5		2.7

Table 15. (Continued) Assignable Area by Room Codes

Institution	Residential Facilities 900		Unclassified Facilities 000	
	ASF	%	ASF	%
Doctoral Universities: Very High Research Activity				
NC State	1,852,084	19.8	240,461	2.6
NC State Veterinary Med	0	0.0	4,929	1.1
UNC-Chapel Hill	1,953,123	25.6	140,951	1.8
UNC-Chapel Hill Hlth Aff.	431	0.0	32,286	1.3
Subtotal	3,805,638		418,627	
Subtotal Percentage		19.0		2.1
Doctoral Universities: High Research Activity				
East Carolina	849,202	25.0	42,663	1.3
East Carolina Hlth Aff.	0	0.0	1,224	0.1
N.C. A&T	425,339	18.5	5,899	0.3
UNC Charlotte	1,258,061	30.4	67,723	1.6
UNC Greensboro	1,135,105	32.4	22,043	0.6
UNC Wilmington	1,187,004	41.2	17,892	0.6
Subtotal	4,854,711		157,444	
Subtotal Percentage		28.0		0.9
Doctoral/Professional Universities				
Western Carolina	673,524	32.0	42,020	2.0
Winston-Salem	469,099	36.5	16,140	1.3
Subtotal	1,142,623		58,160	
Subtotal Percentage		33.7		1.7
Master's Colleges & Universities: Larger/Medium Programs				
Appalachian	893,591	30.4	8,599	0.3
Fayetteville	220,894	24.0	106,442	11.6
NCCU	324,984	23.3	74,803	5.4
UNC Pembroke	525,875	42.1	0	0.0
Subtotal	1,965,344		189,844	
Subtotal Percentage		30.2		2.9
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	296,369	31.8	0	0.0
Subtotal	296,369		0	
Subtotal Percentage		31.8		0.0
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	303,357	35.0	39,248	4.5
Subtotal	303,357		39,248	
Subtotal Percentage		35.0		4.5
Schools of Art, Music, & Design				
UNC School of the Arts	159,301	18.6	44,053	5.1
Subtotal	159,301		44,053	
Subtotal Percentage		18.6		5.1
Teaching Hospitals				
UNC Hospitals	3,785	0.3	41,893	3.1
Subtotal	3,785		41,893	
Subtotal Percentage		0.3		3.1
Grand Total	12,531,128		949,269	
Grand Total Percentage		24.4		1.9

Room Use Codes

100 Classroom Facilities

110 Classroom
115 Classroom Service

200 Laboratory Facilities

210 Class Laboratory
215 Class Laboratory Service
220 Open Laboratory
225 Open Laboratory Service
250 Research/Nonclass Laboratory
255 Research/Nonclass Laboratory Service

300 Office Facilities

310 Office
315 Office Service
350 Conference Room
355 Conference Room Service

400 Study Facilities

410 Study Room
420 Stack
430 Open-Stack Study Room
440 Processing Room
455 Study Service

500 Special Use Facilities

510 Armory
515 Armory Service
520 Athletic or Physical Education
523 Athletic Facilities Spectator Seating
525 Athletic or Physical Ed. Svc.
530 Media Production
535 Media Production Service
540 Clinic
545 Clinic Service
550 Demonstration

555 Demonstration Service

560 Field Building
570 Animal Quarters
575 Animal Quarters Service
580 Greenhouse
585 Greenhouse Service
590 Other (All Purpose)

600 General Use Facilities

610 Assembly
615 Assembly Service
620 Exhibition
625 Exhibition Service
630 Food Facility
635 Food Facility Service
640 Day Care
645 Day Care Service
650 Lounge
655 Lounge Service
660 Merchandising
665 Merchandising Service
670 Recreation
675 Recreation Service
680 Meeting Room
685 Meeting Room Service

700 Support Facilities

710 Central Computer or Telecommunications
715 Central Computer or Telecommunications Service
720 Shop
725 Shop Service
730 Central Storage
735 Central Storage Service
740 Vehicle Storage

745 Vehicle Storage Service

750 Central Service
755 Central Service Support
760 Hazardous Materials Storage
770 Hazardous Waste Storage
775 Hazardous Waste Storage Svc.

800 Health Care Facilities

810 Patient Bedroom
815 Patient Bedroom Service
820 Patient Bath
830 Nurse Station
835 Nurse Station Service
840 Surgery
845 Surgery Service
850 Treatment/Examination
855 Treatment/Examination Service
860 Diagnostic Service Laboratory
865 Diagnostic Service Laboratory Support
870 Central Supplies
880 Public Waiting
890 Staff On-Call Facility
895 Staff On-Call Facility Service

900 Residential Facilities

910 Sleep/Study without Toilet or Bath
910X Sleep/Study without Toilet or Bath
Designed and Equipped for Mobility Impaired
919 Toilet or Bath
919X Toilet or Bath Designed and Equipped for Mobility Impaired
920 Sleep/Study with Toilet or Bath

920X Sleep/Study with Toilet or
Bath Designed and Equipped for
Mobility Impaired

935 Sleep/Study Service

950 Apartment

950X Apartment Equipped for Mobility
Impaired

955 Apartment Service

970 House

000 Unclassified Facilities

010 Elevator

011 Men's Toilet Equipped for
Mobility Impaired

012 Women's Toilet Equipped for
Mobility Impaired

013 Unisex Toilet Equipped for
Mobility Impaired

050 Inactive Area

060 Alteration or Conversion Area

070 Unfinished Area

Table 16: Assignable Square Feet Per Student Station for Classrooms

The number of students that a classroom can accommodate is an important factor in determining how efficiently classroom space is used. This can be measured in terms of assignable square feet per student station and the average number of stations per classroom.

The assignable square feet per student station in a classroom is largely determined by the number and type of stations in the room. Generally, rooms with relatively large numbers of stations require less space per station. As for types of stations, tables and chairs require more space per station than standard student desks, which require more space than theater seating. Although the space required per station can vary from less than ten assignable square feet to more than 30, **the University of North Carolina has adopted a standard of 18 square feet per station.**

The Higher Education Facilities Planning and Management Manuals (page 62 of Manual Two) list norms that are based on the number and type of station:

The average number of stations per classroom tends to vary according to the size and instructional philosophy of the institution. Graduate institutions and institutions that rely heavily on large lecture courses will generally have large numbers of stations per classroom.

Assignable Square Feet per Station Criteria			
Number of Stations	ASF for Tables and Chairs	ASF for Armchair Desks Small	ASF for Armchair Desks Large
10 – 19	20 – 30	18	22
20 – 29	20 – 30	16	20
30 – 39	20 – 25	15	18
40 – 59	18 – 22	14	16
60 – 99	18 – 22	13	15
100 – 149	16 – 20	11	14
150 – 299	16 – 20	10	14
300 +	16 – 18	9	12

Table 16. Assignable Area Per Student Station for Classrooms

Institution	Number of Rooms	No. of Student Stations	Avg. Stu Sta Per Room	Total Assignable Sq. Ft.	Sq. Ft. Per Student Station				
					2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity									
NC State	230	14,346	62	247,517	17	17	17	17	17
NC State Veterinary Med	5	401	80	7,343	18	18	18	18	18
UNC-Chapel Hill	288	14,255	49	264,293	19	39	18	18	17
UNC-Chapel Hill Hlth Aff.	97	4,384	45	86,664	20	20	18	18	18
Subtotal	620	33,386		605,817					
Subtotal Average			54		18	23	18	18	17
Doctoral Universities: High Research Activity									
East Carolina	180	9,361	52	164,411	18	18	17	18	18
East Carolina Hlth Aff.	44	2,196	50	42,495	19	19	19	19	19
N.C. A&T	152	6,997	46	137,354	20	20	20	20	20
UNC Charlotte	236	13,464	57	247,045	18	21	18	18	19
UNC Greensboro	152	8,694	57	154,777	18	43	17	17	17
UNC Wilmington	159	7,217	45	150,138	21	44	21	21	20
Subtotal	923	47,929		896,220					
Subtotal Average			52		19	24	18	18	18
Doctoral/Professional Universities									
Western Carolina	108	4,464	41	97,053	22	53	20	20	20
Winston-Salem	93	4,002	43	83,853	21	21	20	20	20
Subtotal	201	8,466		180,906					
Subtotal Average			42		21	31	20	20	20
Master's Colleges & Universities: Larger/Medium Programs									
Appalachian	232	9,712	42	195,910	20	52	20	20	20
Fayetteville	63	2,516	40	50,361	20	20	20	20	20
NCCU	152	6,397	42	119,498	19	19	19	19	19
UNC Pembroke	125	4,783	38	99,695	21	21	22	23	23
Subtotal	572	23,408		465,464					
Subtotal Average			41		20	26	20	20	20
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	55	1,462	27	43,057	29	42	22	22	21
Subtotal	55	1,462		43,057					
Subtotal Average			27		29	42	22	22	21
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	94	3,493	37	74,003	21	21	21	21	21
Subtotal	94	3,493		74,003					
Subtotal Average			37		21	21	21	21	21
Schools of Art, Music, & Design									
UNC School of the Arts	59	1,366	23	38,013	28	26	26	26	26
Subtotal	59	1,366		38,013					
Subtotal Average			23		28	26	26	26	26
Grand Total	2,524	119,510		2,303,480					
Grand Total Average			47		19	25	19	19	19

Table 17: Assignable Square Feet Per Student Station for Class Laboratories

The square footage per student station in class laboratories varies to a greater extent than in classrooms because of the widely differing space requirements of the various kinds of laboratories. An automotive lab, for example, usually requires much more space per station than a chemistry lab. In general, institutions that offer academic programs in such areas as agriculture, engineering, or medicine, require more class lab space per station than institutions that focus on liberal arts, business, and education. Moreover, graduate level laboratories usually require more space per station than undergraduate labs.

The University of North Carolina has developed ASF-per-station standards for four discipline categories of space (see Table 11-Space Standards):

Highly Intensive - 108 ASF	Engineering (including Textiles), Applied Design, Dance, and Dramatic Arts
Intensive - 70 ASF	Agriculture, Architecture, Biological Sciences, Health Professions, Library Sciences, and Physical Sciences
Moderately Intensive - 50 ASF	Communications, Computer/Information Technologies, Education, Art, Home Economics, Law, and Psychology
Non-Intensive - 33 ASF	Business, Cinematography, Music, Language, Letters, Mathematics, Public Affairs, and Social Sciences

Table 17. Assignable Area Per Student Station for Class Laboratories

Institution	No. of Rooms	No. of Student Stations	Avg. Stu Sta Per Room	Assignable Sq. Ft.	Sq. Ft. Per Student Station				
					2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity									
NC State	197	5,609	28	233,395	42	41	40	41	42
NC State Veterinary Med	8	236	30	11,184	47	47	47	48	48
UNC-Chapel Hill	94	2,676	28	86,765	32	33	34	34	33
UNC-Chapel Hill Hlth Aff.	62	830	13	37,267	45	46	41	41	40
Subtotal	361	9,351		368,611					
Subtotal Average			26		39	39	39	39	39
Doctoral Universities: High Research Activity									
East Carolina	176	4,703	27	168,183	36	36	36	36	36
East Carolina Hlth Aff.	50	1,028	21	38,701	38	-	-	43	42
N.C. A&T	101	2,396	24	99,191	41	40	40	40	40
UNC Charlotte	140	3,960	28	163,477	41	61	41	38	41
UNC Greensboro	139	3,800	27	164,260	43	71	49	38	48
UNC Wilmington	103	2,580	25	97,187	38	64	37	39	40
Subtotal	709	18,467		730,999					
Subtotal Average			26		40	50	40	38	41
Doctoral/Professional Universities									
Western Carolina	100	2,400	24	113,843	47	55	42	43	44
Winston-Salem	79	1,581	20	70,691	45	45	37	36	36
Subtotal	179	3,981		184,534					
Subtotal Average			22		46	50	40	41	41
Master's Colleges & Universities: Larger/Medium Programs									
Appalachian	148	3,630	25	143,717	40	68	45	44	44
Fayetteville	34	940	28	35,737	38	38	38	37	37
NCCU	65	1,387	21	59,580	43	43	43	43	43
UNC Pembroke	50	1,494	30	44,872	30	30	40	42	42
Subtotal	297	7,451		283,906					
Subtotal Average			25		38	47	43	43	42
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	18	387	22	15,191	39	48	52	52	55
Subtotal	18	387		15,191					
Subtotal Average			22		39	48	52	52	55
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	67	1,481	22	50,758	34	35	35	35	35
Subtotal	67	1,481		50,758					
Subtotal Average			22		34	35	35	35	35
Schools of Art, Music, & Design									
UNC School of the Arts	76	1,938	26	84,924	44	44	44	44	43
Subtotal	76	1,938		84,924					
Subtotal Average			26		44	44	44	44	43
Grand Total	1,707	43,056		1,718,923					
Grand Total Average			25		40	46	40	40	41

Building Characteristics

Table 18. Ownership of Buildings	69
Tables 19 & 20. Capital Investment in Buildings	73
Table 21. Age of Buildings	77
Table 22. Condition of Buildings	81
Table 23. Estimated Cost to Renovate and Replace Unsatisfactory Facilities	85
Table 24. Accessible Area as a Percentage of Assignable	89
Table 25. Accessible Area by Summary Programs and Subprograms.....	91
Table 25a. Accessible Area by Instruction, Research, and Public Service Subprograms.....	94
Table 25b. Accessible Area by Academic Subprograms	97
Table 25c. Accessible Area by Student Service and Physical Plant Operations Subprograms	99
Table 25d. Accessible Area by Institutional Administration, Independent Operations, and Unassigned Programs.....	101
Table 26. Accessible Area by Room Codes.....	103

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Table 18: Ownership of Buildings

Many campus buildings are not owned by the institutions that use them. This table provides data on the ownership status of institutional facilities. The gross square footage of each institution has been classified under the eight ownership categories shown below.

1	Owned in fee simple.	5	Not owned by the institution but made available to the institution either at no cost or at a nominal rate.
2	Title vested in the institution and being paid for on an amortization schedule, regardless of whether the building is shared with another institution or organization.	6	Not owned by the institution but shared with an educational organization that is not a postsecondary institution.
3	Title vested in holding company or building corporation to which payments are being made by the institution; title will ultimately pass to the institution (includes lease-purchase arrangements).	7	Not owned by the institution but shared with another postsecondary educational institution.
4	Not owned by the institution but leased or rented to the institution at a typical local rate.	8	Other (e.g., not owned by the institution, but shared with a noneducational institution).

Ownership for institutions of the University of North Carolina System represents ownership by the State of North Carolina. The sums of the percentages for each institution should in theory add to exactly 100.0, but in some cases they do not due to rounding.

Table 18. Ownership of Buildings

Institution	1 Owned			2 Institution Amortization			3 Holding Co. Amortization		
	GSF	Bldg	%	GSF	Bldg	%	GSF	Bldg	%
Doctoral Universities: Very High Research Activity									
NC State ***	13,024,062	974	77.9	3,035,008	50	18.1			0.0
NC State Veterinary Med	656,149	46	72.4	229,495	2	25.3			0.0
UNC-Chapel Hill ***	13,440,904	356	98.1			0.0	68,760	1	0.5
UNC-Chapel Hill Health Aff.**	5,946,215	79	86.1	537,875	1	7.8	128,275	1	1.9
Subtotal	33,067,330	1,455		3,802,378	53		197,035	2	
Subtotal Percentage			86.5			9.9			0.5
Doctoral Universities: High Research Activity									
East Carolina	5,279,458	145	96.3	4,350	1	0.1	2,800	1	0.1
East Carolina Hlth Aff.	1,606,848	30	83.1	4,775	1	0.2			0.0
N.C. A&T	3,192,237	116	95.6			0.0			0.0
UNC Charlotte	5,020,785	77	50.0	4,877,418	31	48.6	137,999	14	1.4
UNC-Greensboro**	3,858,703	86	56.3	2,805,175	40	40.9	29,296	4	0.4
UNC Wilmington	3,446,311	131	68.9	791,130	11	15.8	738,804	20	14.8
Subtotal	22,404,342	585		8,482,848	84		908,899	39	
Subtotal Percentage			68.6			26.0			2.8
Doctoral/Professional Universities									
Western Carolina	3,108,278	84	74.1	626,114	10	14.9	431,581	10	10.3
Winston-Salem	1,358,754	30	67.8	128,194	5	6.4	441,407	8	22.0
Subtotal	4,467,032	114		754,308	15		872,988	18	
Subtotal Percentage			72.1			12.2			14.1
Master's Colleges & Universities: Larger/Medium Programs									
Appalachian	3,417,927	65	66.7	1,401,960	23	27.3	299,932	3	5.9
Fayetteville	1,193,794	46	81.1	191,904	3	13.0	86,499	1	5.9
NCCU	2,048,115	52	93.8	134,292	2	6.2			0.0
UNC Pembroke	1,265,908	41	68.3			0.0			0.0
Subtotal	7,925,744	204		1,728,156	28		386,431	4	
Subtotal Percentage			74.5			16.2			3.6
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	1,256,934	36	75.0	407,238	14	24.3			0.0
Subtotal	1,256,934	36		407,238	14		0	0	
Subtotal Percentage			75.0			24.3			0.0
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	1,089,005	49	83.7	66,576	2	5.1	145,678	1	11.2
Subtotal	1,089,005	49		66,576	2		145,678	1	
Subtotal Percentage			83.7			5.1			11.2
Schools of Art, Music, & Design									
UNC School of the Arts	1,167,679	60	86.2	77,150	1	5.7	80,440	2	5.9
Subtotal	1,167,679	60		77,150	1		80,440	2	
Subtotal Percentage			86.2			5.7			5.9
Teaching Hospitals									
UNC Hospitals**	2,434,713	23	97.4			0.0			0.0
Subtotal	2,434,713	23		0	0		0	0	
Subtotal Percentage			97.4			0.0			0.0
Grand Total	73,812,779	2,526		15,318,654	197		2,591,471	66	
Grand Total Percentage			78.1			16.2			2.7

** Other is Category 7; *** Other is Category 8.

Table 18. (Continued) Ownership of Buildings

Institution	4 Leased or Rented			5 Nominal Rate			Other			Total Gross Sq. Ft.	
	GSF	Bldg	%	GSF	Bldg	%	GSF	Bldg	%	GSF	Bldg
Doctoral Universities: Very High Research Activity											
NC State ***	453,181	31	2.7	211,786	61	1.3	5,648	4	0.03	16,729,685	1,120
NC State Veterinary Med	21,143	1	2.3			0.0			0.0	906,787	49
UNC-Chapel Hill ***	168,986	20	1.2	12,549	1	0.1	10,287	1	0.1	13,701,486	379
UNC-Chapel Hill Health Aff.**	290,432	24	4.2			0.0			0.0	6,902,797	105
Subtotal	933,742	76		224,335	62		15,935	5		38,240,755	1,653
Subtotal Percentage			2.4			0.6			0.04		
Doctoral Universities: High Research Activity											
East Carolina	64,279	10	1.2	36,140	7	0.7	95,460	2	1.7	5,482,487	166
East Carolina Hlth Aff.	290,860	16	15.0	3,593	5	0.2	26,854	2	1.4	1,932,930	54
N.C. A&T	54,007	3	1.6			0.0	92,337	1	2.8	3,338,581	120
UNC Charlotte			0.0			0.0			0.0	10,036,202	122
UNC-Greensboro**	75,068	15	1.1	4,893	1	0.1	80,718	6	1.2	6,853,853	152
UNC Wilmington	22,389	6	0.4	0	0	0.0	0	0	0.0	4,998,634	168
Subtotal	506,603	50		44,626	13		295,369	11		32,642,687	782
Subtotal Percentage			1.6			0.1			0.90		
Doctoral/Professional Universities											
Western Carolina	28,213	2	0.7			0.0			0.0	4,194,186	106
Winston-Salem	74,668	7	3.7			0.0			0.0	2,003,023	50
Subtotal	102,881	9	1.7	0	0		0	0		6,197,209	156
Subtotal Percentage			0.0			0.0			0.00		
Master's Colleges & Universities: Larger/Medium Programs											
Appalachian	7,010	1	0.1			0.0			0.0	5,126,829	92
Fayetteville			0.0			0.0			0.0	1,472,197	50
NCCU			0.0			0.0			0.0	2,182,407	54
UNC Pembroke	11,161	1	0.6			0.0	576,953	14	31.1	1,854,022	56
Subtotal	18,171	2	0.2	0	0		576,953	14		10,635,455	252
Subtotal Percentage			0.0			0.0			5.42		
Baccalaureate Colleges: Arts & Sciences Focus											
UNC Asheville	11,575	1	0.7			0.0			0.0	1,675,747	51
Subtotal	11,575	1		0	0		0	0		1,675,747	51
Subtotal Percentage			0.7			0.0			0.00		
Baccalaureate Colleges: Diverse Fields											
Elizabeth City			0.0			0.0			0.0	1,301,259	52
Subtotal	0	0		0	0		0	0		1,301,259	52
Subtotal Percentage			0.0			0.0			0.00		
Schools of Art, Music, & Design											
UNC School of the Arts	2,760	1	0.2	11,053	1	0.8	15,700	1	1.2	1,354,782	66
Subtotal	2,760	1		11,053	1		15,700	1		1,354,782	66
Subtotal Percentage			0.2			0.8			1.16		
Teaching Hospitals											
UNC Hospitals**	57,815	6	2.3			0.0	6,721	1	0.3	2,499,249	30
Subtotal	57,815	6		0	0		6,721	1		2,499,249	30
Subtotal Percentage			2.3			0.0			0.27		
Grand Total	1,633,547	145		280,014	76		910,678	32		94,547,143	3,042
Grand Total Percentage			1.7			0.3			0.96		

** Other is Category 7; *** Other is Category 8.

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Tables 19 & 20: Capital Investment in Buildings

Building cost, as used here, refers to the institution's initial capital investment in a building. For a facility that is built by the institution, the building cost is the cost of construction of the structure and its fixed equipment. For buildings that are purchased, the acquisition cost is applicable.

The replacement value of a building, on the other hand, represents the estimated cost of constructing a new facility containing an equal amount of space, which is designed for the same use as the original building, and which meets all of the current commonly accepted standards of construction. For institutional buildings that were in existence prior to 1972, the replacement value was first estimated using 1972 construction cost data. Since then, it has been increased each year using factors obtained annually from construction cost publications. For buildings constructed since 1972, the building cost is the base upon which these replacement value factors are applied.

From 1972-83, the replacement value factors were derived from building cost data reported for the Atlanta region in the Engineering News Record. From 1984-1987, the Dodge Building Cost Indexes for U. S. and Canadian Cities, published by McGraw-Hill Cost Information Systems, was used to determine the replacement value factors. Since 1987, due to a lapse in the publishing of the Dodge publication, the R. S. Means Construction Cost Indexes report, which follows a calculation methodology like the Dodge report, has been used to construct this index. Factors calculated from the Means publication are derived by computing an average of the construction cost increases for Asheville, Charlotte, Durham, Fayetteville, Greensboro, Raleigh, Wilmington, and Winston-Salem. The following are the factors that have been used to increase the estimated replacement values each year. The construction cost factor reported by R.S. Means reflected a negative multiplier for the 2009 building replacement costs. This decrease in building values reflected the devaluation of property both nationally and across North Carolina during the economic downturn. Property values have recovered, and this continued upward trend is reflected in the 2021 factor applied to the estimated replacement values for the current year.

Annual Year	Annual Increase	Annual Year	Annual Increase	Annual Year	Annual Increase
2004	12.60%	2010	0.80%	2016	2.60%
2005	9.80%	2011	5.90%	2017	2.70%
2006	9.20%	2012	5.50%	2018	5.20%
2007	2.60%	2013	4.20%	2019	3.20%
2008	7.60%	2014	3.90%	2020	0.50%
2009	-3.70%	2015	2.10%	2021	14.20%

The data are categorized as non-residential (Table 19) and residential (Table 20). Buildings with twenty percent or more of their space in each category are considered combination buildings and appear in table 20. Institutions with combination buildings include ECU 1, NCSU 5, UNC-CH 1, UNC-CH Health Affairs 1, UNCP 1, WCU 1, and WSSU 1.

Table 19 Non-Residential Capital Investment

Institution	Non-Residential Buildings			
	No. of Bldgs.	Building Cost	Replacement Value	Gross Sq. Ft. on Campus
Doctoral Universities: Very High Research Activity				
NC State	975	\$1,088,360,729	\$5,279,633,130	13,624,174
NC State Veterinary Med	49	108,650,720	420,467,253	906,787
UNC-Chapel Hill	301	1,531,892,016	4,269,038,450	10,058,857
UNC-Chapel Hill Hlth Aff.	104	847,266,149	2,459,769,871	6,901,555
Subtotal	1,429	\$3,576,169,614	\$12,428,908,704	31,491,373
Doctoral Universities: High Research Activity				
East Carolina	147	\$452,298,088	\$1,679,618,822	4,155,128
East Carolina Hlth Aff.	54	278,827,930	721,780,926	1,932,930
NC A&T	106	290,761,386	1,150,858,906	2,750,954
UNC Charlotte	88	954,652,060	2,114,781,056	7,839,602
UNC Greensboro	122	480,399,031	2,353,633,422	4,667,971
UNC Wilmington	126	482,728,181	976,166,204	3,367,471
Subtotal	643	\$2,939,666,676	\$8,996,839,336	24,714,056
Doctoral/Professional Universities				
Western Carolina	69	273,165,612	686,692,233	3,034,409
Winston-Salem	35	150,930,719	390,493,408	1,254,188
Subtotal	104	\$424,096,331	\$1,077,185,641	4,288,597
Master's Colleges & Universities: Larger/Medium Programs				
Appalachian	69	\$463,770,713	\$1,200,513,878	3,604,022
Fayetteville	41	110,938,819	324,416,485	1,120,153
NC Central	43	173,139,332	759,742,420	1,531,995
UNC Pembroke	41	157,247,457	448,906,108	1,152,665
Subtotal	194	\$905,096,321	\$2,733,578,891	7,408,835
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	30	\$136,269,920	\$451,357,836	1,145,269
Subtotal	30	\$136,269,920	\$451,357,836	1,145,269
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	38	\$86,457,915	\$312,256,013	853,244
Subtotal	38	\$86,457,915	\$312,256,013	853,244
Schools of Art, Music, & Design				
UNC School of the Arts	47	\$105,521,127	\$306,902,572	1,134,700
Subtotal	47	\$105,521,127	\$306,902,572	1,134,700
Teaching Hospitals				
UNC Hospitals	30	\$151,744,106	\$1,227,208,497	2,499,249
Subtotal	30	\$151,744,106	\$1,227,208,497	2,499,249
Grand Total	2,515	\$8,325,022,010	\$27,534,237,490	73,535,323

Table 20 Residential Capital Investment

Institution	Residential Buildings			
	No. of Bldgs.	Building Cost	Replacement Value	Gross Sq. Ft. on Campus
Doctoral Universities: Very High Research Activity				
NC State	145	\$229,172,522	\$870,194,252	3,105,511
NC State Veterinary Med	0	0	0	0
UNC-Chapel Hill	78	304,205,931	881,339,421	3,642,629
UNC-Chapel Hill Hlth Aff.	1	31,500	222,819	1,242
Subtotal	224	\$533,409,953	\$1,751,756,492	6,749,382
Doctoral Universities: High Research Activity				
East Carolina	19	\$102,496,136	\$382,608,039	1,327,359
East Carolina Hlth Aff.	0	0	0	0
NC A&T	14	29,173,424	178,352,488	587,627
UNC Charlotte	34	289,719,444	558,813,603	2,196,600
UNC Greensboro	30	170,219,604	970,203,488	2,185,882
UNC Wilmington	42	255,922,025	437,477,461	1,631,163
Subtotal	139	\$847,530,633	\$2,527,455,079	7,928,631
Master's (Comprehensive) Universities & Colleges I				
Western Carolina	37	168,448,555	335,180,326	1,159,777
Winston-Salem	15	92,053,235	191,323,311	748,835
Subtotal	52	\$260,501,790	\$526,503,637	1,908,612
Master's Colleges & Universities: Larger/Medium Programs				
Appalachian	23	\$217,554,126	\$425,365,038	1,522,807
Fayetteville	9	27,407,381	78,552,033	352,044
NC Central	11	60,463,229	240,580,671	650,412
UNC Pembroke	15	10,309,198	150,766,316	701,357
Subtotal	58	\$315,733,934	\$895,264,058	3,226,620
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	21	\$86,308,807	\$193,279,636	530,478
Subtotal	21	\$86,308,807	\$193,279,636	530,478
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	14	\$34,818,578	\$93,599,054	448,015
Subtotal	14	\$34,818,578	\$93,599,054	448,015
Schools of Art, Music, & Design				
UNC School of the Arts	19	\$10,995,657	\$42,617,199	220,082
Subtotal	19	\$10,995,657	\$42,617,199	220,082
Teaching Hospitals				
UNC Hospitals	-	-	-	-
Subtotal	0	\$0	\$0	0
Grand Total	527	\$2,089,299,352	\$6,030,475,155	21,011,820

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Table 21: Age of Buildings

This table reports the total gross square footage of UNC System universities by year of construction categories. For purposes of this study, the year of construction is defined as the year that the building was completed regardless of any later year of occupancy.

Although this table gives some indications of how new an institution's facilities are, it does not consider renovations. The data in this table should, therefore, be considered in conjunction with Table 22 (Condition of Buildings) and Table 23 (Estimated Cost to Renovate or Replace Unsatisfactory Facilities).

Table 21. Age of Buildings

Institution	Total All Buildings		60+		51-60 Years (1971-1962)		40-50 Years (1982-1972)	
	Bldgs	GSF	Bldgs	GSF	Bldgs	GSF	Bldgs	GSF
Doctoral Universities: Very High Research Activity								
NC State	1,120	16,729,685	224	4,270,337	163	1,882,230	180	2,301,018
NC State Veterinary Med	49	906,787	5	39,719	5	23,179	10	358,686
UNC-Chapel Hill	379	13,701,486	90	3,032,282	53	2,148,388	24	679,132
UNC-Chapel Hill Hlth Aff.	105	6,902,797	11	429,541	10	728,923	12	1,205,525
Subtotal	1,653	38,240,755	330	7,771,879	231	4,782,720	226	4,544,361
Doctoral Universities: High Research Activity								
East Carolina	166	5,482,487	57	1,492,597	26	1,395,562	22	486,229
East Carolina Hlth Aff.	54	1,932,930	2	13,276	6	35,060	7	609,800
N.C. A&T	120	3,338,581	39	944,723	11	320,890	19	505,982
UNC Charlotte	122	10,036,202	2	61,449	13	913,220	14	828,273
UNC Greensboro	152	6,853,853	51	1,709,874	21	631,106	14	626,829
UNC Wilmington	168	4,998,634	10	127,058	11	265,065	13	459,259
Subtotal	782	32,642,687	161	4,348,977	88	3,560,903	89	3,516,372
Doctoral/Professional Universities								
Western Carolina	106	4,194,186	39	659,621	16	600,064	12	361,230
Winston-Salem	50	2,003,023	9	148,706	6	251,957	5	222,772
Subtotal	156	6,197,209	48	808,327	22	852,021	17	584,002
Master's Colleges & Universities: Larger/Medium Programs								
Appalachian	92	5,126,829	14	519,784	21	1,154,616	15	353,787
Fayetteville	50	1,472,197	14	232,311	9	241,284	12	351,848
NCCU	54	2,182,407	25	560,714	6	256,635	8	334,467
UNC Pembroke	56	1,854,022	8	163,661	13	299,562	9	332,633
Subtotal	252	10,635,455	61	1,476,470	49	1,952,097	44	1,372,735
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	51	1,675,747	2	109,607	11	225,431	8	165,028
Subtotal	51	1,675,747	2	109,607	11	225,431	8	165,028
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	52	1,301,259	19	235,753	6	152,296	10	237,827
Subtotal	52	1,301,259	19	235,753	6	152,296	10	237,827
Schools of Art, Music, & Design								
UNC School of the Arts	66	1,354,782	21	366,290	13	123,534	2	108,243
Subtotal	66	1,354,782	21	366,290	13	123,534	2	108,243
Teaching Hospitals								
UNC Hospitals	30	2,499,249	9	379,460	4	376,359	4	204,982
Subtotal	30	2,499,249	9	379,460	4	376,359	4	204,982
Grand Total	3,042	94,547,143	651	15,496,763	424	12,025,361	400	10,733,550

Table 21. (Continued) Age of Buildings

Institution	20-39 Years (2002-1983)		10-19 Years (2012-2003)		<10 Years (2021-2013)	
	Bldgs	GSF	Bldgs	GSF	Bldgs	GSF
Doctoral Universities: Very High Research Activity						
NC State	335	3,208,863	139	3,876,993	79	1,190,244
NC State Veterinary Med	16	27,764	6	418,865	7	38,574
UNC-Chapel Hill	78	3,030,690	102	4,269,825	32	541,169
UNC-Chapel Hill Hlth Aff.	36	2,631,399	28	1,488,204	8	419,205
Subtotal	465	8,898,716	275	10,053,887	126	2,189,192
Doctoral Universities: High Research Activity						
East Carolina	19	476,909	14	502,475	32	732,236
East Carolina Hlth Aff.	5	127,277	12	606,670	13	806,396
N.C. A&T	17	425,351	9	337,912	39	1,016,875
UNC Charlotte	12	759,717	21	1,606,585	46	4,038,643
UNC Greensboro	14	626,829	13	919,239	28	1,833,694
UNC Wilmington	13	459,259	41	833,734	65	2,027,414
Subtotal	80	2,875,342	110	4,806,615	223	10,455,258
Doctoral/Professional Universities						
Western Carolina	11	205,830	11	439,899	24	842,801
Winston-Salem	5	222,772	9	463,058	16	580,648
Subtotal	16	428,602	20	902,957	40	1,423,449
Master's Colleges & Universities: Larger/Medium Programs						
Appalachian	15	353,787	13	662,879	22	1,755,067
Fayetteville	9	335,966	10	298,857	6	205,179
NCCU	6	281,171	4	226,768	13	857,119
UNC Pembroke	9	332,633	3	120,529	17	704,197
Subtotal	39	1,303,557	30	1,309,033	58	3,521,562
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	7	101,309	9	393,450	13	627,135
Subtotal	7	101,309	9	393,450	13	627,135
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	7	179,971	10	221,577	8	395,681
Subtotal	7	179,971	10	221,577	8	395,681
Schools of Art, Music, & Design						
UNC School of the Arts	2	108,243	10	109,742	14	327,882
Subtotal	2	108,243	10	109,742	14	327,882
Teaching Hospitals						
UNC Hospitals	1	5,227	23	1,292,372	2	796,138
Subtotal	1	5,227	23	1,292,372	2	796,138
Grand Total	617	13,900,967	487	19,089,633	484	19,736,297

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Table 22: Condition of Buildings

The physical condition of campus buildings has been a matter of increasing concern to university administrators. As institutional budgets tightened during the 1970s, several institutions attempted to economize by deferring the maintenance of facilities. Many institutions continued this policy through the 1980s and 1990s. As a result, some universities now have buildings which are in such poor condition that they can no longer satisfactorily support the programs for which they were intended. Increasing new construction costs have made proper maintenance of campus physical plants even more important.

The data in Table 22 are based on the assessment of building conditions under the Facilities Condition Assessment Program, described below. In addition, an assessment of building conditions by the facilities project officers at the institutions is reported within the building inventory file. Although few of them are architects or engineers, facilities project officers generally have (or have access to) sufficient information about the condition of their institutions' facilities to be able to accurately assign a condition code to each campus building. In those cases where campus project officers do not have this information, they are encouraged to consult qualified physical plant personnel each year for assignment of a condition code. These codes are defined on the following page.

FCAP: Facilities Maintenance and Repair Needs

The Facilities Condition Assessment Program (FCAP), a recurring study of the condition of facilities over 3,000 GSF for state buildings including the institutions of the University of North Carolina, provides a dollar estimate of deferred maintenance and repairs for buildings and other assets. This study is conducted by the State Construction Office (SCO), a division of the North Carolina Department of Administration, on a three to five-year cycle for the UNC institutions. The FCAP methodology is not intended to quantify needed or desired improvements that go beyond the original design functionality, but to identify an order of magnitude needed for repairs statewide. For example, if the air-conditioning system in each facility is not performing adequately because of a faulty chiller, the cost of required repairs would be reflected in FCAP. However, if the building lacked air-conditioning altogether when originally built, despite the need for it to meet contemporary standards for classroom instruction, the cost of retrofitting air-conditioning would not be reflected in FCAP, since it was not called for in the original design. FCAP was not intended to identify deficiencies related to current standards of quality or suitability of space for current program purposes.

BUILDING CONDITION CODES (Building Inventory File)

Building condition indicates the physical status and quality of the building at the time of the inventory, based on the best judgment of those responsible for campus development and reporting. Building condition is classified using the following categories:

- 1 - Satisfactory** - Suitable for continued use with normal maintenance.
- 2 - Remodeling A** - Requires restoration to present acceptable standards without major room use changes, alterations, or modernizations. The approximate cost of "Remodeling A" is not greater than 25% of the estimated replacement cost of the building.
- 3 - Remodeling B** - Requires major updating and/or modernization of the building. The approximate cost of "Remodeling B" is greater than 25%, but not greater than 50% of the estimated replacement cost of the building.
- 4 - Remodeling C** - Requires major remodeling of the building. The approximate cost of "Remodeling C" is greater than 50% of the replacement cost of the building.
- 5 - Demolition** - Should be demolished or abandoned because the building is unsafe or structurally unsound, irrespective 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-Demolition," regardless of its condition.
- 6 - Termination** - 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-Termination," regardless of its condition.

Table 22. Condition of Buildings: Gross Square Footage

Institution	Satisfactory			Remodeling A			Remodeling B			Remodeling C		
	GSF	Bldg	%	GSF	Bldg	%	GSF	Bldg	%	GSF	Bldg	%
Doctoral Universities: Very High Research Activity												
NC State	6,905,479	604	41.3	4,244,757	227	25.4	3,937,255	148	23.5	1,527,935	120	9.1
NC State Veterinary Med	356,084	10	39.3	107,758	7	11.9	442,945	32	48.8			0.0
UNC-Chapel Hill	876,665	29	6.4	7,832,369	207	57.2	3,102,428	53	22.6	1,782,090	69	13.0
UNC-Chapel Hill Hlth Aff.	1,393,092	23	20.2	3,954,569	45	57.3	1,076,466	20	15.6	478,670	17	6.9
Subtotal	9,531,320	666		16,139,453	486		8,559,094	253		3,788,695	206	
Subtotal Percentage			24.9			42.2			22.4			9.9
Doctoral Universities: High Research Activity												
East Carolina	3,603,782	90	65.7	843,723	30	15.4	416,366	24	7.6	605,165	18	11.0
East Carolina Hlth Aff.	1,152,713	30	59.6	229,802	12	11.9	42,317	7	2.2	508,098	5	26.3
N.C. A&T	1,480,113	63	44.3	410,281	16	12.3	471,570	14	14.1	916,987	25	27.5
UNC Charlotte	7,321,276	84	72.9	1,169,374	19	11.7	749,196	7	7.5	796,356	12	7.9
UNC Greensboro	3,430,549	64	50.1	2,459,770	52	35.9	682,722	18	10.0	258,787	14	3.8
UNC Wilmington	4,991,218	166	99.9	5,066	1	0.1			0.0	2,350	1	0.0
Subtotal	21,979,651	497		5,118,016	130		2,362,171	70		3,087,743	75	
Subtotal Percentage			67.3			15.7			7.2			9.5
Doctoral/Professional Universities												
Western Carolina	3,267,904	66	77.9	735,063	27	17.5	156,405	9	3.7	34,814	4	0.8
Winston-Salem	1,320,026	29	65.9	517,748	12	25.8	89,733	6	4.5	75,516	3	3.8
Subtotal	4,587,930	95		1,252,811	39		246,138	15		110,330	7	
Subtotal Percentage			74.0			20.2			4.0			1.8
Master's Colleges & Universities: Larger/Medium Programs												
Appalachian	1,684,747	38	32.9	2,071,727	31	40.4	376,283	8	7.3	774,144	11	15.1
Fayetteville	196,605	3	13.4	599,316	23	40.7	410,793	9	27.9	168,589	12	11.5
NCCU	1,966,468	44	90.1	85,492	6	3.9	128,447	3	5.9			0.0
UNC Pembroke	173,111	3	9.3	191,934	11	10.4	990,508	24	53.4	453,953	16	24.5
Subtotal	4,020,931	88		2,948,469	71		1,906,031	44		1,396,686	39	
Subtotal Percentage			37.8			27.7			17.9			13.1
Baccalaureate Colleges: Arts & Sciences Focus												
UNC Asheville	649,260	24	38.7	520,833	12	31.1	156,358	4	9.3	349,296	11	20.8
Subtotal	649,260	24		520,833	12		156,358	4		349,296	11	
Subtotal Percentage			38.7			31.1			9.3			20.8
Baccalaureate Colleges: Diverse Fields												
Elizabeth City	853,922	32	65.6	226,441	10	17.4	85,200	4	6.5	108,206	3	8.3
Subtotal	853,922	32		226,441	10		85,200	4		108,206	3	
Subtotal Percentage			65.6			17.4			6.5			8.3
Schools of Art, Music, & Design												
UNC School of the Arts	1,076,169	46	79.4	212,096	10	15.7	10,605	3	0.8	50,084	3	3.7
Subtotal	1,076,169	46		212,096	10		10,605	3		50,084	3	
Subtotal Percentage			79.4			15.7			0.8			3.7
Teaching Hospitals												
UNC Hospitals	2,499,249	30	100	0	0	0.0	0	0	0.0	0	0	0.0
Subtotal	2,499,249	30		0	0		0	0		0	0	
Subtotal Percentage			100			0.0			0.0			0.0
Grand Total	45,198,432	1,478		26,418,119	758		13,325,597	393		8,891,040	344	
Grand Total Percentage			47.8			27.9			14.1			9.4

Table 22. (Continued) Condition of Buildings: Gross Square Footage

Institution	Demolition			Termination			Total Gross Square Feet	
	GSF	Bldg	%	GSF	Bldg	%	GSF	Bldg
Doctoral Universities: Very High Research Activity								
NC State	112,535	20	0.7	1,724	1	0.01	16,729,685	1,120
NC State Veterinary Med	0	0	0.0	0	0	0.0	906,787	49
UNC-Chapel Hill	107,934	21	0.8	0	0	0.0	13,701,486	379
UNC-Chapel Hill Hlth Aff.	0	0	0.0	0	0	0.0	6,902,797	105
Subtotal	220,469	41		1,724	1		38,240,755	1,653
Subtotal Percentage			0.6			0.0		
Doctoral Universities: High Research Activity								
East Carolina	11,012	3	0.2	2,439	1	0.0	5,482,487	166
East Carolina Hlth Aff.	0	0	0.0	0	0	0.0	1,932,930	54
N.C. A&T	2,806	1	0.1	56,824	1	1.7	3,338,581	120
UNC Charlotte	0	0	0.0	0	0	0.0	10,036,202	122
UNC Greensboro	22,025	4	0.3	0	0	0.0	6,853,853	152
UNC Wilmington	0	0	0.0	0	0	0.0	4,998,634	168
Subtotal	35,843	8		59,263	2		32,642,687	782
Subtotal Percentage			0.1			0.2		
Doctoral/Professional Universities								
Western Carolina	0	0	0.0	0	0	0.0	4,194,186	106
Winston-Salem	0	0	0.0	0	0	0.0	2,003,023	50
Subtotal	0	0		0	0		6,197,209	156
Subtotal Percentage			0.0			0.0		
Master's Colleges & Universities: Larger/Medium Programs								
Appalachian	45,707	1	0.9	174,221	3	3.4	5,126,829	92
Fayetteville	96,894	3	6.6	0	0	0.0	1,472,197	50
NCCU	2,000	1	0.1	0	0	0.0	2,182,407	54
UNC Pembroke	44,516	2	2.4	0	0	0.0	1,854,022	56
Subtotal	189,117	7		174,221	3		10,635,455	252
Subtotal Percentage			1.8			1.6		
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	0	0	0.0	0	0	0.0	1,675,747	51
Subtotal	0	0		0	0		1,675,747	51
Subtotal Percentage			0.0			0.0		
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	27,490	3	2.1	0	0	0.0	1,301,259	52
Subtotal	27,490	3		0	0		1,301,259	52
Subtotal Percentage			2.1			0.0		
Schools of Art, Music, & Design								
UNC School of the Arts	5,828	4	0.4	0	0	0.0	1,354,782	66
Subtotal	5,828	4		0	0		1,354,782	66
Subtotal Percentage			0.4			0.0		
Teaching Hospitals								
UNC Hospitals	0	0	0.0	0	0	0.0	2,499,249	30
Subtotal	0	0		0	0		2,499,249	30
Subtotal Percentage			0.0			0.0		
Grand Total	478,747	63		235,208	6		94,547,143	3,042
Grand Total Percentage			0.5			0.2		

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Table 23: Estimated Cost to Renovate or Replace Unsatisfactory Facilities

The common practice of deferring standard maintenance of university facilities has forced many institutions to face the prospect of extensive renovations and the total replacement of some buildings. On a national level, the cost of bringing buildings to a satisfactory condition and replacing inadequate facilities was estimated in 1989 at over \$60 billion. * That figure is generally considered to be significantly higher today.

Table 23 estimates the costs of bringing all campus buildings to a satisfactory condition by renovating unsatisfactory facilities and replacing buildings, which are designated for demolition due to their unsafe condition or which will be vacated by institutions for any other reason. It does not estimate the cost of new construction required by insufficient quantities of space required to meet programmatic needs.

These estimates were calculated by taking the estimated replacement value of each unsatisfactory building and multiplying it by the appropriate "cost midpoint" based on the condition of the building. (See Table 19 for a discussion of estimated replacement values and Table 22 for definitions of condition codes.)

The cost midpoints used in generating the estimates for Table 23 are as follows:

<u>Condition</u>	<u>Cost Midpoint</u>
Remodeling A	20%
Remodeling B	37.5%
Remodeling C	75%
Demolition	100%
Termination	100%

Thus, for example, if a building in “Remodeling A” condition has an estimated replacement value of \$1,000,000, the cost to bring it to satisfactory condition would be estimated to be \$200,000.

Current year dollar figures for total campus original building cost, estimated replacement cost, and renovation/replacement needs are presented in the table. The Facilities Condition Assessment Program (FCAP), conducted by the State Construction Office, a division of the North Carolina Department of Administration, provides more precise dollar deficiency figures for campus buildings over 3,000 GSF (see pages 120 and 124).

*Association of Physical Plant Administrators of Universities and Colleges. *The Decaying American Campus: A Ticking Time Bomb*, 1989.

RELATIVE INCREASES IN CONSTRUCTION COSTS

Since building cost represents an institution's capital investment in a facility, only buildings that are owned by the institution (i.e., those falling under ownership categories 1-3 on page 69) are included in calculating total cost. Replacement value, on the other hand, reflects all buildings on an institution's campus, regardless of their ownership status.

The condition and cost of replacing or renovating facilities are important components in weighing capital planning decisions. Renovation may be a cost-effective alternative to new construction, especially where poor condition limits the use of existing space. If a renovation can increase the amount of assignable space in a building, then part of the cost of the renovation can be justified purely on a cost savings basis. Tables 19 and 20 suggest that new construction costs average \$341 per gross square foot. Table 13 indicates that the average net-to-gross ratio is .542. This means that new construction costs are approximately \$629 per

assignable square foot. Thus, every assignable square foot created through a renovation can be viewed as saving the institution \$629 in new construction costs.

$$\text{CONSTRUCTION COST/ASF} = \frac{\text{CONSTRUCTION COST/GSF}}{\text{NET-TO-GROSS RATIO}}$$
$$\text{CONSTRUCTION COST/ASF} = \frac{\$341}{.542} = \$629$$

The data are categorized as non-residential (Table 19) and residential (Table 20). Buildings with twenty percent or more of their space in each category are considered combination buildings and appear in table 20. Institutions with combination buildings include ECU 1, NCSU 5, UNC-CH 1, UNC-CH Health Affairs 1, UNCP 1, WCU 1, and WSSU 1.

Table 23. Estimated Cost to Renovate or Replace Less Than Satisfactory Facilities

Institution	Total Number of Facilities	Original Building Cost	Estimated Replacement Cost	Number of Less Than Satisfactory Facilities	GSF of Less Than Satisfactory Facilities	Estimated Cost of Restoring Facilities to Satisfactory Condition
Doctoral Universities: Very High Research Activity						
NC State	1,120	\$1,317,533,251	\$6,149,827,382	516	9,824,206	\$1,386,821,795
NC State Veterinary Med	49	108,650,720	420,467,253	39	550,703	100,919,893
UNC-Chapel Hill	379	1,836,097,947	5,150,377,871	350	12,824,821	1,475,747,062
UNC-Chapel Hill Hlth Aff.	105	847,297,649	2,459,992,690	82	5,509,705	563,049,497
Subtotal	1,653	\$4,109,579,567	\$14,180,665,196	987	28,709,435	\$3,526,538,246
Doctoral Universities: High Research Activity						
East Carolina	166	\$554,794,224	\$2,062,226,861	76	1,878,705	\$286,545,171
East Carolina Hlth Aff.	54	278,827,930	721,780,926	24	780,217	142,473,141
NC A&T	120	319,934,810	1,329,211,394	57	1,858,468	391,615,343
UNC Charlotte	122	1,244,371,504	2,673,594,659	38	2,714,926	396,293,192
UNC Greensboro	152	650,618,635	3,323,836,910	88	3,423,304	505,139,083
UNC Wilmington	168	738,650,206	1,413,643,665	2	7,416	285,372
Subtotal	782	\$3,787,197,309	\$11,524,294,415	285	10,663,036	\$1,722,351,302
Doctoral/Professional Universities						
Western Carolina	106	441,614,167	1,021,872,559	40	926,282	54,004,906
Winston-Salem	50	242,983,954	581,816,719	21	682,997	46,049,551
Subtotal	156	\$684,598,121	\$1,603,689,278	61	1,609,279	\$100,054,457
Master's Colleges & Universities: Larger/Medium Programs						
Appalachian	92	\$681,324,839	\$1,625,878,916	54	3,442,082	\$402,605,732
Fayetteville	50	138,346,200	402,968,518	47	1,275,592	118,432,137
NC Central	54	233,602,561	1,000,323,091	10	215,939	26,194,467
UNC Pembroke	56	167,556,655	599,672,424	53	1,680,911	246,840,385
Subtotal	252	\$1,220,830,255	\$3,628,842,949	164	6,614,524	\$794,072,720
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	51	\$222,578,727	\$644,637,472	27	1,026,487	\$168,570,335
Subtotal	51	\$222,578,727	\$644,637,472	27	1,026,487	\$168,570,335
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	52	\$121,276,493	\$405,855,067	20	447,337	\$49,086,630
Subtotal	52	\$121,276,493	\$405,855,067	20	447,337	\$49,086,630
Schools of Art, Music, & Design						
UNC School of the Arts	66	\$116,516,784	\$349,519,771	20	278,613	\$16,626,856
Subtotal	66	\$116,516,784	\$349,519,771	20	278,613	\$16,626,856
Teaching Hospitals						
UNC Hospitals	30	\$151,744,106	\$1,227,208,497	0	0	\$0
Subtotal	30	\$151,744,106	\$1,227,208,497	0	0	\$0
Grand Total	3,042	\$10,414,321,362	\$33,564,712,645	1,564	49,348,711	\$6,377,300,548

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Table 24: Accessible Area as a Percentage of Assignable

The Rehabilitation Act of 1973 focused national attention on the rights of handicapped persons. Section 504 of the Act stated that "no otherwise qualified handicapped individual in the United States . . . shall, solely by reason of his handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance." The more recent 1990 Americans with Disabilities Act (ADA) reinforced this guideline while providing a very comprehensive set of regulations and definitions for addressing the special needs of people with a broad range of disabilities.

One of the groups protected by both pieces of legislation is the people who use wheelchairs or whose mobility is otherwise impaired. Although neither of the Congressional Acts requires that colleges and universities make all their facilities barrier free, they do require that an institution's programs be made accessible to people with disabilities. Although program accessibility can be partially achieved through changes other than facilities modifications, the amount of assignable space that is accessible to people with mobility impairments is a factor which must be carefully considered in making programs accessible.

The National Center for Education Statistics conducted a survey in 1978 to determine the impact of the earlier Section 504 on colleges and universities. One of the findings of the survey was that about 76% of the assignable area on college and university campuses would need to be made accessible to comply with the program accessibility requirement of the original legislation. The survey also found, however, that this percentage varied greatly among different institutions. Since the 1978 study, total campus accessibility for institutions throughout the country has improved dramatically.

The definition of building space accessibility in the 2006 NCEs Postsecondary Education Facilities Inventory and Classification Manual (and incorporated in the 2009 edition of the N.C. Manual) includes *approach to* a building in addition to access from a point immediately outside the building. Thus, a building's *site* must also be accessible, i.e., there are no barriers to approach, such as lack of curb breaks or steps to a building's entrance. These criteria apply to a mobility-impaired person (i.e., wheelchair user or someone who uses another support device such as a walker) who is attempting to approach and enter a building and its internal space without assistance.

Table 24. Accessible Area as a Percentage of Assignable Area

Institution	Total Assignable Sq. Ft.	Accessible Sq. Ft.	Percent Accessible				
			2021	2020	2019	2018	2017
Doctoral Universities: Very High Research Activity							
NC State	9,336,417	7,707,220	82.6	81.6	81.4	83.4	80.7
NC State Veterinary Med	460,789	425,851	92.4	92.5	92.5	93.4	88.8
UNC-Chapel Hill	7,623,259	7,612,566	99.9	100.0	99.4	99.5	99.7
UNC-Chapel Hill Hlth Aff.	2,575,081	2,555,892	99.3	99.3	99.3	99.4	99.5
Subtotal	19,995,546	18,301,529					
Subtotal Percentage			91.5	91.0	90.8	91.8	90.5
Doctoral Universities: High Research Activity							
East Carolina	3,391,073	2,996,705	88.4	86.0	86.0	86.4	86.1
East Carolina Hlth Aff.	1,152,846	881,042	76.4	77.6	77.6	76.3	79.1
N.C. A&T	2,302,589	2,033,179	88.3	88.6	88.6	88.6	88.1
UNC Charlotte	4,132,970	4,007,202	97.0	97.0	96.8	97.7	95.9
UNC Greensboro	3,500,601	3,084,948	88.1	88.2	79.2	79.8	80.6
UNC Wilmington	2,883,772	2,759,526	95.7	100.0	97.2	95.8	96.1
Subtotal	17,363,851	15,762,602					
Subtotal Percentage			90.8	91.1	88.7	88.8	88.6
Doctoral/Professional Universities							
Western Carolina	2,103,895	1,710,413	81.3	76.6	76.6	75.5	75.4
Winston-Salem	1,284,309	1,157,998	90.2	90.2	89.4	87.5	87.1
Subtotal	3,388,204	2,868,411					
Subtotal Percentage			84.7	81.6	81.3	80.1	79.8
Master's Colleges & Universities: Larger/Medium Programs							
Appalachian	2,940,197	2,362,854	80.4	85.2	85.3	85.1	84.4
Fayetteville	919,639	777,177	84.5	84.5	84.5	84.5	84.2
NCCU	1,394,029	1,274,558	91.4	91.3	91.3	90.9	90.5
UNC Pembroke	1,249,665	1,171,508	93.7	94.0	92.0	91.0	91.0
Subtotal	6,503,530	5,586,097					
Subtotal Percentage			85.9	88.1	87.8	87.3	87.0
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	931,199	134,172	14.4	9.1	7.6	7.6	0.0
Subtotal	931,199	134,172					
Subtotal Percentage			14.4	9.1	7.6	7.6	0.0
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	867,383	748,789	86.3	86.3	86.3	86.3	86.3
Subtotal	867,383	748,789					
Subtotal Percentage			86.3	86.3	86.3	86.3	86.3
Schools of Art, Music, & Design							
UNC School of the Arts	858,195	777,893	90.6	90.5	90.2	90.2	90.1
Subtotal	858,195	777,893					
Subtotal Percentage			90.6	90.5	90.2	90.2	90.1
Teaching Hospitals							
UNC Hospitals	1,358,303	1,194,183	87.9	87.9	87.9	87.9	87.9
Subtotal	1,358,303	1,194,183					
Subtotal Percentage			87.9	87.9	87.9	87.9	87.9
Grand Total	51,266,211	45,373,676					
Grand Total Percentage			88.5	88.4	87.3	87.6	86.9

Table 25: Accessible Area by Summary Programs and Subprograms

The requirement that all universities make their programs accessible to handicapped persons makes careful planning on the part of campus administrators especially important. Although program accessibility does not require that a campus be barrier free, the concepts of program accessibility and facilities accessibility are inherently interrelated. Campus administrators must therefore analyze their campus facilities in terms of accessibility, focusing particularly on the kinds of space that are accessible.

Table 25 and Tables 25a-25d indicate for each program and subprogram the percentage of assignable space that is accessible to the mobility impaired. A dash indicates that a particular institution has no assignable space under the indicated program or subprogram. A "0.0" indicates that the institution has *assignable* space under the program and subprogram but that none of it is *accessible*. Definitions of the programs and subprograms listed in these tables can be found in the narratives preceding Tables 14-14d. Subprogram 03 (Building Service) is not included in Table 25d (and is not considered as part of Program 00 in Table 25) since it applies to non-assignable area only.

It is not possible to develop standards to indicate how much accessible space in each program and subprogram is needed to achieve program accessibility. The figures would vary from institution to institution based on the kinds of programmatic changes that had been implemented to assist people with disabilities. For example, the financial aid program at a college or university would be considered accessible if a student with disabilities had the same access to the financial aid and related counseling that the institution offered to other students. This could be accomplished without making the space occupied by the financial aid office accessible. Thus, a program or subprogram that has little or no physically accessible area is not necessarily inaccessible.

Although the data in Table 25 and Tables 25a-25d cannot be used to ascertain whether program accessibility has been achieved, the information does provide facilities planners with a detailed breakdown of the accessible space on their campuses. This will in turn assist each institution in the determination of the most practical means of achieving program accessibility.

**Table 25. Percentage Distribution of Accessible Area
by Summary Programs**

Institution	Accessible Sq. Ft.	Instruction 10	Research 20	Public Service 30	Academic Support 40	Student Services 50
Doctoral Universities: Very High Research Activity						
NC State	7,707,220	91.1	77.8	68.2	97.4	81.2
NC State Veterinary Med	425,851	88.7	93.3	95.8	94.7	100.0
UNC-Chapel Hill	7,612,566	100.0	99.7	100.0	100.0	100.0
UNC-Chapel Hill Hlth Aff.	2,555,892	100.0	100.0	99.9	100.0	100.0
Subtotal	18,301,529					
Subtotal Percentage		96.1	87.2	83.5	98.9	91.5
Doctoral Universities: High Research Activity						
East Carolina	2,996,705	92.0	72.4	89.0	93.9	94.8
East Carolina Hlth Aff.	881,042	86.2	97.5	59.2	96.6	59.2
N.C. A&T	2,033,179	92.7	84.0	95.2	95.4	79.0
UNC Charlotte	4,007,202	96.8	99.4	99.8	99.2	96.7
UNC Greensboro	3,084,948	94.8	92.0	83.2	87.8	85.4
UNC Wilmington	2,759,526	96.4	99.0	99.2	99.7	95.5
Subtotal	15,762,602					
Subtotal Percentage		93.9	93.0	67.3	95.4	91.8
Doctoral/Professional Universities						
Western Carolina	1,710,413	94.8	90.2	100.0	95.8	72.8
Winston-Salem	1,157,998	91.2	100.0	87.9	97.0	91.9
Subtotal	2,868,411					
Subtotal Percentage		93.5	95.7	94.4	96.2	80.4
Master's Colleges & Universities: Larger/Medium Programs						
Appalachian	2,362,854	87.4	70.5	32.7	100.0	76.3
Fayetteville	777,177	100.0	100.0	100.0	100.0	64.6
NCCU	1,274,558	90.2	98.0	96.5	95.1	93.3
UNC Pembroke	1,171,508	97.0	100.0	100.0	99.2	90.5
Subtotal	5,586,097					
Subtotal Percentage		91.2	90.7	39.8	98.7	80.8
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	134,172	5.8	0.0	0.0	0.0	23.1
Subtotal	134,172					
Subtotal Percentage		5.8	0.0	0.0	0.0	23.1
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	748,789	87.3	100.0	100.0	99.0	89.1
Subtotal	748,789					
Subtotal Percentage		87.3	100.0	100.0	99.0	89.1
Schools of Art, Music, & Design						
UNC School of the Arts	777,893	93.3	-	100.0	93.7	84.8
Subtotal	777,893					
Subtotal Percentage		93.3	-	100.0	93.7	84.8
Teaching Hospitals						
UNC Hospitals	1,194,183	100.0	100.0	85.3	-	-
Subtotal	1,194,183					
Subtotal Percentage		100.0	100.0	85.3	-	-
Grand Total	45,373,676					
Grand Total Percentage		92.6	88.3	79.0	95.4	87.1

Table 25. (Continued) Percentage Distribution of Accessible Area by Summary Programs

Institution	Inst. Admin. 60	Physical Plant 70	Indep. Opns. 90	Un-assigned 00
Doctoral Universities: Very High Research Activity				
NC State	85.4	85.9	92.1	64.9
NC State Veterinary Med	89.0	97.0	100	0.0
UNC-Chapel Hill	100.0	100	100.0	95.0
UNC-Chapel Hill Hlth Aff.	100.0	100.0	100	79.4
Subtotal Percentage	92.5	94.7	95.7	76.6
Doctoral Universities: High Research Activity				
East Carolina	64.9	27.8	100	5.4
East Carolina Hlth Aff.	85.0	79.8	-	10
N.C. A&T	99.5	78.2	100	84.9
UNC Charlotte	94.1	86.1	-	97.3
UNC Greensboro	89.0	69.9	100.0	72.3
UNC Wilmington	94.3	99	73.0	76.9
Subtotal Percentage	87.5	65.2	92.3	65.6
Doctoral/Professional Universities				
Western Carolina	56.6	98.4	100	100
Winston-Salem	67.9	95.8	100	62.7
Subtotal Percentage	60.8	97.7	100.0	85.4
Master's Colleges & Universities: Larger/Medium Programs				
Appalachian	82.3	84.8	100	100
Fayetteville	96.8	100	88.0	94.8
NCCU	82.5	79.0	99.4	87.5
UNC Pembroke	97.5	99.9	-	-
Subtotal Percentage	88.4	89.8	96.0	92.1
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0.0	0.2	0.0	-
Subtotal Percentage	0.0	0.2	0.0	-
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	81.7	100	-	52.5
Subtotal Percentage	81.7	100	-	52.5
Schools of Art, Music, & Design				
UNC School of the Arts	88.6	96.6	100	92.9
Subtotal Percentage	88.6	96.6	100	92.9
Teaching Hospitals				
UNC Hospitals	100	98.5	100	100
Subtotal Percentage	100	98.5	100	100
Grand Total Percentage	86.3	80.9	93.2	78.5

**Table 25a. Accessible Area by Instruction, Research,
and Public Service Subprograms**

Institution	General Academic Instruction 11	Vocational Technical Instruction 12	Preparatory Remedial Instruction 13	General Studies 14	Occupational Related Instruction 15	Social Roles Instruction 16	Home & Family Life 17
Doctoral Universities: Very High Research Activity							
NC State	91.0	-	-	100.0	-	-	-
NC State Veterinary Med	88.7	-	-	-	-	-	-
UNC-Chapel Hill	100.0	-	-	100.0	100.0	-	-
UNC-Chapel Hill Hlth Aff.	100.0	-	100.0	100.0	100.0	-	-
Subtotal Percentage	96.0	-	100.0	100.0	100.0	-	-
Doctoral Universities: High Research Activity							
East Carolina	92.0	-	100.0	-	-	-	-
East Carolina Hlth Aff.	86.1	-	-	-	100.0	-	-
N.C. A&T	92.7	-	-	-	-	-	-
UNC Charlotte	96.8	-	-	100.0	-	-	-
UNC Greensboro	95.0	-	0.0	-	-	-	-
UNC Wilmington	96.4	-	-	100.0	-	-	-
Subtotal Percentage	93.9	-	28.6	100.0	100.0	-	-
Doctoral/Professional Universities							
Western Carolina	94.7	-	-	100.0	-	-	-
Winston-Salem	91.1	-	100.0	-	-	-	-
Subtotal Percentage	93.4	-	-	100.0	-	-	-
Master's Colleges & Universities: Larger/Medium Programs							
Appalachian	87.4	-	-	-	-	-	-
Fayetteville	100.0	-	-	100.0	-	-	-
NCCU	90.2	-	-	-	-	-	-
UNC Pembroke	97.0	-	100.0	97.1	100.0	-	-
Subtotal Percentage	91.2	-	100.0	97.9	100.0	-	-
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	5.9	-	-	0.0	-	-	-
Subtotal Percentage	5.9	-	-	0.0	-	-	-
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	87.2	-	-	100.0	-	-	-
Subtotal Percentage	87.2	-	-	100.0	-	-	-
Schools of Art, Music, & Design							
UNC School of the Arts	93.3	-	-	-	-	-	-
Subtotal Percentage	93.3	-	-	-	-	-	-
Teaching Hospitals							
UNC Hospitals	100.0	-	-	100.0	-	-	-
Subtotal Percentage	100.0	-	-	100.0	-	-	-
Grand Total Percentage	92.6	-	90.7	96.9	100.0	-	-

**Table 25a. (Continued) Accessible Area by Instruction, Research,
and Public Service Subprograms**

Institution	Personal Leisure Instruction 18	Institutes & Research Centers 21	Individual or Project Research 22	Direct Patient Care 31
Doctoral Universities: Very High Research Activity				
NC State	-	68.1	81.4	-
NC State Veterinary Med	-	-	93.3	94.6
UNC-Chapel Hill	-	96.3	100.0	100.0
UNC-Chapel Hill Hlth Aff.	-	100.0	100.0	100.0
Subtotal Percentage	-	71.6	90.4	97.9
Doctoral Universities: High Research Activity				
East Carolina	-	16.4	90.2	-
East Carolina Hlth Aff.	-	100.0	97.4	65.6
N.C. A&T	-	98.5	77.8	-
UNC Charlotte	-	99.1	99.5	-
UNC Greensboro	-	-	92.0	100.0
UNC Wilmington	-	98.9	100.0	100.0
Subtotal Percentage	-	92.9	93.0	66.0
Doctoral/Professional Universities				
Western Carolina	100.0	83.7	100.0	-
Winston-Salem	-	100.0	100.0	-
Subtotal Percentage	100.0	91.6	100.0	-
Master's Colleges & Universities: Larger/Medium Programs				
Appalachian	-	100.0	62.0	100.0
Fayetteville	-	-	100.0	-
NCCU	-	99.0	96.4	-
UNC Pembroke	-	-	100.0	-
Subtotal Percentage	0.0	99.2	85.3	100.0
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0.0	0.0	0.0	-
Subtotal Percentage	0.0	0.0	0.0	-
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	-	-	100.0	-
Subtotal Percentage	-	-	100.0	-
Schools of Art, Music, & Design				
UNC School of the Arts	-	-	-	-
Subtotal Percentage	-	-	-	-
Teaching Hospitals				
UNC Hospitals	-	-	100.0	79.7
Subtotal Percentage	-	-	100.0	79.7
Grand Total Percentage	63.6	78.3	90.7	79.0

**Table 25a. (Continued) Accessible Area by Instruction, Research,
and Public Service Subprograms**

Institution	Health Care Services 32	Community Services 33	Cooperative Extension Services 34	Public Broadcasting Services 35
Doctoral Universities: Very High Research Activity				
NC State	-	89.3	53.3	100.0
NC State Veterinary Med	97.5	-	100.0	-
UNC-Chapel Hill	100.0	100.0	100.0	100.0
UNC-Chapel Hill Hlth Aff.	99.9	100.0	100.0	-
Subtotal Percentage	99.2	91.2	53.9	100.0
Doctoral Universities: High Research Activity				
East Carolina	67.0	100.0	-	96.6
East Carolina Hlth Aff.	47.4	100.0	-	-
N.C. A&T	-	98.1	93.3	100.0
UNC Charlotte	-	99.8	-	-
UNC Greensboro	-	68.1	-	-
UNC Wilmington	100.0	98.8	-	-
Subtotal Percentage	50.4	98.5	93.3	98.0
Doctoral/Professional Universities				
Western Carolina	100.0	100.0	-	100.0
Winston-Salem	-	86.4	-	100.0
Subtotal Percentage	-	93.9	-	-
Master's Colleges & Universities: Larger/Medium Programs				
Appalachian	-	20.5	-	-
Fayetteville	-	100.0	-	100.0
NCCU	-	100.0	-	94.7
UNC Pembroke	-	100.0	-	-
Subtotal Percentage	-	25.0	-	94.9
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	-	0.0	-	-
Subtotal Percentage	-	0.0	-	-
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	-	100.0	-	100.0
Subtotal Percentage	-	100.0	-	100.0
Schools of Art, Music, & Design				
UNC School of the Arts	-	100.0	-	-
Subtotal Percentage	-	100.0	-	-
Teaching Hospitals				
UNC Hospitals	89.1	-	-	-
Subtotal Percentage	89.1	-	-	-
Grand Total Percentage	83.4	82.0	56.1	98.4

Table 25b. Accessible Area by Academic Support Subprograms

Institution	Library Services 41	Museums & Galleries 42	Educational & Media Services 43	Academic Computing Support 44
Doctoral Universities: Very High Research Activity				
NC State	99.1	100.0	100.0	86.7
NC State Veterinary Med	100.0	-	100.0	4.0
UNC-Chapel Hill	100.0	100.0	100.0	100.0
UNC-Chapel Hill Hlth Aff.	100.0	100.0	100.0	100.0
Subtotal Percentage	99.7	100.0	100.0	90.4
Doctoral Universities: High Research Activity				
East Carolina	95.3	100.0	93.4	8.9
East Carolina Hlth Aff.	99.5	0.0	100.0	-
N.C. A&T	100.0	100.0	100.0	100.0
UNC Charlotte	99.4	98.7	98.2	99.9
UNC Greensboro	84.9	100.0	26.2	84.0
UNC Wilmington	99.8	100.0	100.0	99.2
Subtotal Percentage	96.4	95.4	69.5	91.3
Doctoral/Professional Universities				
Western Carolina	100.0	77.5	57.6	18.4
Winston-Salem	100.0	92.9	100.0	100.0
Subtotal Percentage	100.0	-	80.2	74.3
Master's Colleges & Universities: Larger/Medium Programs				
Appalachian	100.0	-	-	100.0
Fayetteville	100.0	100.0	100.0	100.0
NCCU	99.3	100.0	100.0	100.0
UNC Pembroke	99.6	100.0	100.0	-
Subtotal Percentage	99.8	100.0	100.0	100.0
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0.0	-	0.0	0.0
Subtotal Percentage	0.0	-	0.0	0.0
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	100.0	100.0	-	100.0
Subtotal Percentage	100.0	100.0	-	100.0
Schools of Art, Music, & Design				
UNC School of the Arts	100.0	100.0	100.0	42.2
Subtotal Percentage	100.0	100.0	100.0	42.2
Teaching Hospitals				
UNC Hospitals	-	-	-	-
Subtotal Percentage	-	-	-	-
Grand Total Percentage	96.0	95.9	84.9	86.9

Table 25b. (Continued) Accessible Area by Academic Support Subprograms

Institution	Ancillary Support 45	Academic Admin. 46	Course & Curriculum Dev. 47	Academic Personnel Dev. 48
Doctoral Universities: Very High Research Activity				
NC State	59.5	96.8	100.0	100.0
NC State Veterinary Med	100.0	98.7	-	-
UNC-Chapel Hill	100.0	100.0	100.0	100.0
UNC-Chapel Hill Hlth Aff.	100.0	100.0	100.0	100.0
Subtotal Percentage	97.1	98.6	100.0	100.0
Doctoral Universities: High Research Activity				
East Carolina	100.0	89.4	-	-
East Carolina Hlth Aff.	100.0	99.4	-	-
N.C. A&T	95.2	87.3	-	-
UNC Charlotte	-	98.9	-	-
UNC Greensboro	97.9	93.1	-	100.0
UNC Wilmington	100.0	99.7	100.0	100.0
Subtotal Percentage	96.1	95.8	100.0	100.0
Doctoral/Professional Universities				
Western Carolina	100.0	93.0	-	100.0
Winston-Salem	100.0	93.9	-	-
Subtotal Percentage	100.0	93.4	-	100.0
Master's Colleges & Universities: Larger/Medium Programs				
Appalachian	100.0	100.0	100.0	-
Fayetteville	100.0	100.0	-	-
NCCU	59.1	93.4	-	100.0
UNC Pembroke	100.0	98.8	-	100.0
Subtotal Percentage	88.1	98.2	100.0	100.0
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0.0	0.0	-	0.0
Subtotal Percentage	0.0	0.0	-	0.0
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	87.5	100.0	-	-
Subtotal Percentage	87.5	100.0	-	-
Schools of Art, Music, & Design				
UNC School of the Arts	100.0	65.4	-	-
Subtotal Percentage	100.0	65.4	-	-
Teaching Hospitals				
UNC Hospitals	-	-	-	-
Subtotal Percentage	-	-	-	-
Grand Total Percentage	93.3	96.4	100.0	98.0

Table 25c. Accessible Area by Student Service and Physical Plant Operations Subprograms

Institution	Student Svcs Admin 51	Social & Cultural Dev. 52	Couns / Career Guid. 53	Finan. Aid Admin. 54	Student Aux. Svcs 55	Inter- coll Athl. 56
Doctoral Universities: Very High Research Activity						
NC State	99.6	96.1	99.3	100.0	74.4	99.0
NC State Veterinary Med	-	-	-	-	100.0	-
UNC-Chapel Hill	100.0	100.0	100.0	100.0	100.0	100.0
UNC-Chapel Hill Hlth Aff.	100.0	100.0	100.0	100.0	100.0	-
Subtotal Percentage	99.8	98.0	99.6	100.0	88.2	99.6
Doctoral Universities: High Research Activity						
East Carolina	93.7	86.5	70.5	100.0	99.5	83.3
East Carolina Hlth Aff.	-	-	-	-	51.9	-
N.C. A&T	77.8	92.5	100.0	100.0	79.0	69.0
UNC Charlotte	99.8	99.0	86.3	100.0	96.4	97.1
UNC Greensboro	96.1	94.3	100.0	-	84.2	83.4
UNC Wilmington	99.5	84.3	100.0	100.0	97.6	88.9
Subtotal Percentage	95.1	91.9	91.5	99.7	92.5	84.9
Doctoral/Professional Universities						
Western Carolina	100.0	98.6	100.0	100.0	62.9	94.4
Winston-Salem	77.1	100.0	100.0	100.0	90.2	100.0
Subtotal Percentage	85.3	99.0	100.0	100.0	74.1	96.5
Master's Colleges & Universities: Larger/Medium Programs						
Appalachian	100.0	99.4	100.0	97.0	66.7	100.0
Fayetteville	100.0	43.7	100.0	100.0	63.5	98.2
NCCU	100.0	94.0	85.1	100.0	94.5	80.7
UNC Pembroke	99.9	69.9	100.0	100.0	91.8	96.9
Subtotal Percentage	100.0	88.1	94.3	98.5	77.2	95.9
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	86.1	36.3	45.2	0.0	23.9	0.0
Subtotal Percentage	86.1	36.3	45.2	0.0	23.9	0.0
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	100.0	100.0	100.0	100.0	86.8	95.1
Subtotal Percentage	100.0	100.0	100.0	100.0	86.8	95.1
Schools of Art, Music, & Design						
UNC School of the Arts	100.0	93.0	100.0	100.0	81.9	-
Subtotal Percentage	100.0	93.0	100.0	100.0	81.9	-
Teaching Hospitals						
UNC Hospitals	-	-	-	-	-	-
Subtotal Percentage	-	-	-	-	-	-
Grand Total Percentage	96.0	91.2	95.0	96.2	85.4	92.1

Table 25c. (Continued) Accessible Area by Student Service and Physical Plant Operations Subprograms

Institution	Student Hlth/Med Svc. 57	Phys. Plant Admin. 71	Bldg. Maint. 72	Cust'l Svcs. 73	Utilities 74	Landscp Grounds Maint. 75
Doctoral Universities: Very High Research Activity						
NC State	98.5	100.0	100.0	100.0	82.7	71.2
NC State Veterinary Med	-	-	96.9	100.0	92.2	100.0
UNC-Chapel Hill	100.0	100.0	100.0	100.0	100.0	100.0
UNC-Chapel Hill Hlth Aff.	-	-	100.0	100.0	100.0	100.0
Subtotal Percentage	99.1	100.0	99.6	100.0	94.9	85.1
Doctoral Universities: High Research Activity						
East Carolina	91.5	57.5	9.2	90.1	-	63.1
East Carolina Hlth Aff.	-	0.0	-	100.0	100.0	0.0
N.C. A&T	31.0	100.0	87.7	70.2	8.1	100.0
UNC Charlotte	85.5	80.0	87.2	94.2	68.4	-
UNC Greensboro	100.0	98.0	98.6	63.1	62.5	36.2
UNC Wilmington	98.8	98.9	99.8	96.1	100.0	100.0
Subtotal Percentage	81.0	85.0	63.7	90.5	73.2	45.5
Doctoral/Professional Universities						
Western Carolina	100.0	100.0	87.8	100.0	100.0	100.0
Winston-Salem	100.0	93.2	98.8	96.6	100.0	100.0
Subtotal Percentage	100.0	98.6	91.8	97.3	100.0	-
Master's Colleges & Universities: Larger/Medium Programs						
Appalachian	100.0	97.3	81.8	-	100.0	-
Fayetteville	100.0	100.0	100.0	100.0	100.0	100.0
NCCU	82.4	57.2	82.5	100.0	100.0	100.0
UNC Pembroke	100.0	99.7	100.0	100.0	100.0	100.0
Subtotal Percentage	97.6	94.6	86.0	66.3	100.0	100.0
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.0	0.0	0.0	0.0	0.5	-
Subtotal Percentage	0.0	0.0	0.0	0.0	0.5	-
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	100.0	100.0	100.0	-	100.0	-
Subtotal Percentage	100.0	100.0	100.0	-	100.0	-
Schools of Art, Music, & Design						
UNC School of the Arts	44.6	82.5	100.0	100.0	-	100.0
Subtotal Percentage	44.6	82.5	100.0	100.0	-	100.0
Teaching Hospitals						
UNC Hospitals	-	-	100.0	94.3	-	-
Subtotal Percentage	-	-	100.0	94.3	-	-
Grand Total Percentage	88.5	94.1	75.9	90.4	79.9	76.4

**Table 25d. Accessible Area by Institutional Administration,
Independent Operations and Unassigned Subprograms**

Institution	Exec. Mgmt 61	Fin. Mgmt 62	Gen Ad Log Svc 63	Admin Comp 64	Fac/Stf Aux. Svcs 65	P.R. Devel. 66
Doctoral Universities: Very High Research Activity						
NC State	100.0	98.0	98.9	60.9	59.2	97.0
NC State Veterinary Med	-	100.0	100.0	31.6	100.0	-
UNC-Chapel Hill	2.6	56.5	27.5	1.9	12.1	0.4
UNC-Chapel Hill Hlth Aff.	100.0	100.0	100.0	100.0	100.0	100.0
Subtotal Percentage	54.9	78.4	71.0	31.0	51.4	51.0
Doctoral Universities: High Research Activity						
East Carolina	77.4	25.7	79.7	96.2	96.5	88.3
East Carolina Hlth Aff.	100.0	72.0	91.7	100.0	-	100.0
N.C. A&T	100.0	100.0	99.9	94.3	100.0	100.0
UNC Charlotte	97.0	75.7	90.8	98.8	100.0	100.0
UNC Greensboro	99.8	100.0	94.8	99.3	44.7	87.8
UNC Wilmington	76.5	98.6	95.8	99.4	100.0	97.4
Subtotal Percentage	85.8	51.8	94.6	97.8	73.1	94.8
Doctoral/Professional Universities						
Western Carolina	77.1	100.0	100.0	97.3	6.5	81.0
Winston-Salem	90.4	69.9	62.6	97.5	51.5	63.3
Subtotal Percentage	83.3	82.5	78.2	97.4	17.8	76.3
Master's Colleges & Universities: Larger/Medium Programs						
Appalachian	100.0	90.8	80.1	100.0	91.7	81.3
Fayetteville	98.0	100.0	100.0	78.4	98.4	69.4
NCCU	100.0	100.0	60.6	97.2	100.0	100.0
UNC Pembroke	100.0	100.0	99.7	93.9	100.0	64.8
Subtotal Percentage	99.6	96.4	83.2	96.5	97.1	81.1
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal Percentage	0.0	0.0	0.0	0.0	0.0	0.0
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	100.0	100.0	98.8	100.0	39.4	100.0
Subtotal Percentage	100.0	100.0	98.8	100.0	39.4	100.0
Schools of Art, Music, & Design						
UNC School of the Arts	88.3	100.0	93.7	100.0	100.0	35.8
Subtotal Percentage	88.3	100.0	93.7	100.0	100.0	35.8
Teaching Hospitals						
UNC Hospitals	100.0	100.0	100.0	100.0	100.0	100.0
Subtotal Percentage	100.0	100.0	100.0	100.0	100.0	100.0
Grand Total Percentage	78.4	71.9	84.7	65.4	54.2	68.8

**Table 25d. (Cont'd) Accessible Area by Institutional Administration,
Independent Operations and Unassigned Subprograms**

Institution	Stud't Admiss 67	Stud't Records 68	Ind. Operations		Unassigned	
			Inst. 91	Ext. Agency 92	Usable 01	Unusable 02
Doctoral Universities: Very High Research Activity						
NC State	100.0	-	78.4	92.4	69.0	63.6
NC State Veterinary Med	-	-	-	100.0	0.0	-
UNC-Chapel Hill	0.4	49.9	100.0	100.0	100.0	90.6
UNC-Chapel Hill Hlth Aff.	100.0	100.0	100.0	100.0	77.4	100.0
Subtotal Percentage	64.1	66.6	98.8	95.0	81.5	72.8
Doctoral Universities: High Research Activity						
East Carolina	60.3	77.5	-	100.0	-	5.4
East Carolina Hlth Aff.	-	100.0	-	-	100.0	-
N.C. A&T	100.0	100.0	100.0	100.0	45.6	97.2
UNC Charlotte	100.0	100.0	-	-	89.6	99.8
UNC Greensboro	98.0	74.0	-	100.0	100.0	70.9
UNC Wilmington	100.0	99.4	36.0	86.2	100.0	65.5
Subtotal Percentage	94.4	91.8	61.5	96.7	89.7	61.0
Doctoral/Professional Universities						
Western Carolina	100.0	100.0	100.0	100.0	100.0	100.0
Winston-Salem	100.0	100.0	100.0	100.0	53.1	100.0
Subtotal Percentage	100.0	100.0	-	100.0	61.6	100.0
Master's Colleges & Universities: Larger/Medium Programs						
Appalachian	85.4	17.0	100.0	100.0	-	100.0
Fayetteville	100.0	100.0	45.5	100.0	86.5	100.0
NCCU	100.0	100.0	100.0	99.4	79.2	88.8
UNC Pembroke	100.0	100.0	-	-	-	-
Subtotal Percentage	91.9	50.9	76.6	99.7	85.1	94.8
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.0	0.0	-	0.0	-	-
Subtotal Percentage	0.0	0.0	-	0.0	-	-
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	100.0	100.0	-	-	47.2	65.4
Subtotal Percentage	100.0	100.0	-	-	47.2	65.4
Schools of Art, Music, & Design						
UNC School of the Arts	100.0	100.0	100.0	-	87.7	100.0
Subtotal Percentage	100.0	100.0	100.0	-	87.7	100.0
Teaching Hospitals						
UNC Hospitals	-	-	-	100.0	100.0	100.0
Subtotal Percentage	-	-	-	100.0	100.0	100.0
Grand Total Percentage	81.3	80.0	89.1	94.1	78.3	78.7

Table 26: Accessible Area by Room Codes

Table 26 indicates for each of the ten summary room codes the amount and percentage of assignable area that is accessible to people with mobility impairments. It represents an additional source of information which, when viewed in conjunction with Tables 25-25d, creates a detailed profile of the accessible space on a campus.

Table 26. Accessible Area by Room Codes

Institution	Total Accessible Area	Classroom Facilities 100		Laboratory Facilities 200		Office Facilities 300	
		ASF	%	ASF	%	ASF	%
Doctoral Universities: Very High Research Activity							
NC State	7,707,220	258,879	99.7	1,599,723	96.8	1,901,365	97.2
NC State Veterinary Med	425,851	7,596	97.9	97,685	95.5	95,992	99.0
UNC-Chapel Hill	7,612,566	277,142	100.0	616,004	100.0	1,689,307	99.9
UNC-Chapel Hill Hlth Aff.	2,555,892	88,951	100.0	821,816	100.0	1,057,012	98.4
Subtotal	18,301,529	632,568		3,135,228		4,743,676	
Subtotal Percentage			99.8		98.2		98.4
Doctoral Universities: High Research Activity							
East Carolina	2,996,705	162,212	94.7	356,240	93.0	683,271	85.4
East Carolina Hlth Aff.	881,042	41,968	95.6	184,348	95.2	355,748	77.1
N.C. A&T	2,033,179	132,831	92.5	328,803	90.4	421,263	90.4
UNC Charlotte	4,007,202	230,497	90.3	586,696	99.6	944,626	97.8
UNC Greensboro	3,084,948	159,281	98.7	399,447	95.9	595,472	91.8
UNC Wilmington	2,759,526	150,645	94.6	280,223	97.6	490,946	98.1
Subtotal	15,762,602	877,434		2,135,757		3,491,326	
Subtotal Percentage			93.9		95.6		90.9
Doctoral/Professional Universities							
Western Carolina	1,710,413	98,285	94.6	221,419	97.5	328,444	97.0
Winston-Salem	1,157,998	74,426	85.7	107,183	92.4	207,230	89.7
Subtotal	2,868,411	172,711		328,602		535,674	
Subtotal Percentage			90.6		95.8		94.0
Master's Colleges & Universities: Larger/Medium Programs							
Appalachian	2,362,854	172,234	84.8	242,732	86.1	518,035	87.5
Fayetteville	777,177	54,833	99.9	60,047	100.0	179,968	89.1
NCCU	1,274,558	108,896	86.7	132,249	90.5	277,783	91.2
UNC Pembroke	1,171,508	102,131	98.7	68,671	99.7	203,686	95.5
Subtotal	5,586,097	438,094		503,699		1,179,472	
Subtotal Percentage			89.9		90.4		89.9
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	134,172	3,409	7.7	958	1.1	15,318	9.9
Subtotal	134,172	3,409		958		15,318	
Subtotal Percentage			7.7		1.1		9.9
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	748,789	69,514	86.4	56,163	82.3	111,032	91.7
Subtotal	748,789	69,514	86.36	56,163	82.33	111,032	91.69
Subtotal Percentage							
Schools of Art, Music, & Design							
UNC School of the Arts	777,893	25,694	66.9	196,200	96.1	98,140	87.2
Subtotal	777,893	25,694		196,200		98,140	
Subtotal Percentage			66.9		96.1		87.2
Teaching Hospitals							
UNC Hospitals	1,194,183	9,926	100.0	10,829	100.0	334,517	90.0
Subtotal	1,194,183	9,926		10,829		334,517	
Subtotal Percentage			100.0		100.0		90.0
Grand Total	45,373,676	2,229,350		6,367,436		10,509,155	
Grand Total Percentage			92.2		95.0		93.0

Table 26. (Continued) Accessible Area by Room Codes

Institution	Study Facilities 400		Special Use Facilities 500		General Use Facilities 600		Support Facilities 700	
	ASF	%	ASF	%	ASF	%	ASF	%
Doctoral Universities: Very High Research Activity								
NC State	359,676	97.8	1,053,176	60.0	749,602	96.1	314,196	72.4
NC State Veterinary Med	10,739	100.0	59,437	78.1	13,240	100.0	25,158	89.6
UNC-Chapel Hill	637,838	100.0	953,219	100.0	875,594	100.0	454,899	100.0
UNC-Chapel Hill Hlth Aff.	51,551	100.0	203,311	100.0	91,925	98.8	33,569	100.0
Subtotal	1,059,804		2,269,143		1,730,361		827,822	
Subtotal Percentage		99.2		75.9		98.2		87.1
Doctoral Universities: High Research Activity								
East Carolina	187,077	98.0	313,592	83.3	381,357	96.5	54,783	31.4
East Carolina Hlth Aff.	66,703	89.3	37,671	33.1	12,748	50.3	20,229	81.0
N.C. A&T	135,628	98.4	210,073	89.8	274,211	91.2	203,389	95.6
UNC Charlotte	229,207	100.0	215,988	97.3	454,146	96.6	58,948	86.9
UNC Greensboro	113,811	80.1	106,017	87.3	513,373	90.9	237,318	86.2
UNC Wilmington	126,767	99.9	220,796	89.3	244,044	93.3	76,941	94.2
Subtotal	859,193		1,104,137		1,879,879		651,608	
Subtotal Percentage		95.3		84.0		93.2		77.8
Doctoral/Professional Universities								
Western Carolina	140,694	99.9	191,215	90.7	290,037	96.2	60,427	97.2
Winston-Salem	57,534	97.6	107,020	100.0	150,509	99.1	37,373	86.7
Subtotal	198,228		298,235		440,546		97,800	
Subtotal Percentage		99.2		93.8		97.2		92.9
Master's Colleges & Universities: Larger/Medium Programs								
Appalachian	93,716	89.7	328,623	85.2	333,740	88.9	77,906	92.7
Fayetteville	66,906	98.1	72,114	99.2	71,374	63.3	17,691	91.1
NCCU	99,228	95.5	116,094	92.3	155,177	97.1	11,521	44.9
UNC Pembroke	41,382	99.8	99,132	98.2	116,476	87.4	56,425	96.6
Subtotal	301,232		615,963		676,767		163,543	
Subtotal Percentage		94.7		89.9		86.6		87.2
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	0	0.0	1,719	1.6	49,433	39.3	346	0.8
Subtotal	0		1,719		49,433		346	
Subtotal Percentage		0.0		1.6		39.3		0.8
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	37,696	92.4	87,210	95.4	97,144	93.3	16,738	98.5
Subtotal	37,696		87,210		97,144		16,738	
Subtotal Percentage		92.4		95.4		93.3		98.5
Schools of Art, Music, & Design								
UNC School of the Arts	47,673	100.0	27,368	100.0	129,940	95.0	80,671	95.1
Subtotal	47,673		27,368		129,940		80,671	
Subtotal Percentage		100.0		100.0		95.0		95.1
Teaching Hospitals								
UNC Hospitals	2,897	89.3	32,493	100.0	53,825	86.4	84,162	98.4
Subtotal	2,897		32,493		53,825		84,162	
Subtotal Percentage		89.3		100.0		86.4		98.4
Grand Total	2,506,723		4,436,268		5,057,895		1,922,690	
Grand Total Percentage		94.7		79.7		92.9		83.3

Table 26. (Continued) Accessible Area by Room Codes

Institution	Health Care Facilities 800		Residential Facilities 900		Unclassified Facilities 000	
	ASF	%	ASF	%	ASF	%
Doctoral Universities: Very High Research Activity						
NC State	37,445	99.0	1,278,770	69.0	154,388	64.2
NC State Veterinary Med	116,004	96.1	0	-	0	0.0
UNC-Chapel Hill	23,037	100.0	1,952,735	100.0	132,791	94.2
UNC-Chapel Hill Hlth Aff.	175,040	99.9	431	100.0	32,286	100.0
Subtotal	351,526		3,231,936		319,465	
Subtotal Percentage		98.5		84.9		76.3
Doctoral Universities: High Research Activity						
East Carolina	6,876	88.2	848,997	100.0	2,300	5.4
East Carolina Hlth Aff.	161,627	75.6	0	-	0	-
N.C. A&T	6,519	50.9	314,706	74.0	5,756	97.6
UNC Charlotte	5,696	73.0	1,215,501	96.6	65,897	97.3
UNC Greensboro	13,120	100.0	931,474	82.1	15,635	70.9
UNC Wilmington	14,737	100.0	1,140,663	96.1	13,764	76.9
Subtotal	208,575		4,451,341		103,352	
Subtotal Percentage		77.2		91.7		65.6
Doctoral/Professional Universities						
Western Carolina	3,246	100.0	334,626	49.7	42,020	100.0
Winston-Salem	3,213	76.0	407,514	86.9	5,996	37.1
Subtotal	6,459		742,140		48,016	
Subtotal Percentage		86.4		65.0		82.6
Master's (Comprehensive) Universities & Colleges I						
Appalachian	11,733	100.0	575,536	64.4	8,599	100.0
Fayetteville	2,319	100.0	151,208	68.5	100,717	94.6
NCCU	2,318	82.6	305,532	94.0	65,760	87.9
UNC Pembroke	4,114	100.0	479,491	91.2	0	-
Subtotal	20,484		1,511,767		175,076	
Subtotal Percentage		97.7		76.9		92.2
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0	0.0	62,989	21.3	0	-
Subtotal	0		62,989		0	
Subtotal Percentage		0.0		21.3		-
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	1,574	100.0	239,234	78.9	32,484	82.8
Subtotal	1,574		239,234		32,484	
Subtotal Percentage		100.0		78.9		82.8
Schools of Art, Music, & Design						
UNC School of the Arts	1,259	41.0	130,156	81.7	40,792	92.6
Subtotal	1,259		130,156		40,792	
Subtotal Percentage		41.0		81.7		92.6
Teaching Hospitals						
UNC Hospitals	619,856	84.2	3,785	100.0	41,893	100.0
Subtotal	619,856		3,785		41,893	
Subtotal Percentage		84.2		100.0		100.0
Grand Total	1,209,733		10,373,348		761,078	
Grand Total Percentage		86.4		82.8		80.2

Institutional Index

Institutional Index				
Institution	Level *	FICE	County	City
		Code		
Appalachian State University	4	002906	Watauga	Boone 28608
East Carolina University	2	002923	Pitt	Greenville 27858
ECU-Health Affairs	2		Pitt	Greenville 27858
Elizabeth City State University	6	002929	Pasquotank	Elizabeth City 27909
Fayetteville State University	4	002928	Cumberland	Fayetteville 28301
N. C. A&T State University	2	002905	Guilford	Greensboro 27411
N. C. Central University	4	002950	Durham	Durham 27707
N. C. State University	1	002972	Wake	Raleigh 27695
NCSU Veterinary School	1		Wake	Raleigh 27695
UNC Asheville	5	002907	Buncombe	Asheville 28804
UNC-Chapel Hill	1	002974	Orange	Chapel Hill 27599
UNC Charlotte	2	002975	Mecklenburg	Charlotte 28223
UNC Greensboro	2	002976	Guilford	Greensboro 27402
UNC-CH Health Affairs	1		Orange	Chapel Hill 27599
UNC School of the Arts	7	003981	Forsyth	Winston-Salem 27117
UNC Pembroke	4	002954	Robeson	Pembroke 28372
UNC Wilmington	2	002984	New Hanover	Wilmington 28403
Western Carolina University	3	002981	Jackson	Cullowhee 28723
Winston-Salem State University	3	002986	Forsyth	Winston-Salem 27110

* The Level Code in this index indicates the Carnegie Classification for the institution. The level codes are a "1" for Doctoral Universities: Very High Research Activity, a "2" for Doctoral Universities: High Research Activity, a "3" for Doctoral/Professional Universities, a "4" for Master's Colleges & Universities: Larger/Medium Programs, a "5" for Baccalaureate Colleges: Arts & Sciences Focus, a "6" for Baccalaureate Colleges: Diverse Fields, and a "7" for Schools of Art, Music, & Design.

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Index

- Academic administration (subprogram), 47-48, 98
- Academic computer support (subprogram), 47-48, 97
- Academic facilities, 7, 8
 - per FTE student, 7
- Academic personnel development (subprogram), 47-48, 98
- Academic support:
 - program, 39, 41, 92
 - subprograms, 47-48, 97-98
- Address, institutional, 107
- Administrative computing support (subprogram), 53-54, 101
- Age of buildings, 77-79,
- Ancillary support (subprogram), 47-48, 98
- Assignable square feet, 37-38, 89-90
 - distribution among programs, 39-55
 - distribution among room codes, 57-62
 - per student station, 23, 27-29, 63-66
 - to gross square feet (ratio), 37-38
- Assignable square feet of academic facilities: See “Academic facilities”
- Average weekly room hours of instruction:
 - in classrooms, 7-8, 25, 27-28
 - in class labs, 9-10, 25, 27-28
- Average weekly use of student stations:
 - in classrooms, 11-12, 27-28
 - in class labs, 13-14, 27-28
- Building cost, 73-75
- Building maintenance (subprogram), 49, 51, 100
- Buildings:
 - age of, 77-79
 - condition of, 81-83, 85-87
 - number of, 74-75
- Capacity/enrollment ratio, 3-5
- Class laboratories:
 - number of, 65-66
 - stations in, 65-66
 - utilization, 11-12, 15-16, 17-27
- Classrooms:
 - accessibility to mobility impaired, 103-106
 - number of, 63-64
 - space, 90, 94-95
 - stations in, 63-64
 - utilization, 9-10, 13-14, 17-27
- Clock hours: See “Student clock hours”
- Community services (subprogram), 44, 46, 96
- Condition of buildings, 81-83, 85-87
- Conference rooms, 28, 61
- Construction costs, 85-86
- Cooperative extension services (subprogram), 44, 46, 96
- Cost:
 - of construction, 85-86
 - to renovate or replace, 85-87
- Counseling & career guidance (subprogram), 49-50, 99
- Course & curriculum development (subprogram), 47-48, 98
- Custodial services (subprogram), 49, 51, 100
- Daytime instruction, 9, 13
 - in classrooms, 9-10, 13-14
 - in class labs, 11-12, 15-16
- Direct patient care (subprogram), 43, 46, 95
- Educational media services (subprogram), 47-48, 97
- Enrollments:
 - full-time equivalent (FTE), 7-8, 33-35
- Estimated replacement cost: See “Replacement value”
- Executive management (subprogram) 53-54, 101
- Extension services: See “Cooperative extension service”
- Faculty & staff auxiliary services (subprogram), 53-54, 101

FCAP, 81

Financial aid administration (subprogram), 49-50, 99

Full-time equivalent (FTE) enrollment, 7-8, 33-35

General academic instruction (subprogram), 43,45, 94

General studies, nondegree (subprogram), 43,45, 94

General use facilities, 57, 59, 61, 105

Gross square feet, 37-38, 73-75

Health care supportive services (subprogram), 44, 46, 96

Home & family life instruction, nondegree (subprogram), 43, 45, 94

High school enrollments, x, 33

Independent operations:
 program, 40, 42, 93
 subprograms, 53, 55, 102

Independent operations/external agencies (subprogram), 53, 55, 102

Independent operations/institutional (subprogram), 53, 55, 102

Individual or project research (subprogram), 43, 46, 95

Institutes & research centers (subprogram), 43, 46, 95

Institutional administration:
 program, 39, 42, 93
 subprograms, 53-54, 101-102

Instruction:
 Program, 39, 41, 92
 subprograms, 43-46, 94-95

Instructional & library space, 3-4

Intercollegiate athletics (subprogram), 49-50, 99

Laboratories, 57-58, 104
 See also "Class laboratories)

Landscape & ground maintenance (subprogram), 49, 51, 100

Libraries, 31, 47

Library service (subprogram), 47-48, 97

Limitations and special situations, ix-x

Major repairs & renovations (subprogram), 49

Medical care facilities, see Health care supportive services"

Medical schools, ix-x,

Museums & galleries (subprogram), 47-48, 97

Net-to-gross ratio, 37-38

Nighttime instruction, 9, 13
 in classrooms, 9-10, 13-14
 in class labs, 11-12, 15-16

Occupation-related instruction, nondegree (subprogram), 43-44, 94

Offices, 4, 30, 57-58, 104

Ownership of buildings, 69-71

Parking decks, x, 37

Percent student station utilization, 17-18, 23-24, 30

Personal interest & leisure instruction, nondegree (subprogram), 43, 46, 95

Physical plant administration (subprogram), 49, 51, 100

Physical plant operations:
 program, 39, 42, 93
 subprograms, 49-51, 99-100

Potential student hours of instruction, 17

Program classification structure, 39-40, 43-44, 47, 49, 53

Public broadcasting services (subprogram), 44, 46, 96

Public relations/development (subprogram), 53-54, 101

Public services:
 program, 39, 41, 92
 subprograms, 43-47, 94-96

Renovations, 85-87

Replacement value, 85-87

Requisite preparatory/remedial instruction, (subprogram), 43, 45, 94

Research:
 program, 39, 41, 92
 subprograms, 43, 46-47, 95

Residential facilities, 60-63, 106

Room codes, 61-62

Room hours of instruction, total:
 in classrooms, 9-10
 in class labs, 11-12

Section 504 of the Rehabilitation Act of 1973, 89, 108

Social & cultural development (subprogram), 70, 73-74, 115-116

Social roles/interaction instruction, nondegree (subprogram), 43, 45, 94

Space factors, 23-26

Space standards, 29-31

Special use facilities, 57-58, 61, 105

Square feet: See "Assignable square feet," "Gross square feet"

Stations: See "Student stations"

Student auxiliary services (subprograms), 49-50, 99

Student clock hours, x, 3-4, 17-19

Student financial support, 39

Student health/medical services (subprogram), 49, 51, 100

Student records (subprogram), 53-54, 102

Student recruitment & admissions (subprogram), 53-54, 102

Student services:
 program, 39, 42, 92
 subprograms, 49-51, 99-100

Student stations, 13-19, 23, 63-66
 assignable square feet per, 27-29, 63-66

Study facilities, 29, 57-58, 105

Supporting facilities, 49-51, 99-100

Unassigned space:
 program, 40, 42, 93
 subprogram, 53, 55, 102

Unclassified space, 57, 60, 106

Utilities (subprogram), 49, 51, 100

Vocational/technical instruction (subprogram), 43, 45, 94

Appendices

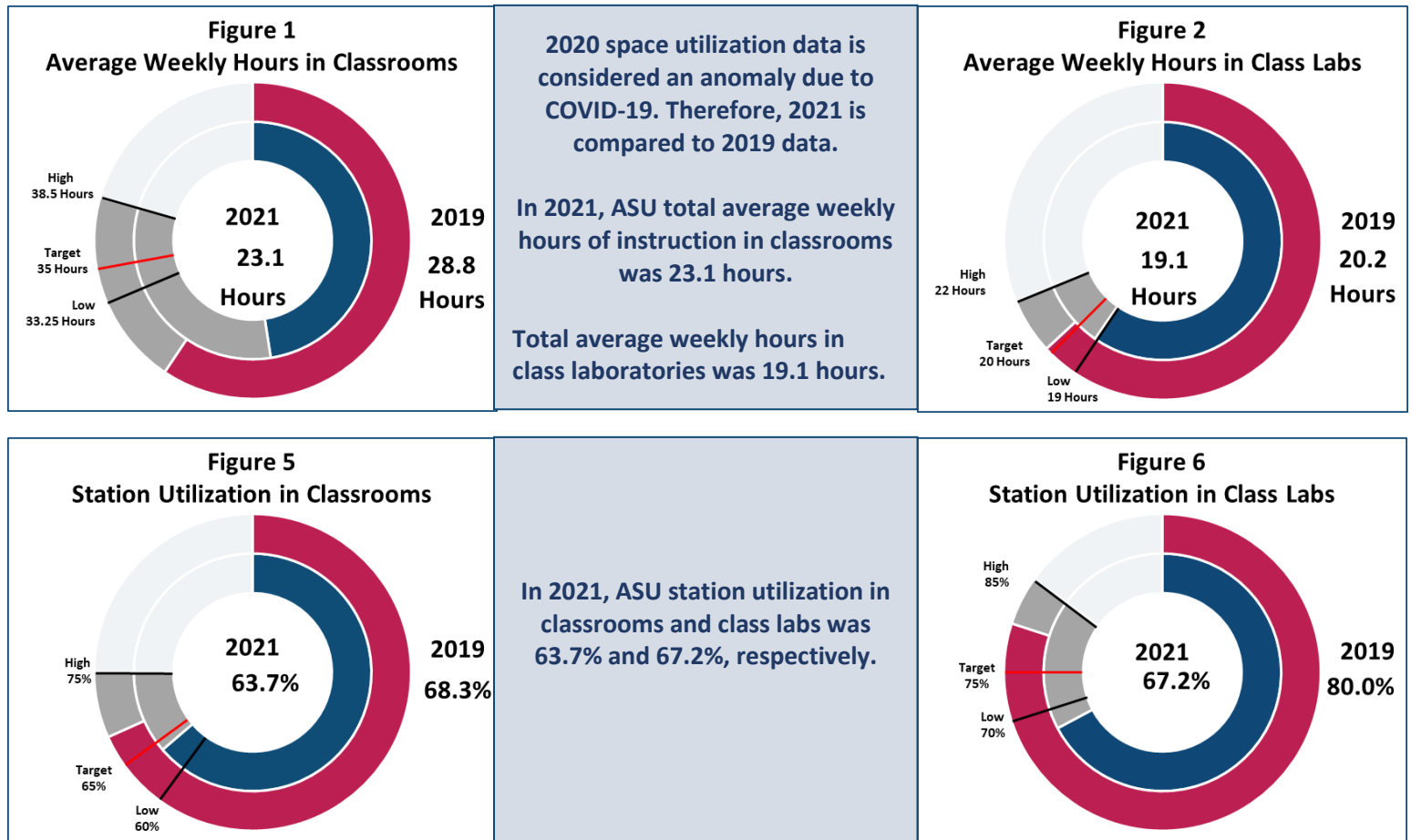
The appendices provide additional perspective on utilization of instructional space, room space characteristics, and building characteristics by institution, extending the information presented in the Executive Summary down to the campus level. For ease of comparison, figures are numbered consistently between the two sections, rather than sequentially based on order of appearance. A legend for the graphics is provided on page A65.

- Appalachian State University A1
- East Carolina University A5
- Elizabeth City State University A9
- Fayetteville State University A13
- North Carolina Agricultural & Technical State University..... A17
- North Carolina Central University A21
- North Carolina State University A25
- University of North Carolina Asheville A29
- The University of North Carolina at Chapel Hill A33
- University of North Carolina Charlotte A37
- University of North Carolina Greensboro A41
- University of North Carolina Pembroke A45
- University North Carolina Wilmington..... A49
- University of North Carolina School of the Arts..... A53
- Western Carolina University A57
- Winston-Salem State University A61
- Legend..... A65

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Appalachian State University began as a training school for teachers and has transformed, since its founding in 1899, to a premier public undergraduate institution. Located in the Blue Ridge Mountains in Boone, the university prepares students to lead purposeful lives as global citizens who understand and fulfill their responsibilities to create a sustainable future. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

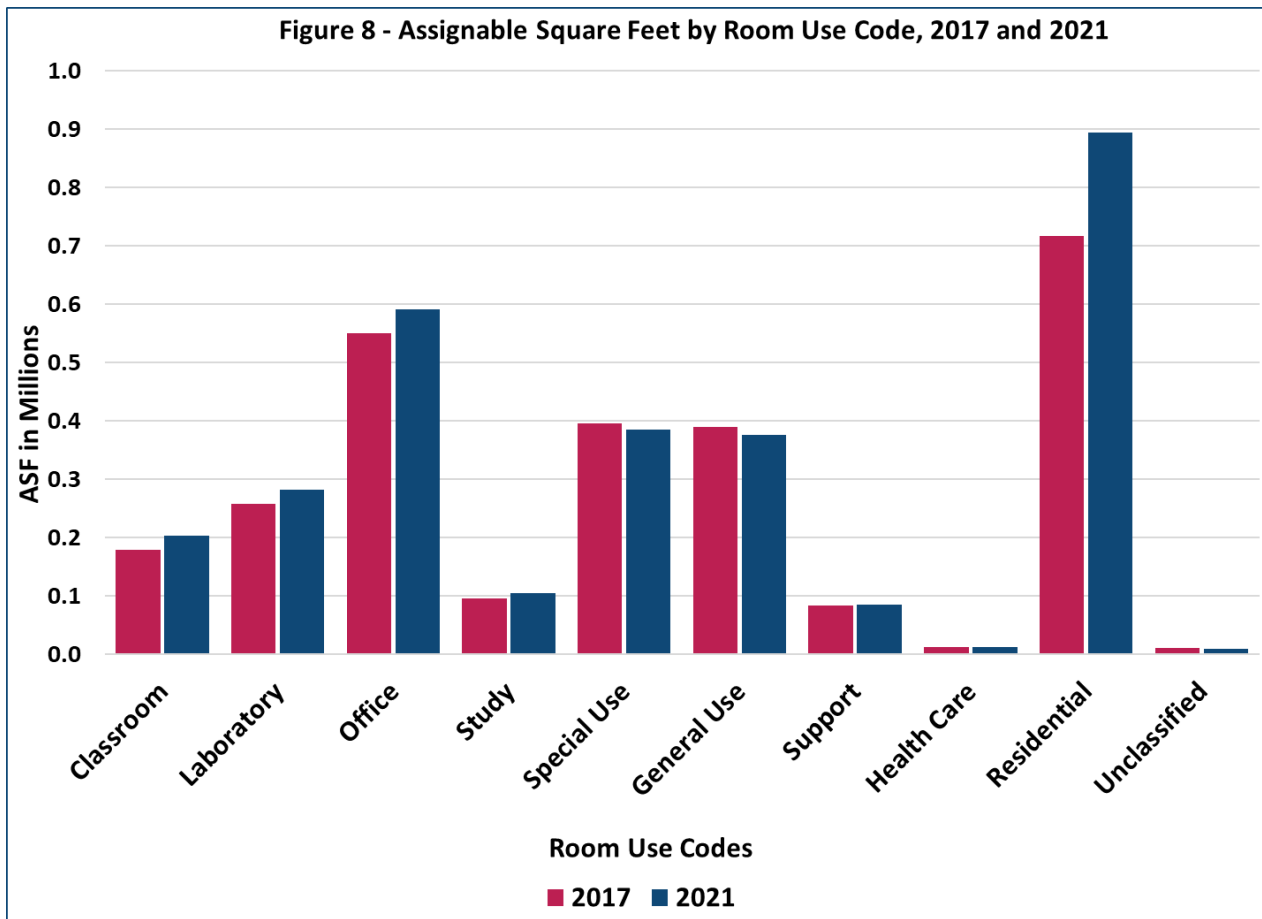
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at ASU increased from 2,902,433 to 2,940,197, or 1.3% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	905,341	30.79%	30.03%	0.76%
Research	16,463	0.56%	0.62%	-0.06%
Public Service	76,727	2.61%	2.85%	-0.24%
Student Service	1,584,307	53.88%	51.15%	2.73%
Other	357,359	12.15%	15.34%	-3.18%



Building Characteristics

Appalachian State University has 5,126,829 gross square feet of space comprised of 92 buildings (23 residential, 69 non-residential; 45 appropriated, 47 non-appropriated; 65 owned, 1 leased, 26 under other agreement terms) with 2,940,197 square feet of assignable space, having increased by 9.3% within the last five years. Since 2020, gross square footage has increased by 42,450 SF, or 0.8%.

Appalachian State University Building Characteristics	
92 Total Buildings	
	65 Owned
45 Appropriated	1 Leased
47 Non-Appropriated	26 Other Agreement
<hr/> 92 Total	<hr/> 92 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

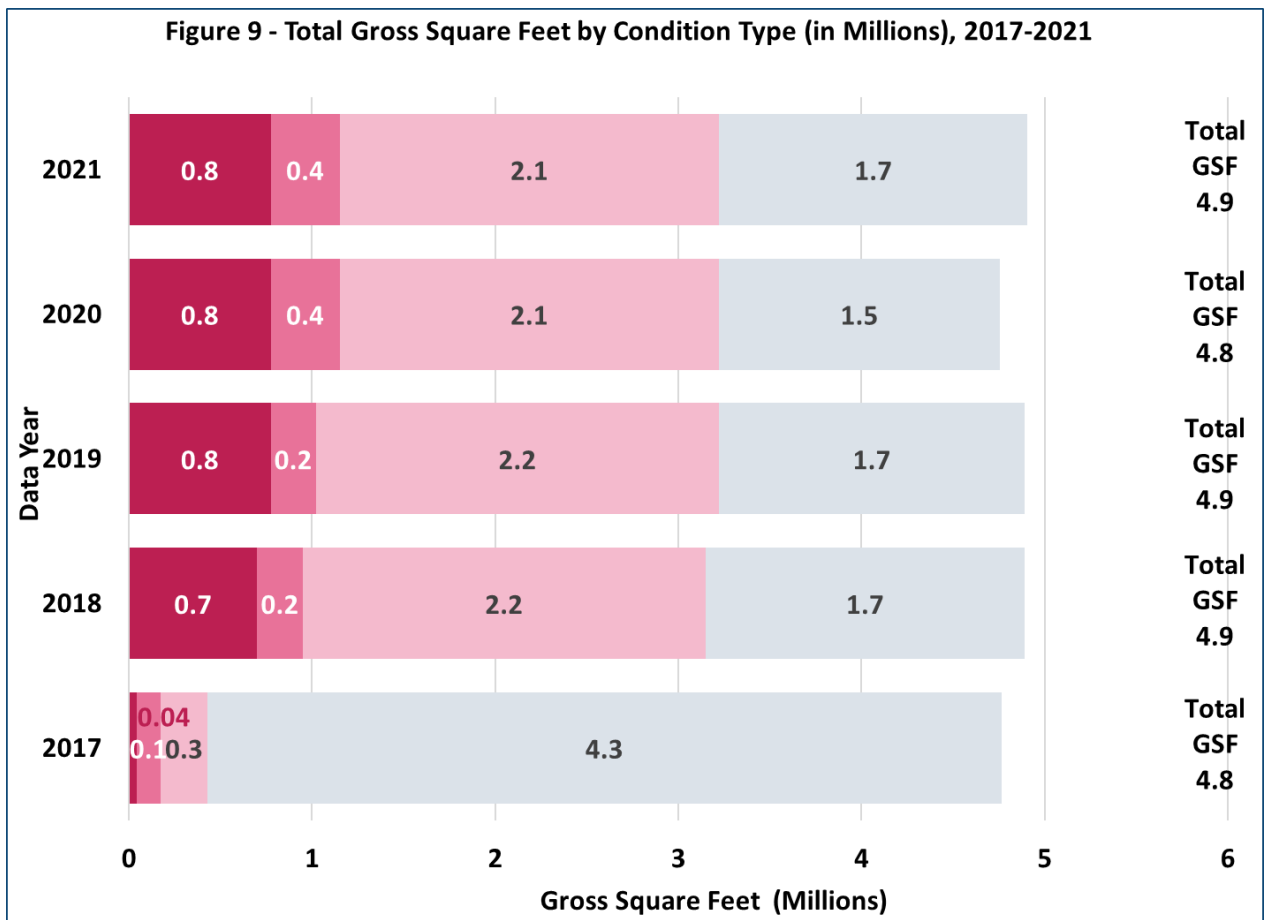
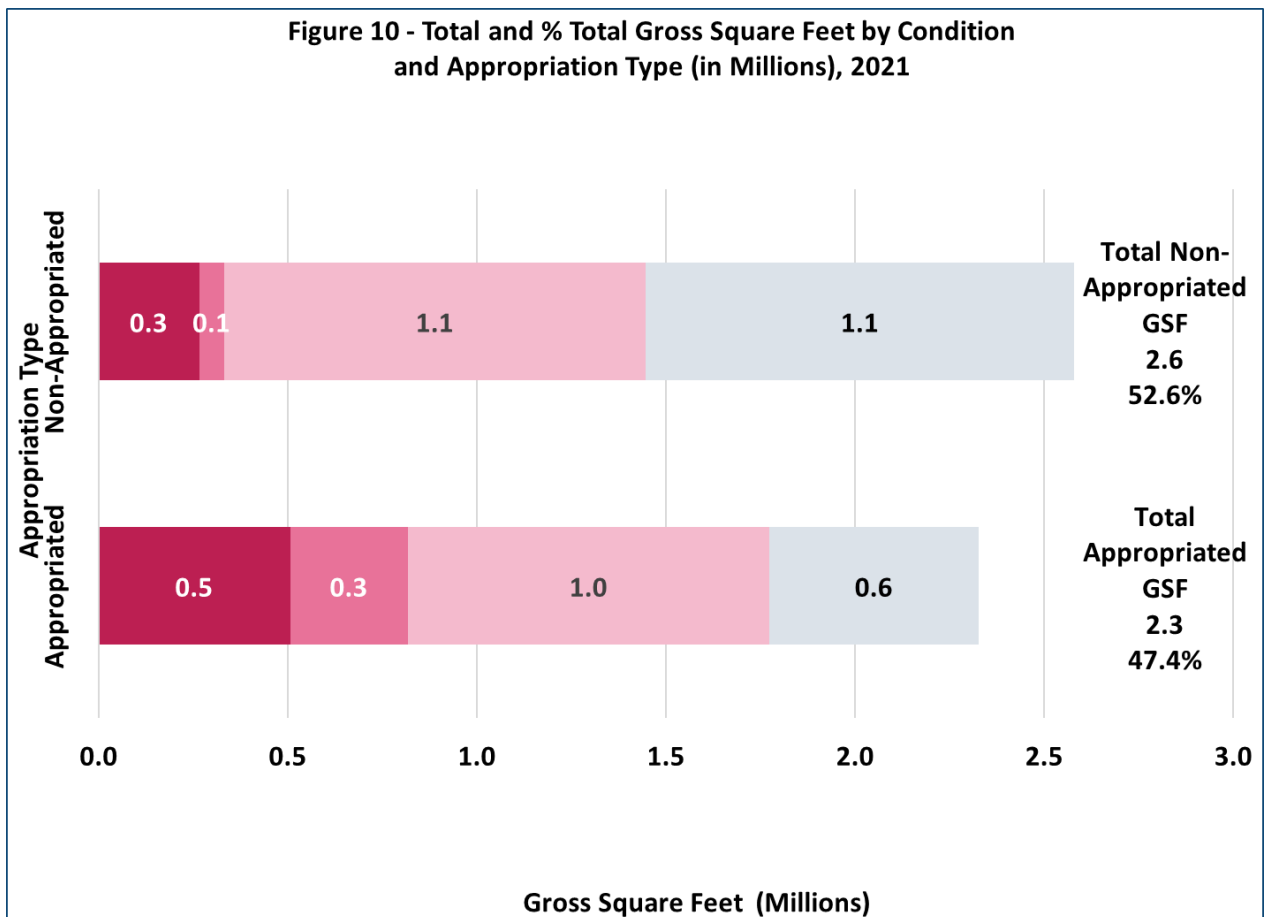
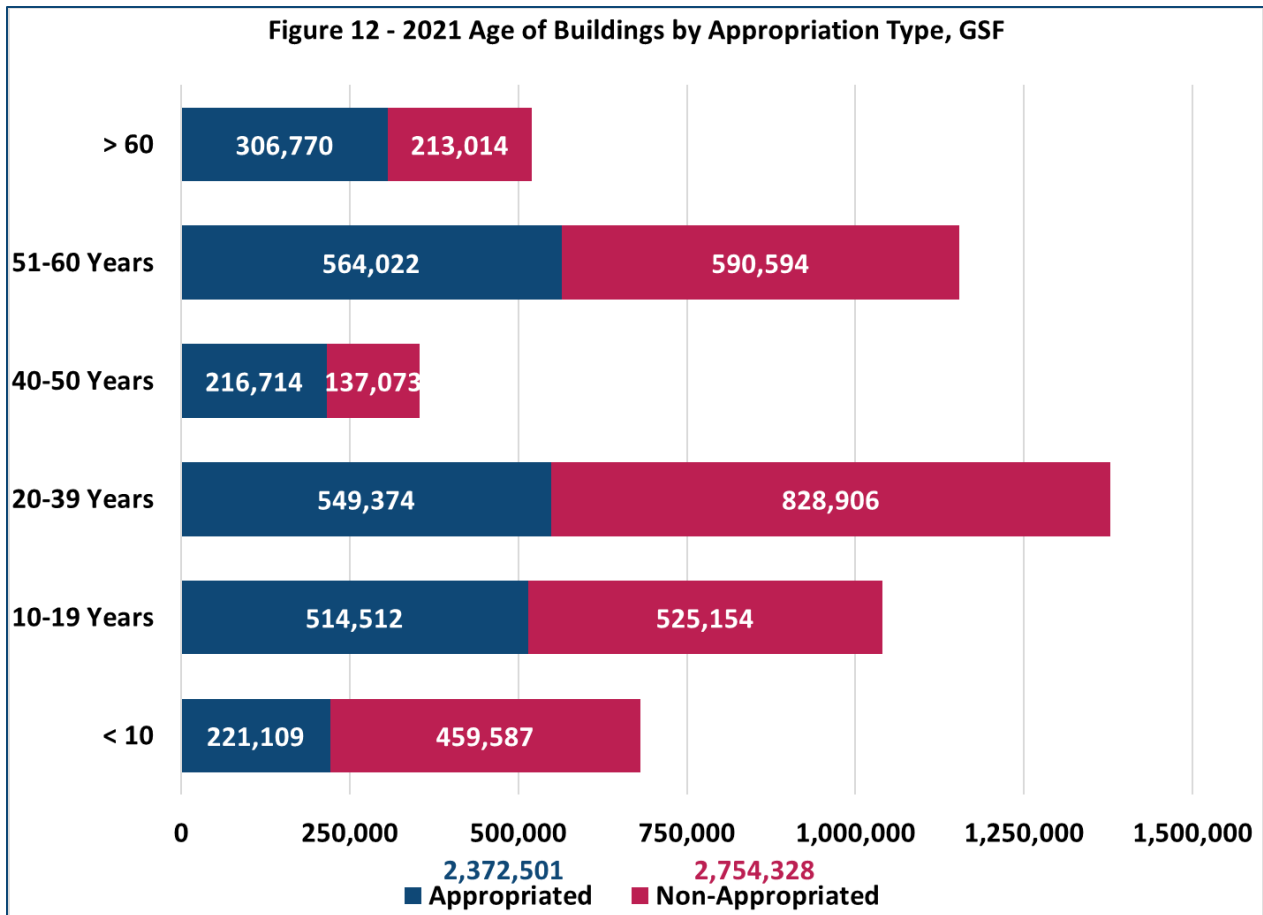
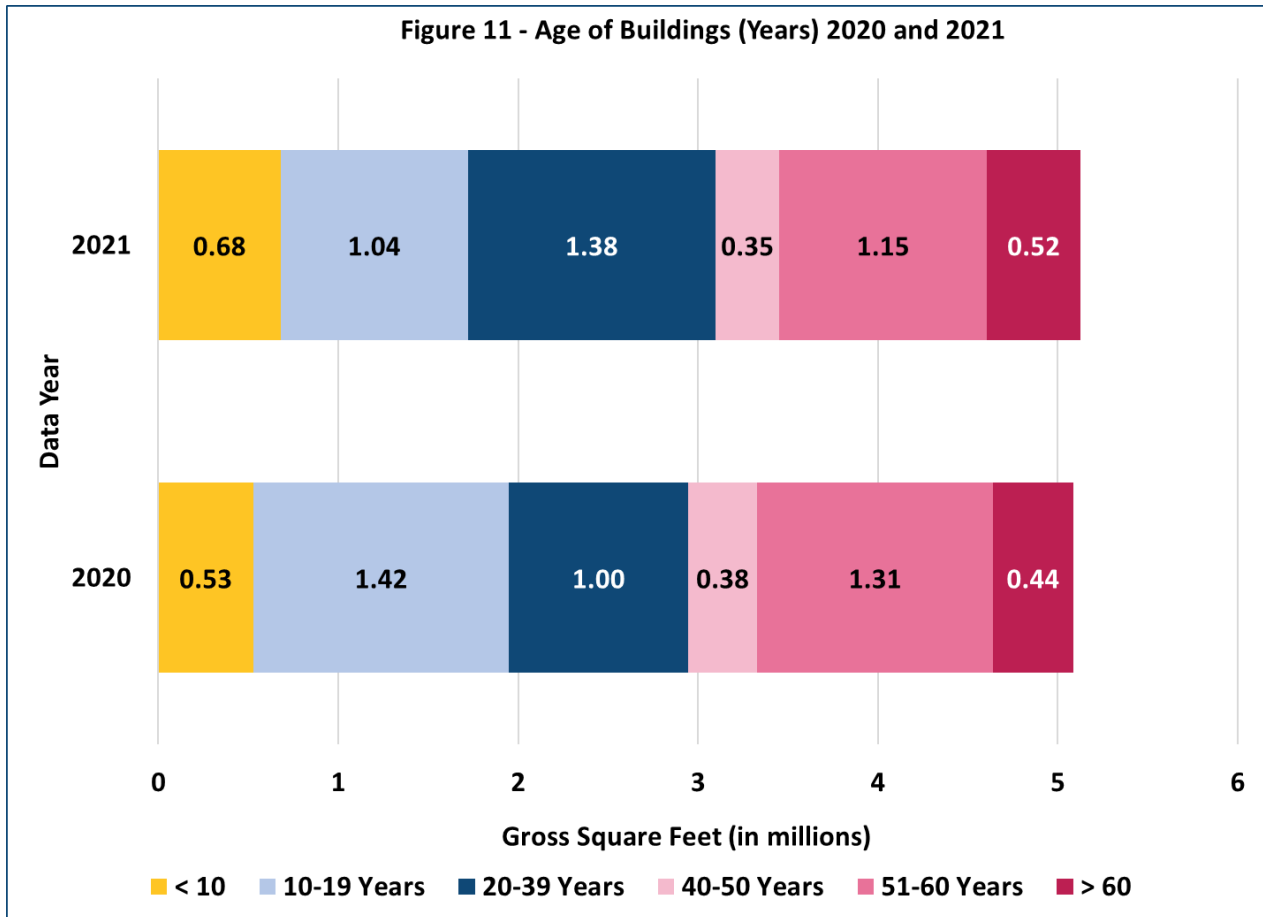


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021

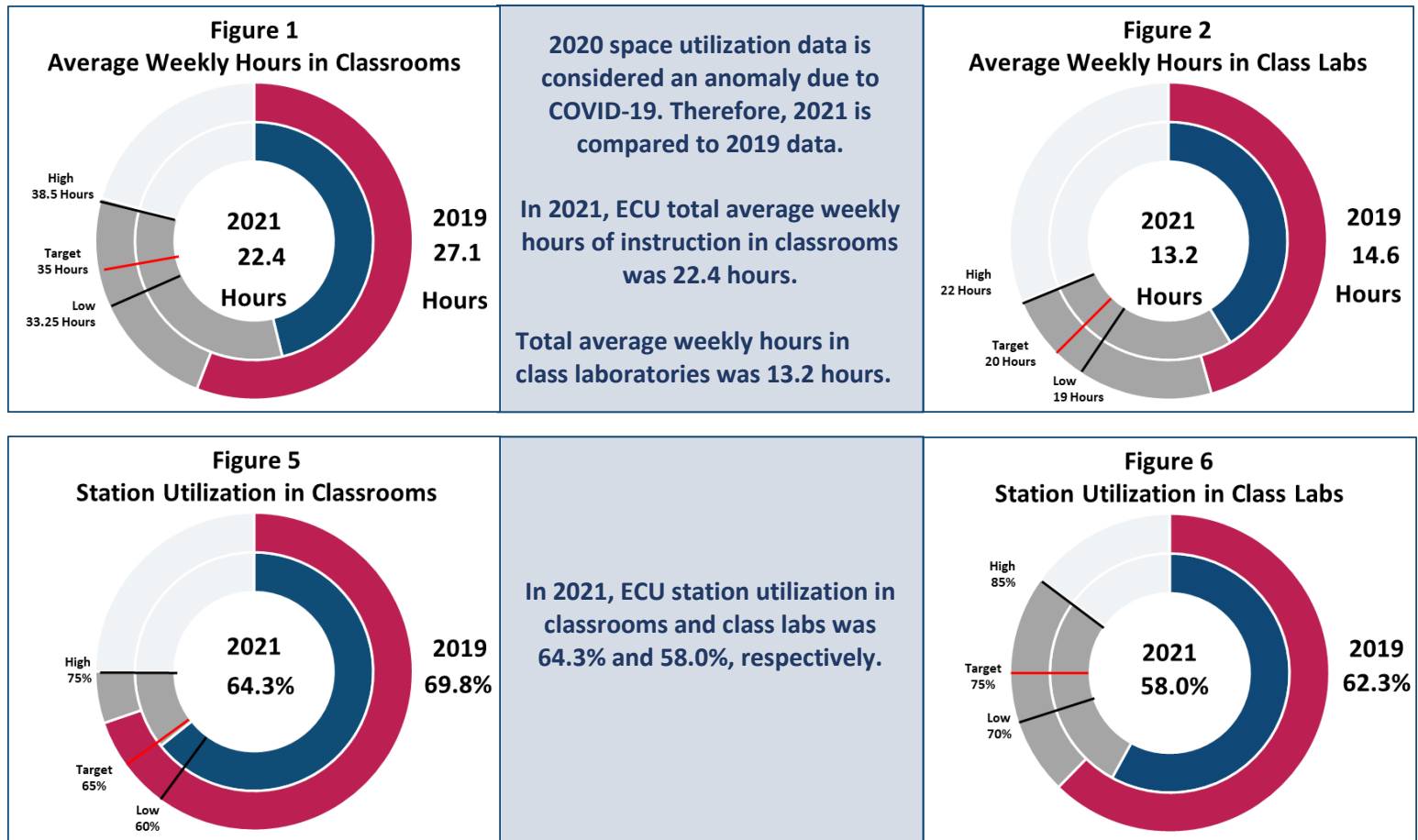


Appalachian State University Summary



Founded as a teachers college in 1907, East Carolina University is today the only public university in the state with a dental school, medical school, and college of engineering. Located in Greenville, ECU's motto is Servire, "service," and its faculty, staff, and almost 29,000 students live by this creed every day. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university. The data in this summary excludes East Carolina Health Affairs.

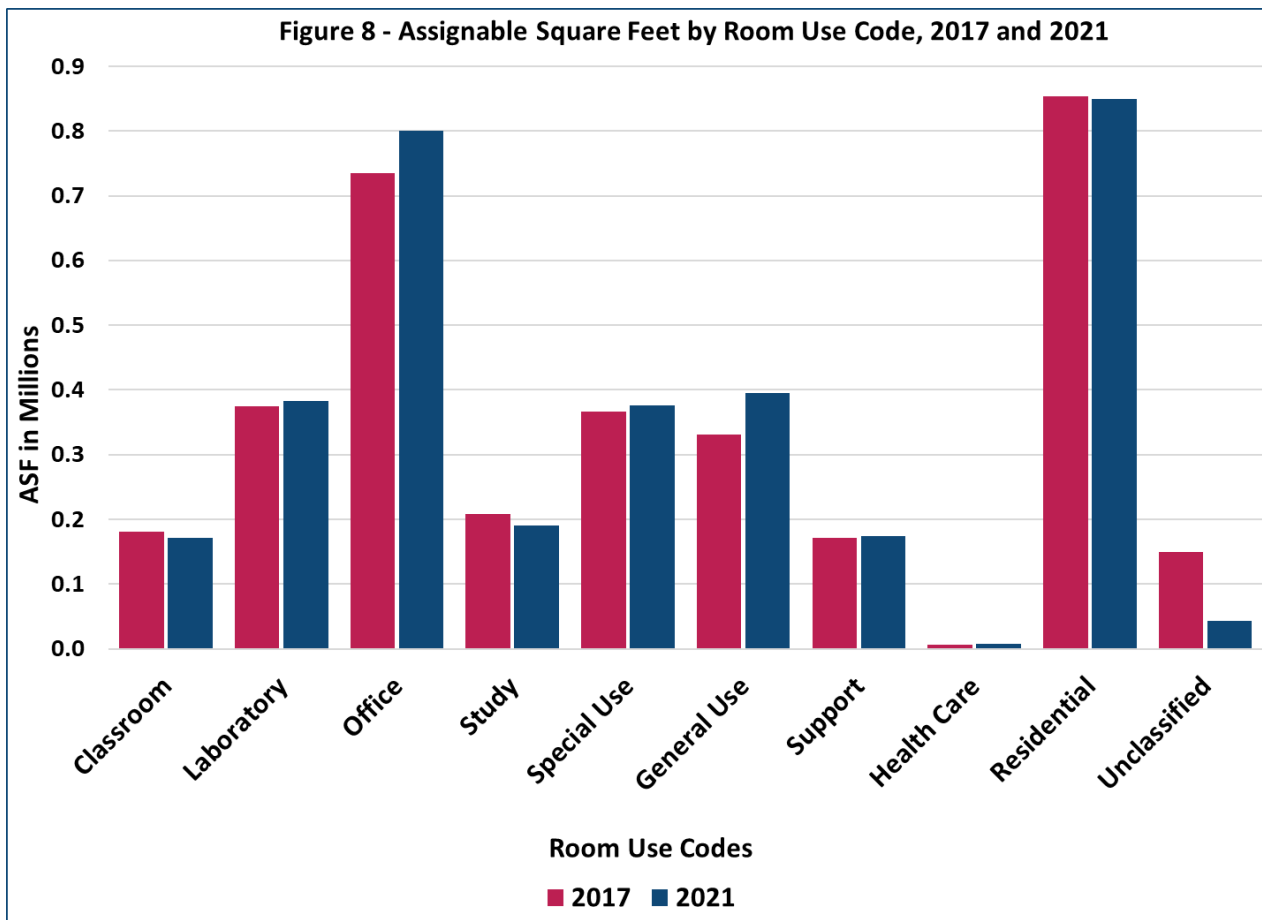
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at ECU decreased from 3,478,978 to 3,391,073, or -2.5% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	1,013,799	29.90%	29.35%	0.55%
Research	89,508	2.64%	3.38%	-0.74%
Public Service	9,669	0.29%	0.57%	-0.28%
Student Service	1,624,766	47.91%	44.54%	3.37%
Other	653,331	19.27%	22.16%	-2.90%



Building Characteristics

East Carolina University has 5,482,487 gross square feet of space comprised of 166 buildings (19 residential, 147 non-residential; 100 appropriated, 66 non-appropriated; 145 owned, 10 leased, 11 under other agreement terms) with 3,391,073 square feet of assignable space, having increased by 0.4% within the last five years. Since 2020, gross square footage has decreased -357,246 SF, or -6.1%.

East Carolina University Building Characteristics	
166 Total Buildings	
	145 Owned
100 Appropriated	10 Leased
66 Non-Appropriated	11 Other Agreement
<hr/> 166 Total	<hr/> 166 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

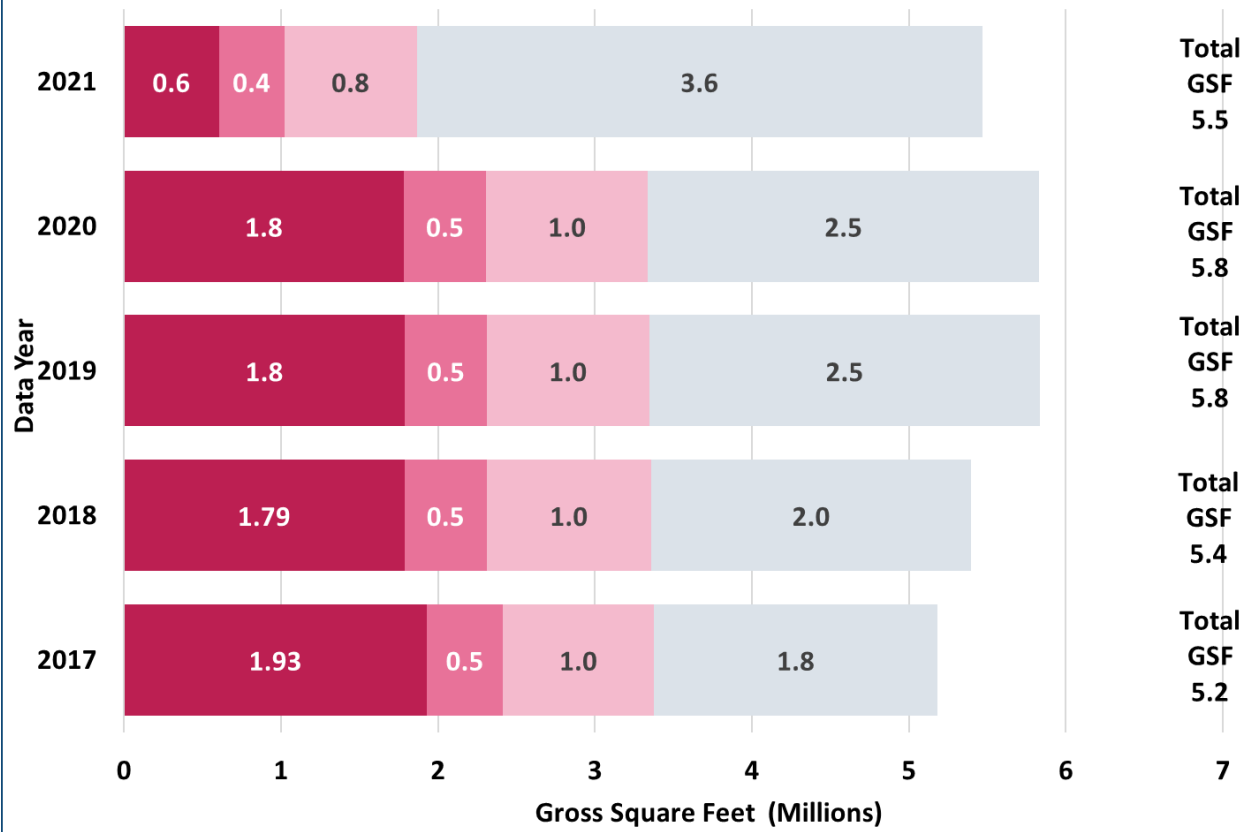
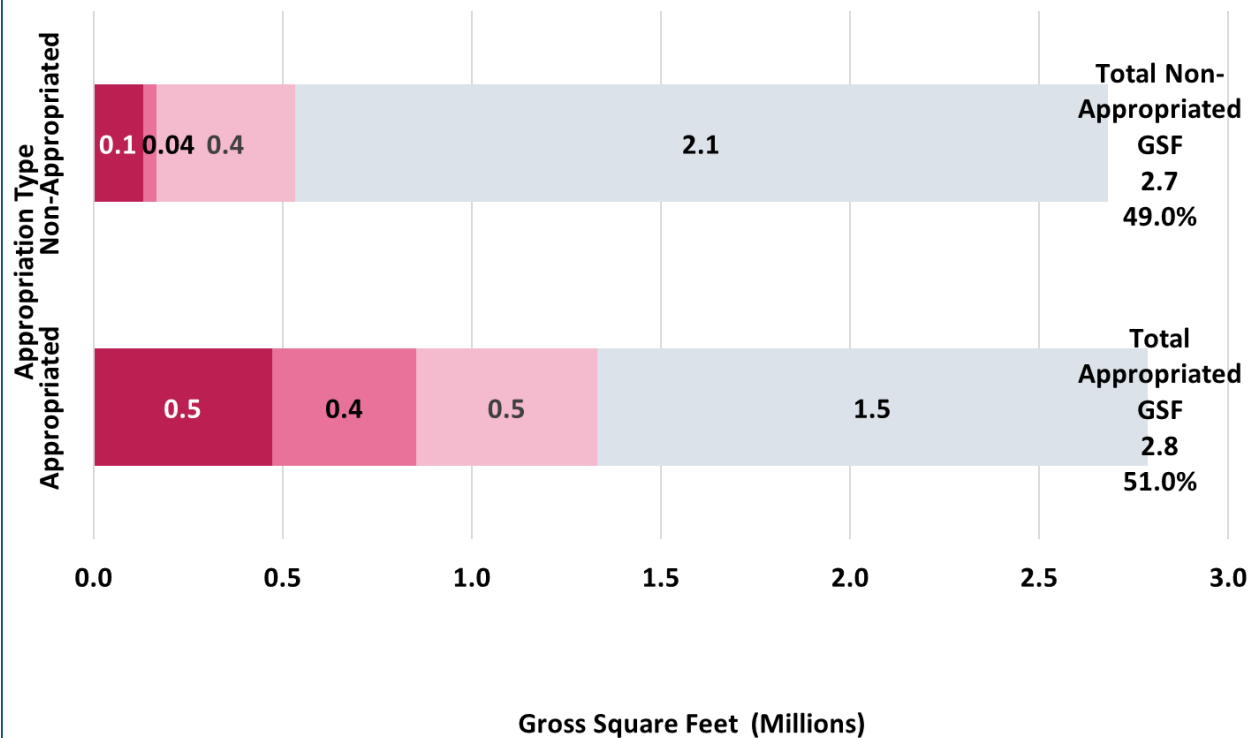
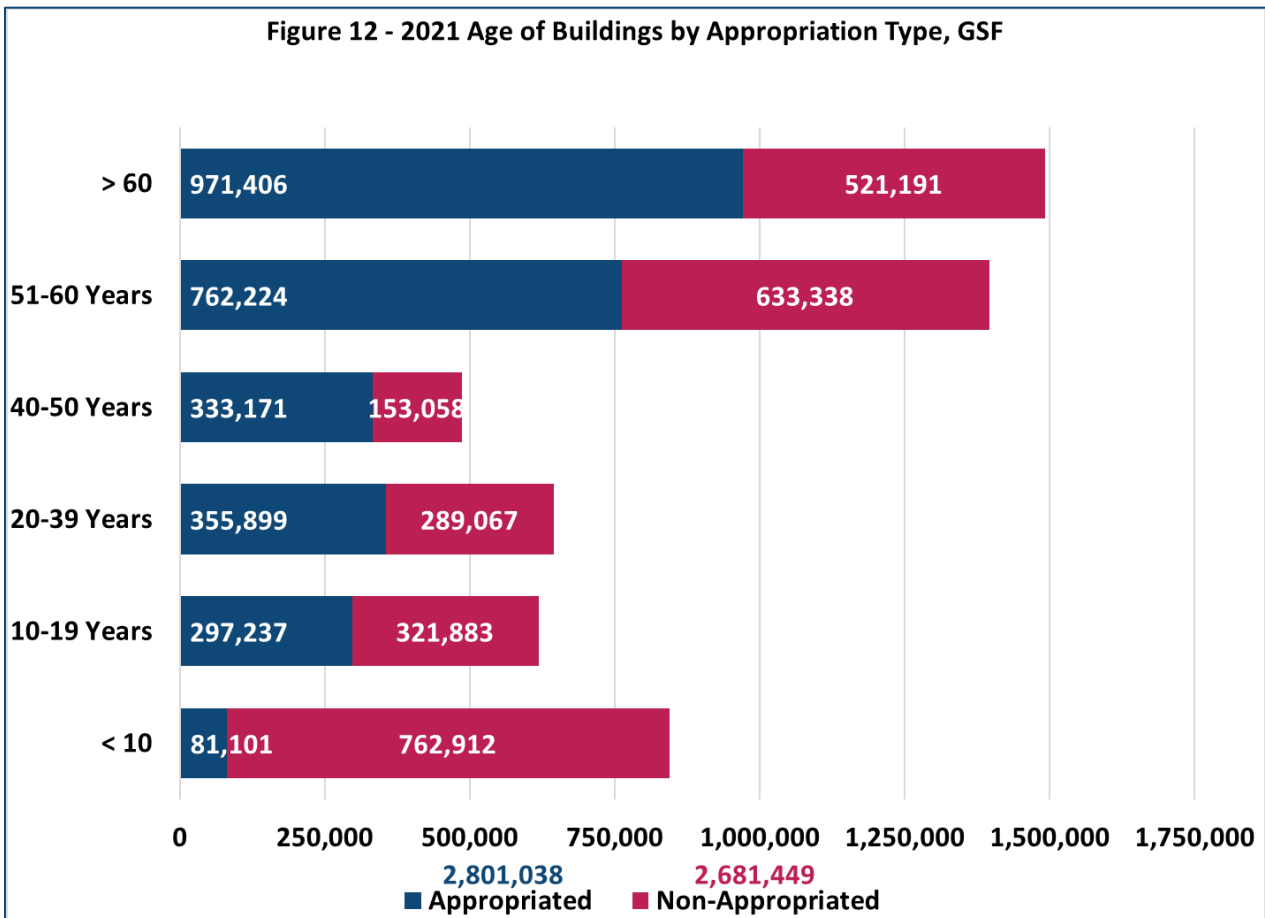
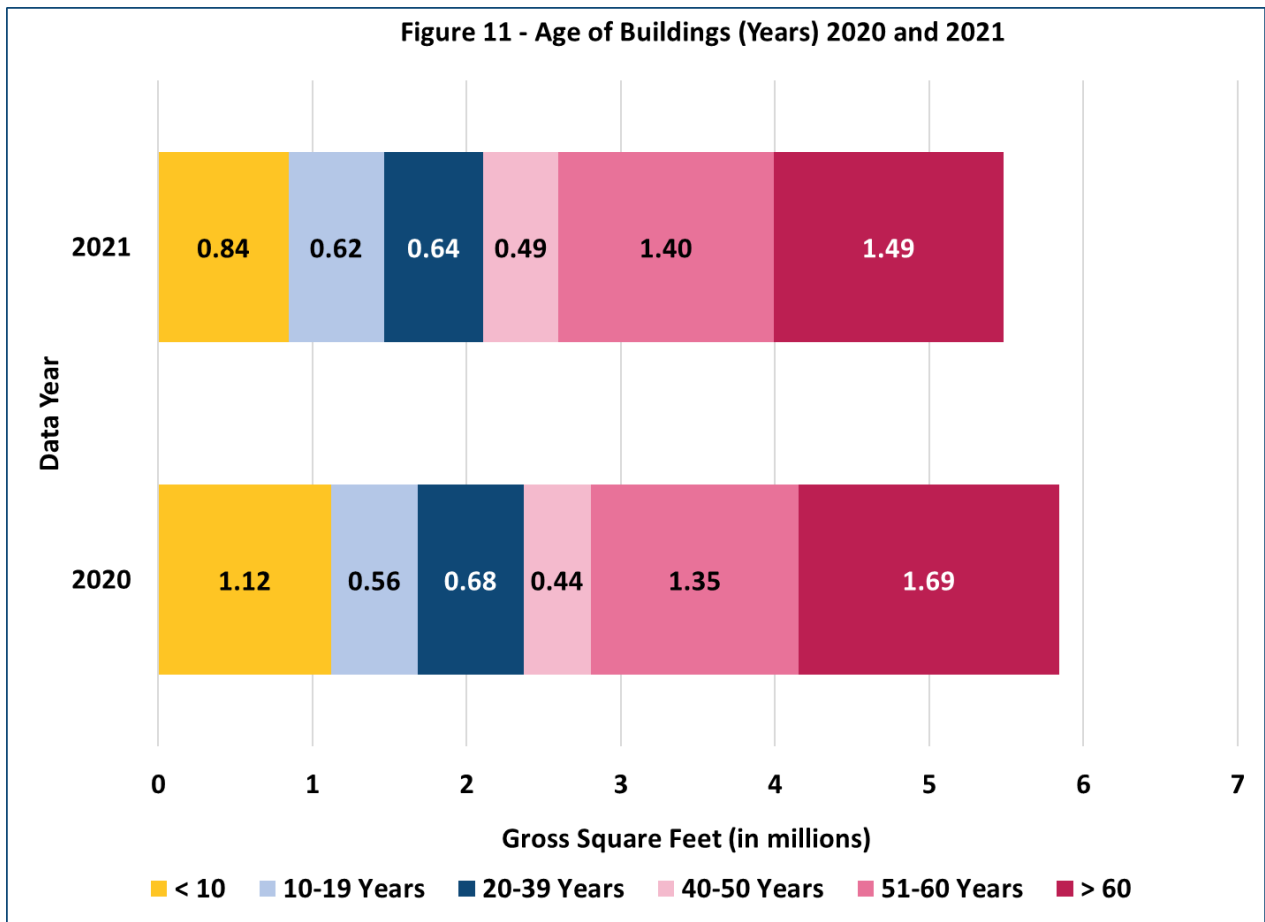


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021

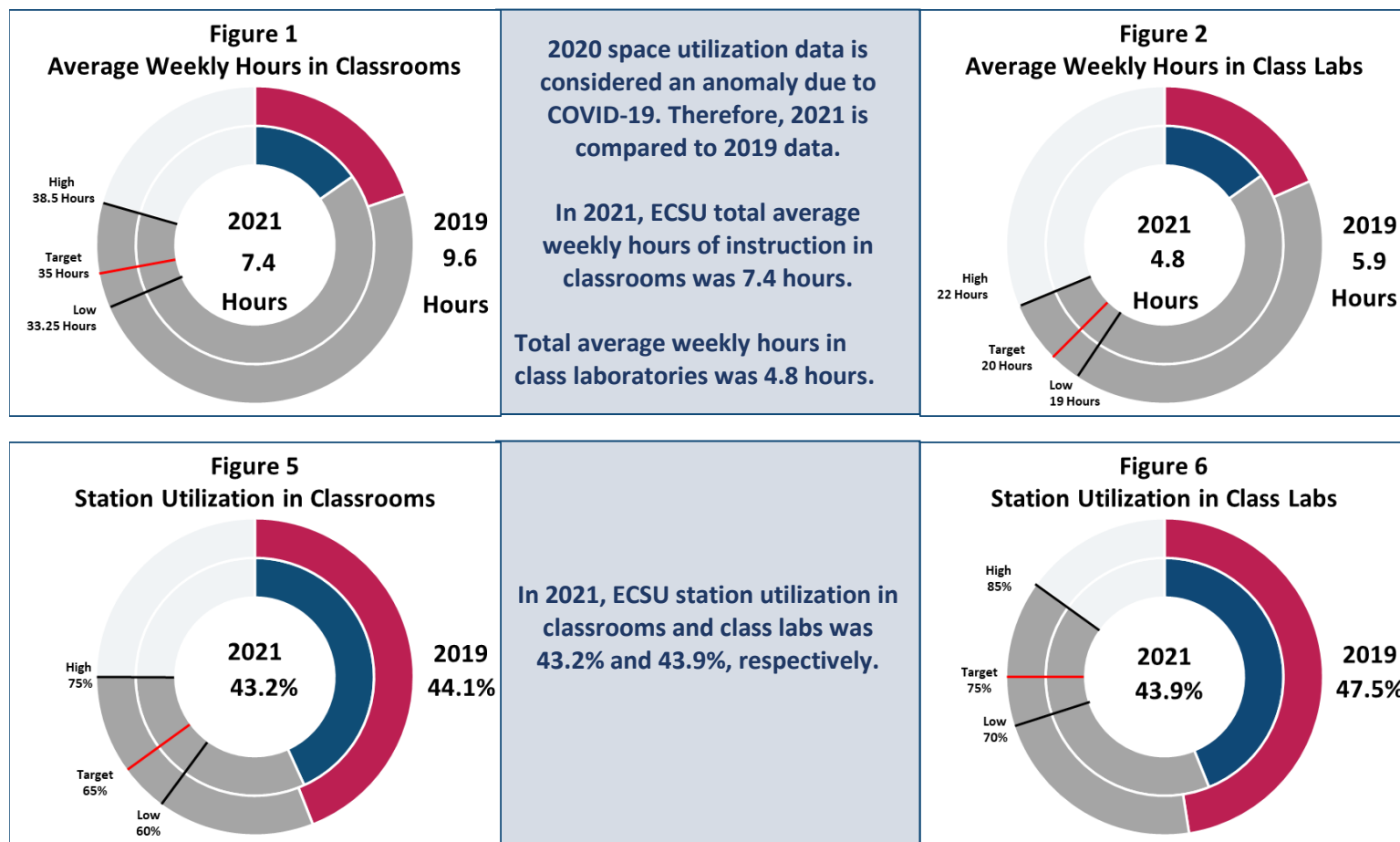




Elizabeth City State University Summary

Nestled in Elizabeth City in northeastern North Carolina, ECSU is the most affordable public institution in the UNC System. Founded in 1891 as a normal (teaching) school, students today can obtain a baccalaureate, professional, or master’s degree in over 30 undergraduate and graduate degree programs. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

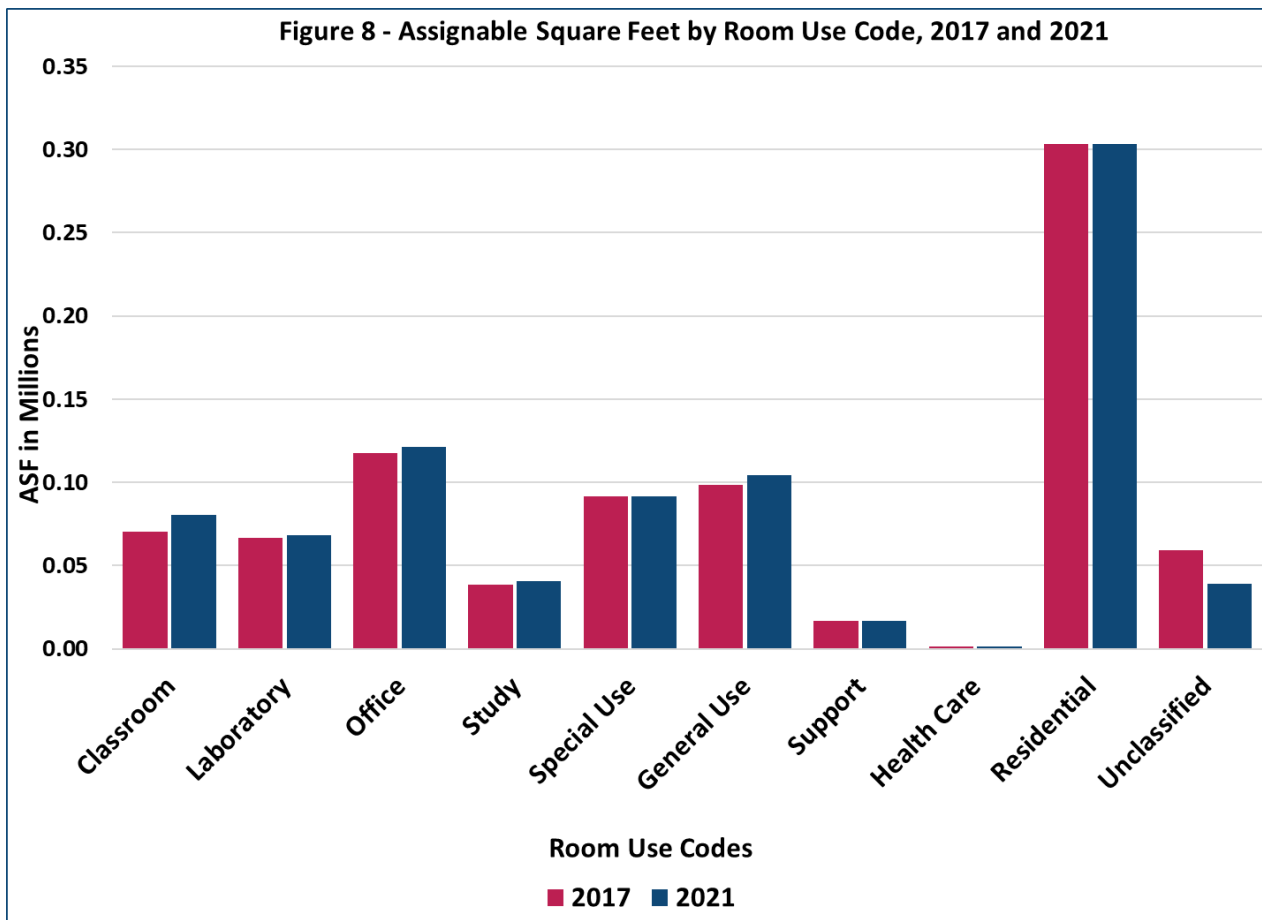
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at ECSU increased from 864,764 to 867,383, or 0.3% compared to the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	279,965	32.28%	30.42%	1.86%
Research	2,774	0.32%	0.32%	0.00%
Public Service	18,787	2.17%	2.18%	-0.01%
Student Service	401,083	46.24%	46.13%	0.11%
Other	164,774	19.00%	20.94%	-1.95%



Building Characteristics

Elizabeth City State University has 1,301,088 gross square feet of space comprised of 52 buildings (14 residential, 38 non-residential; 31 appropriated, 21 non-appropriated; 49 owned, 0 leased, 3 under other agreement terms) with 867,383 square feet of assignable space, having increased by 0.3% within the last five years. Since 2020, gross square footage has increased by 171 SF, or 0.01%.

Elizabeth City State University Building Characteristics	
52 Total Buildings	
31 Appropriated	49 Owned
21 Non-Appropriated	0 Leased
52 Total	52 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

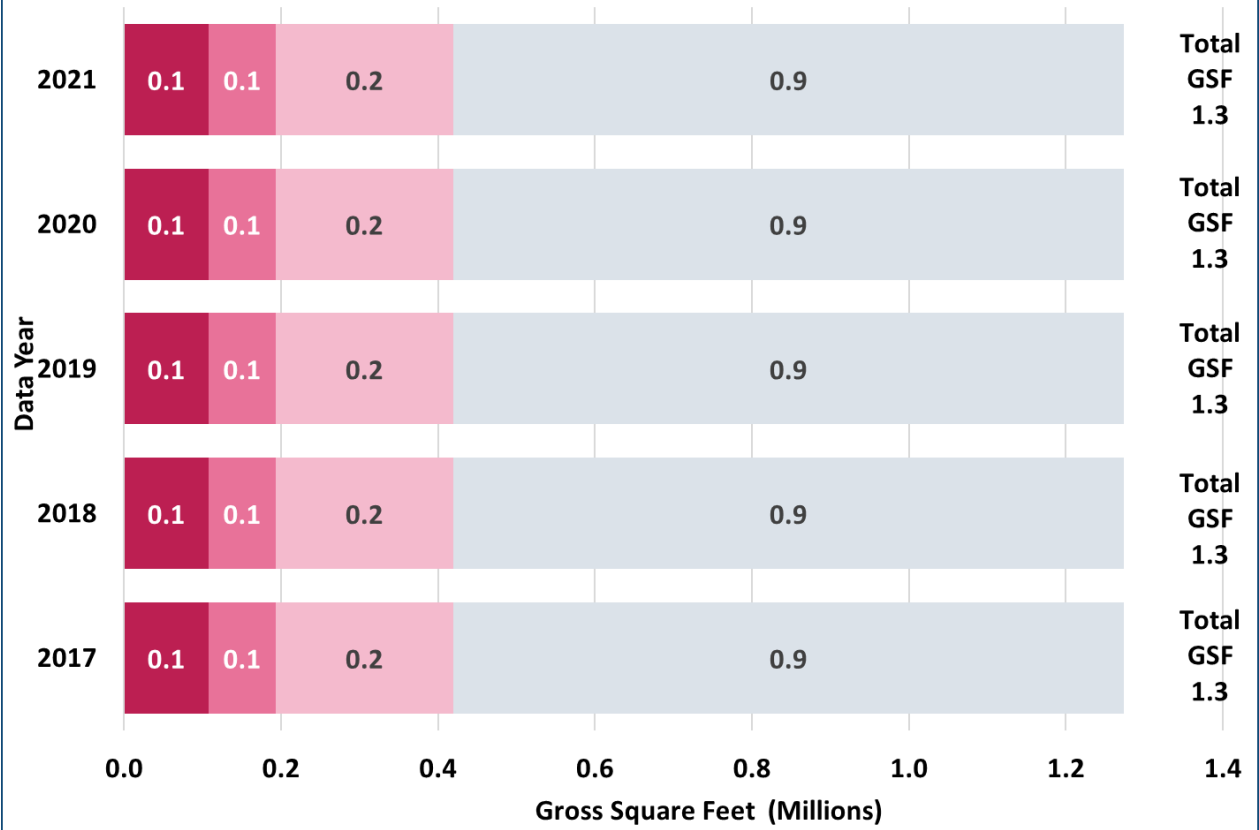
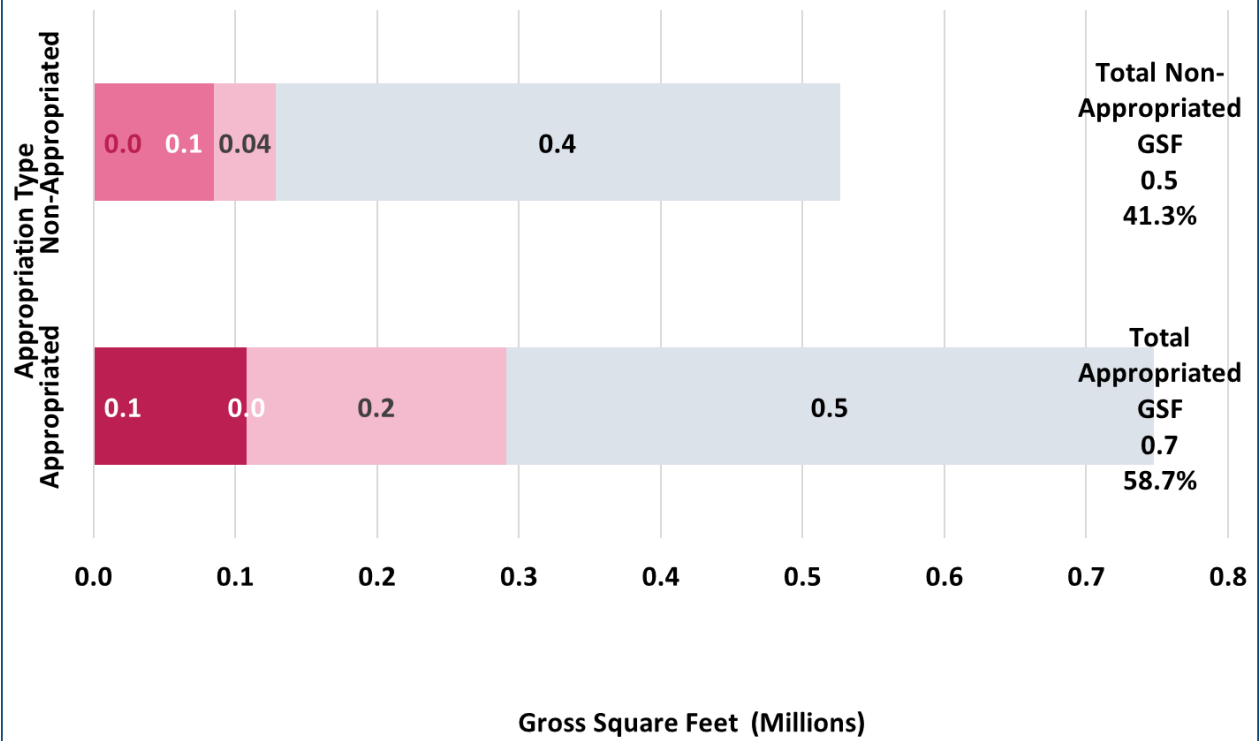
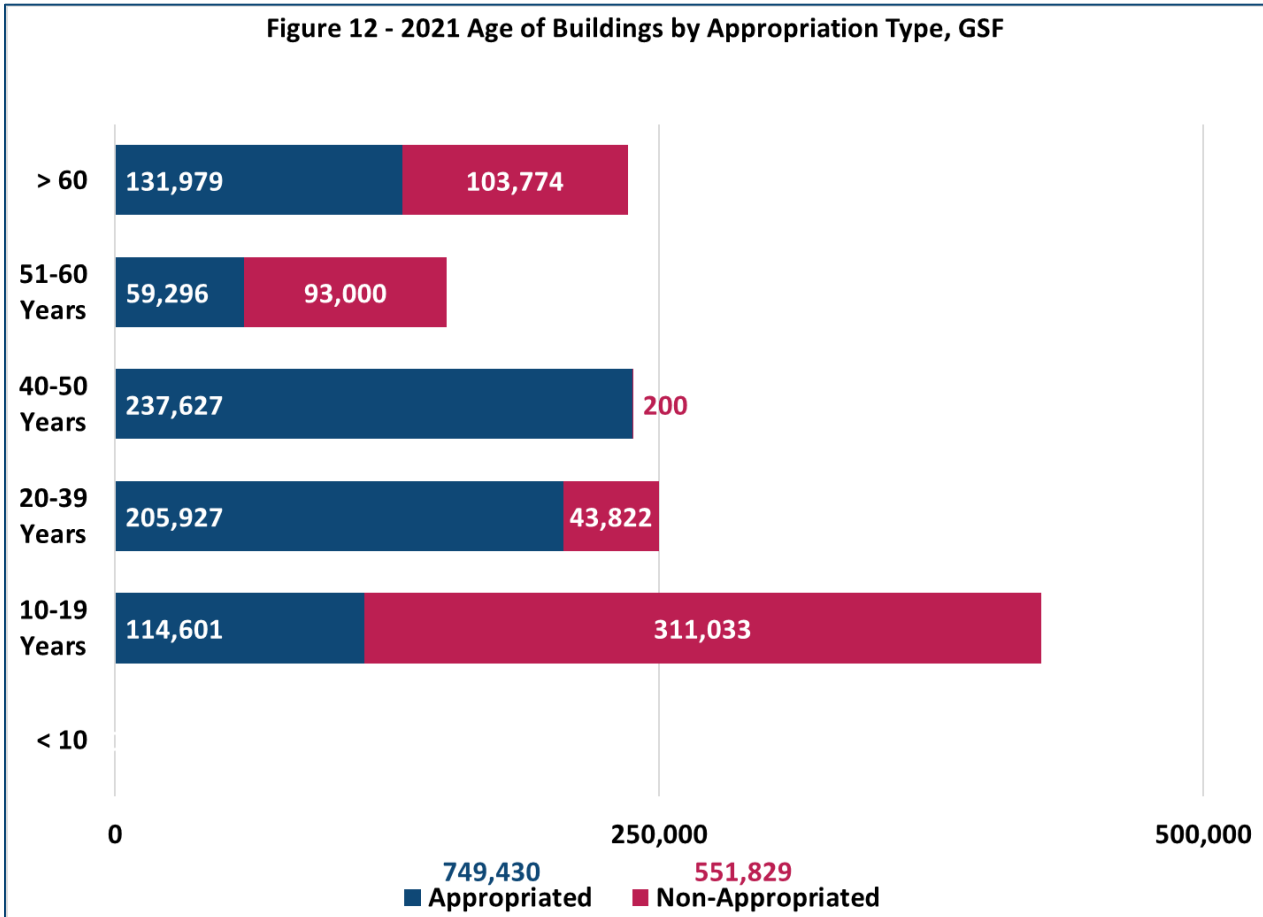
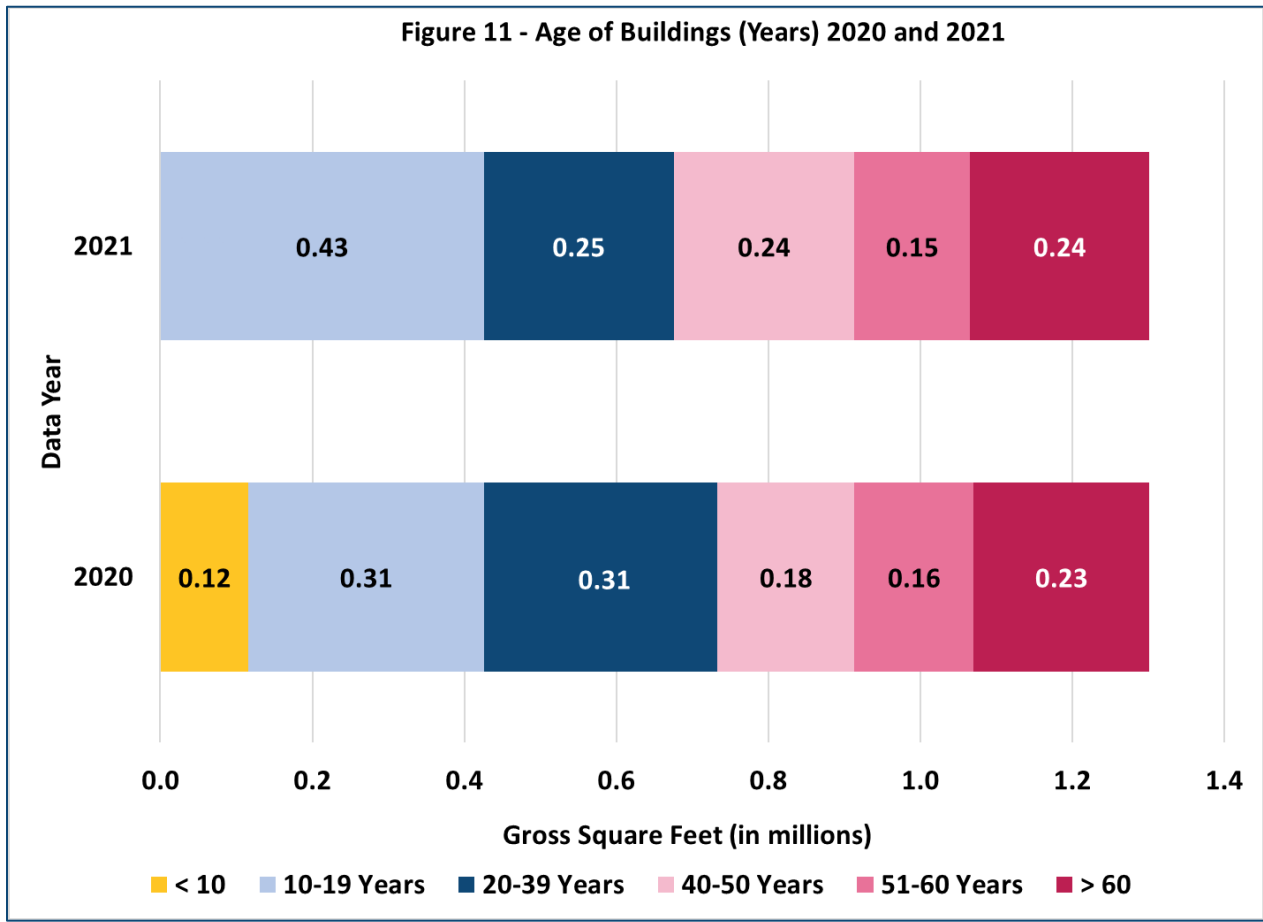


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021



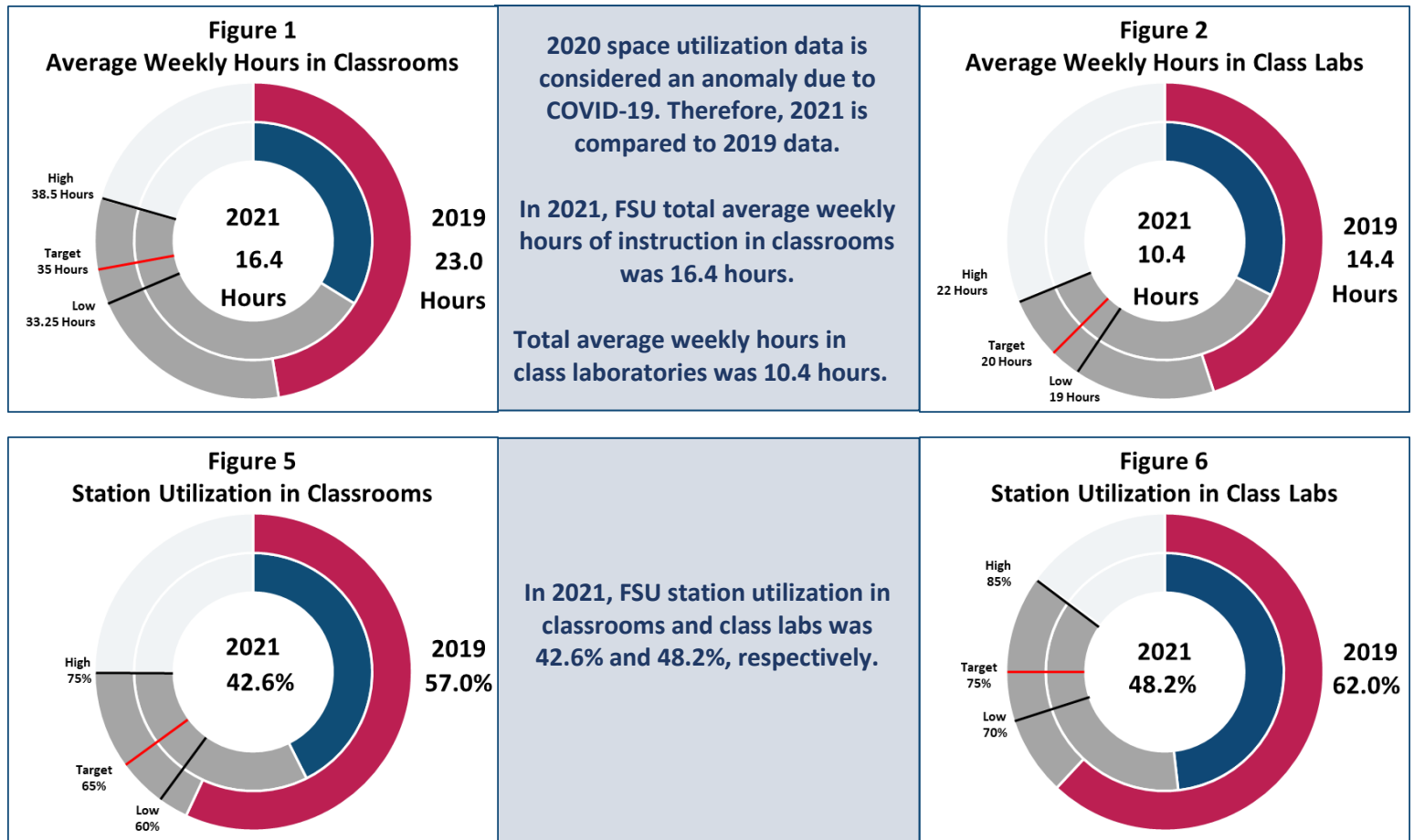
Elizabeth City State University Summary



Fayetteville State University Summary

Founded in 1867 in the city of Fayetteville, Fayetteville State University continues the proud legacy of providing a high quality, affordable education. FSU offers 43 degree programs and has options for online learning or the traditional HBCU campus life experience. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

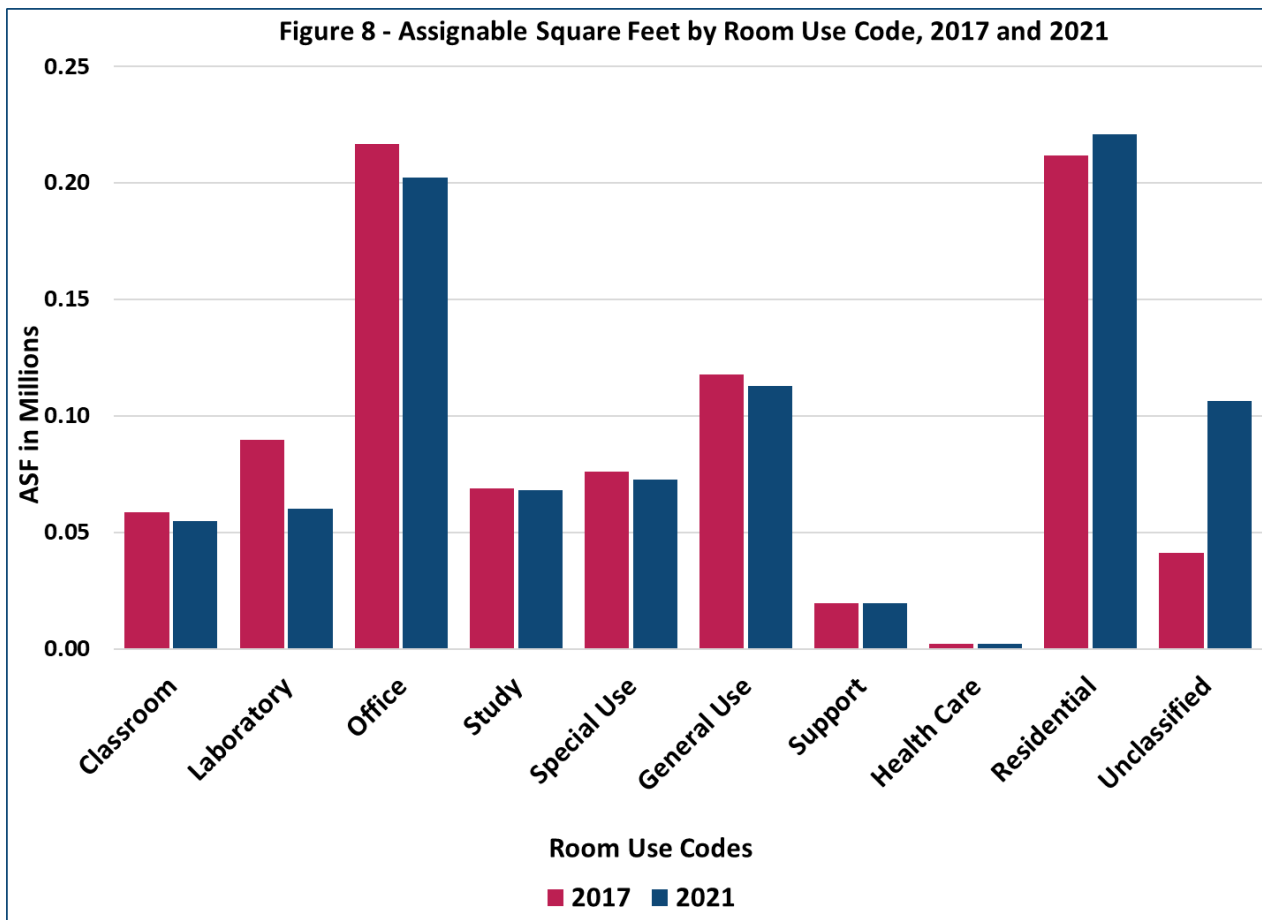
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at FSU remained unchanged from the previous year at 919,639.

Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	258,420	28.10%	33.85%	-5.75%
Research	9,263	1.01%	1.71%	-0.70%
Public Service	1,013	0.11%	0.11%	0.00%
Student Service	378,209	41.13%	40.87%	0.26%
Other	272,734	29.66%	23.47%	6.19%



Building Characteristics

Fayetteville State University has 1,472,197 gross square feet of space comprised of 50 buildings (9 residential, 41 non-residential; 31 appropriated, 19 non-appropriated; 46 owned, 0 leased, 4 under other agreement terms) with 919,639 square feet of assignable space, having increased by 1.9% within the last five years. Since 2020, gross square footage has remained unchanged.

Fayetteville State University Building Characteristics	
50 Total Buildings	
31 Appropriated	46 Owned
19 Non-Appropriated	0 Leased
<hr/>	<hr/>
50 Total	50 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

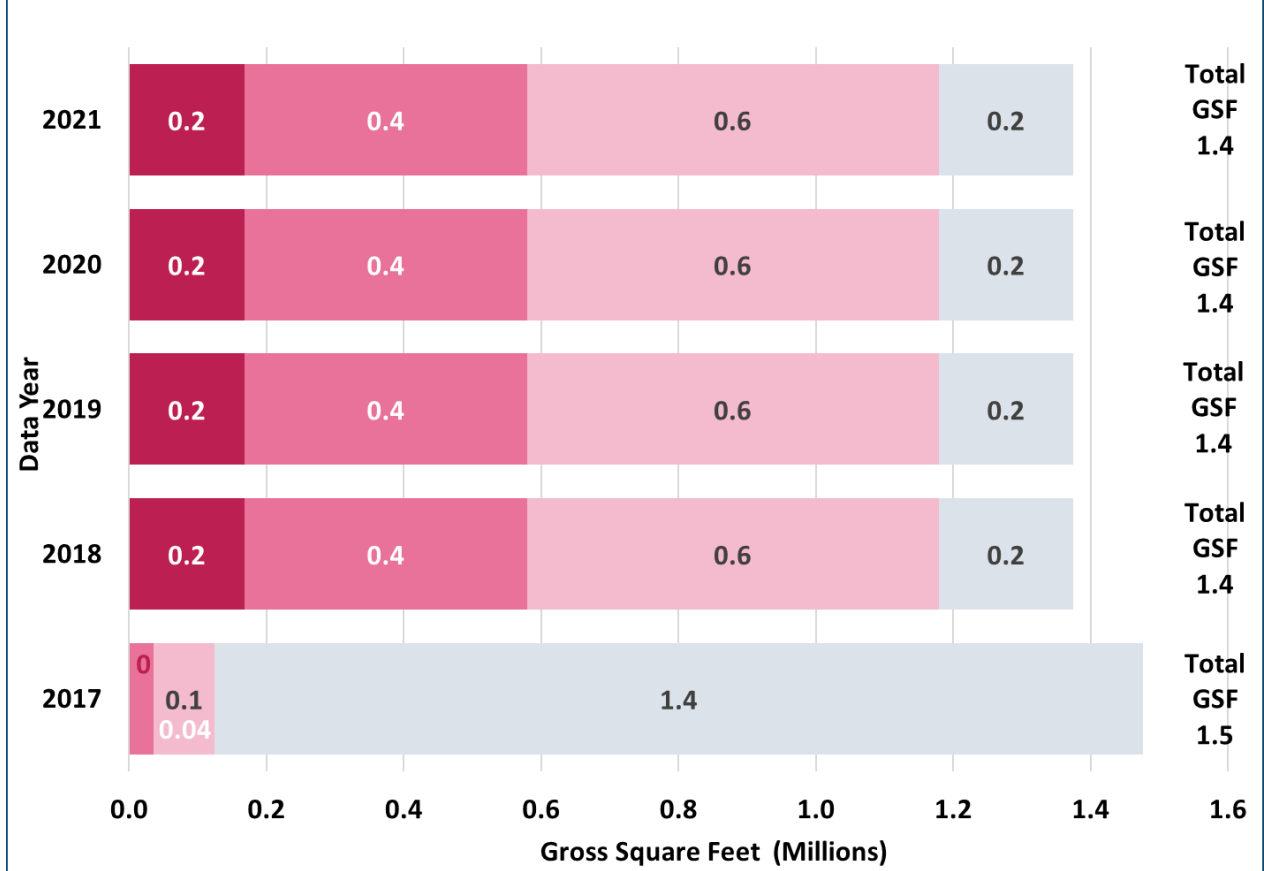
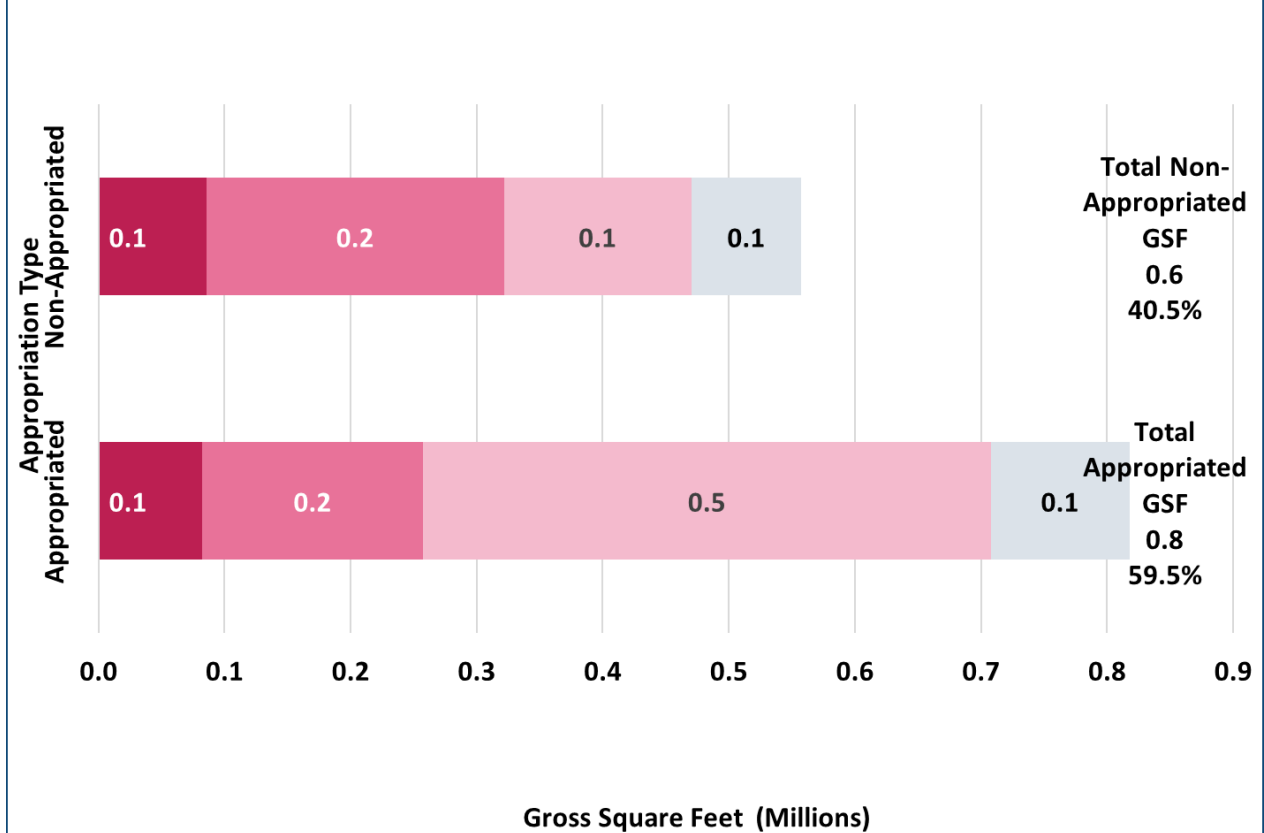
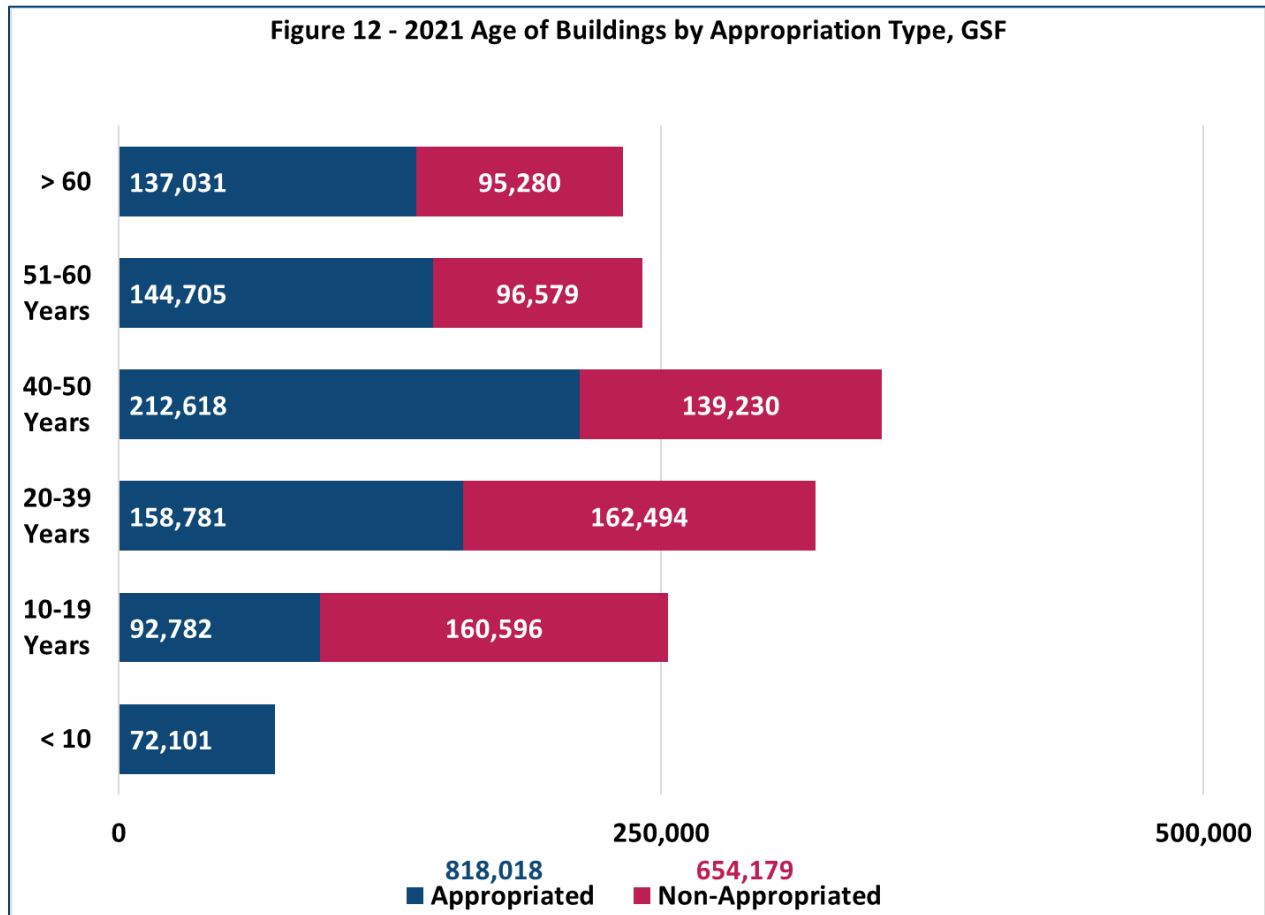
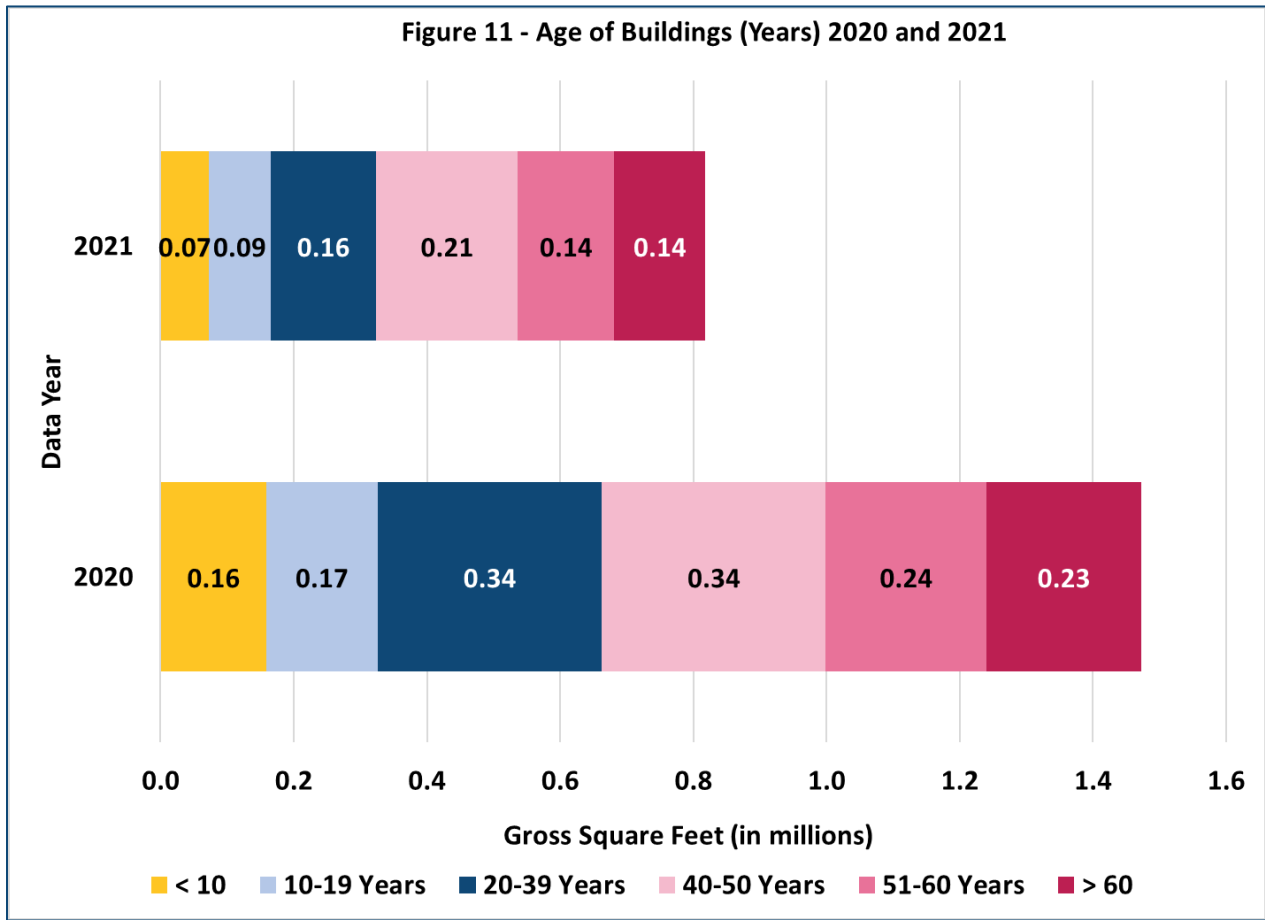


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021

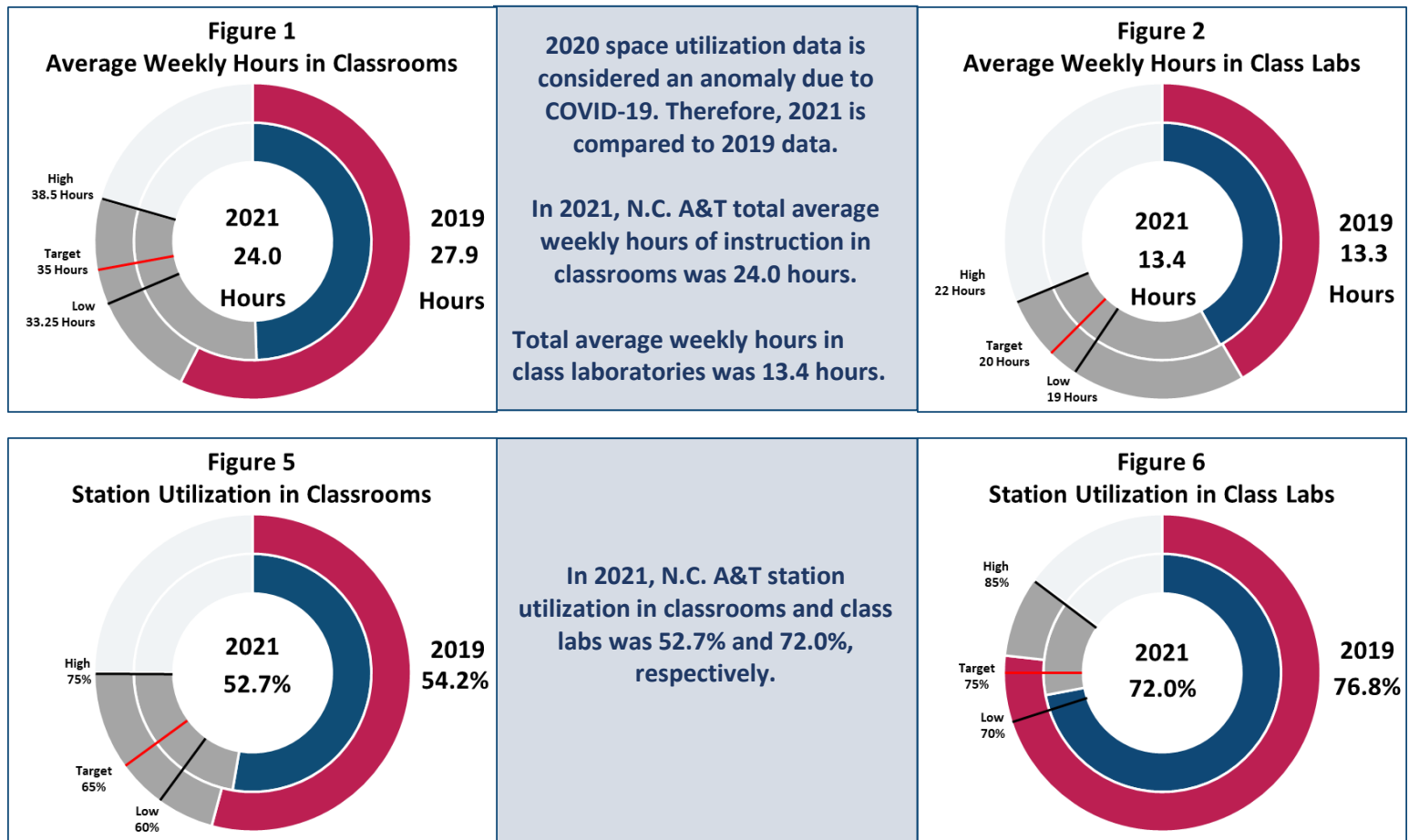


Fayetteville State University Summary



For nearly 130 years in Greensboro, North Carolina A&T has believed in the power of students to change the world. As a land grant, doctoral research university, A&T is ranked the number one producer of African American graduates in Engineering and Agriculture and the number one public historically black university in the nation. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

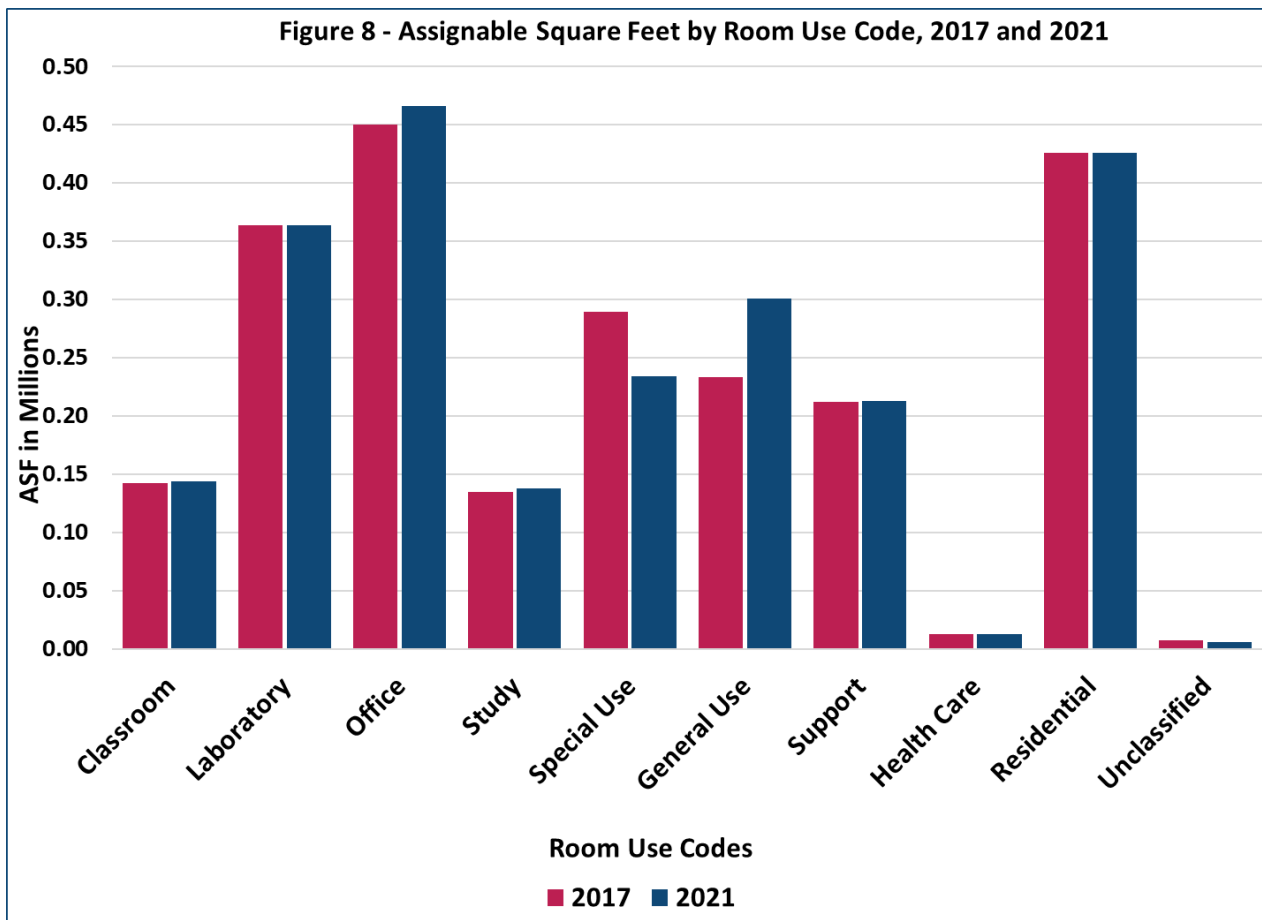
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at N.C. A&T decreased from 2,359,182 to 2,302,589, or -2.4% compared to the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	675,677	29.34%	32.20%	-2.85%
Research	180,777	7.85%	7.94%	-0.09%
Public Service	24,419	1.06%	1.08%	-0.02%
Student Service	793,311	34.45%	31.06%	3.40%
Other	628,405	27.29%	27.73%	-0.44%



Building Characteristics

North Carolina Agricultural & Technical State University has 3,338,581 gross square feet of space comprised of 120 buildings (14 residential, 106 non-residential; 95 appropriated, 25 non-appropriated; 116 owned, 3 leased, 1 under other agreement terms) with 2,302,589 square feet of assignable space, having increased by 1.4% within the last five years. Since 2020, gross square footage has decreased -65,443, or -1.9%.

N.C. A&T State University Building Characteristics	
120 Total Buildings	
95 Appropriated	116 Owned
25 Non-Appropriated	3 Leased
120 Total	120 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

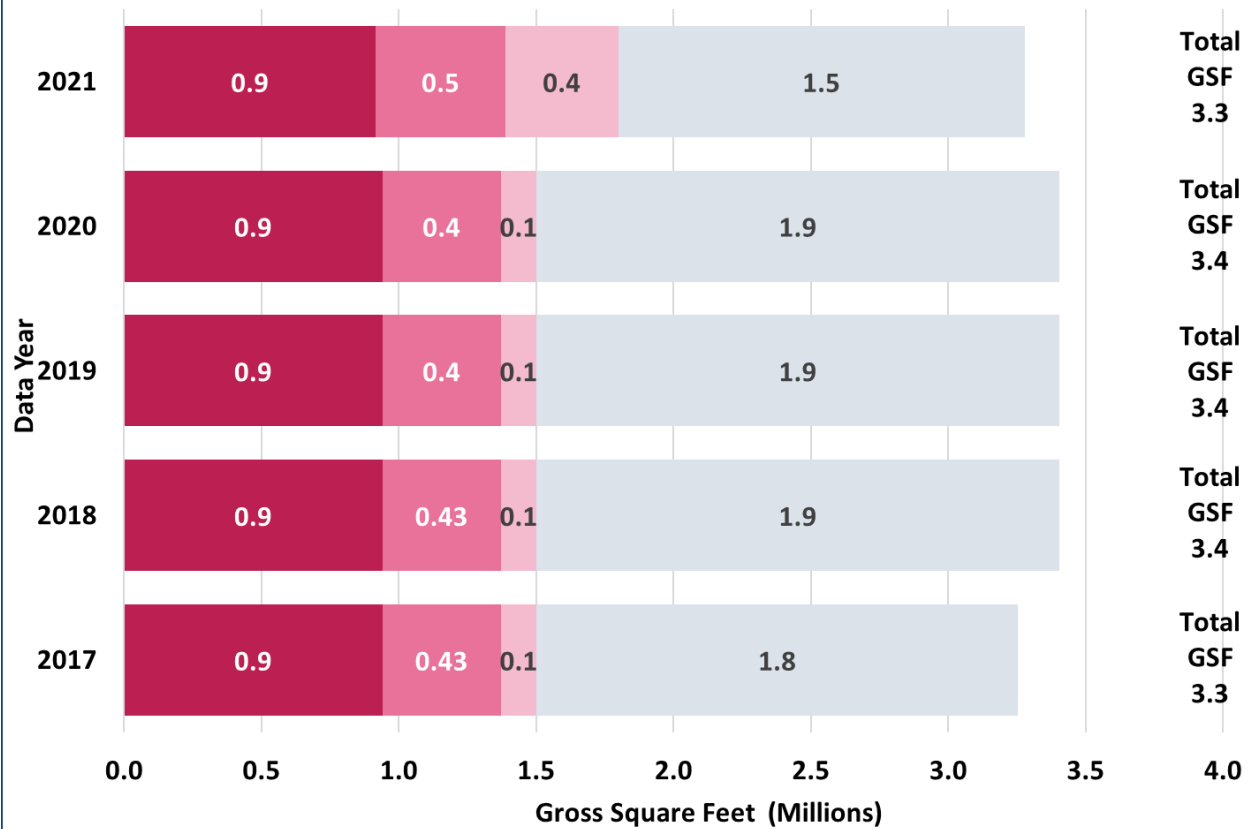
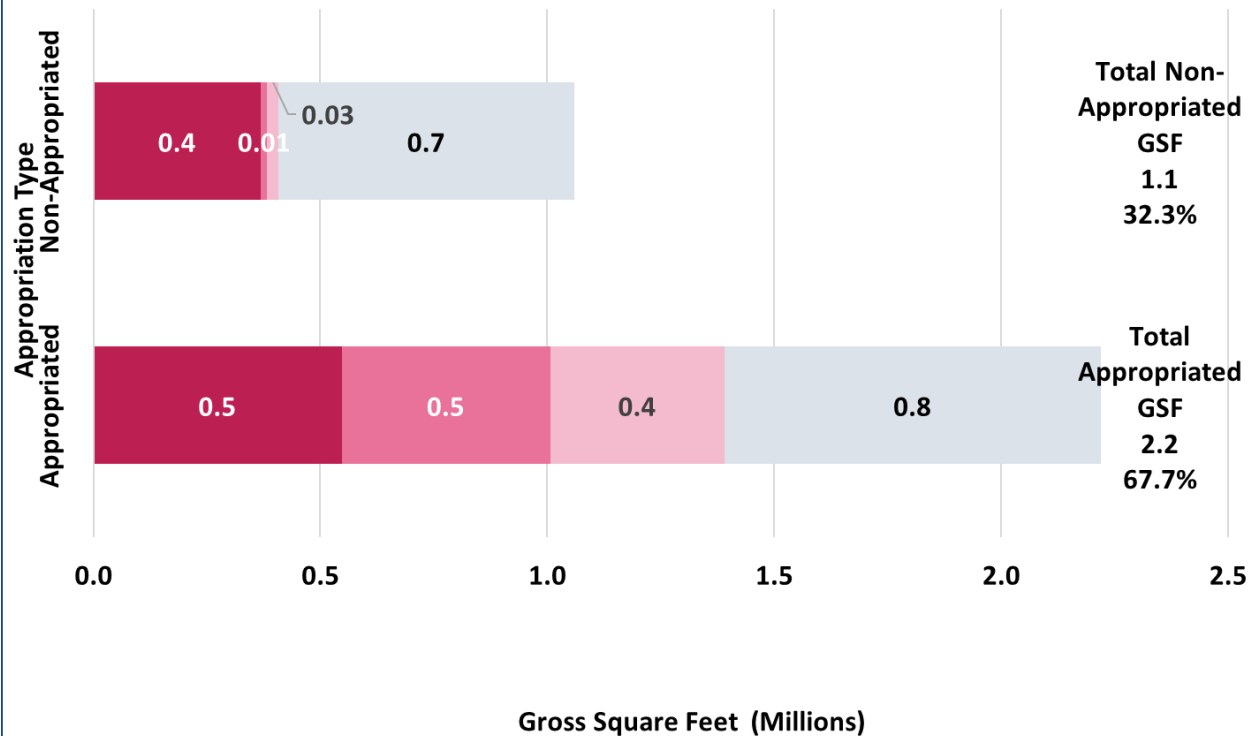
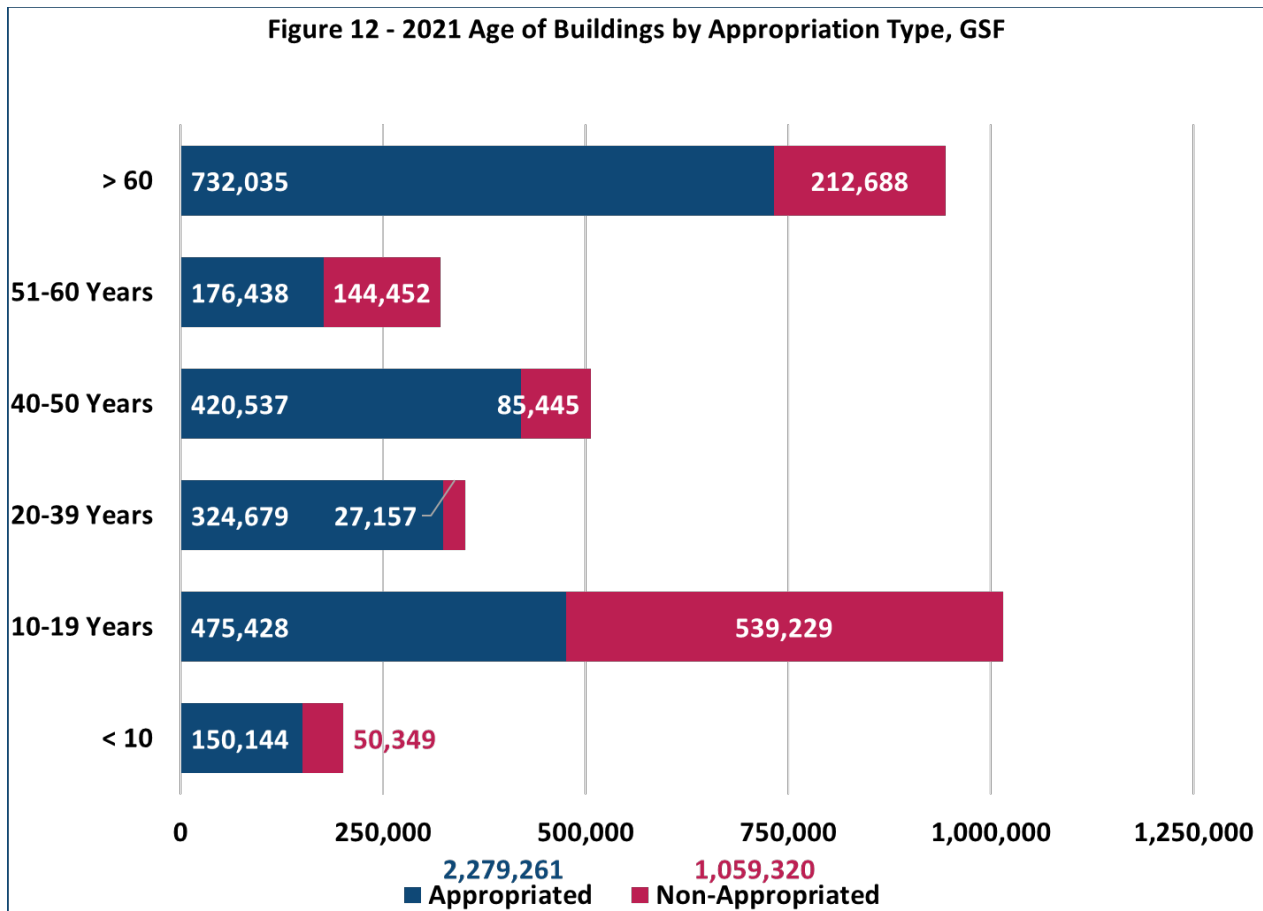
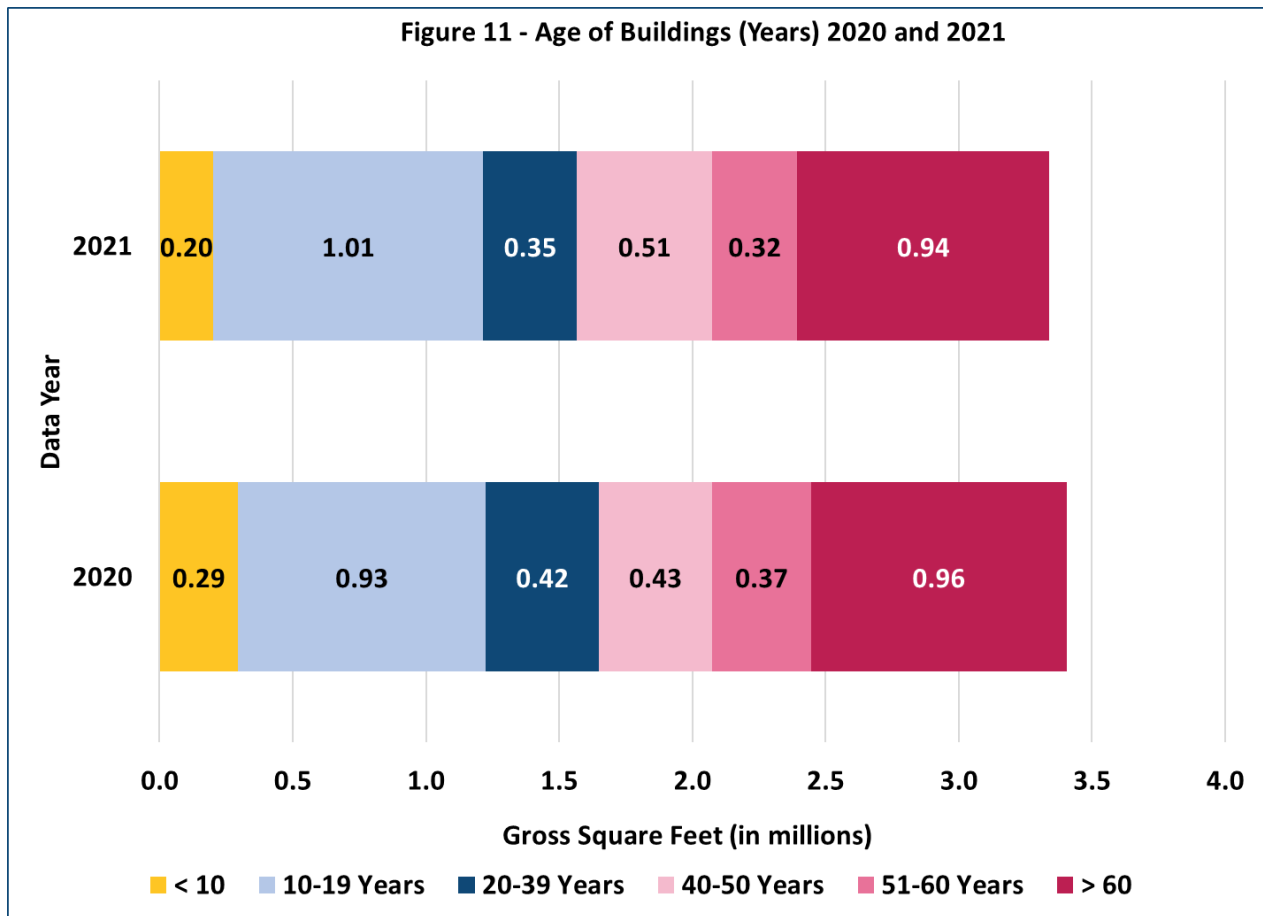


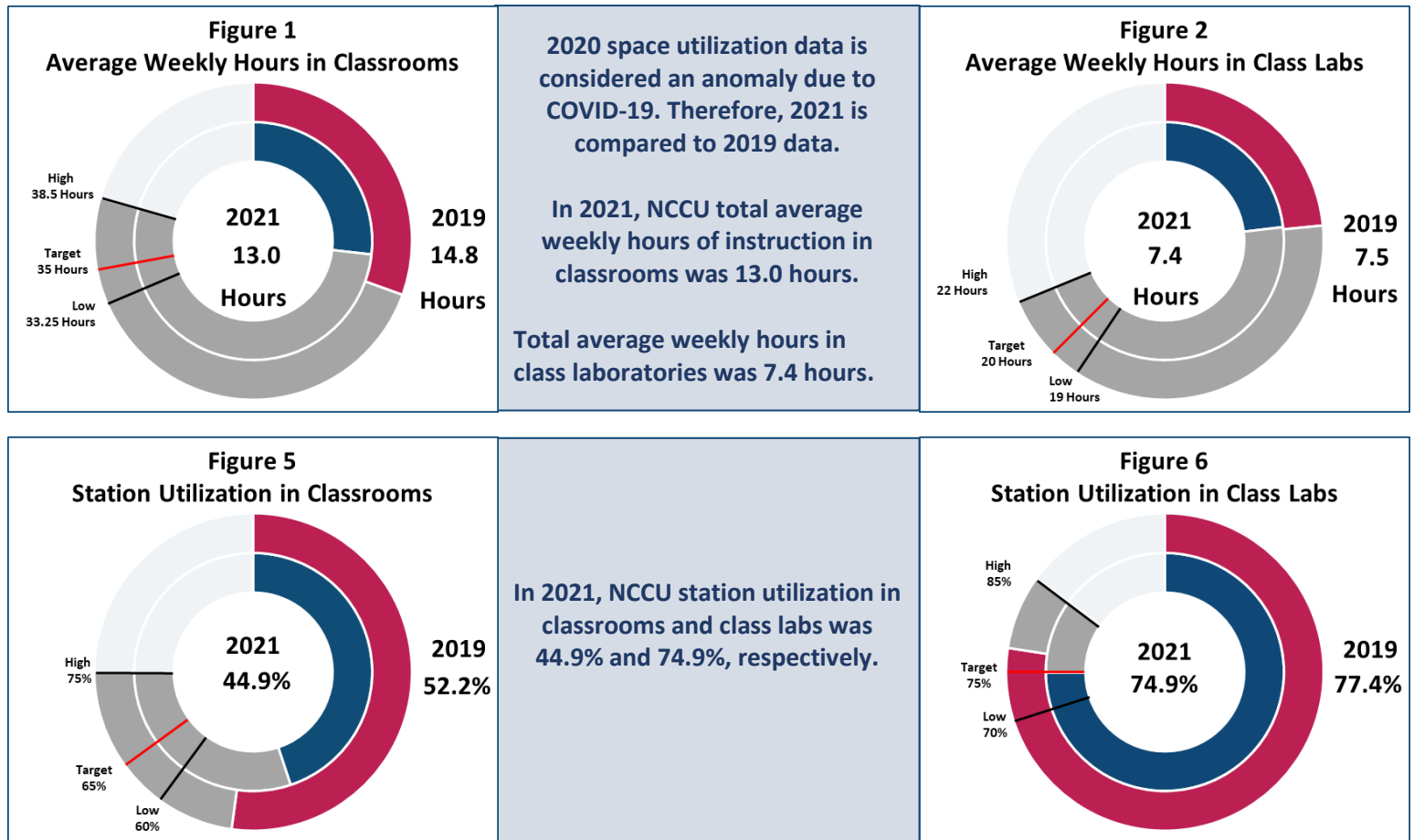
Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021





North Carolina Central University, a top-ranking southern regional university and historically black university, is located in Durham, adjacent to Research Triangle Park. Established in 1910, the university today offers bachelor’s degrees in 100 disciplines, master’s degrees in more than 40 areas, and a Ph.D. in Integrated Biosciences. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

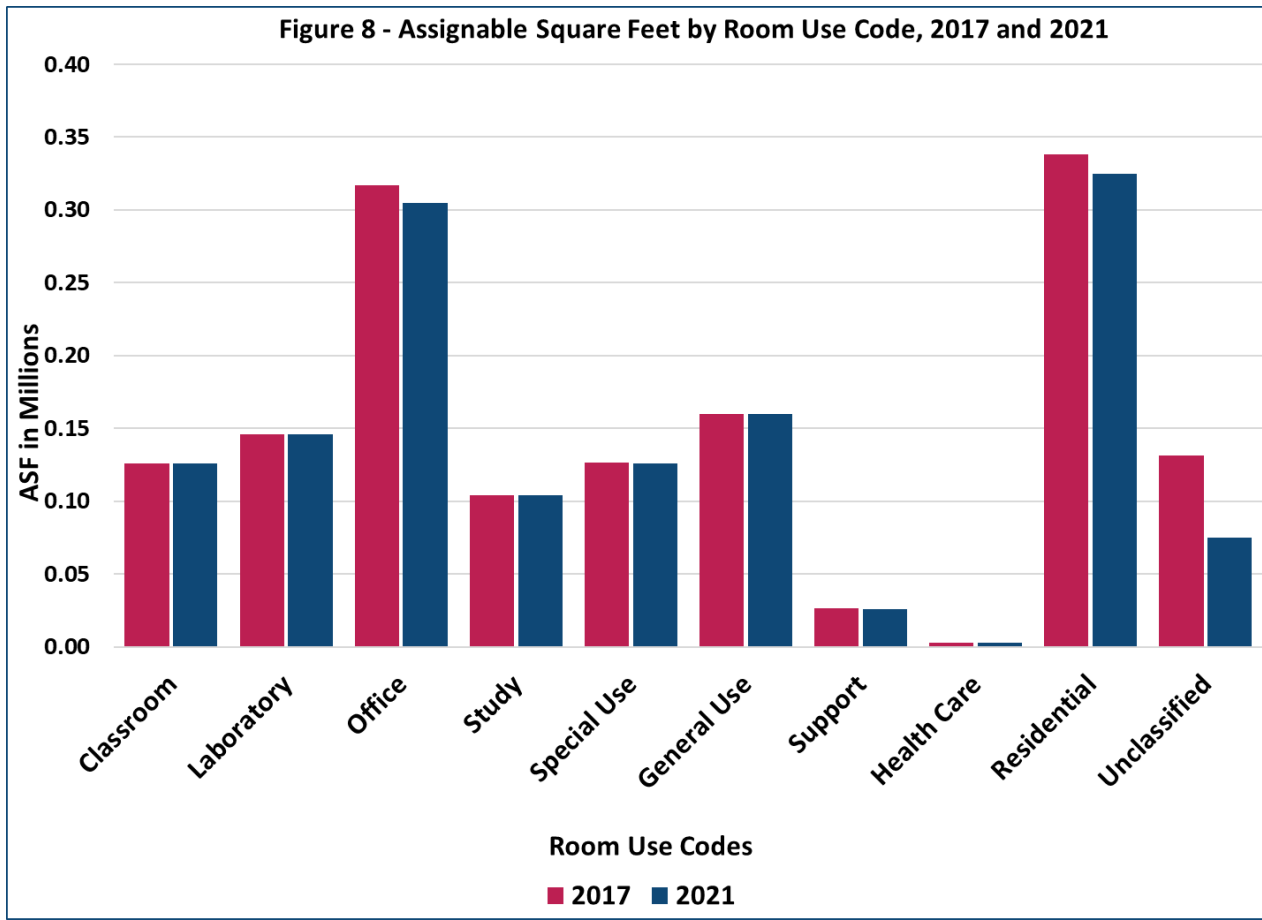
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at NCCU decreased from 1,404,771 to 1,394,029, or -0.8% compared to the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	530,589	38.06%	35.91%	2.16%
Research	32,962	2.36%	2.23%	0.13%
Public Service	8,275	0.59%	0.56%	0.03%
Student Service	526,135	37.74%	36.49%	1.25%
Other	296,068	21.24%	24.82%	-3.58%



Building Characteristics

North Carolina Central University has 2,182,407 gross square feet of space comprised of 54 buildings (11 residential, 43 non-residential; 39 appropriated, 15 non-appropriated; 52 owned, 0 leased, 2 under other agreement terms) with 1,394,029 square feet of assignable space, having decreased by -5.7% within the last five years. Since 2020, gross square footage has decreased -12,082, or -0.6%.

North Carolina Central University Building Characteristics	
54 Total Buildings	
39 Appropriated	52 Owned
15 Non-Appropriated	0 Leased
<hr/>	<hr/>
54 Total	54 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

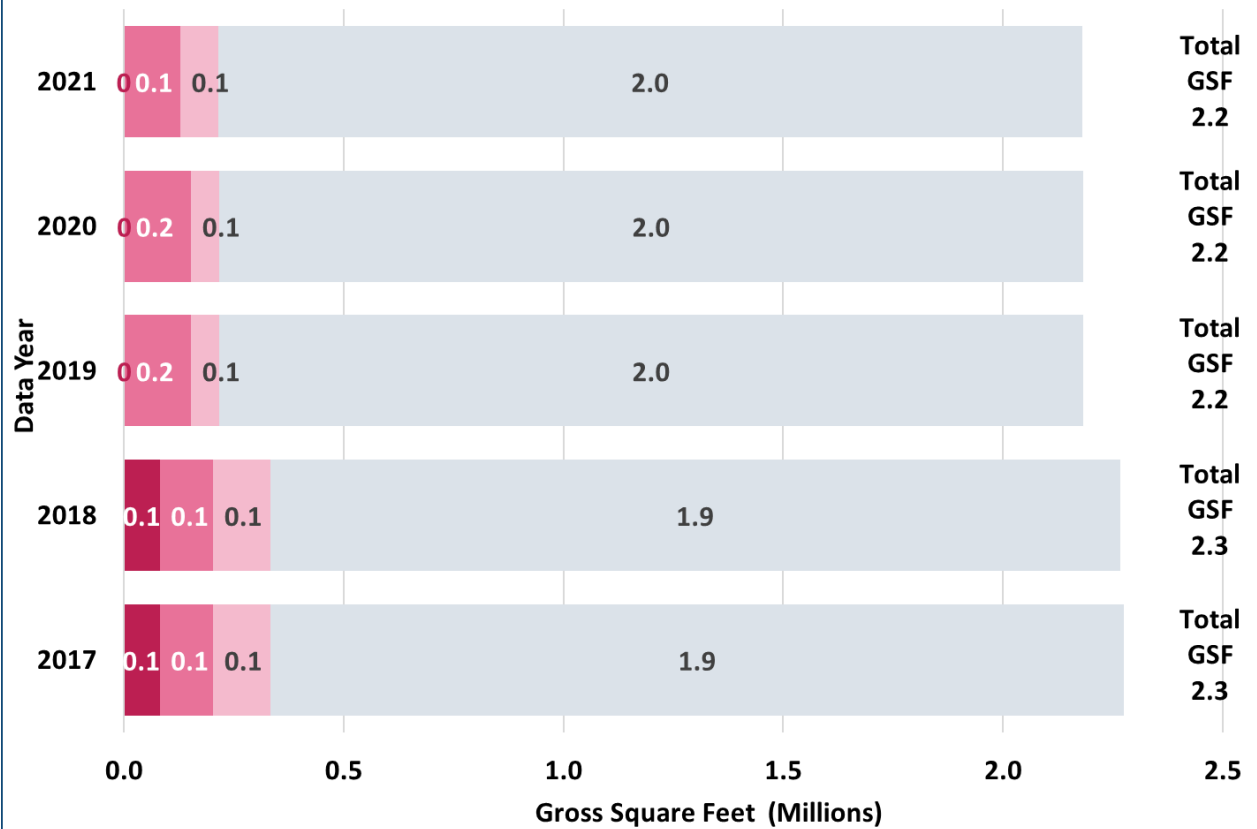
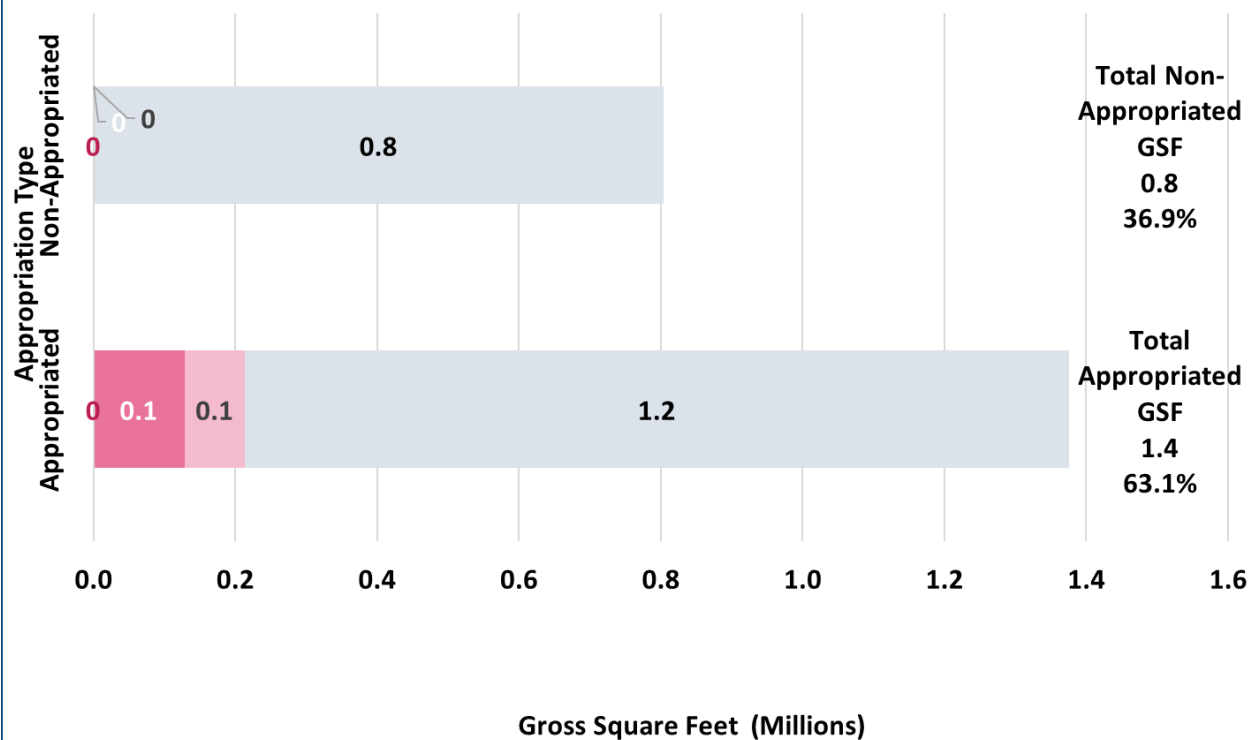
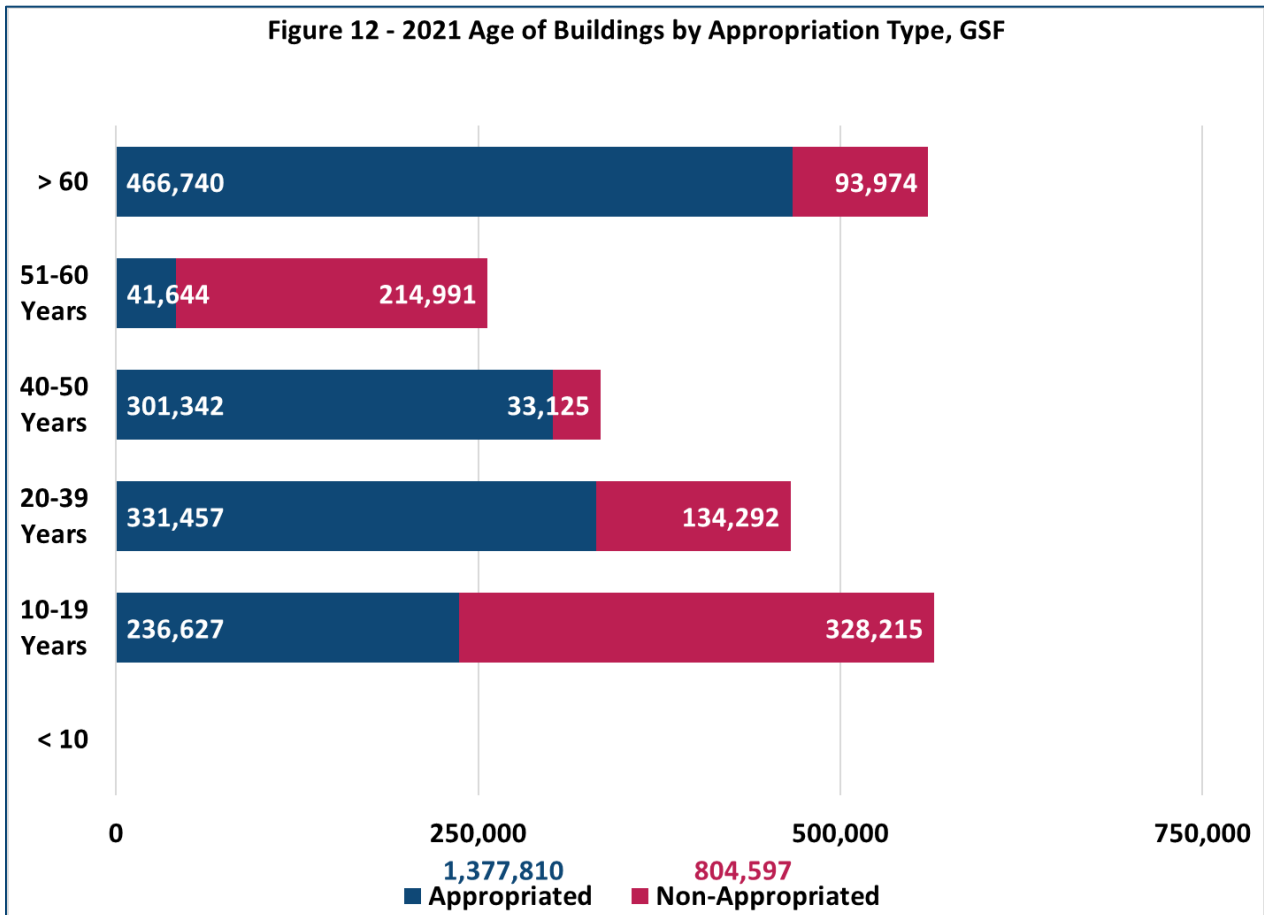
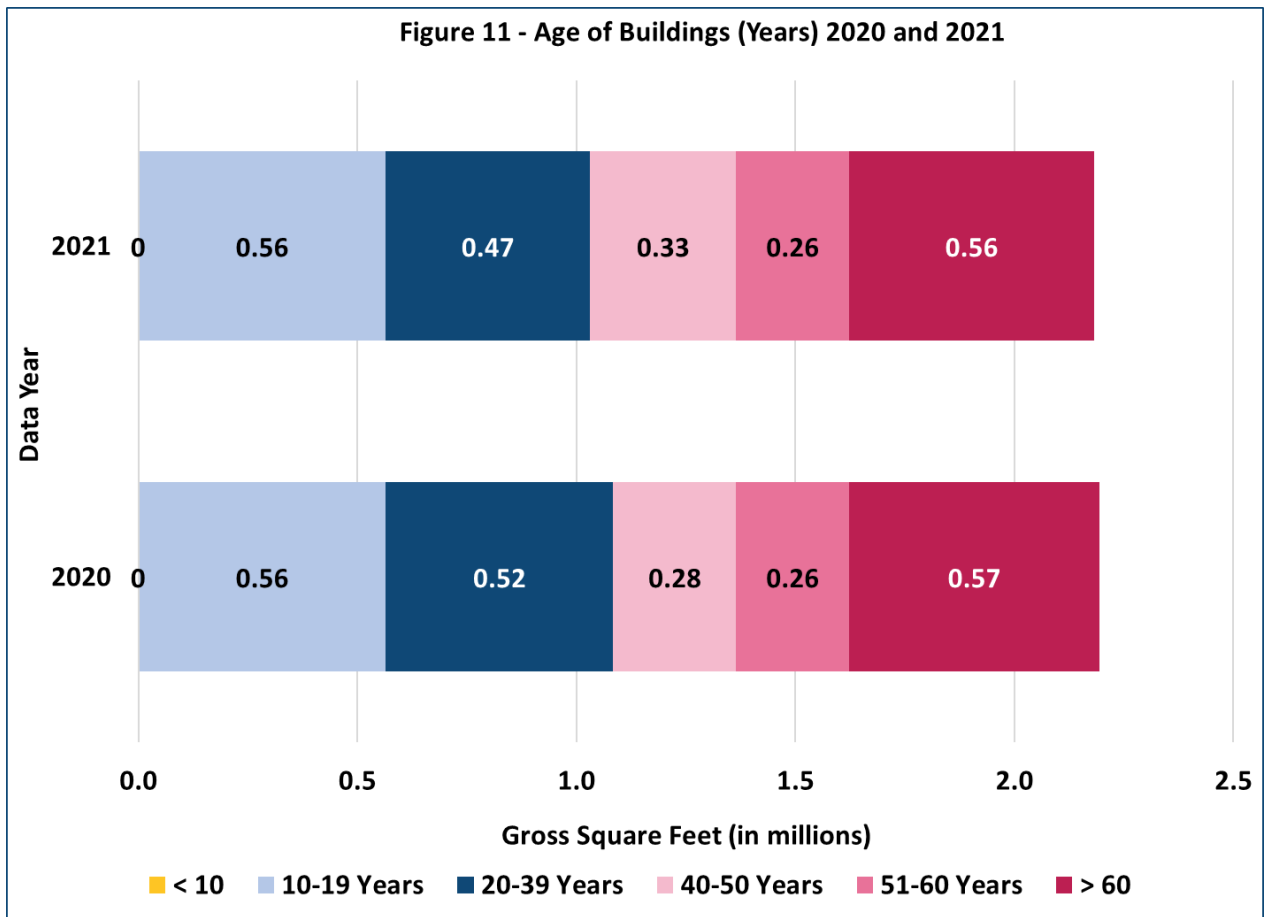


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021



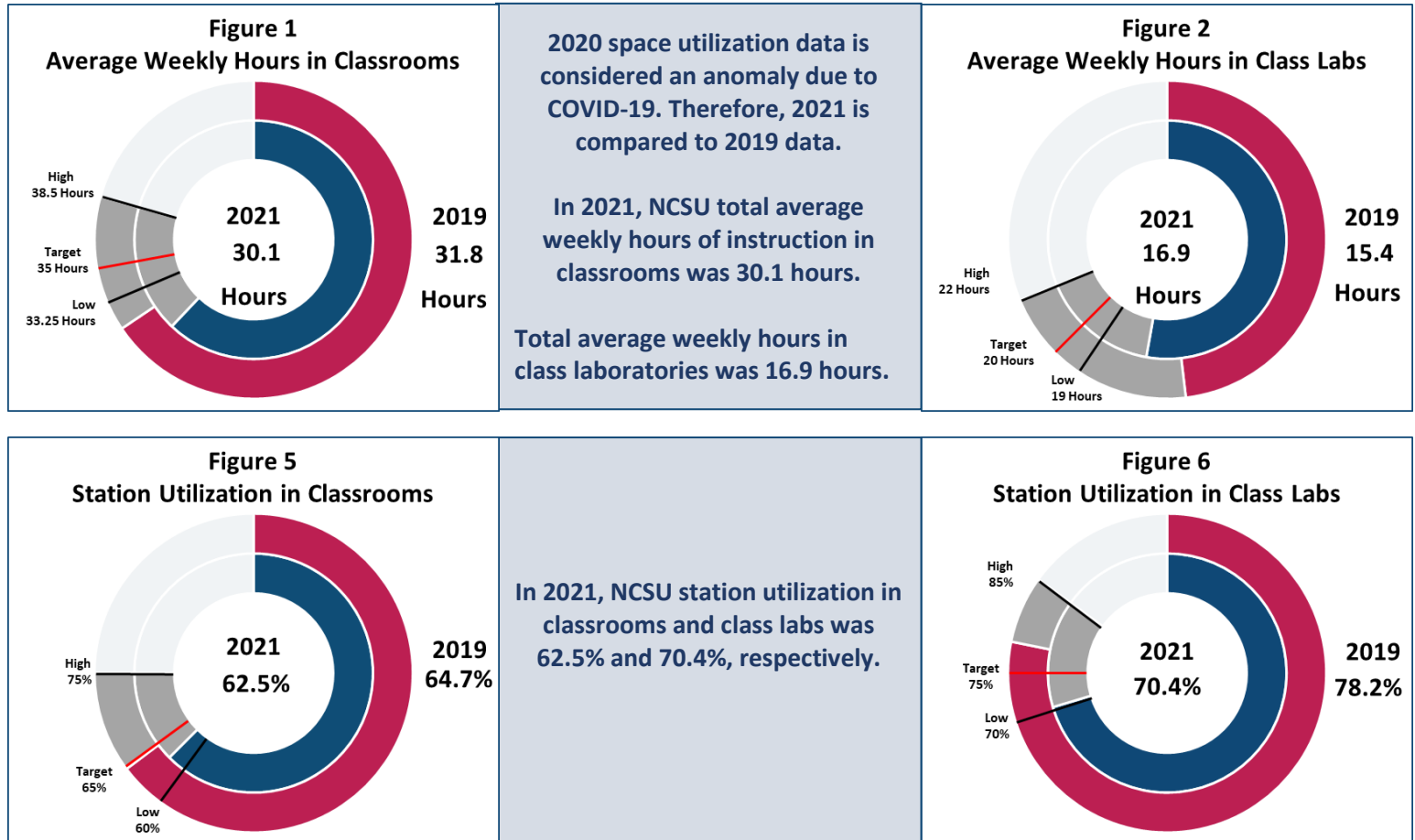
North Carolina Central University Summary



North Carolina State University Summary

Originally founded as the North Carolina College of Agriculture and Mechanic Arts in 1887, NC State was established as a land-grant college, teaching its first classes in Raleigh in 1889. NC State is the largest university in the Carolinas and a world-renowned research powerhouse with more than 170 startups and spinoffs based on NC State research. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university. The data in this summary excludes NC State Veterinary Medicine.

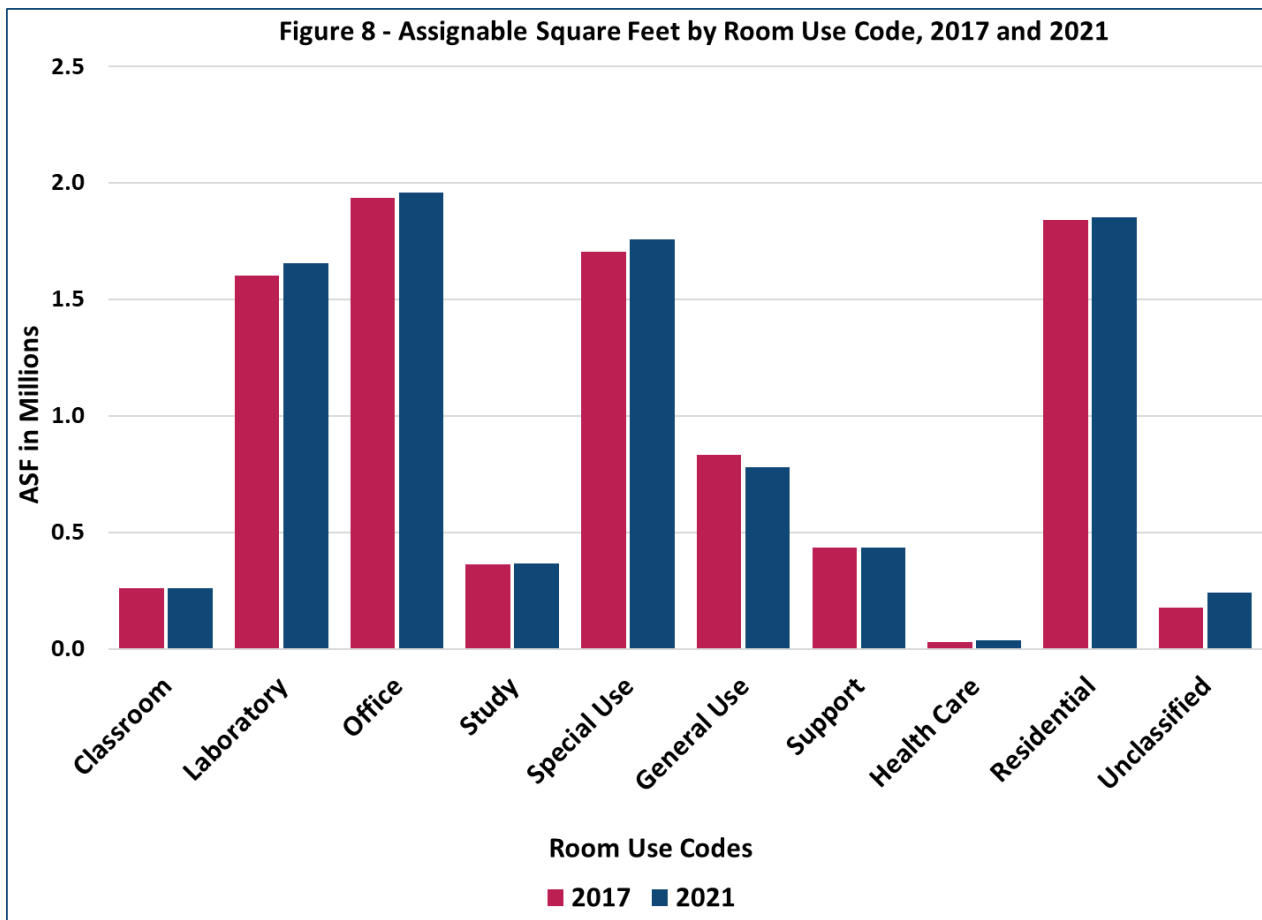
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at NCSU decreased from 9,353,620 to 9,336,417, or -0.2% from the previous year.

Program	Total ASF	Assignable Space by Program		% Change
		% of Total in 2021	% of Total in 2017	
Instruction	1,764,001	18.89%	18.51%	0.38%
Research	2,593,101	27.77%	27.47%	0.30%
Public Service	453,980	4.86%	4.78%	0.09%
Student Service	2,906,695	31.13%	31.87%	-0.74%
Other	1,618,640	17.34%	17.37%	-0.03%



Building Characteristics

North Carolina State University has 16,729,685 gross square feet of space comprised of 1,120 buildings (145 residential, 975 non-residential; 947 appropriated, 173 non-appropriated; 974 owned, 31 leased, 115 under other agreement terms) with 9,336,417 square feet of assignable space, having increased by 1.8% within the last five years. Since 2020, gross square footage has decreased by -5,500 SF, or -0.03%.

North Carolina State University Building Characteristics	
1,120 Total Buildings	
947 Appropriated	974 Owned
173 Non-Appropriated	31 Leased
1,120 Total	1,120 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

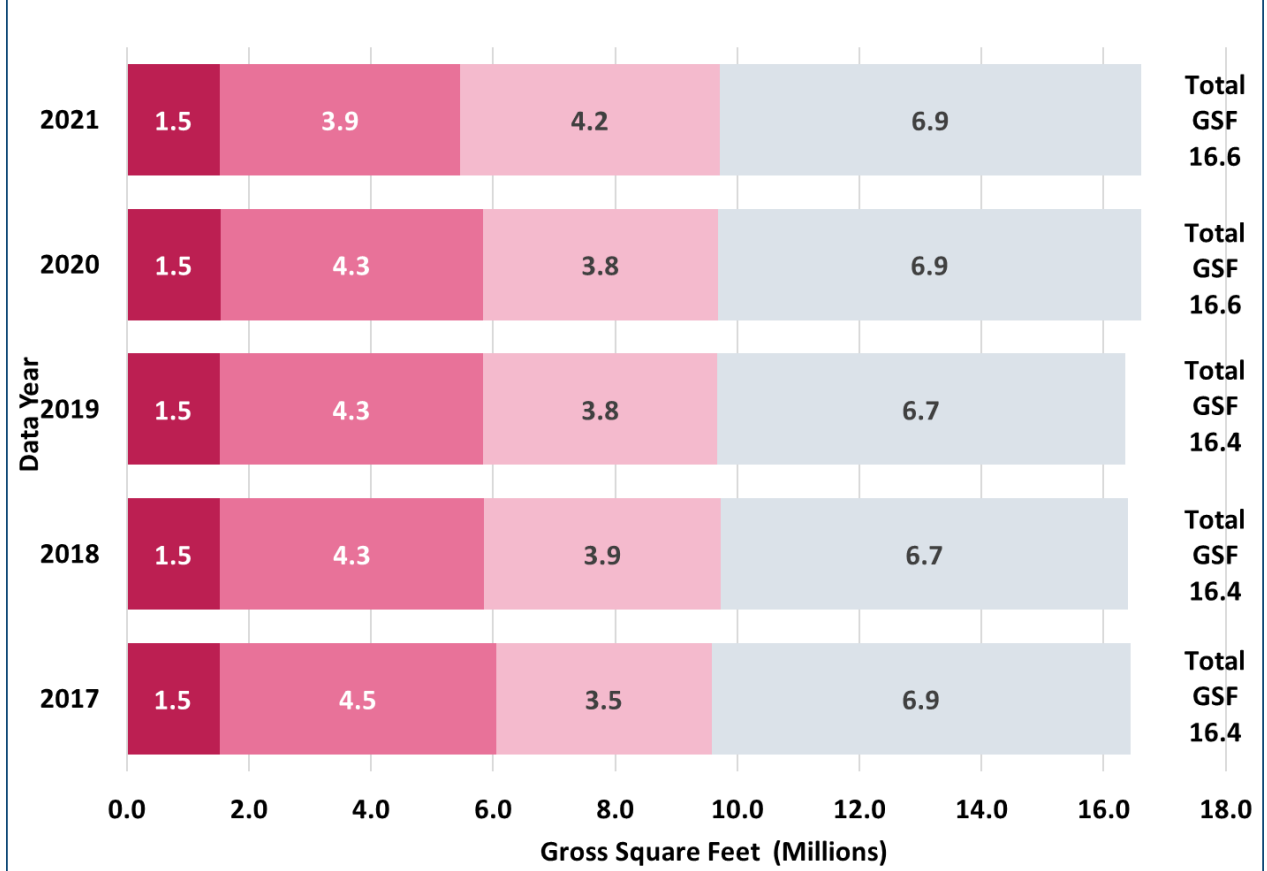
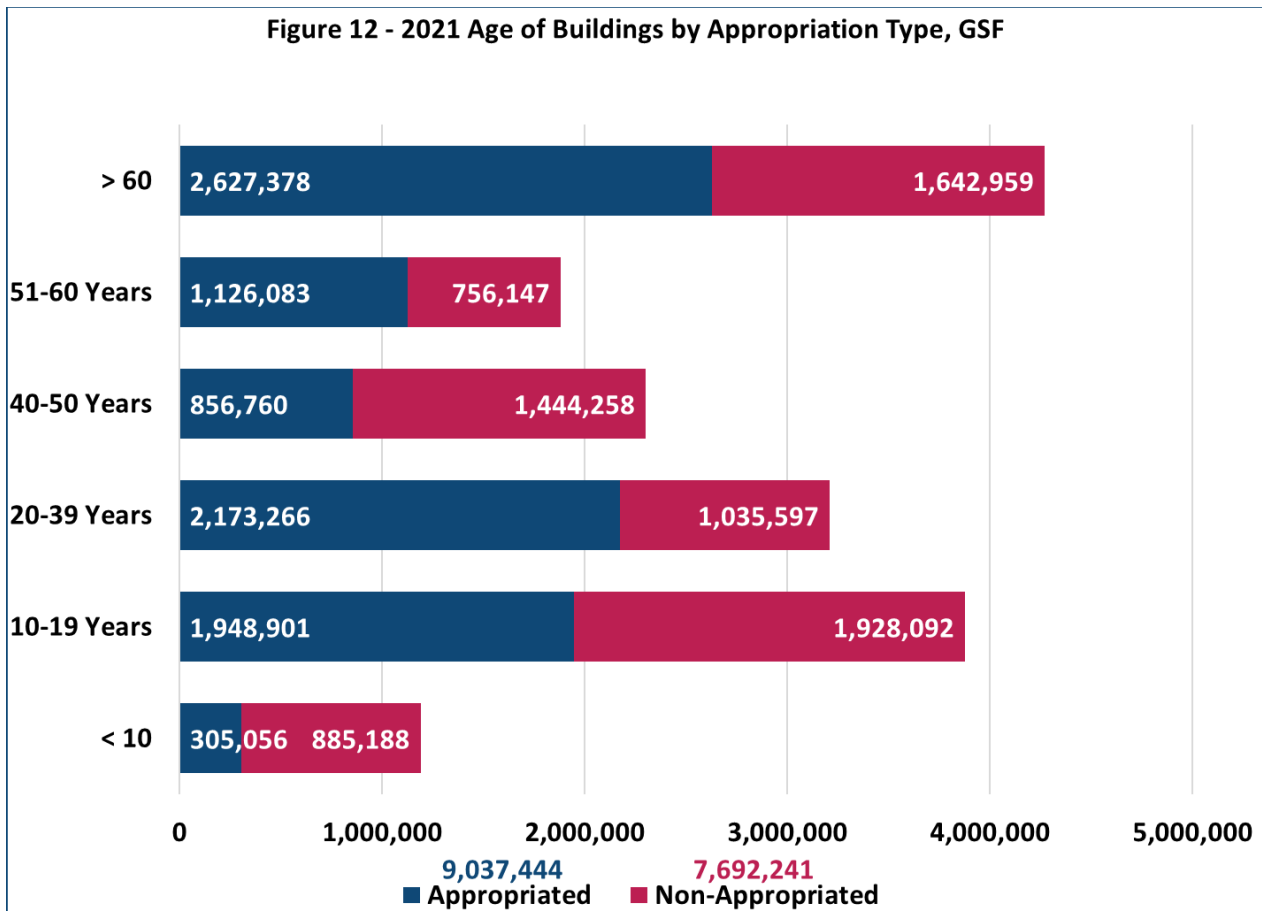
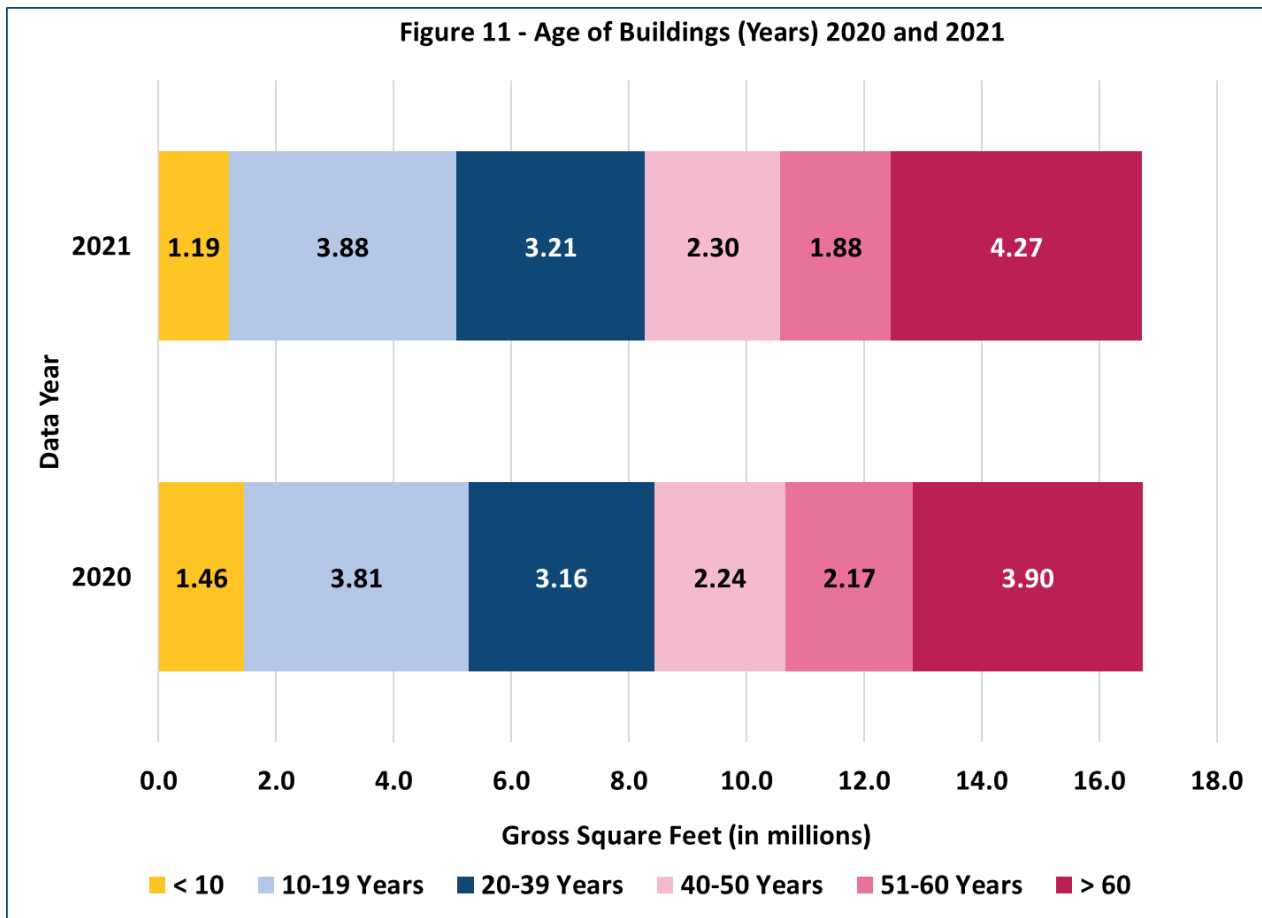


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021



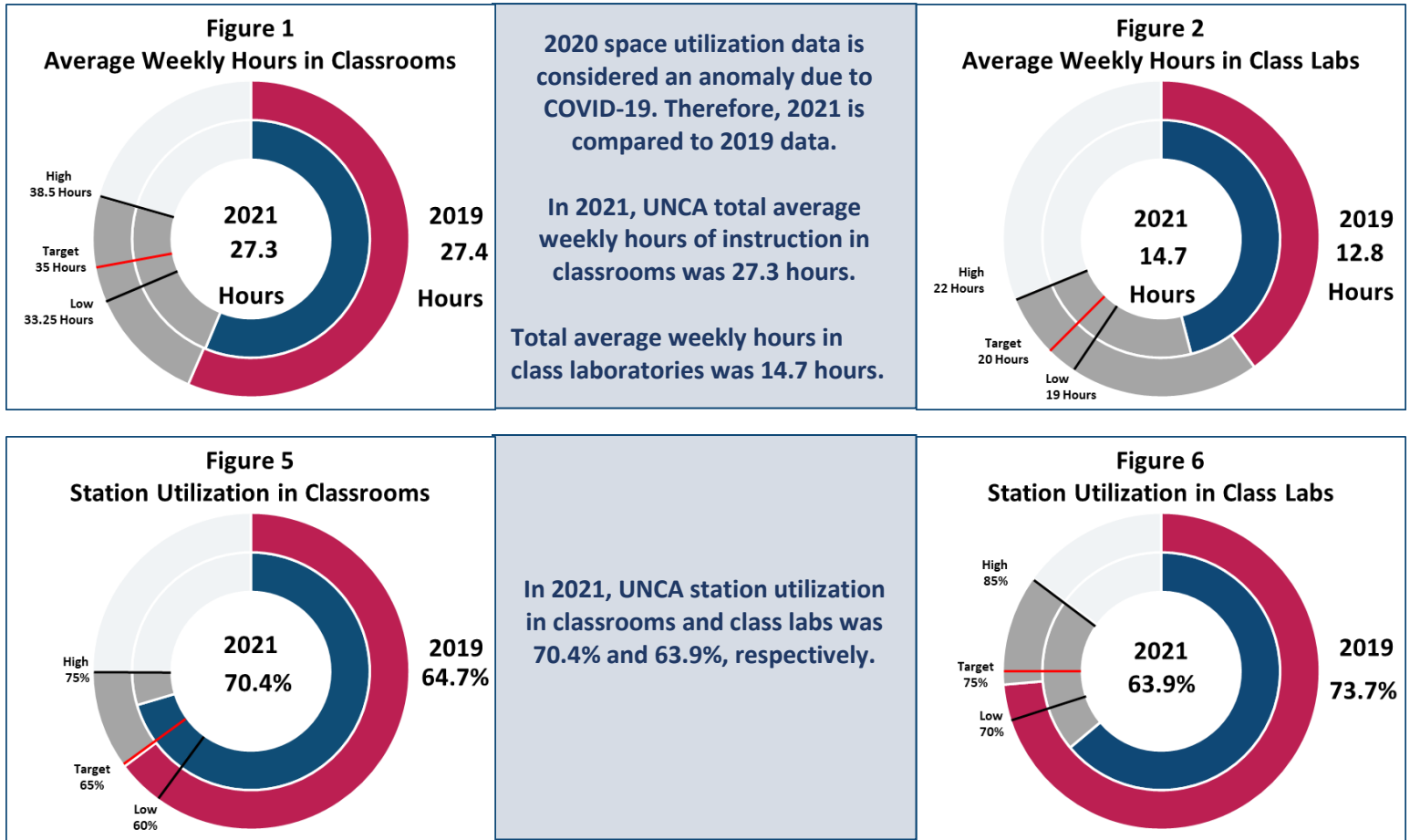
North Carolina State University Summary



University of North Carolina Asheville Summary

UNC Asheville offers an adaptive, affordable, and relevant education as the designated liberal arts and sciences campus in the UNC System. Established in Asheville in 1927 as the two-year Buncombe County Junior College, today UNCA focuses on undergraduate studies that prepare students for meaningful lives and careers that make an impact. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

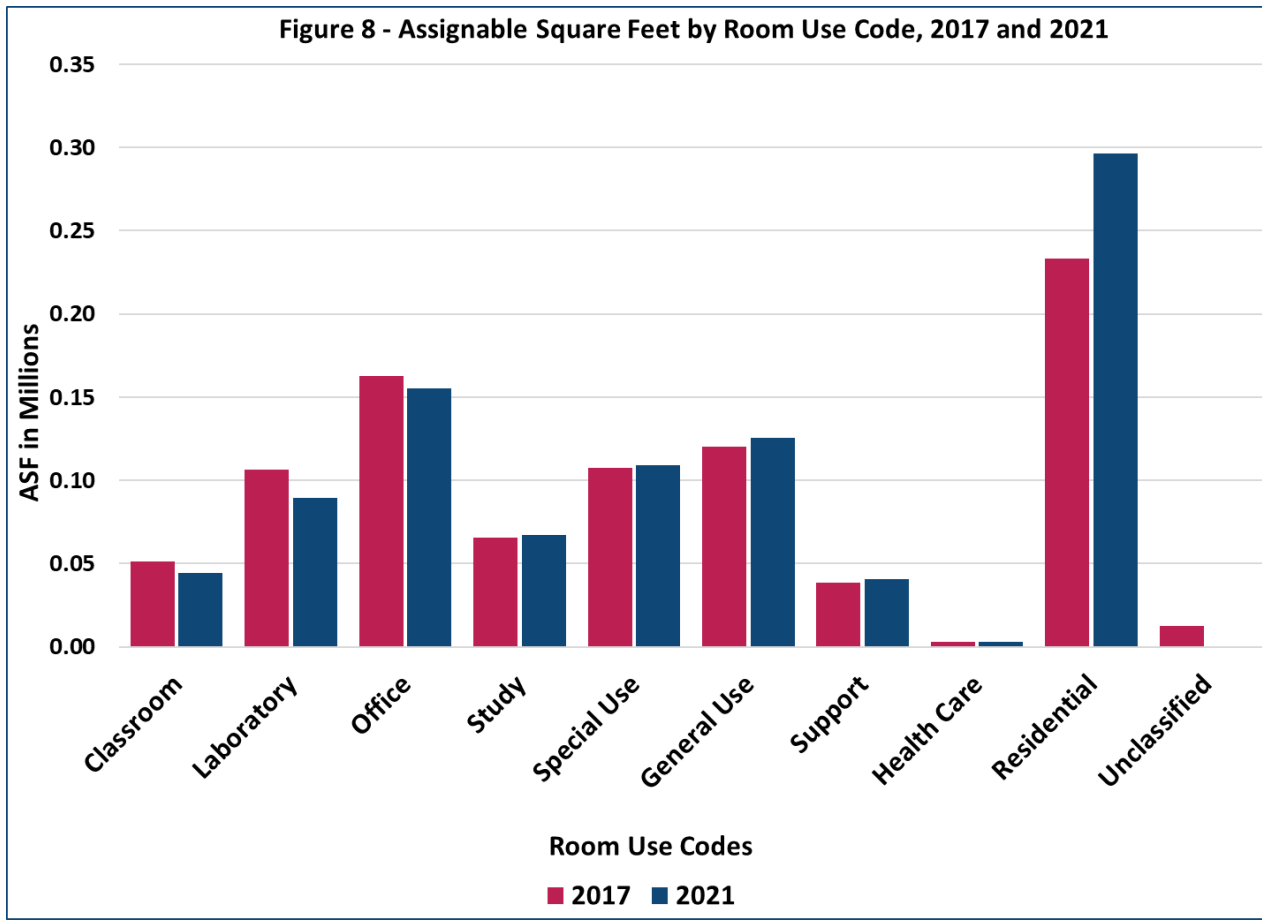
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at UNC Asheville decreased from 939,281 to 931,199, or -0.9% from the previous year.

Program	Assignable Space by Program			
	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	195,153	20.96%	24.53%	-3.58%
Research	13,337	1.43%	1.68%	-0.25%
Public Service	10,514	1.13%	1.20%	-0.07%
Student Service	530,296	56.95%	49.91%	7.03%
Other	181,899	19.53%	22.68%	-3.14%



Building Characteristics

University of North Carolina Asheville has 1,675,747 gross square feet of space comprised of 51 buildings (21 residential, 30 non-residential; 24 appropriated, 27 non-appropriated; 36 owned, 1 leased, 14 under other agreement terms) with 931,199 square feet of assignable space, having increased by 3.3% within the last five years. Since 2020, gross square footage has increased 32,051 SF, or 1.9%.

UNC Asheville Building Characteristics	
51 Total Buildings	
24 Appropriated	36 Owned
27 Non-Appropriated	1 Leased
<hr/>	<hr/>
51 Total	51 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

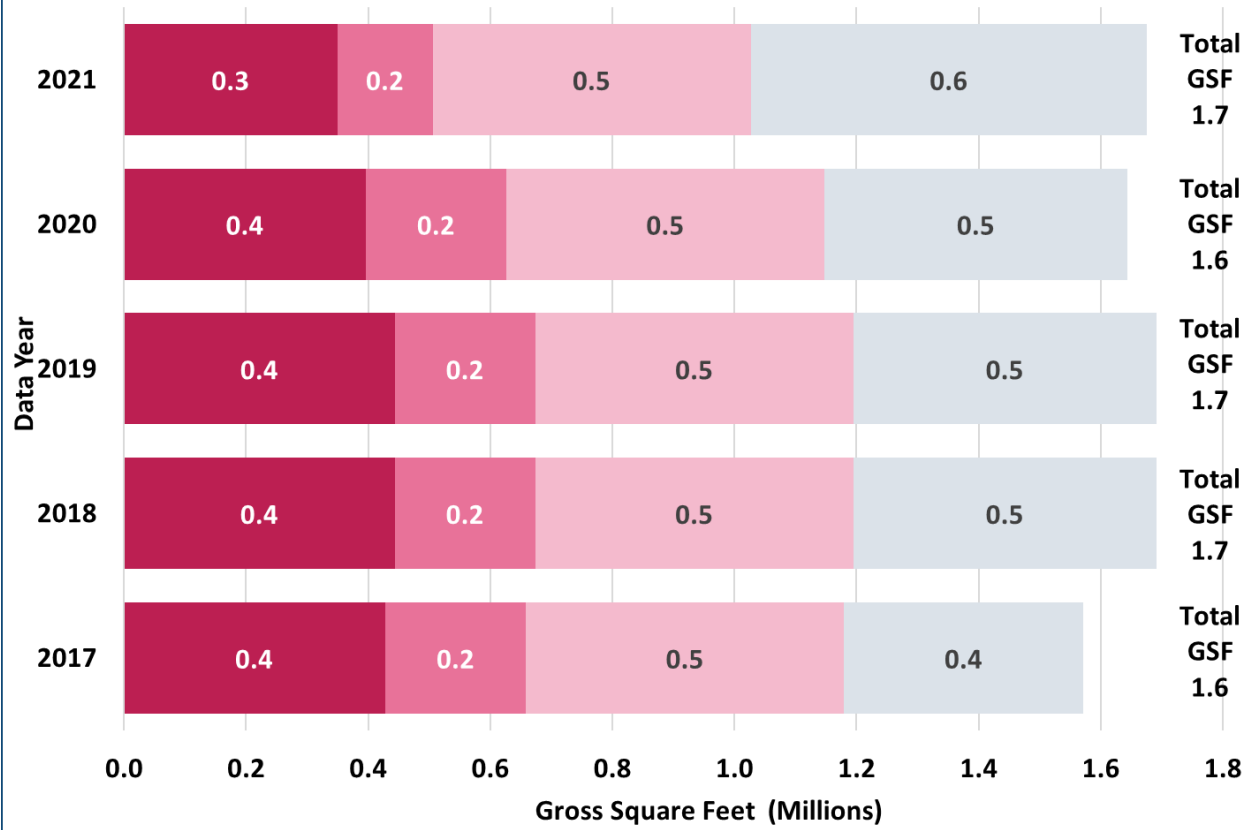
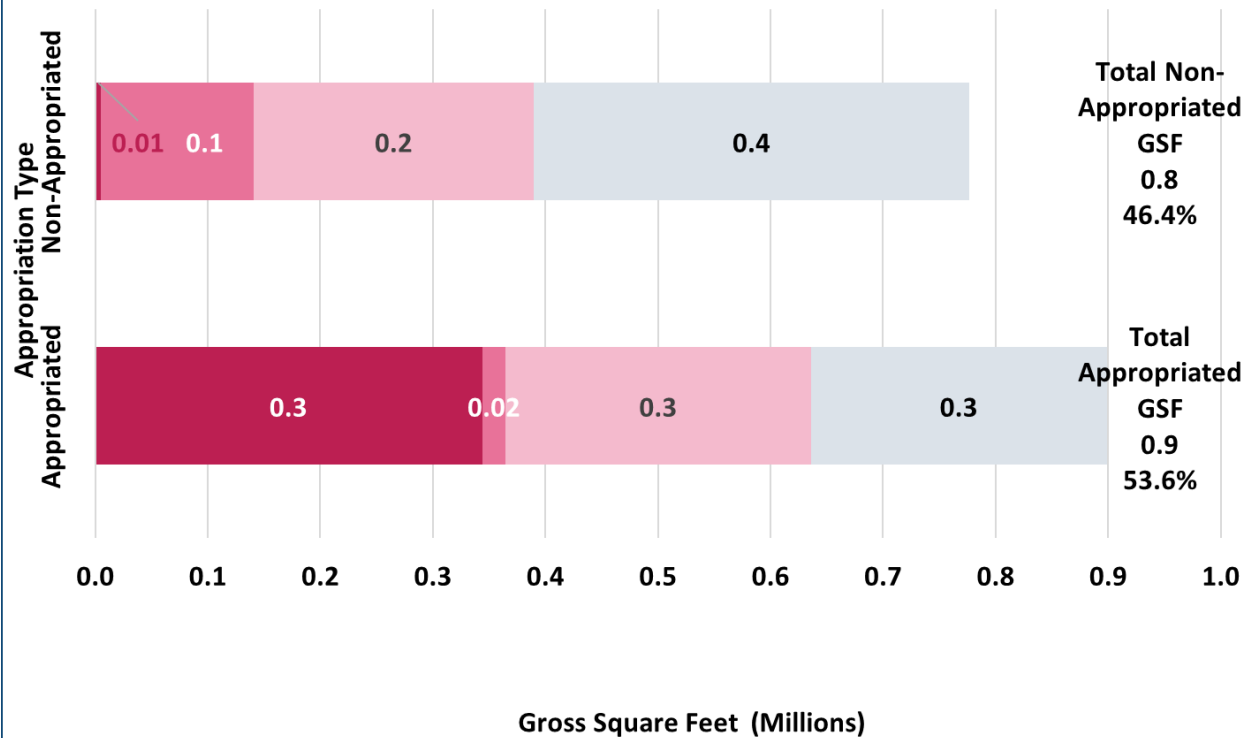
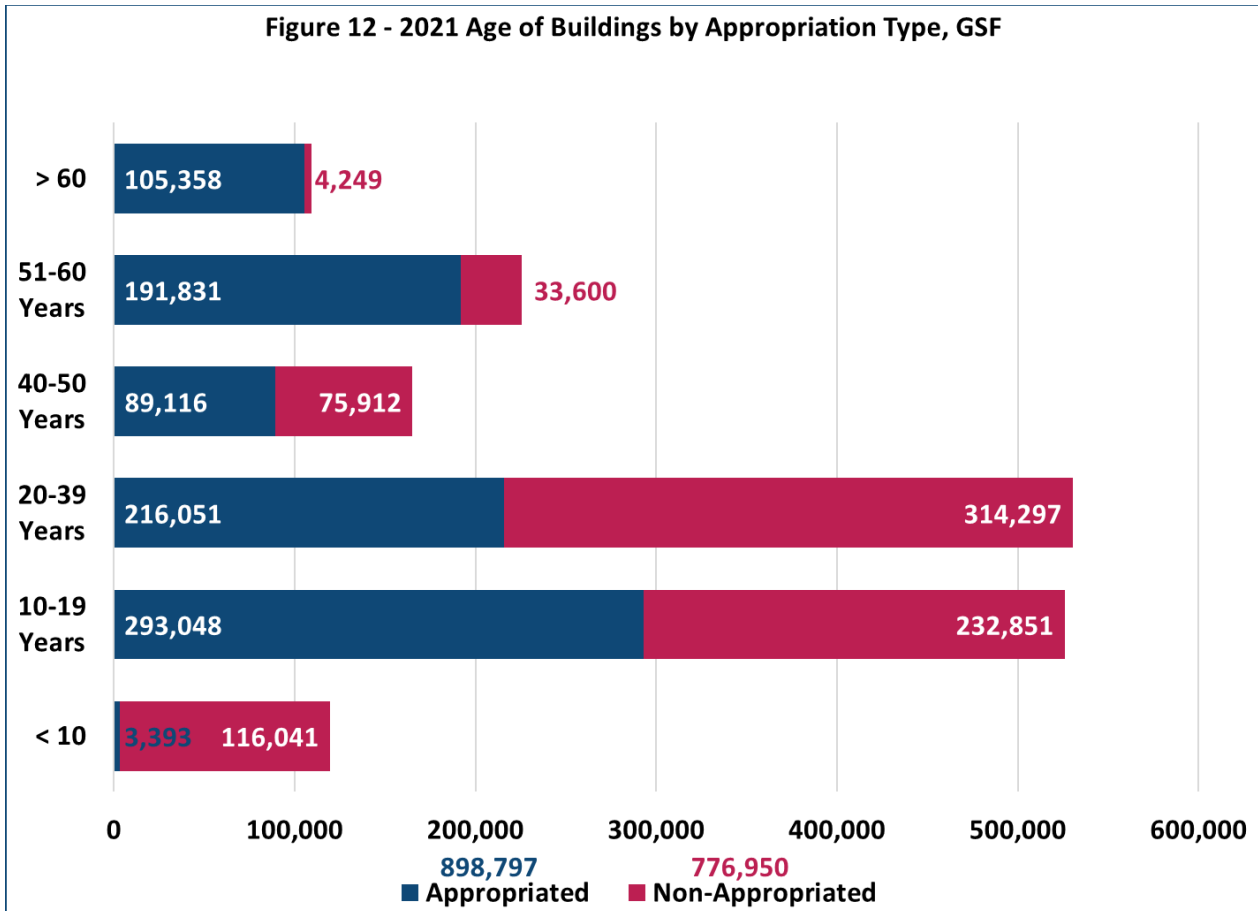
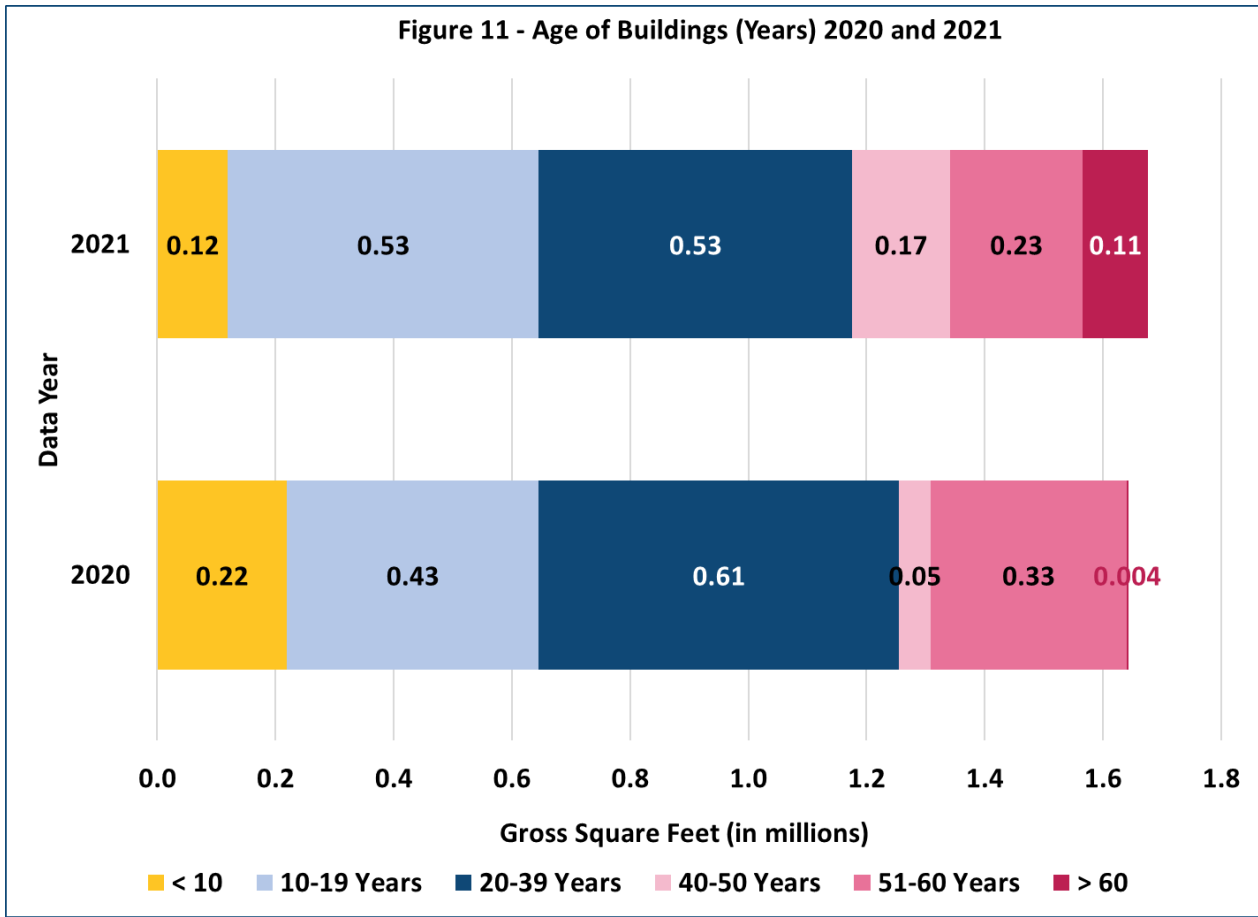


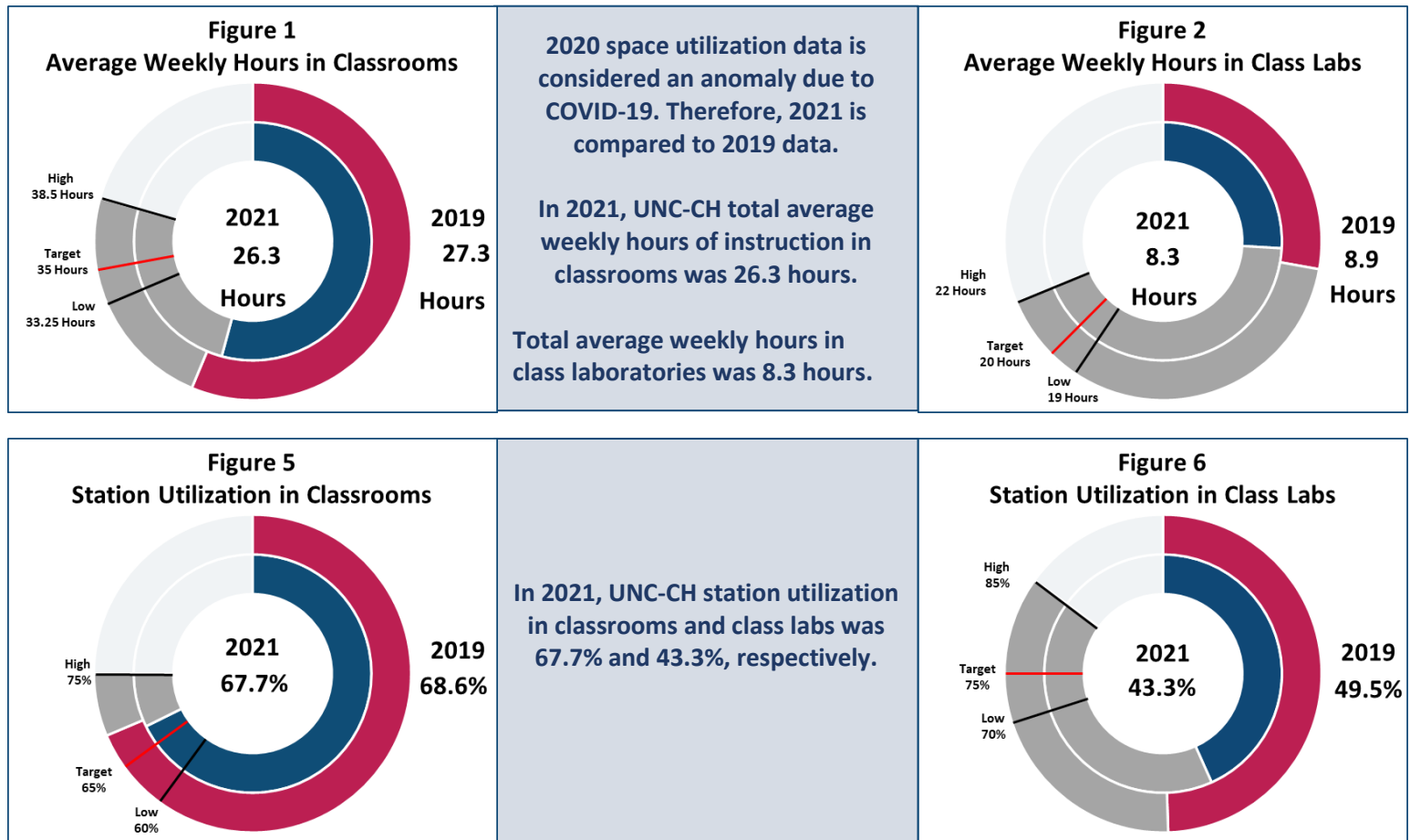
Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021





The University of North Carolina at Chapel Hill is a leading global public research university, committed to and a leader in providing access to a high-quality, affordable education to students from all backgrounds. Carolina’s nationally recognized teaching, groundbreaking research, and dedication to public service continue a legacy that began when the University was chartered as the nation’s first public university in 1789. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university. The data in this summary excludes UNC-Chapel Hill Health Affairs.

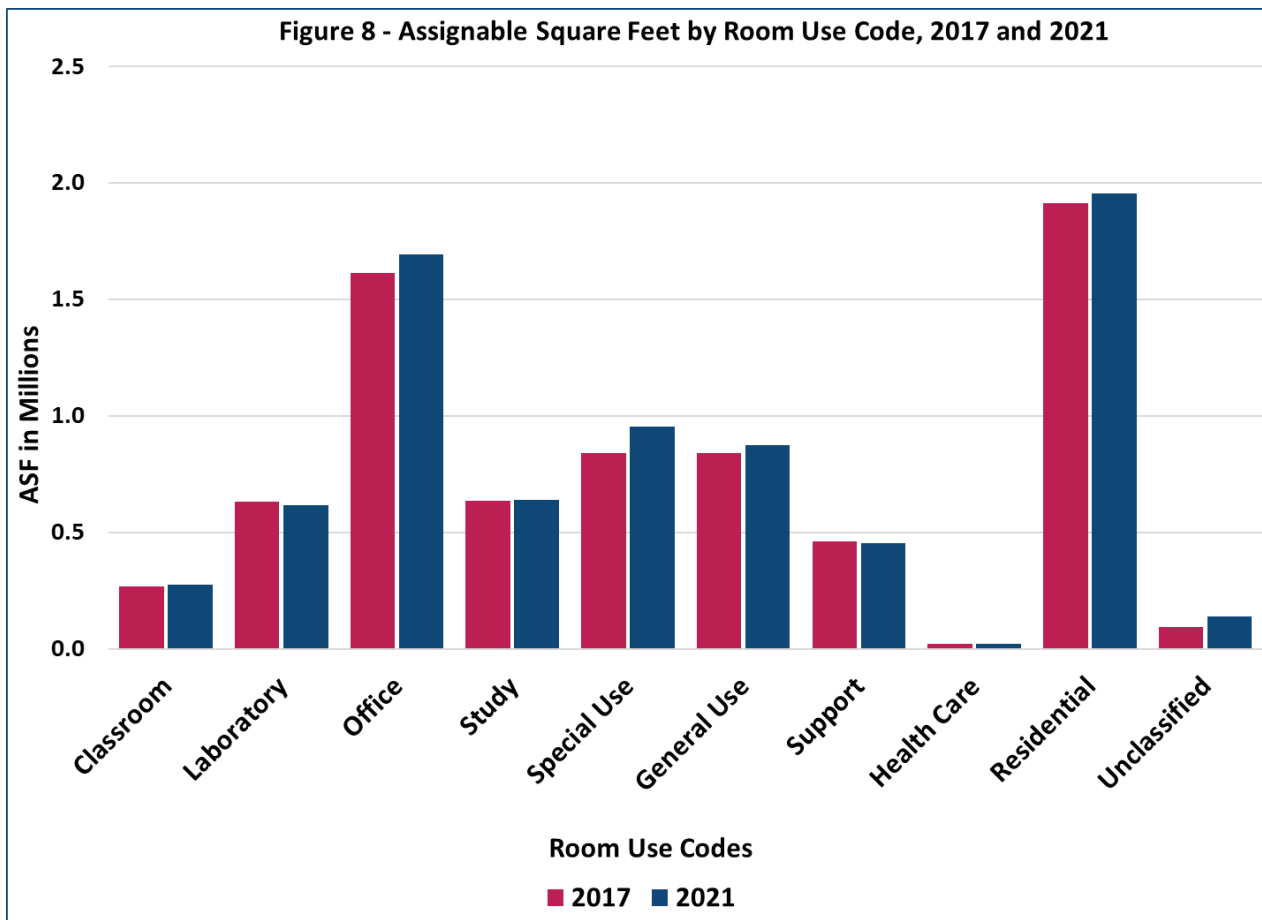
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at UNC-Chapel Hill increased from 7,431,949 to 7,623,259, or 2.6% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	1,841,589	24.16%	21.77%	2.39%
Research	565,426	7.42%	7.47%	-0.05%
Public Service	46,110	0.60%	0.64%	-0.04%
Student Service	3,509,067	46.03%	47.57%	-1.53%
Other	1,661,067	21.79%	22.55%	-0.76%



Building Characteristics

The University of North Carolina at Chapel Hill has 13,701,486 gross square feet of space comprised of 379 buildings (78 residential, 301 non-residential; 164 appropriated, 215 non-appropriated; 356 owned, 20 leased, 3 under other agreement terms) with 7,623,259 square feet of assignable space, having increased by 4.2% within the last five years. Since 2020, gross square footage has increased by 255,937 SF, or 1.9%.

UNC Chapel Hill Building Characteristics	
379 Total Buildings	
164 Appropriated	356 Owned
215 Non-Appropriated	20 Leased
<hr/>	<hr/>
379 Total	379 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

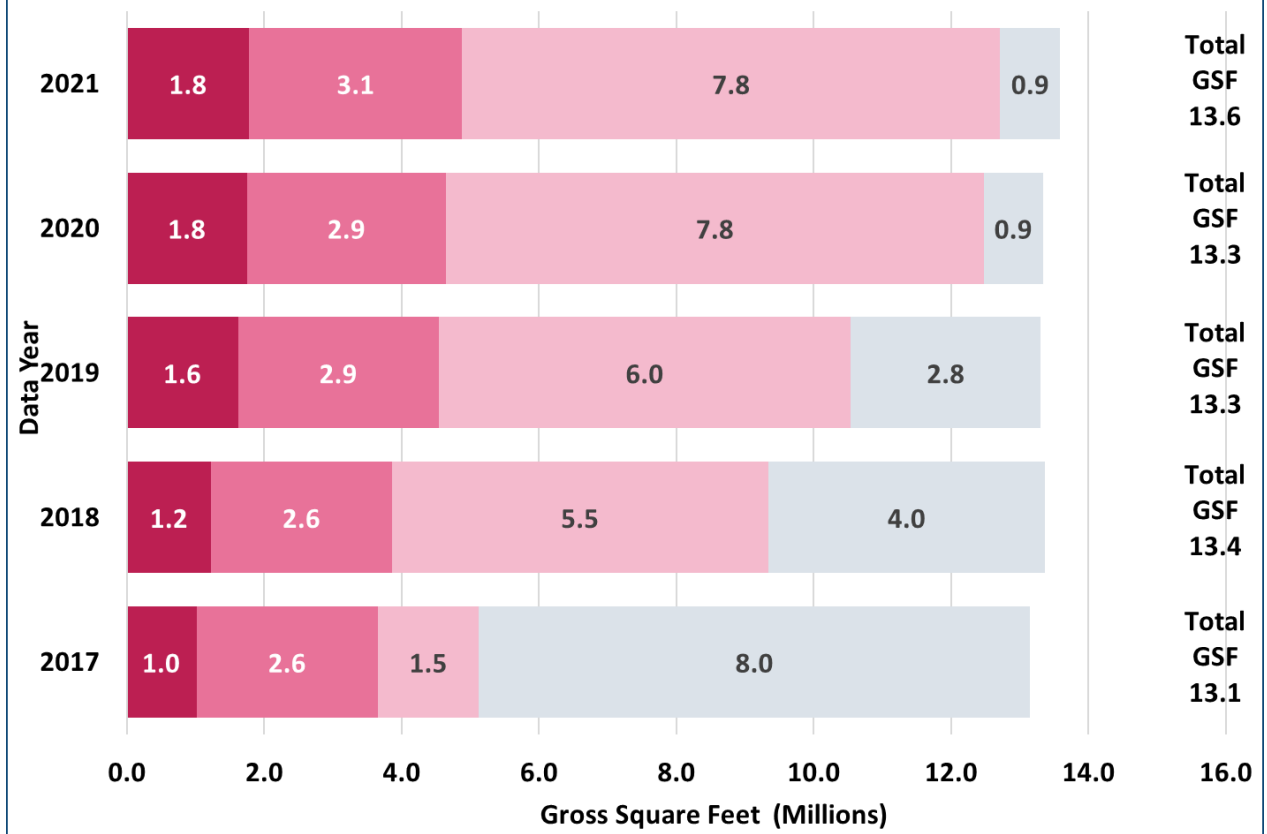
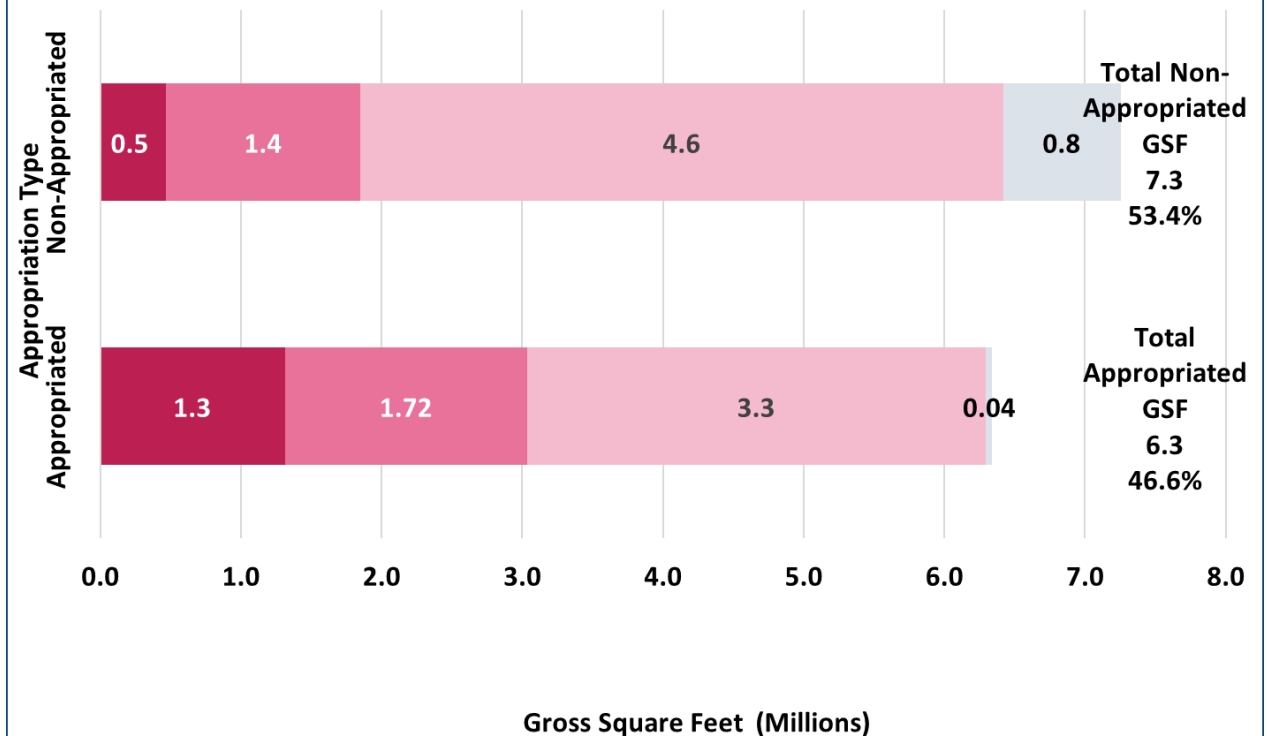
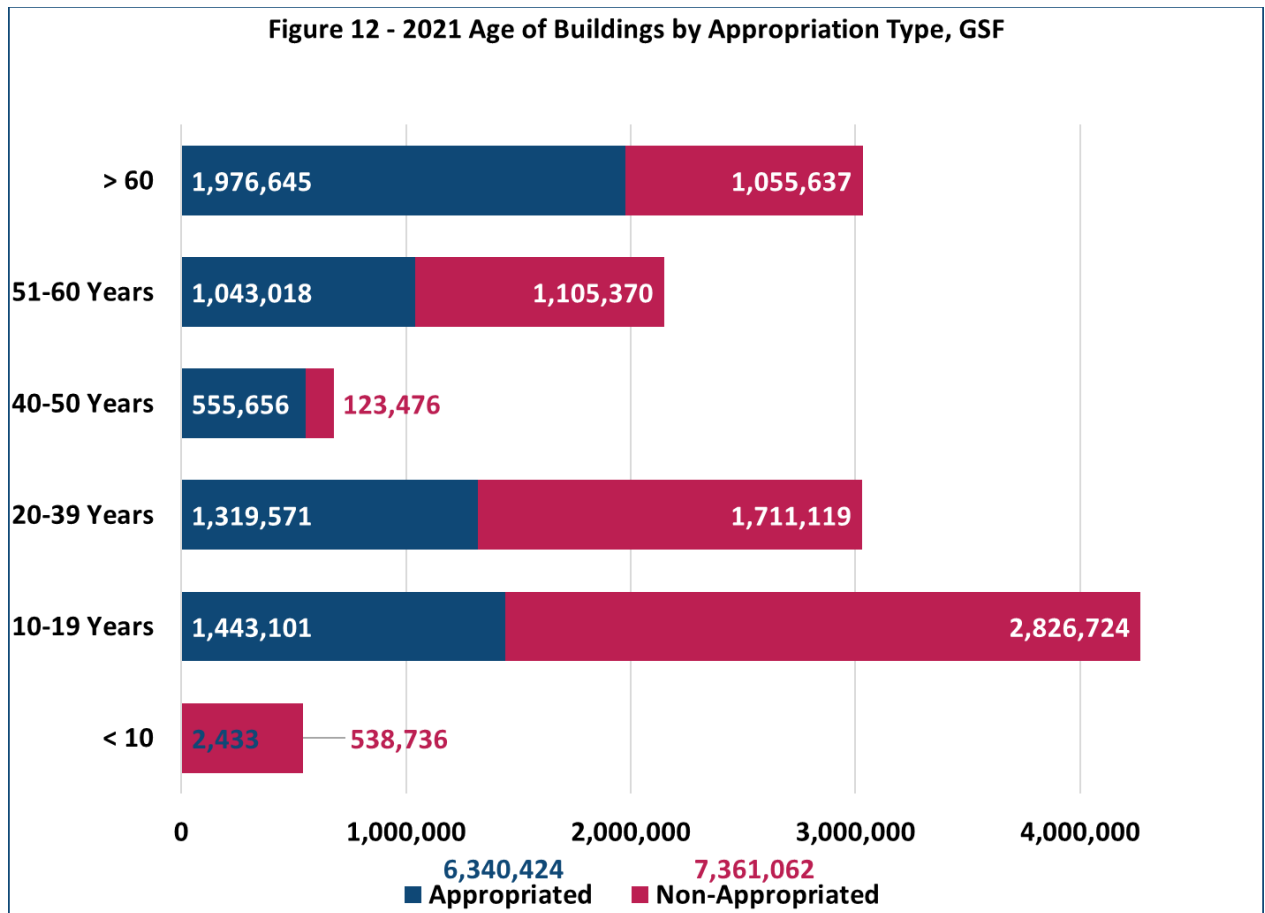
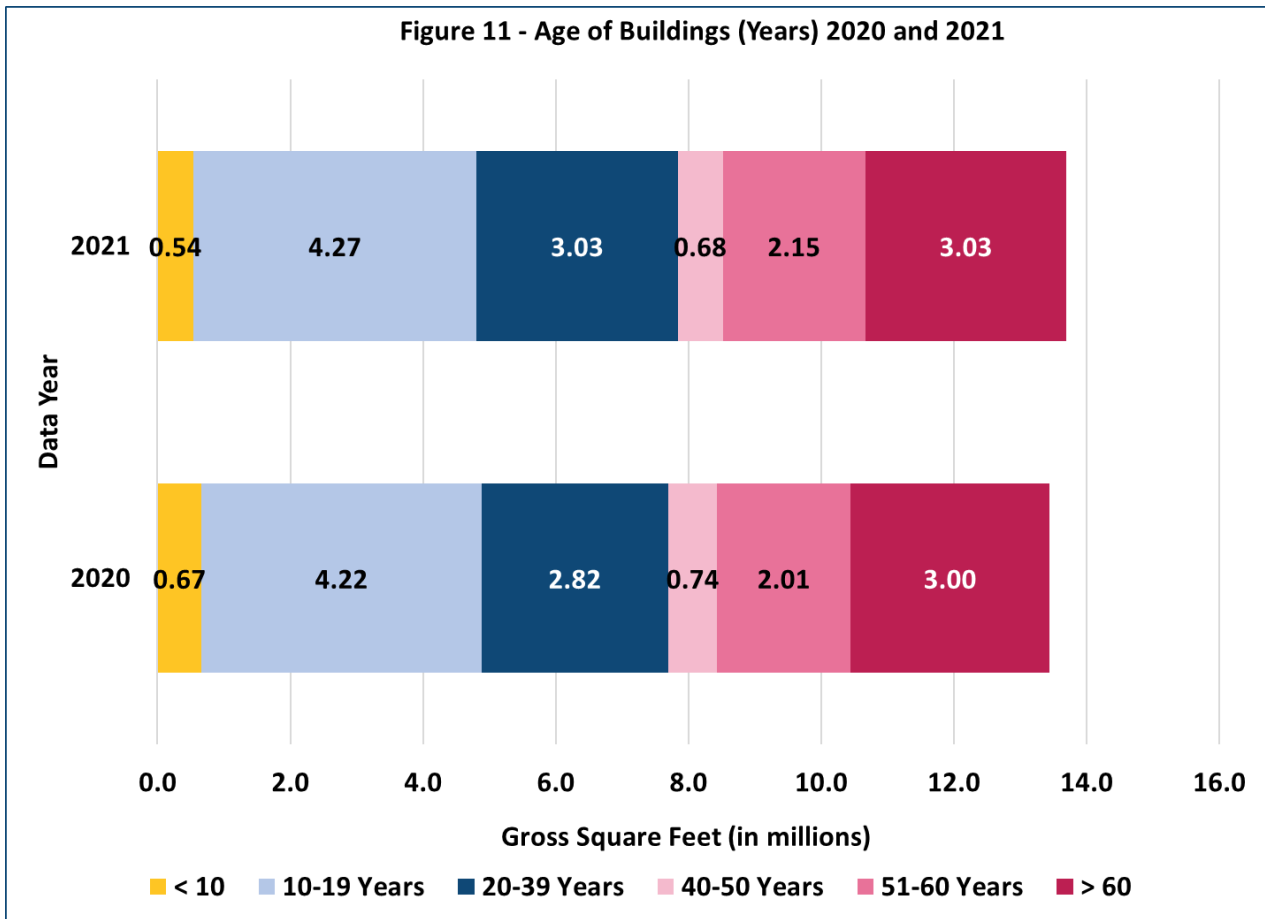


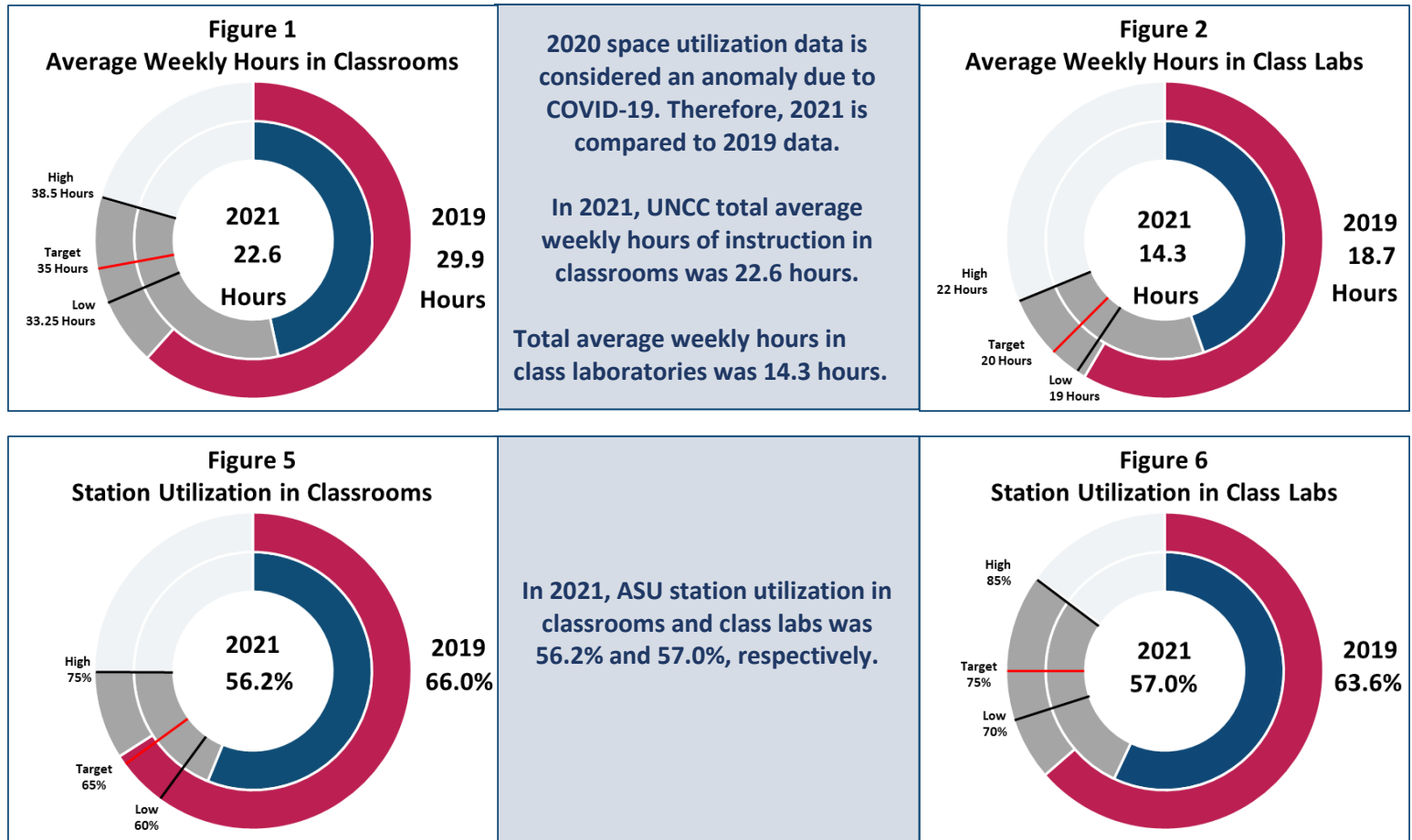
Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021





UNC Charlotte is North Carolina’s urban research university and the third largest in the UNC System, located in the state’s largest city. Established by action of the North Carolina General Assembly in 1949, today UNCC offers competitive undergraduate, graduate, and professional programs in areas shaping the future of business, healthcare, education, energy, data science, and other key fields. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

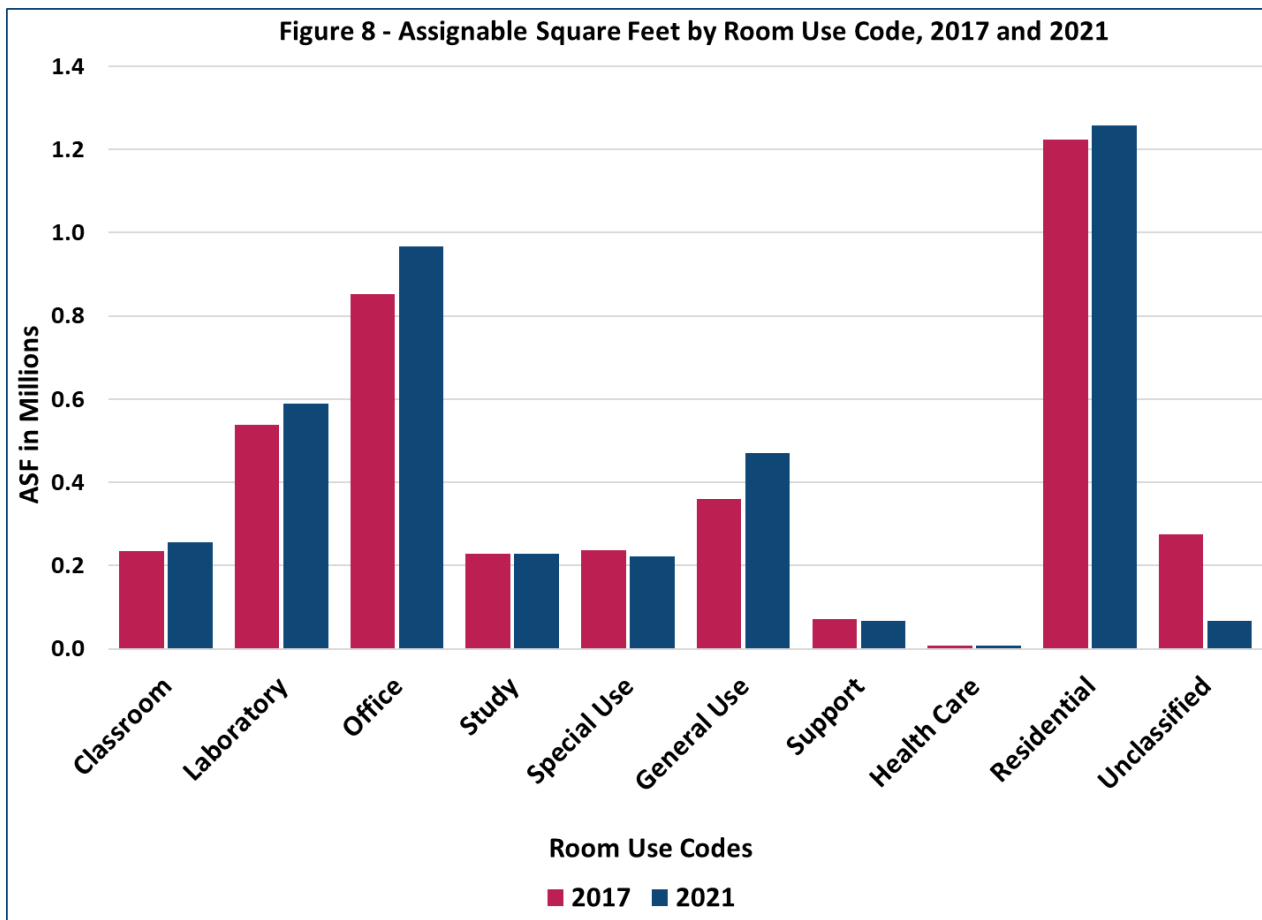
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at UNC Charlotte increased from 4,083,322 to 4,132,970, or 1.2% from the previous year.

Program	Assignable Space by Program			
	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	937,695	22.69%	20.49%	2.20%
Research	314,391	7.61%	7.59%	0.02%
Public Service	67,816	1.64%	1.54%	0.10%
Student Service	2,079,262	50.31%	48.35%	1.96%
Other	733,806	17.75%	22.04%	-4.29%



Building Characteristics

University of North Carolina Charlotte has 10,036,202 gross square feet of space comprised of 122 buildings (34 residential, 88 non-residential; 52 appropriated, 70 non-appropriated; 77 owned, 0 leased, 45 under other agreement terms) with 4,132,970 square feet of assignable space, having increased by 2.6% within the last five years. Since 2020, gross square footage has increased by 140,459 SF, or 1.4%.

UNC Charlotte Building Characteristics	
122 Total Buildings	
52 Appropriated	77 Owned
70 Non-Appropriated	0 Leased
122 Total	45 Other Agreement
	122 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

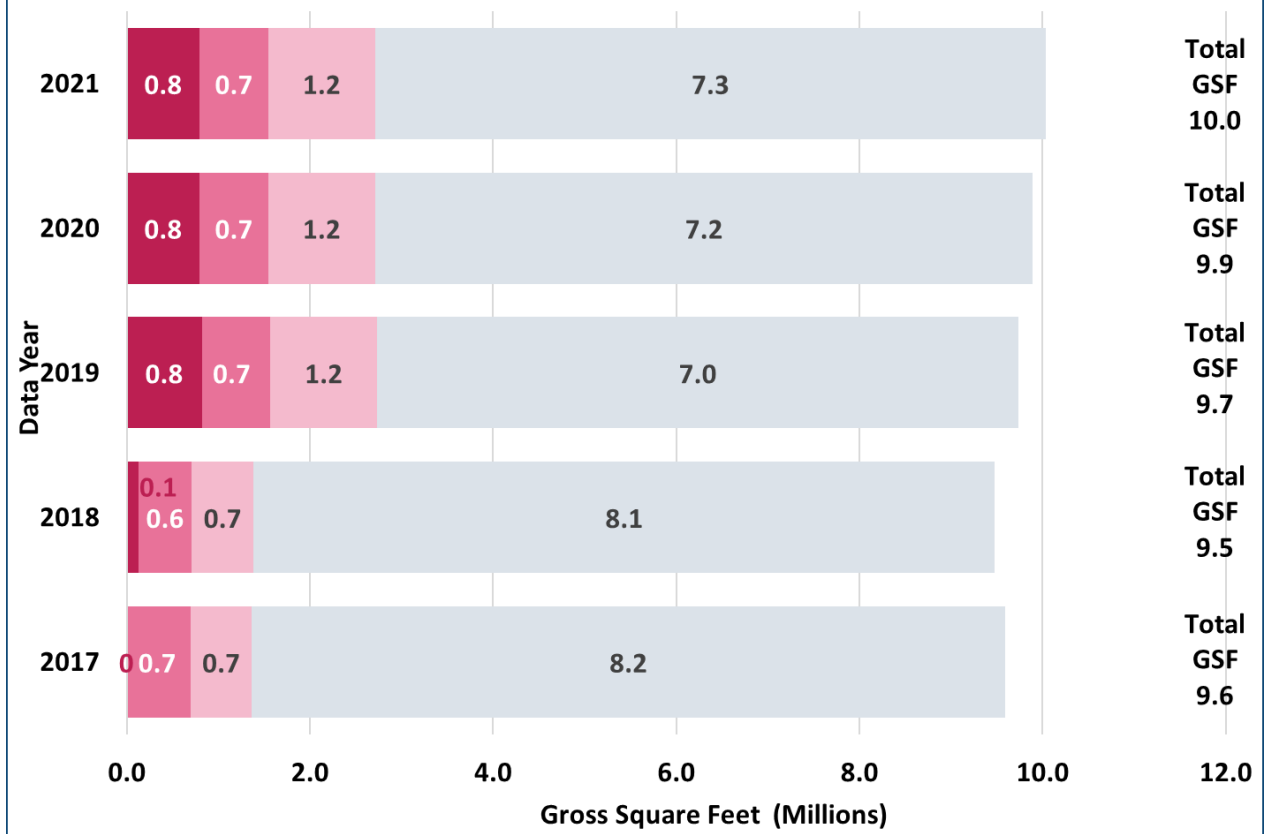
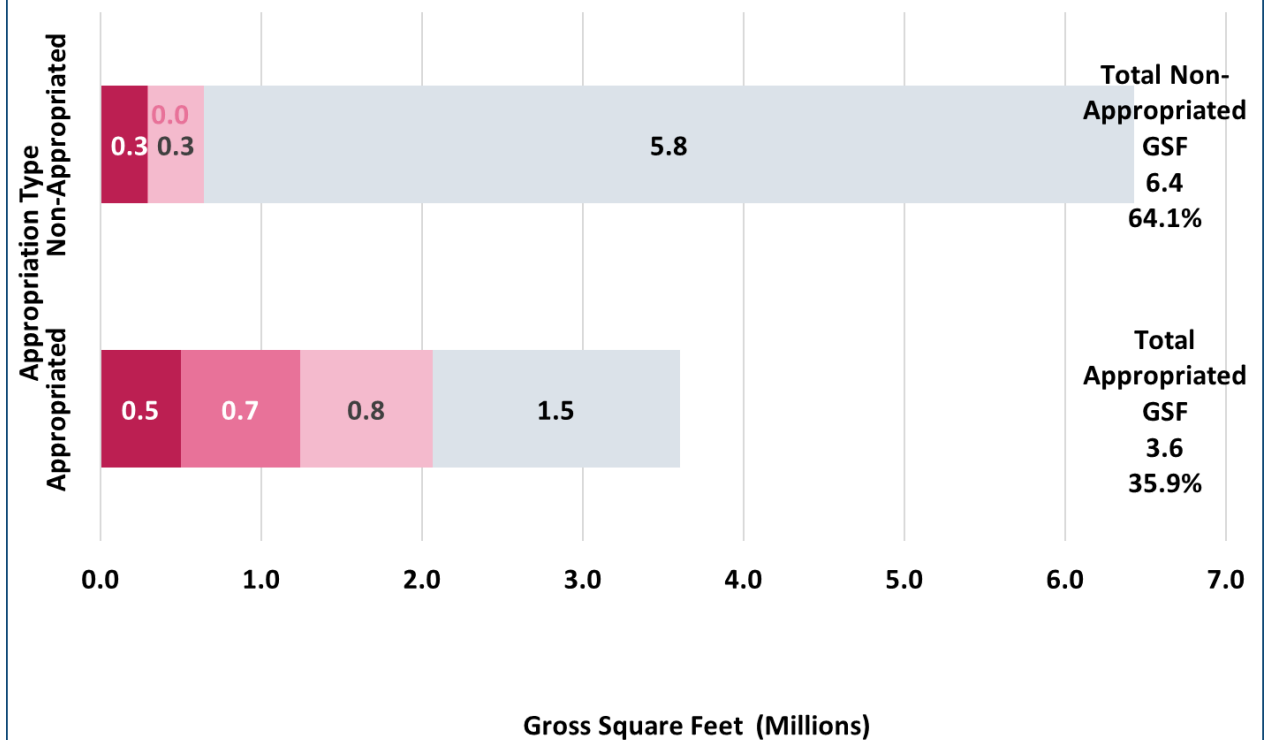
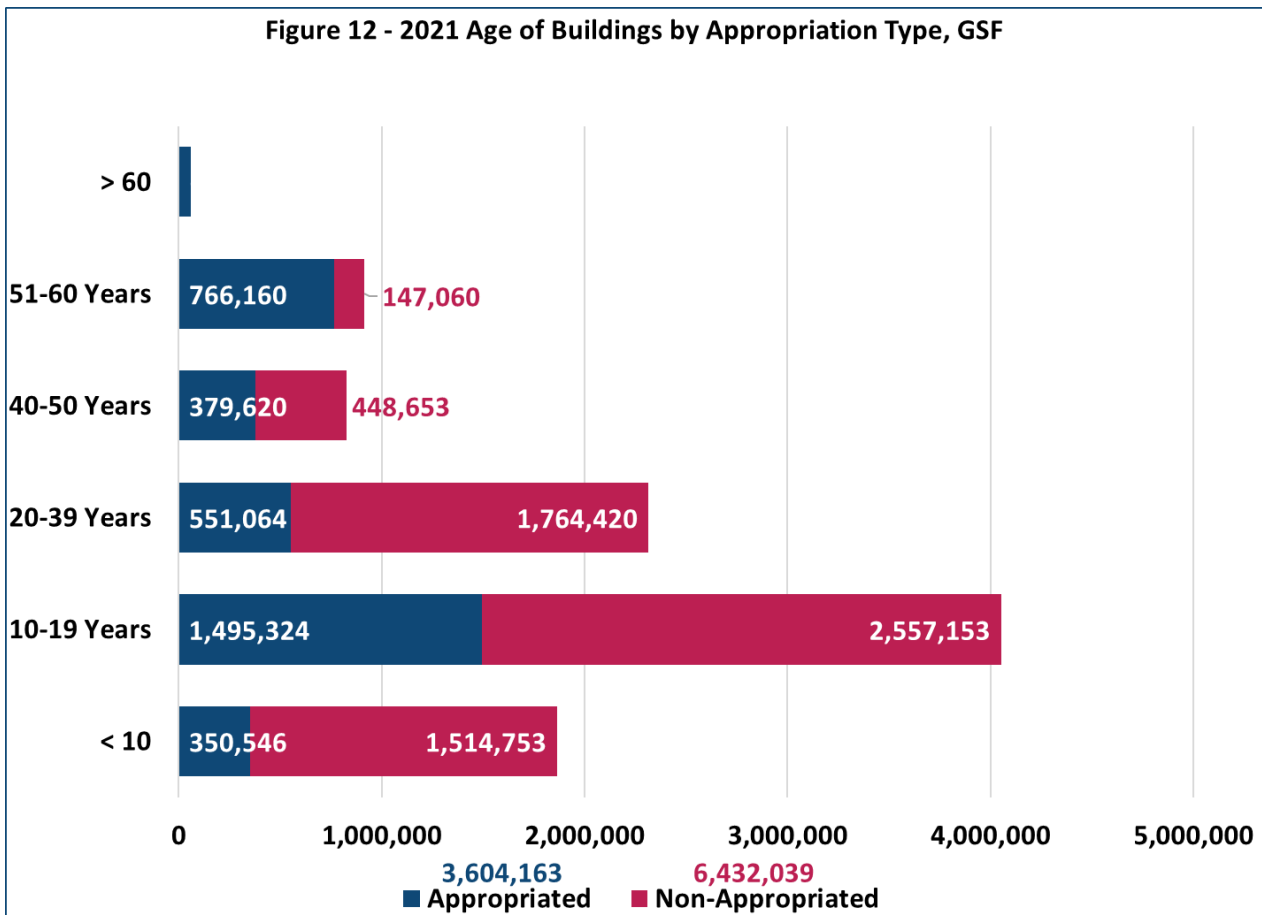
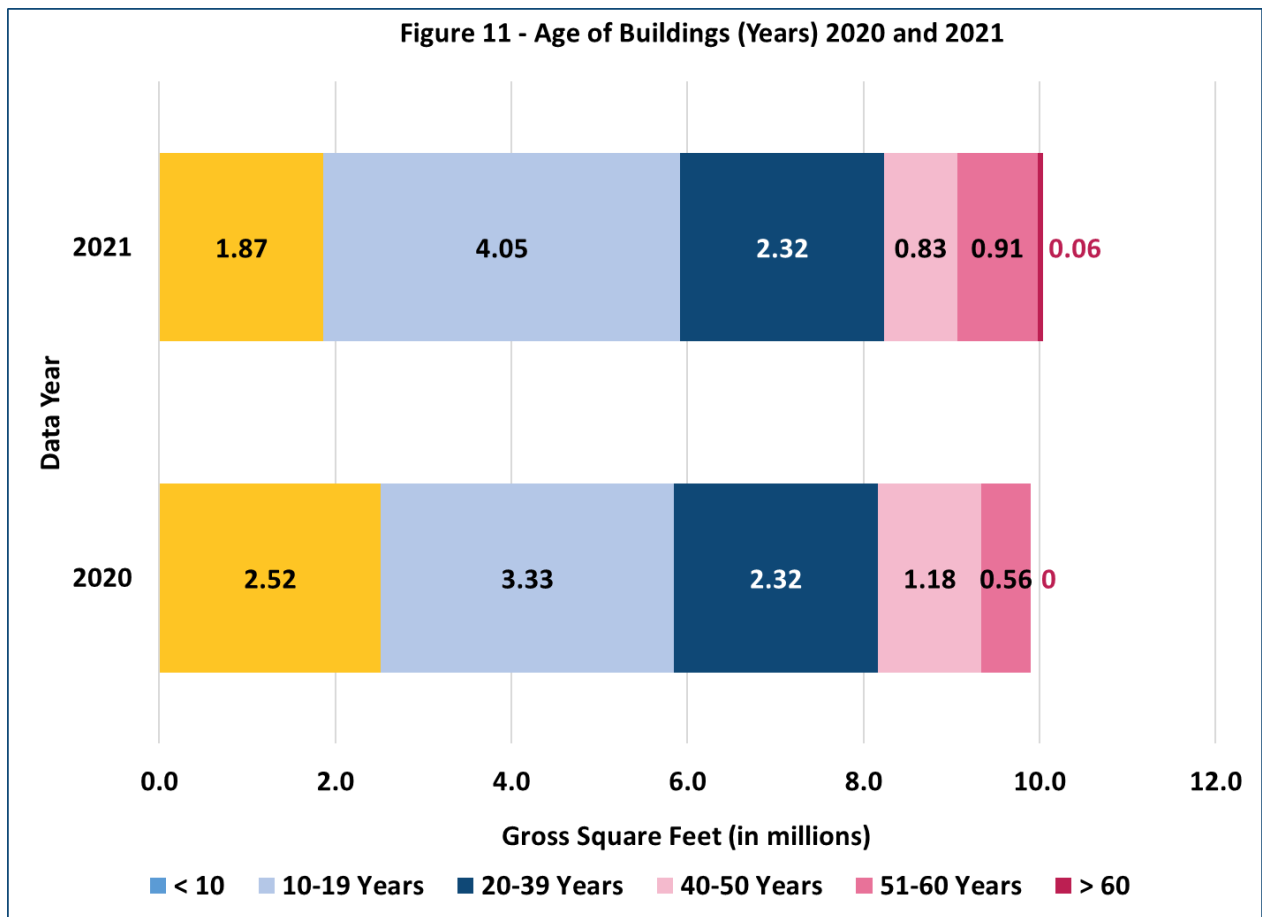


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021

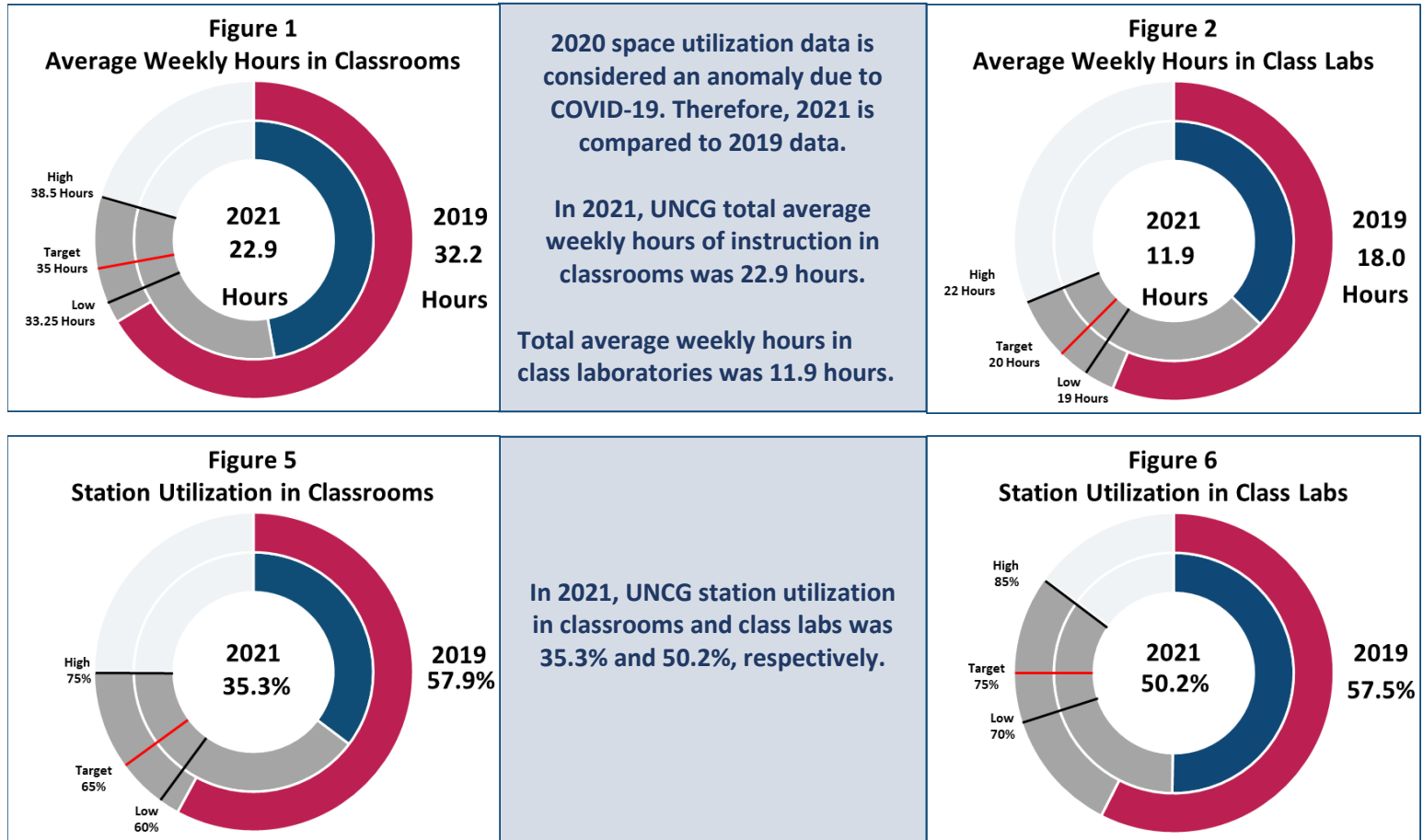




University of North Carolina Greensboro Summary

Founded in 1891 in Greensboro, the geographical center of the state, UNCG is one of the original three UNC System institutions. Known in its early years as the North Carolina College for Women, UNCG today is one of the most diverse universities in North Carolina, providing more than 125 areas of study and over 80 graduate programs offering more than 180 advanced degrees. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

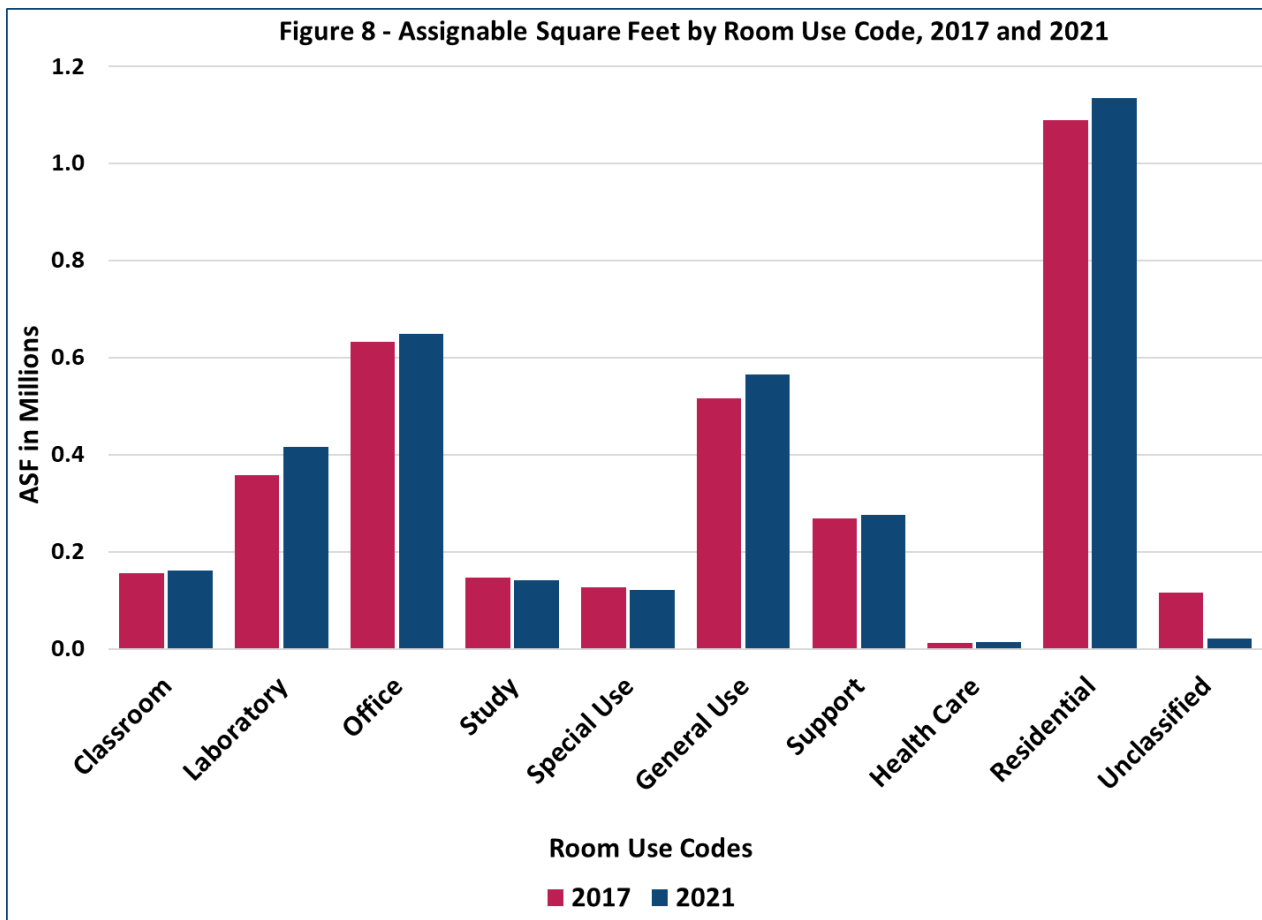
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at UNC Greensboro increased from 3,388,107 to 3,500,601, or 3.3% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	774,292	22.12%	20.95%	1.17%
Research	201,497	5.76%	5.12%	0.64%
Public Service	7,285	0.21%	0.27%	-0.07%
Student Service	1,803,488	51.52%	51.00%	0.52%
Other	714,039	20.40%	22.66%	-2.26%



Building Characteristics

University of North Carolina Greensboro has 6,853,853 gross square feet of space comprised of 152 buildings (30 residential, 122 non-residential; 63 appropriated, 89 non-appropriated; 85 owned, 16 leased, 51 under other agreement terms) with 3,500,601 square feet of assignable space, having increased by 2.3% within the last five years. Since 2020, gross square footage has increased 184,613 SF, or 2.8%.

UNC Greensboro Building Characteristics	
152 Total Buildings	
63 Appropriated	86 Owned
89 Non-Appropriated	15 Leased
<hr/>	<hr/>
152 Total	152 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

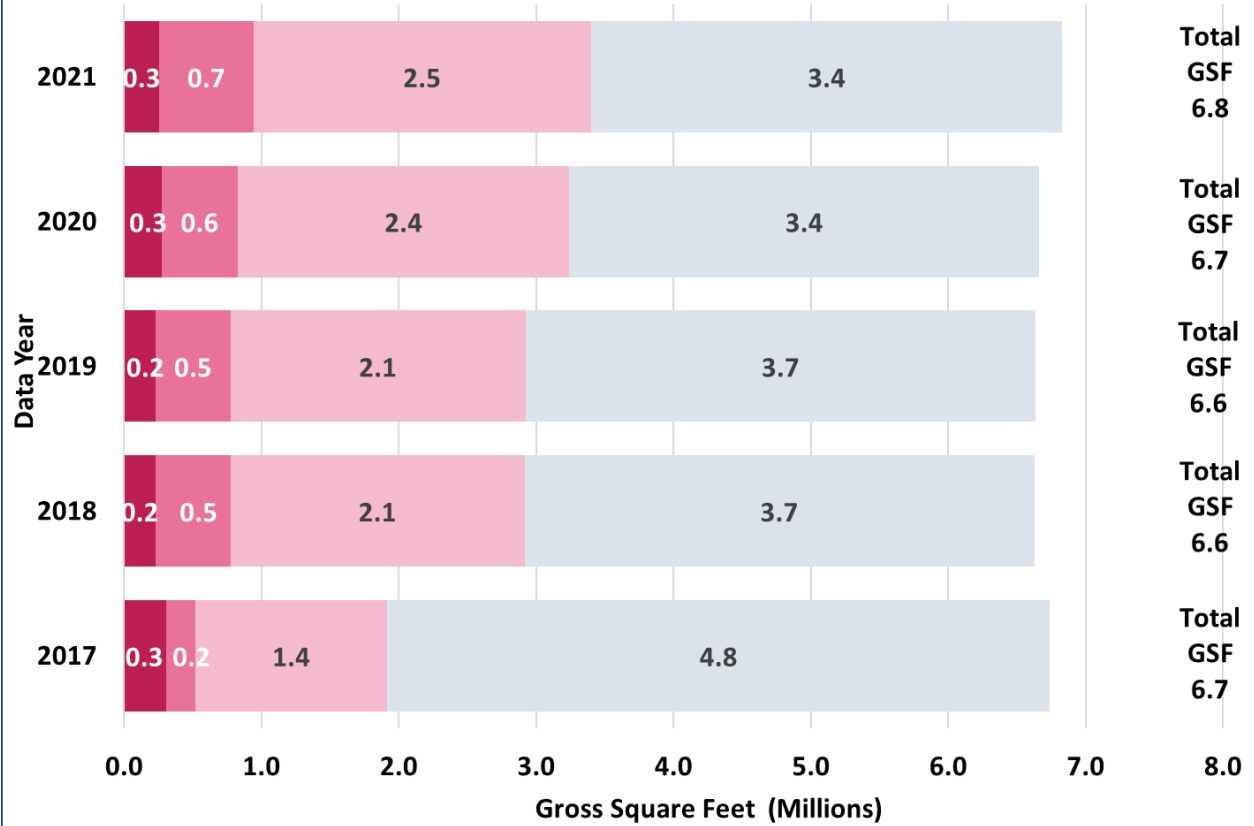
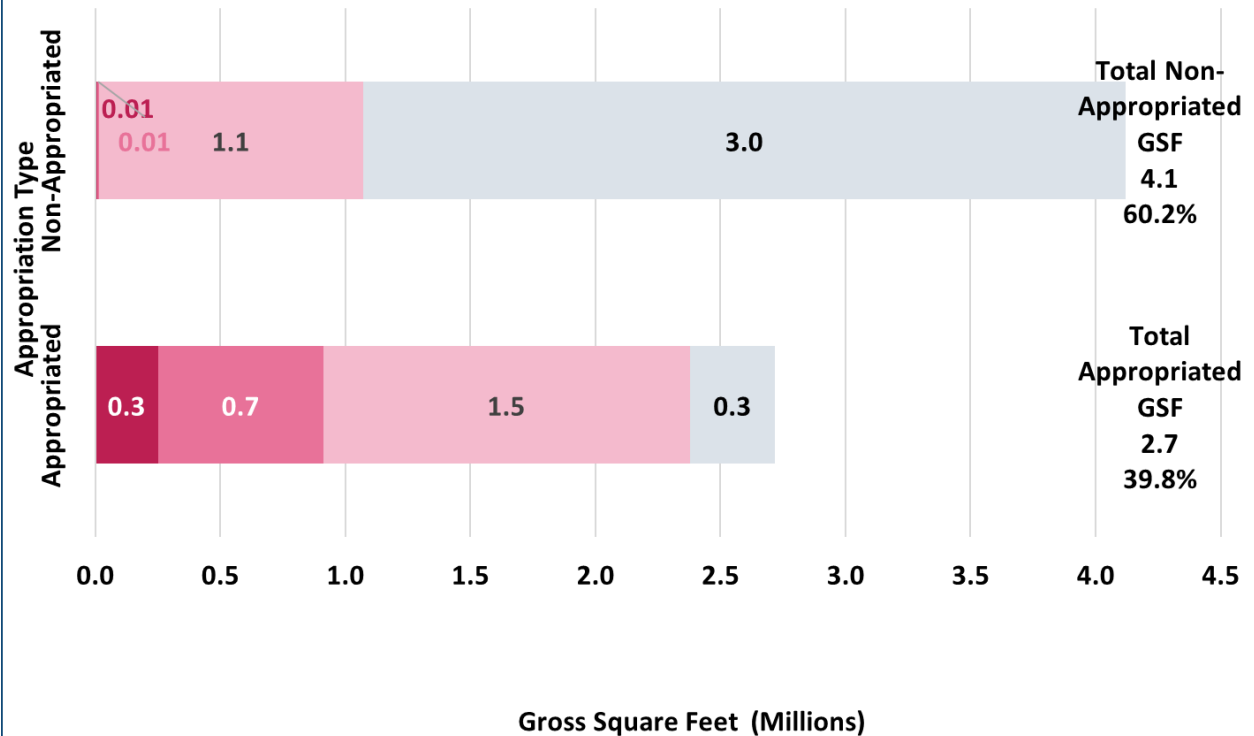
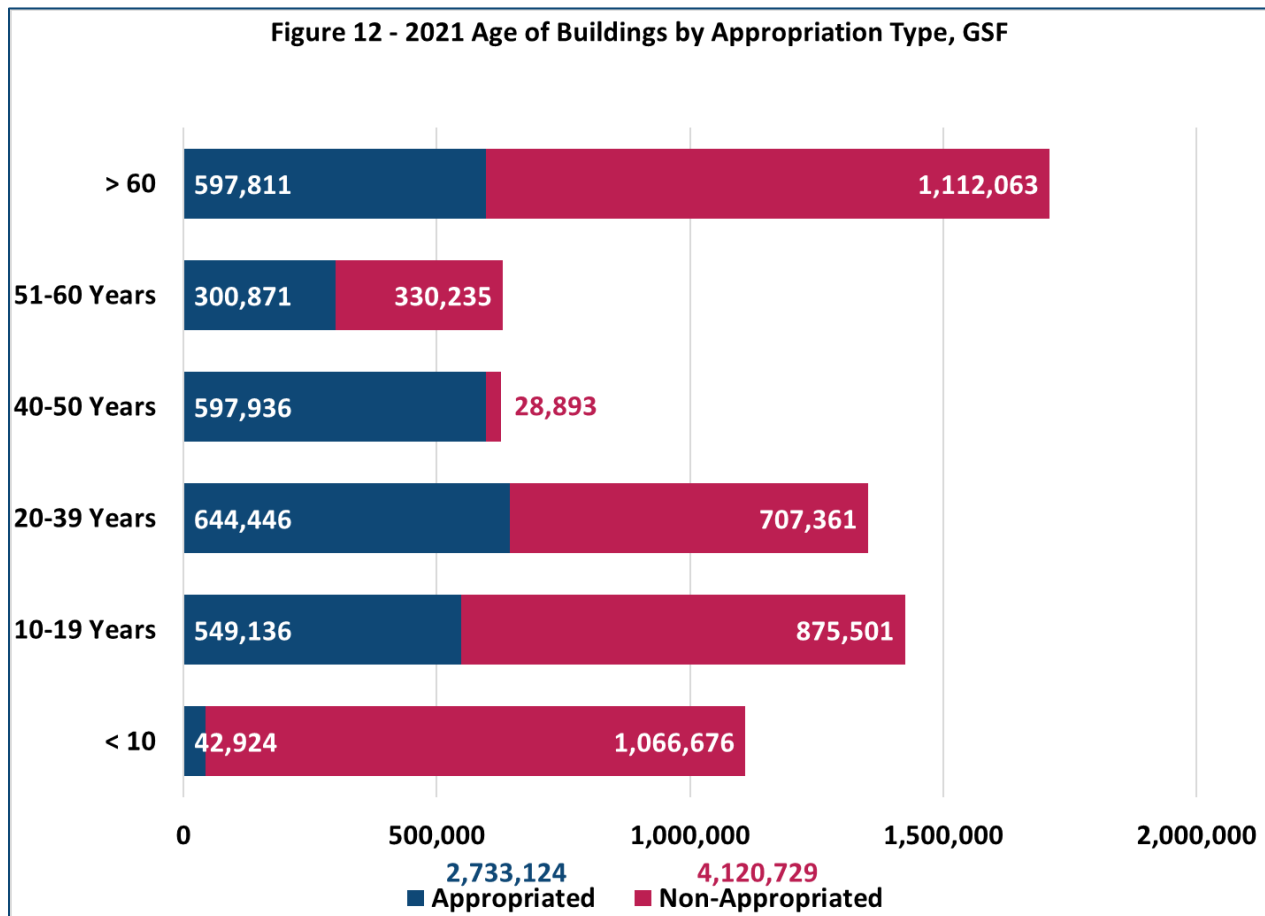
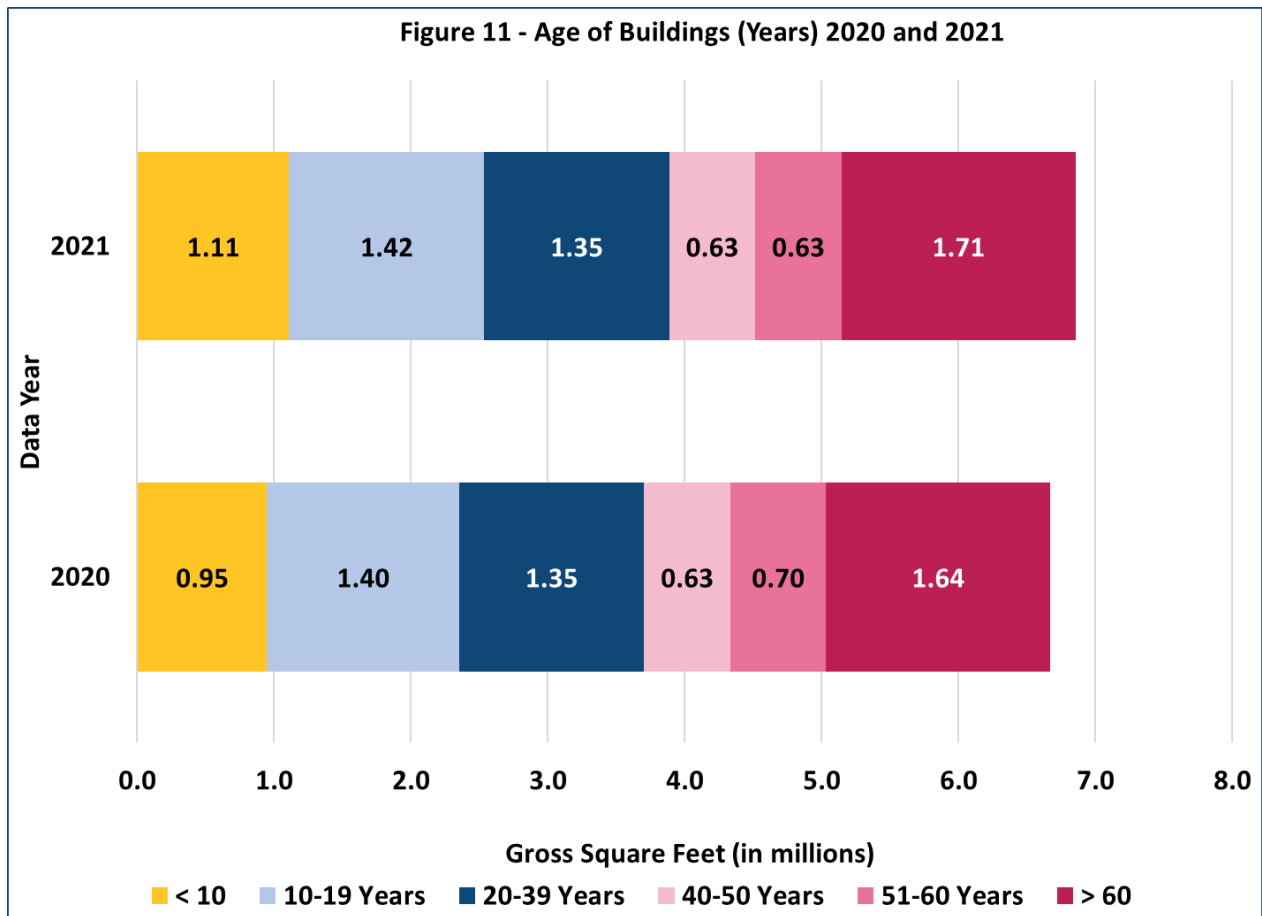


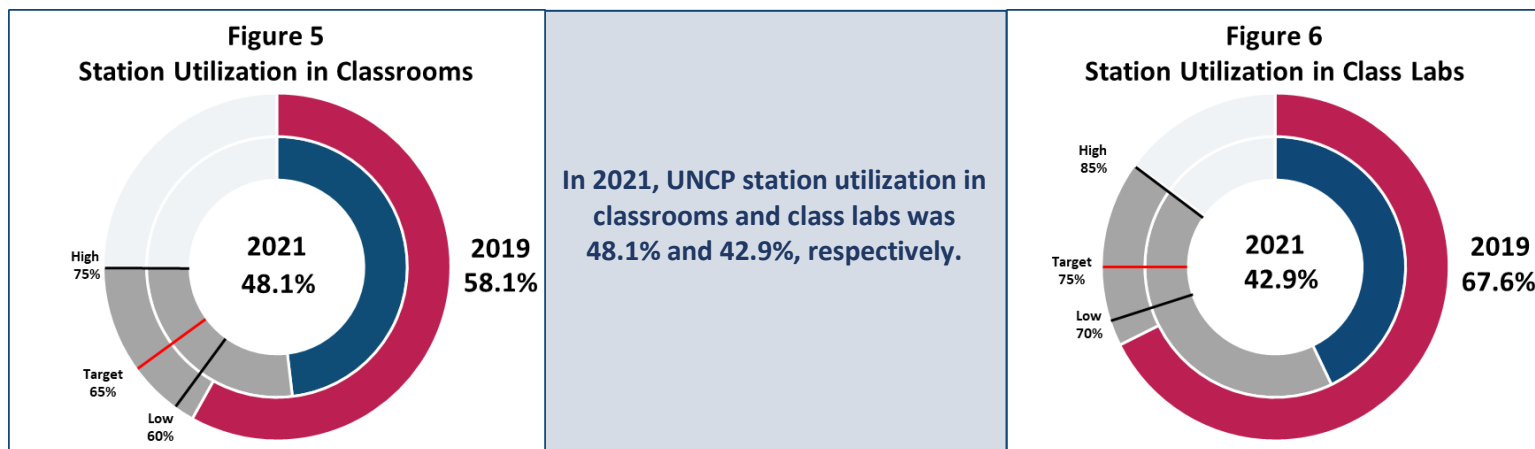
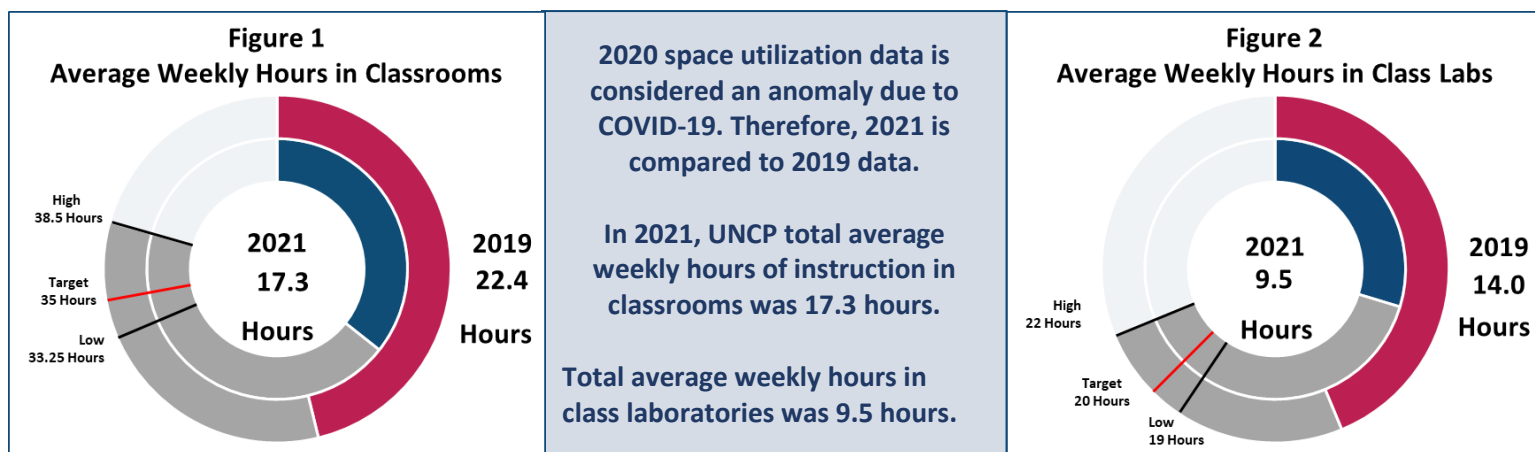
Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021





Founded in 1887 to educate American Indian teachers, UNC Pembroke is the nation’s only four-year public institution founded by American Indians for American Indians. Located in Pembroke in southeastern North Carolina, UNCP is one of the most diverse campuses in the South. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

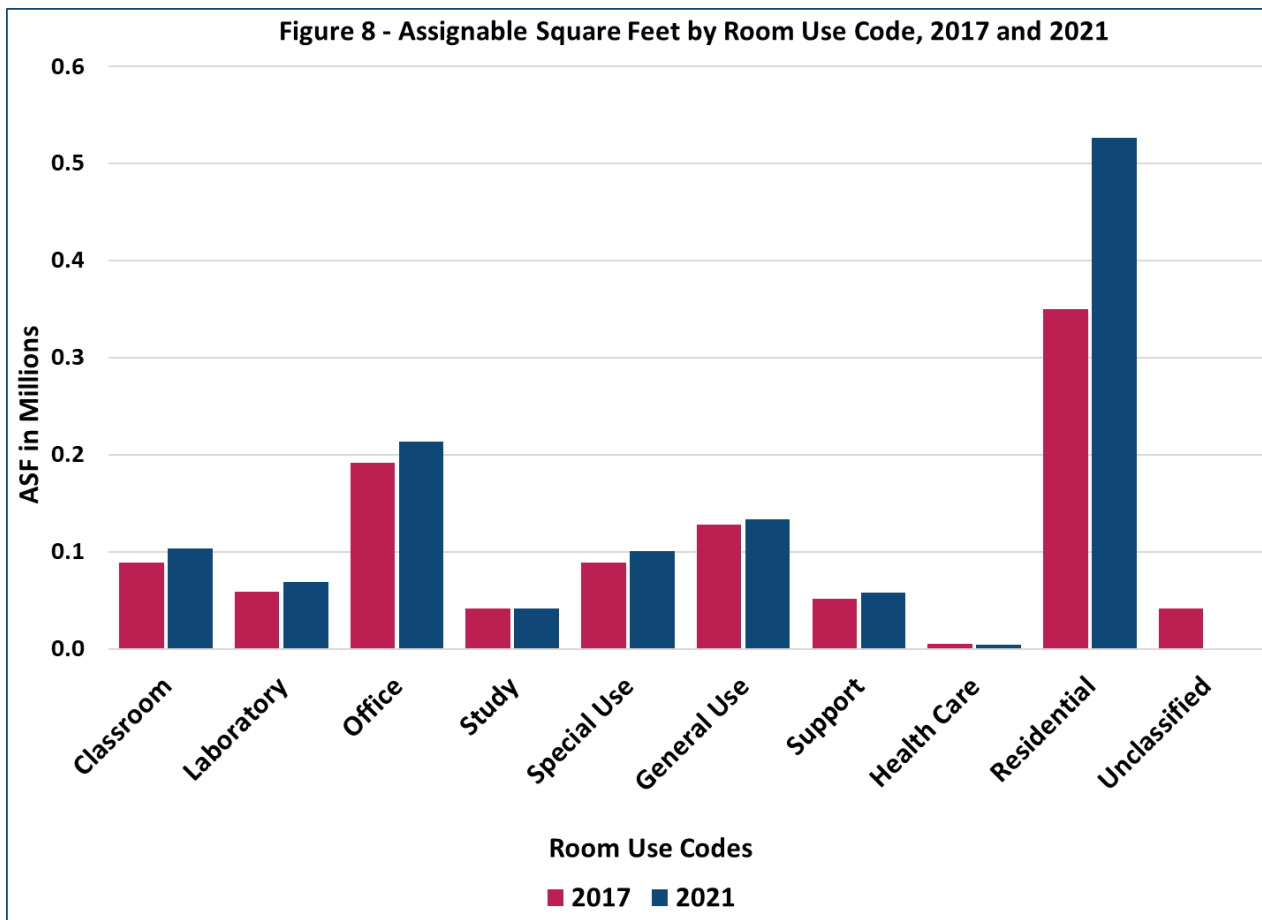
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at UNC Pembroke increased from 1,170,530 to 1,249,665, or 6.8% from the previous year.

Program	Assignable Space by Program			
	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	304,272	24.35%	27.19%	-2.84%
Research	556	0.04%	0.19%	-0.15%
Public Service	292	0.02%	0.19%	-0.16%
Student Service	689,389	55.17%	48.29%	6.88%
Other	255,156	20.42%	24.15%	-3.73%



Building Characteristics

University of North Carolina Pembroke has 1,854,022 gross square feet of space comprised of 56 buildings (15 residential, 41 non-residential; 38 appropriated, 18 non-appropriated; 41 owned, 1 leased, 14 under other agreement terms) with 1,249,665 square feet of assignable space, having increased by 19.6% within the last five years. Since 2020, gross square footage has increased by 50,941 SF, or 2.8%.

UNC Pembroke Building Characteristics	
56 Total Buildings	
38 Appropriated	41 Owned
18 Non-Appropriated	1 Leased
<hr/>	<hr/>
56 Total	56 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

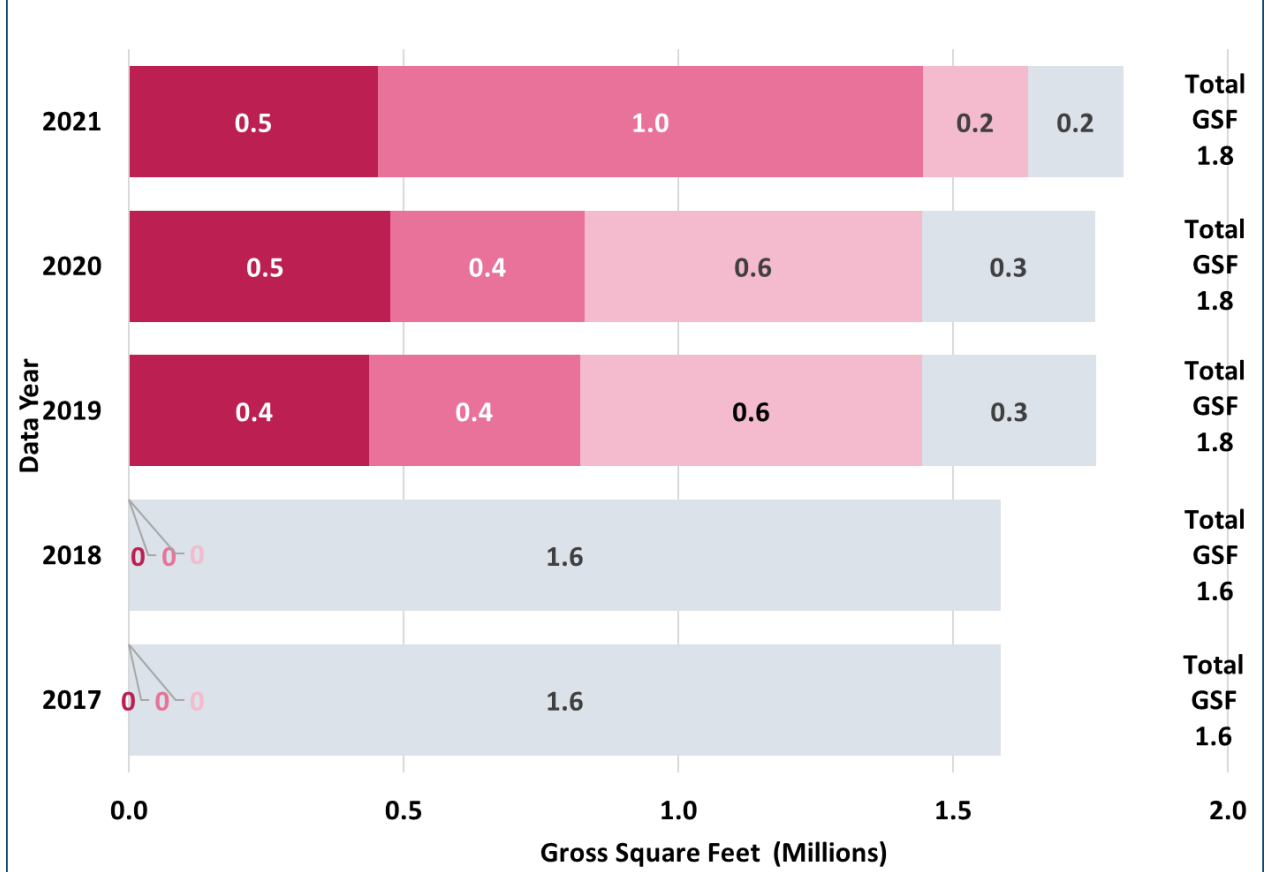
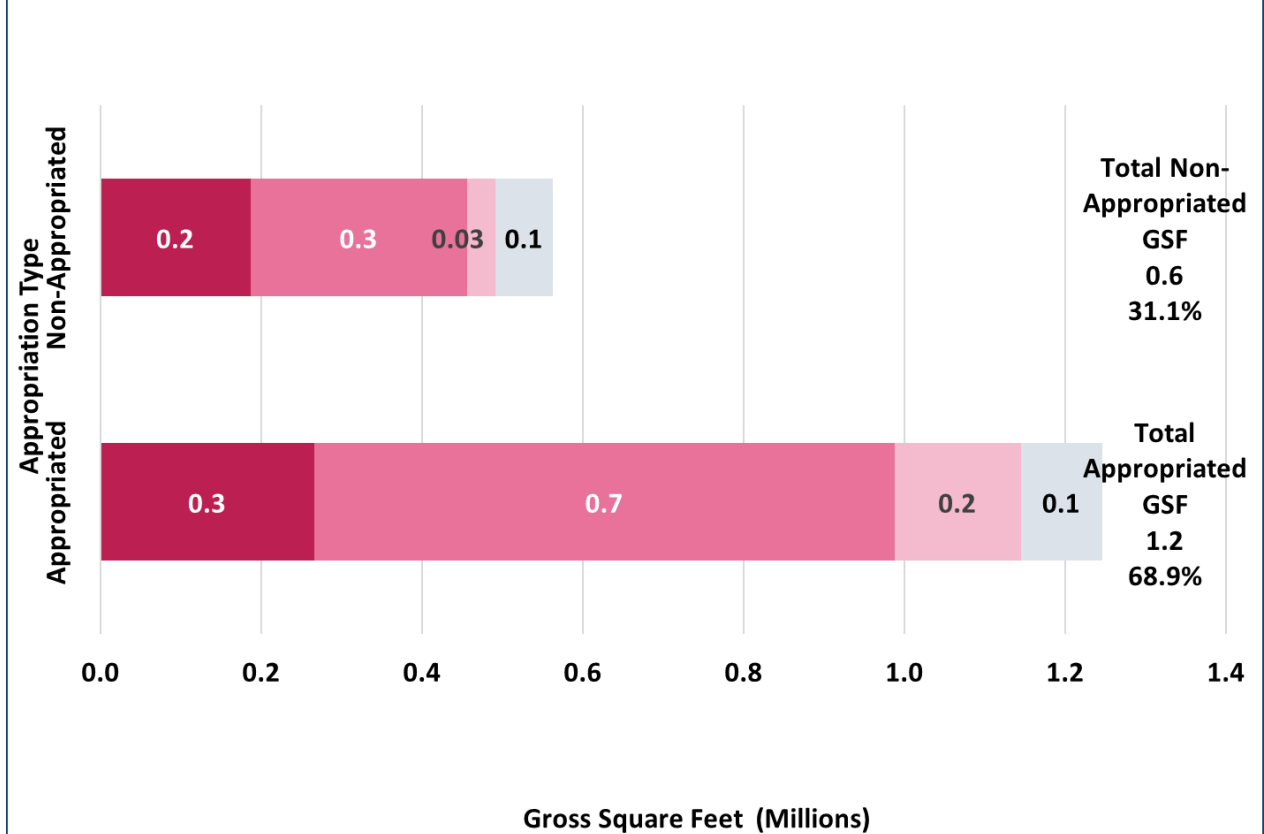
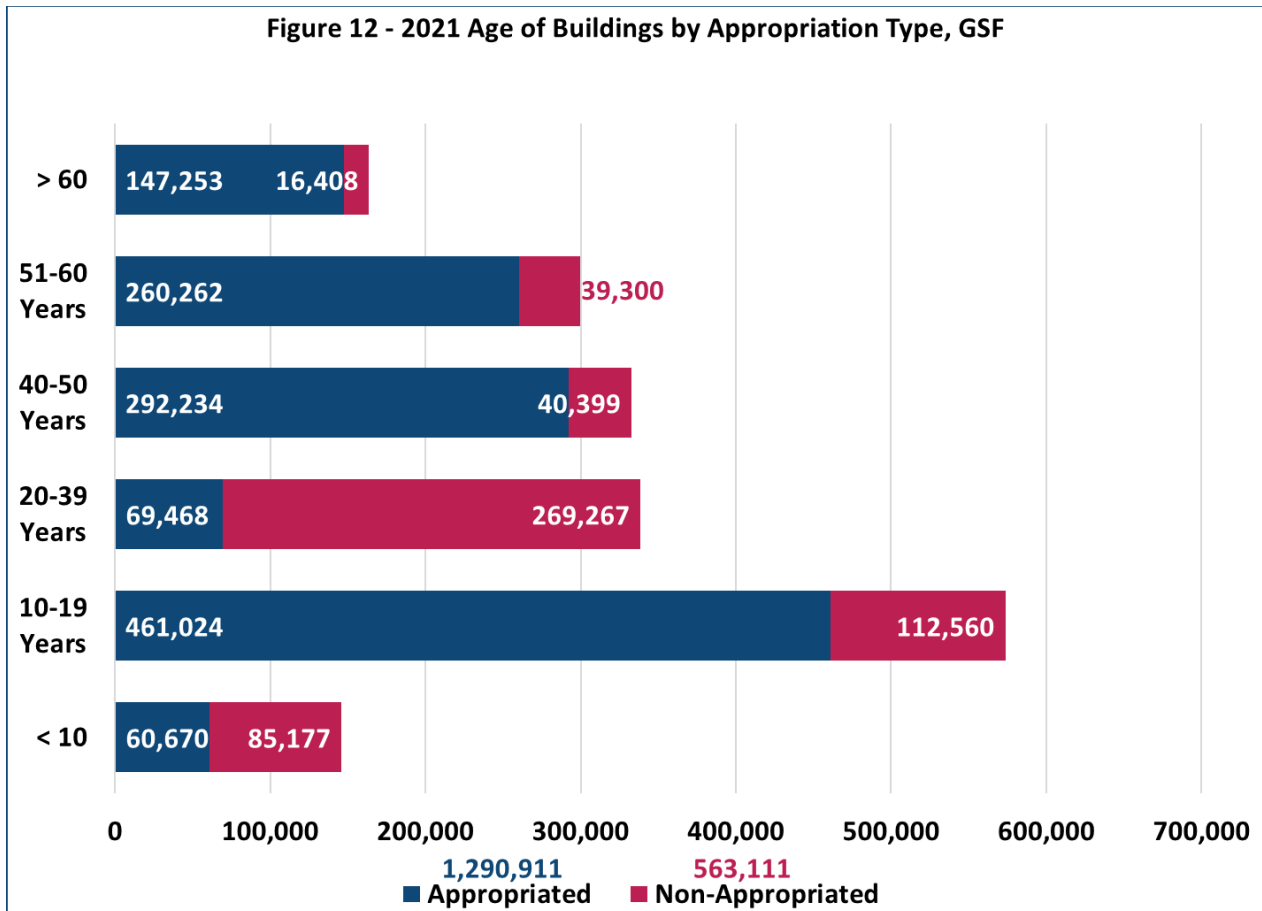
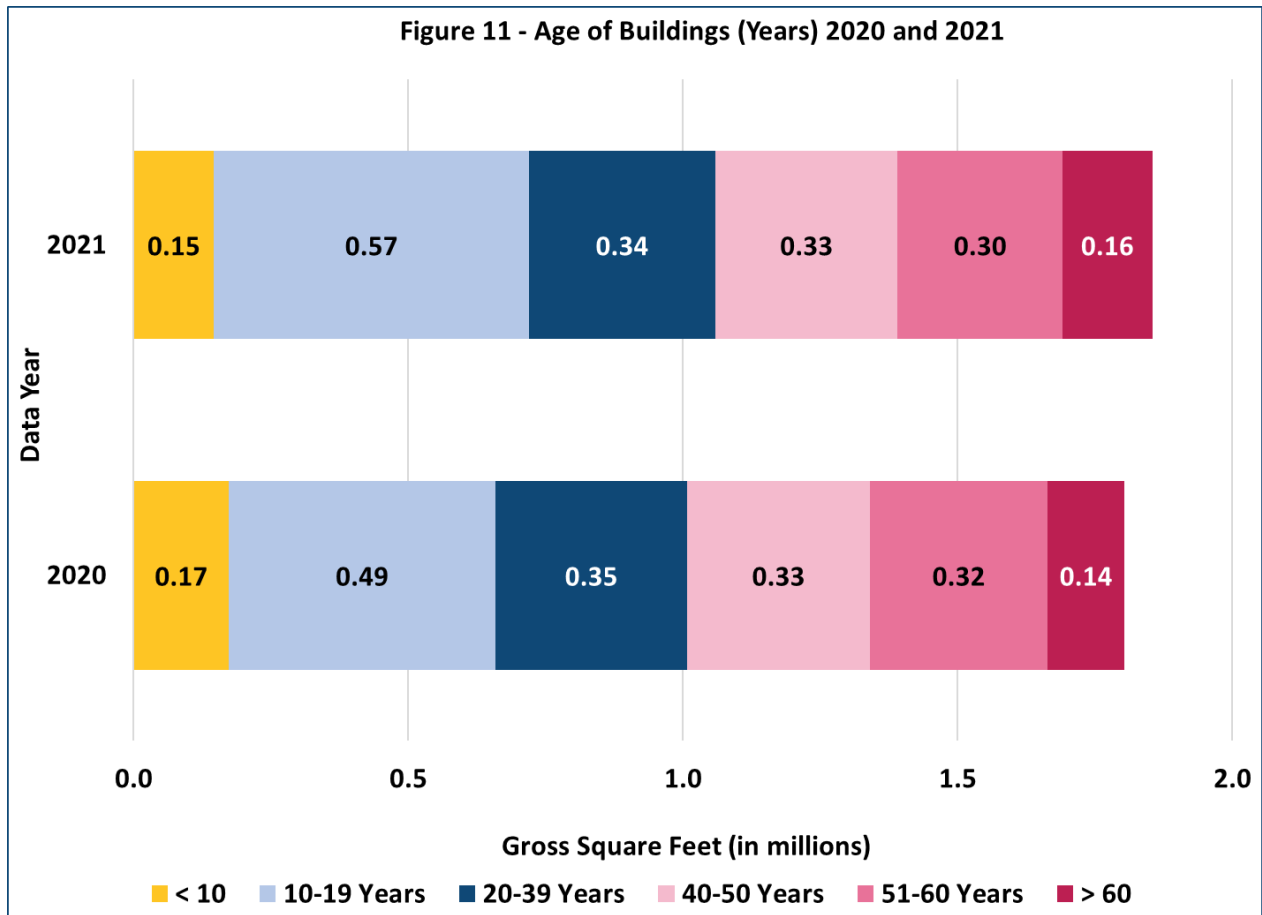


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021

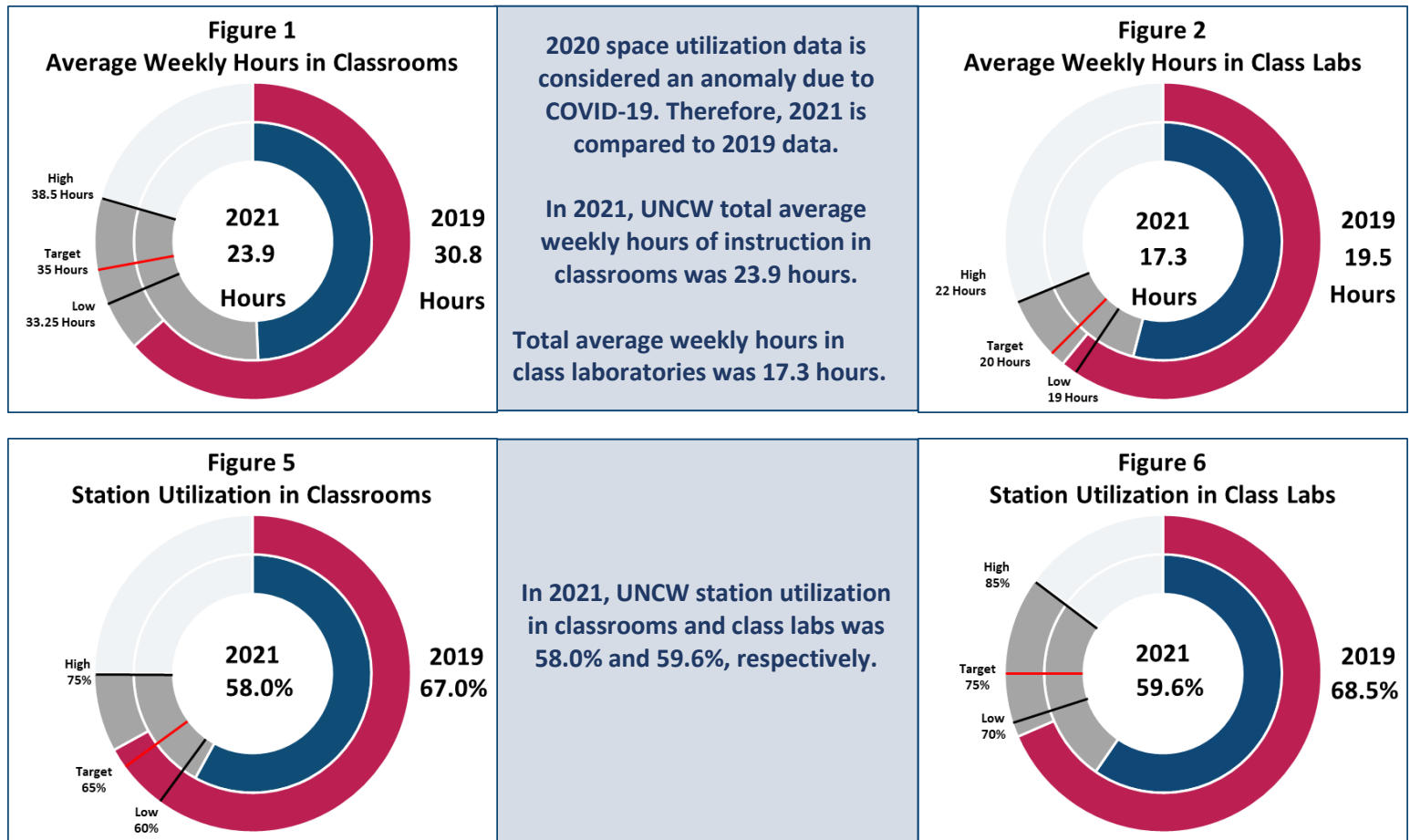


University of North Carolina Pembroke Summary



Initially opened in Wilmington as a college center to serve World War II veterans in 1946, UNCW became a four-year college by act of the North Carolina General Assembly in 1963. Widely acknowledged for its world-class faculty and staff and continuously recognized at a national level for scholarly excellence and affordability, UNCW offers a powerful academic experience that stimulates creative inquiry and critical thinking, grounded in a community that values diversity, inclusion, and global perspectives. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

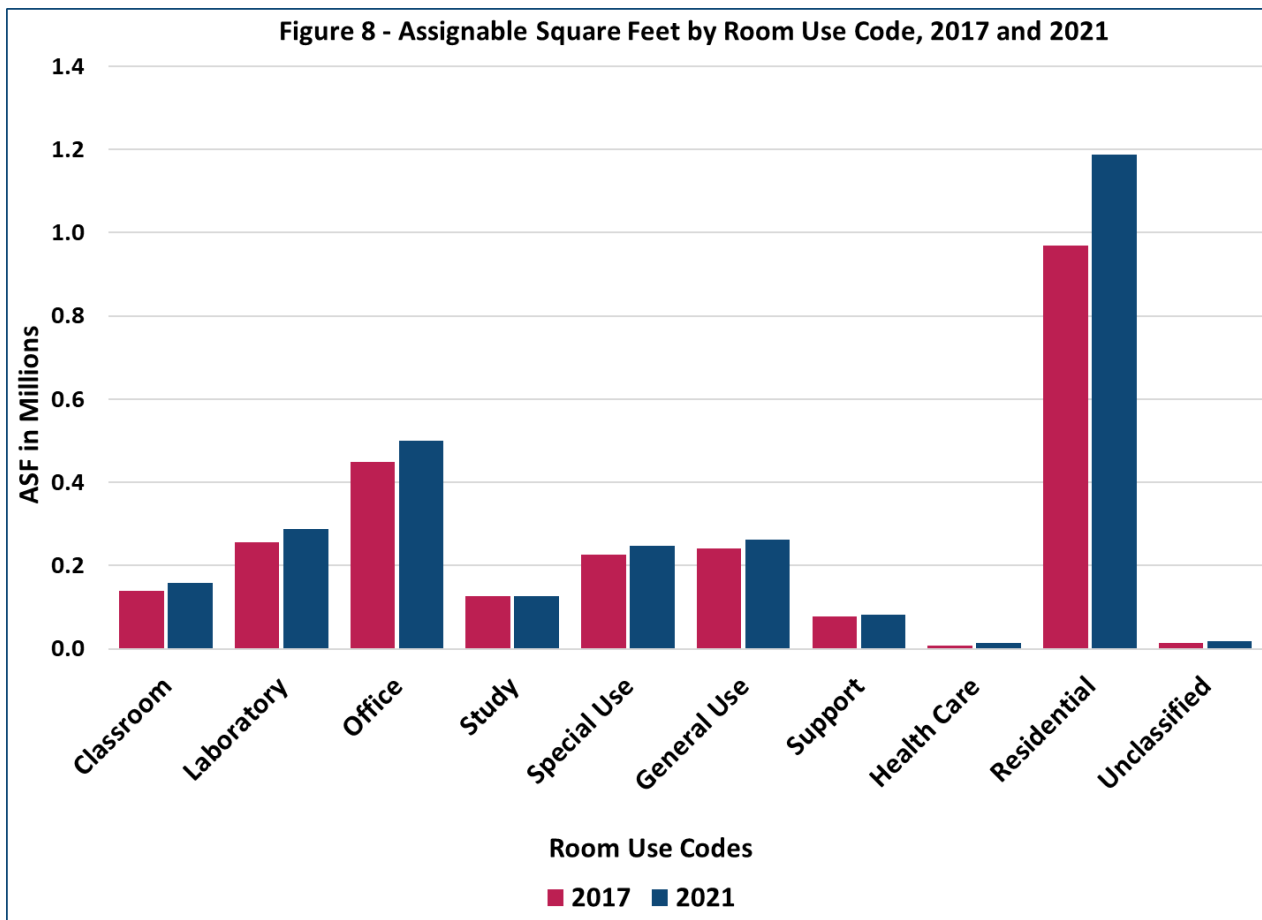
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at UNC Wilmington increased from 2,760,536 to 2,883,772, or 4.5% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	566,452	19.64%	19.41%	0.23%
Research	121,426	4.21%	5.81%	-1.60%
Public Service	34,310	1.19%	0.82%	0.37%
Student Service	1,708,291	59.24%	56.57%	2.67%
Other	453,293	15.72%	17.39%	-1.67%



Building Characteristics

University North Carolina Wilmington has 4,998,634 gross square feet of space comprised of 168 buildings (42 residential, 126 non-residential; 73 appropriated, 95 non-appropriated; 131 owned, 6 leased, 31 under other agreement terms) with 2,883,772 square feet of assignable space, having increased by 14.9% within the last five years. Since 2020, gross square footage has increased by 229,413 SF, or 4.8%.

UNC Wilmington Building Characteristics	
168 Total Buildings	
73 Appropriated	131 Owned
95 Non-Appropriated	6 Leased
168 Total	31 Other Agreement
	168 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

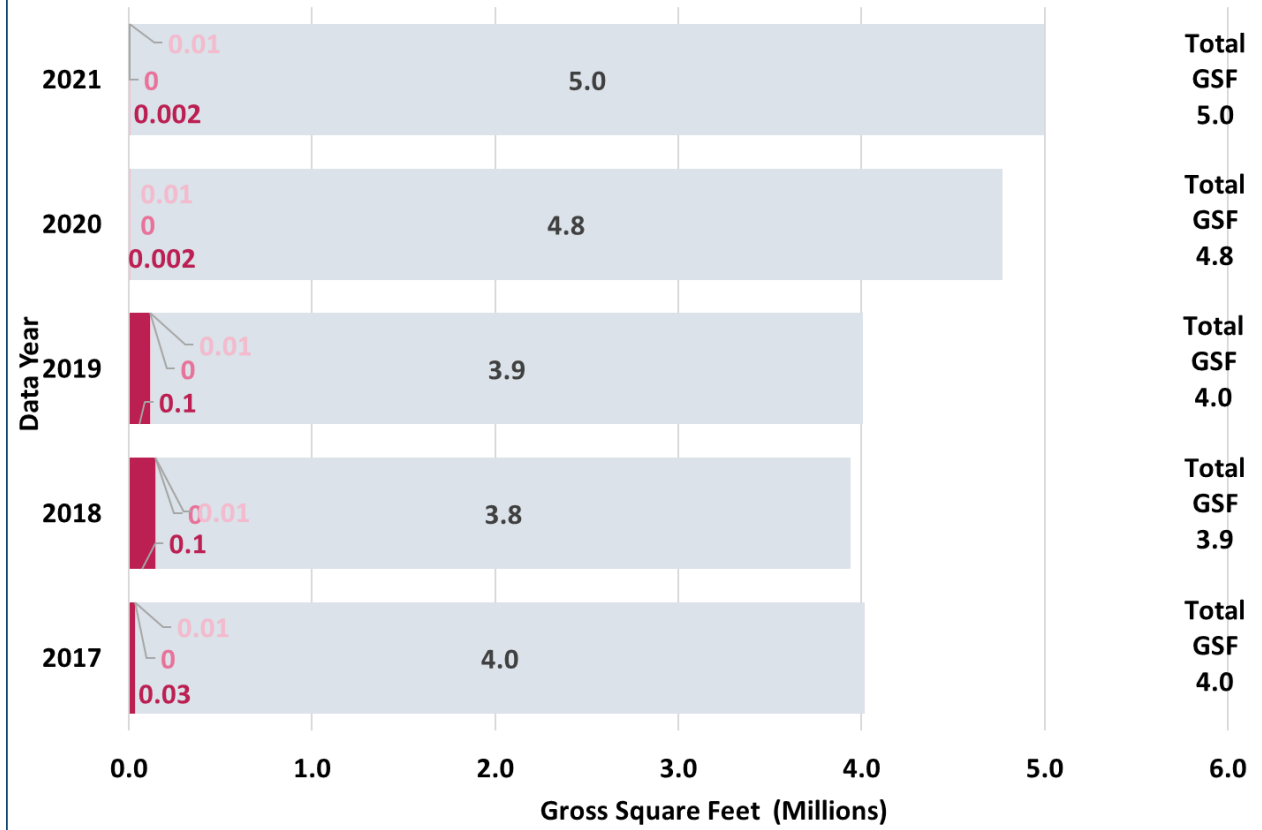
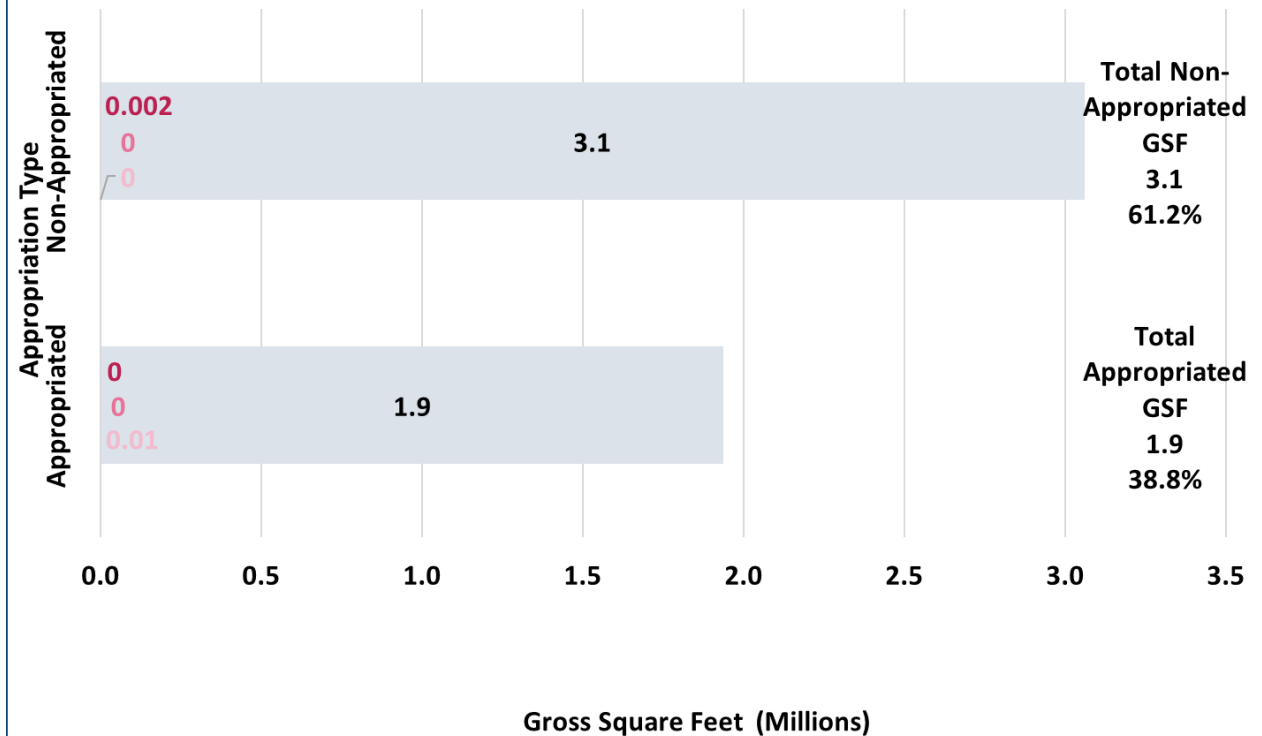
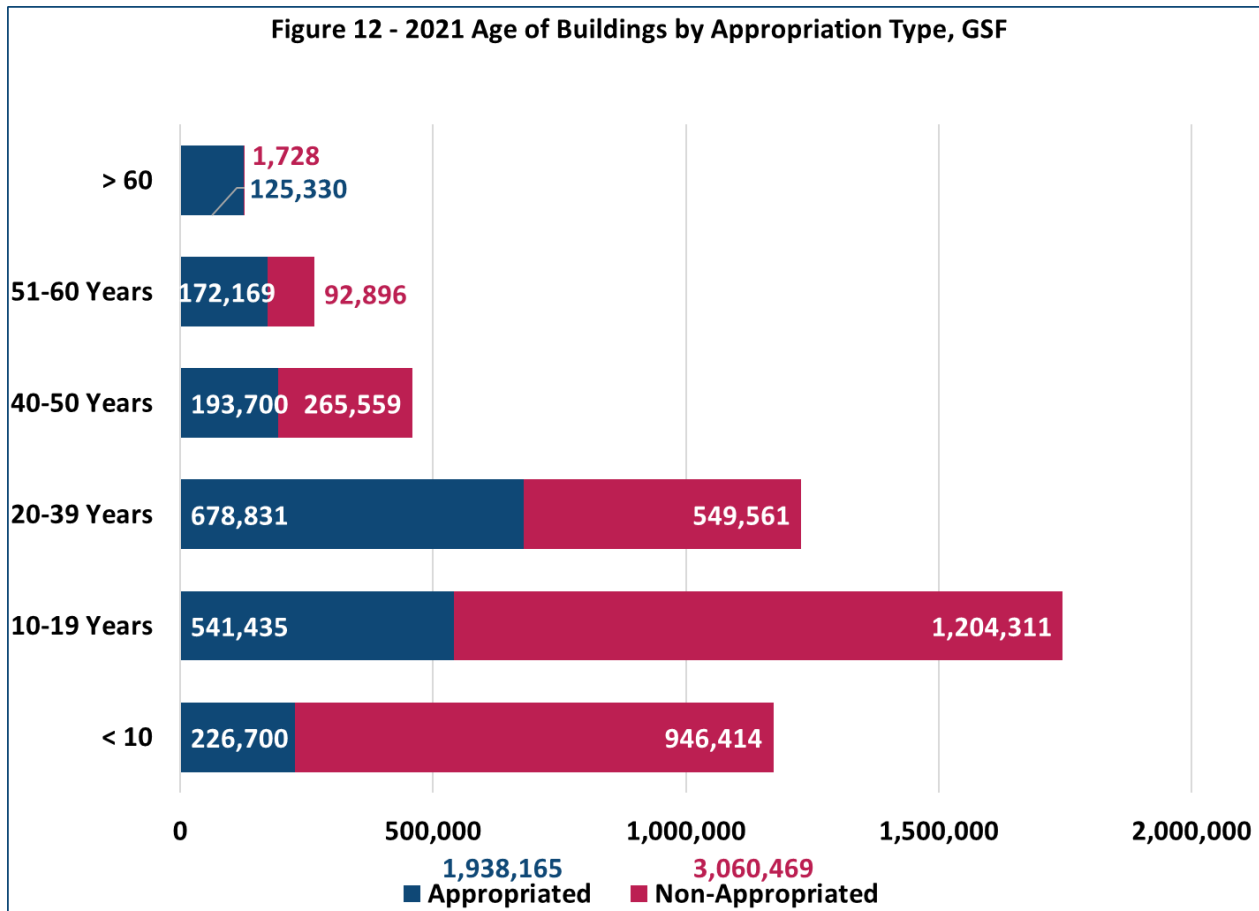
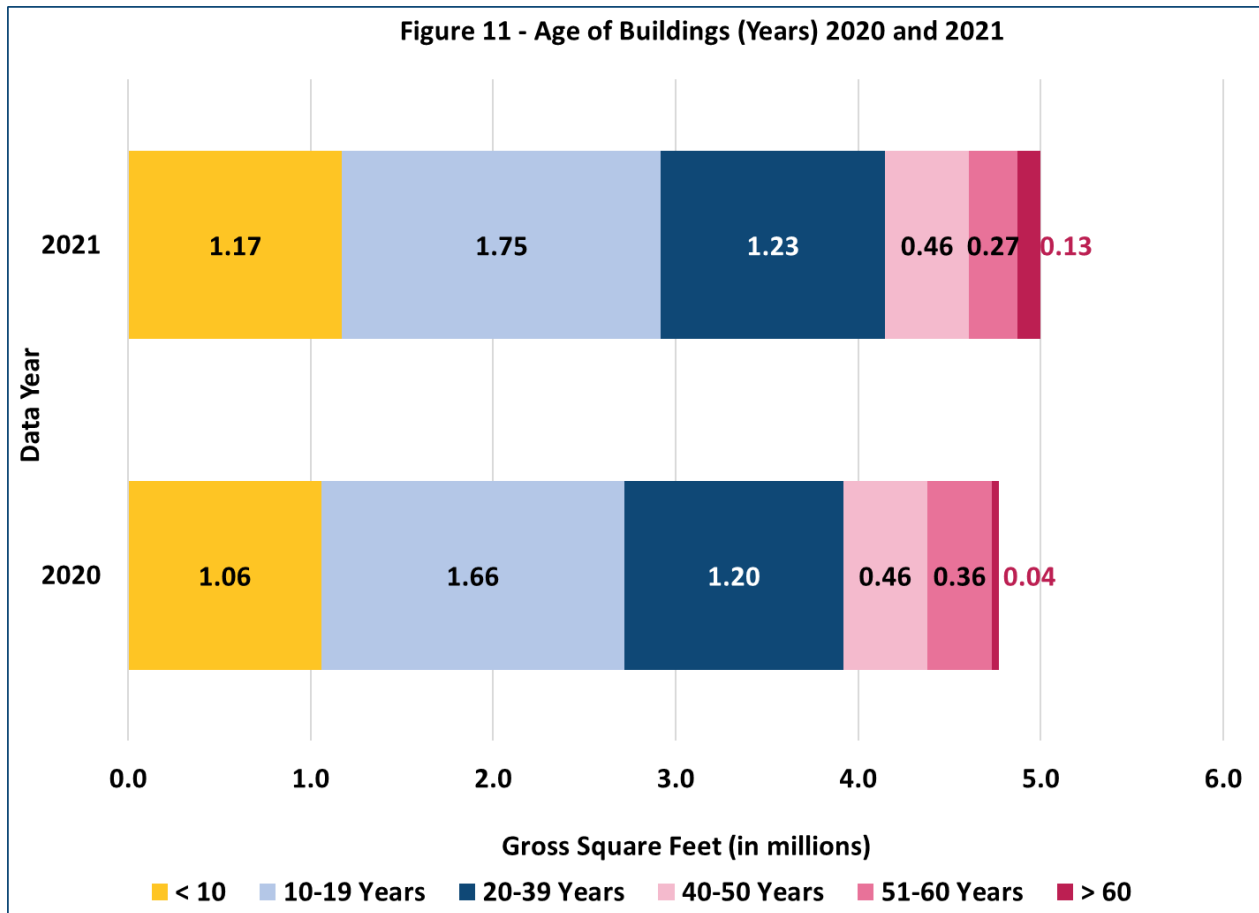


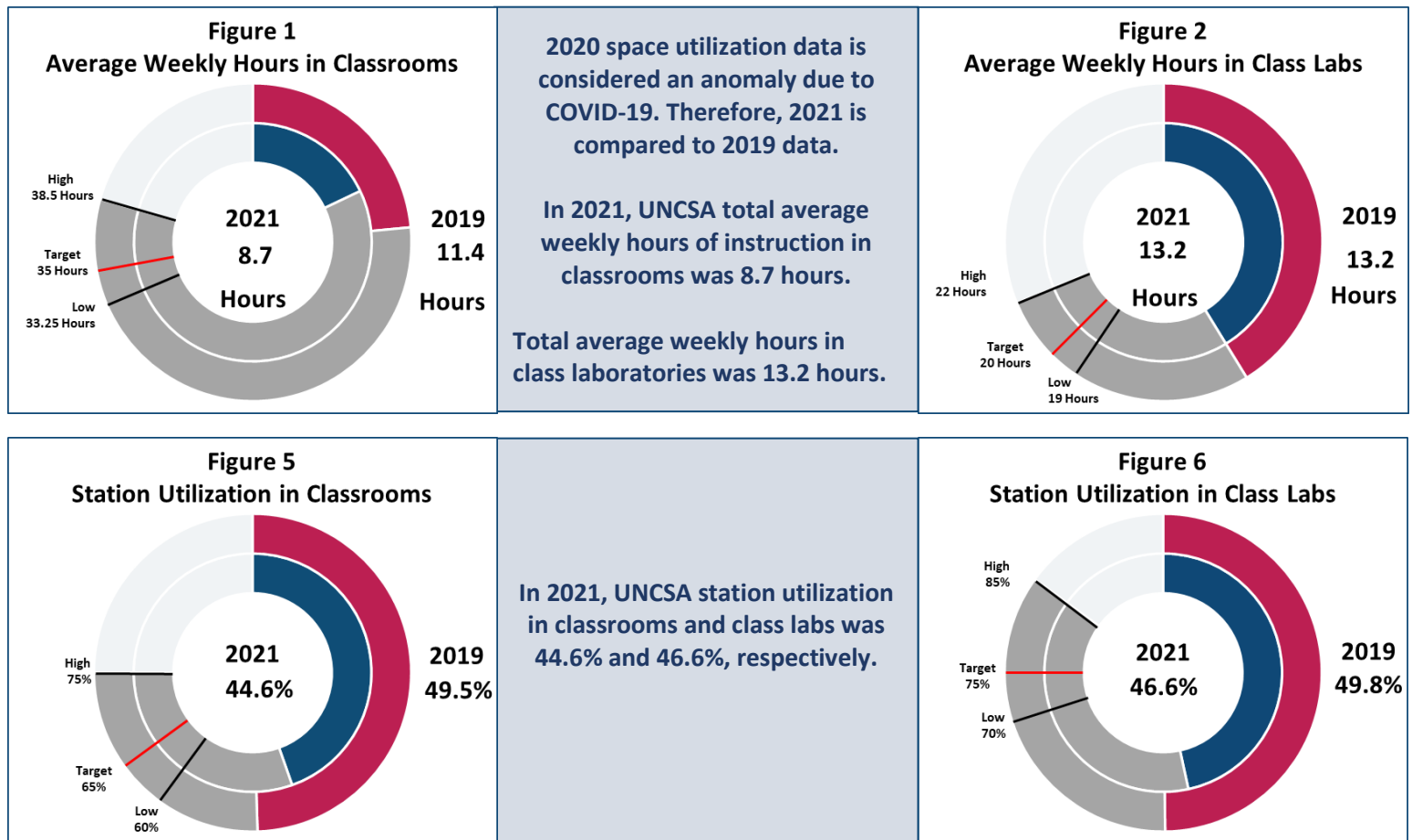
Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021





Established by act of the North Carolina General Assembly in 1963, the North Carolina School of the Arts opened in 1965 as America’s first public arts conservatory, located in Winston-Salem as a result of a fund-raising campaign to win the school for the city. The UNC School of the Arts is a top-ranked performing arts, visual arts, and filmmaking conservatory preparing high school, undergraduate, and graduate students for professional careers in dance companies, top orchestras, themed entertainment, major motion picture companies, on Broadway, and more. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

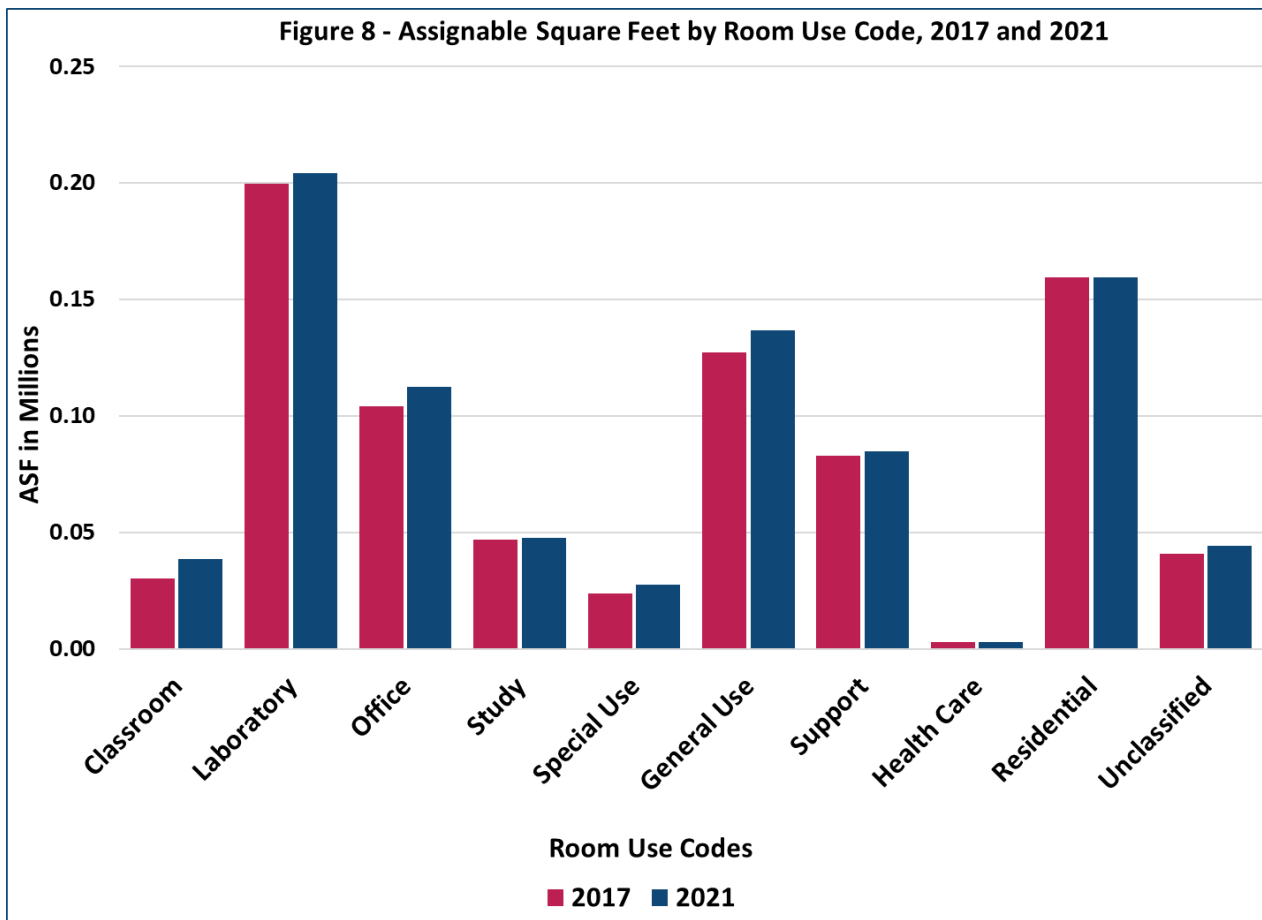
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at UNC School of the Arts increased from 843,788 to 858,195, or 1.7% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	335,705	39.12%	39.29%	-0.17%
Research	8,790	1.02%	0.00%	1.02%
Public Service	25,042	2.92%	3.06%	-0.14%
Student Service	254,119	29.61%	30.03%	-0.42%
Other	234,539	27.33%	27.56%	-0.23%



Building Characteristics

University of North Carolina School of the Arts has 1,354,782 gross square feet of space comprised of 66 buildings (19 residential, 47 non-residential; 43 appropriated, 23 non-appropriated; 60 owned, 1 leased, 5 under other agreement terms) with 858,195 square feet of assignable space, increasing 5.0% within the last five years. Since 2020, gross square footage has increased 142,228 SF, or 11.7%.

UNC School of the Arts Building Characteristics	
66 Total Buildings	
43 Appropriated	60 Owned
23 Non-Appropriated	1 Leased
<hr/>	<hr/>
66 Total	66 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

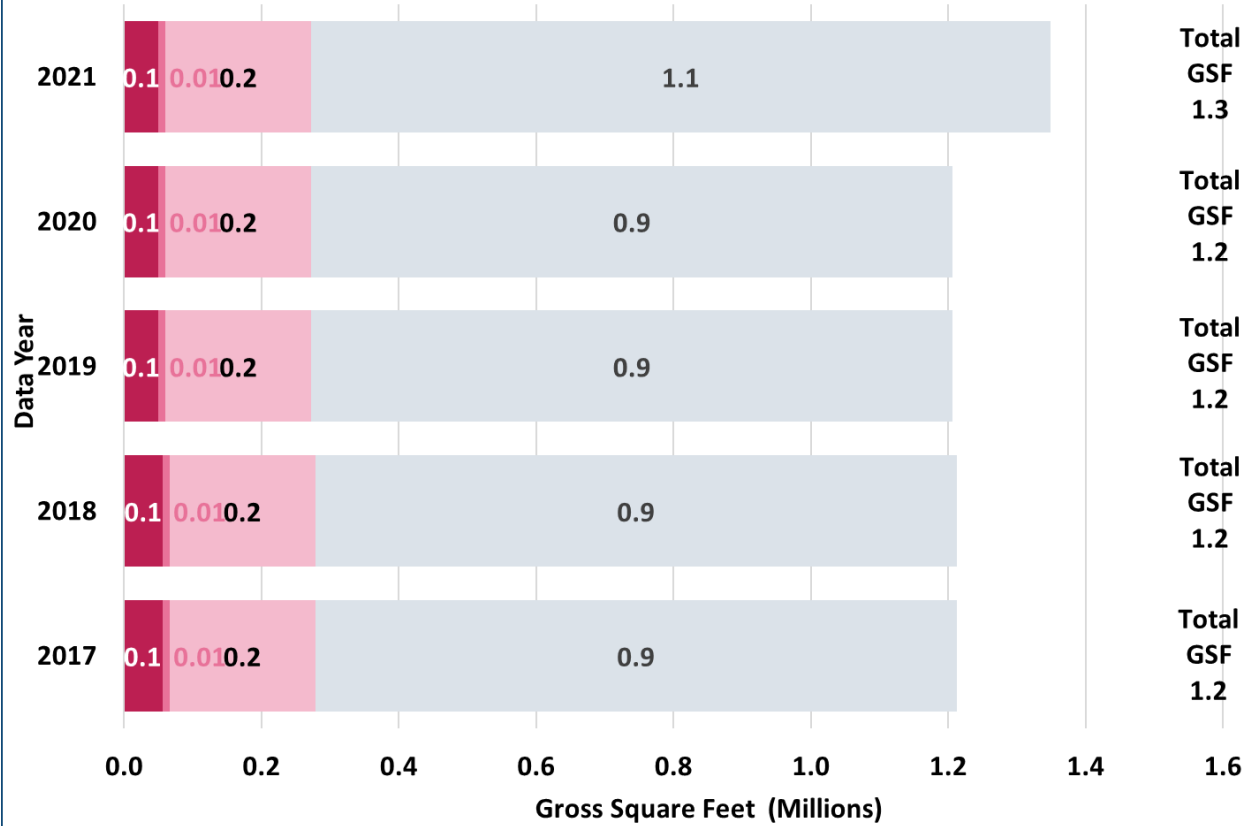
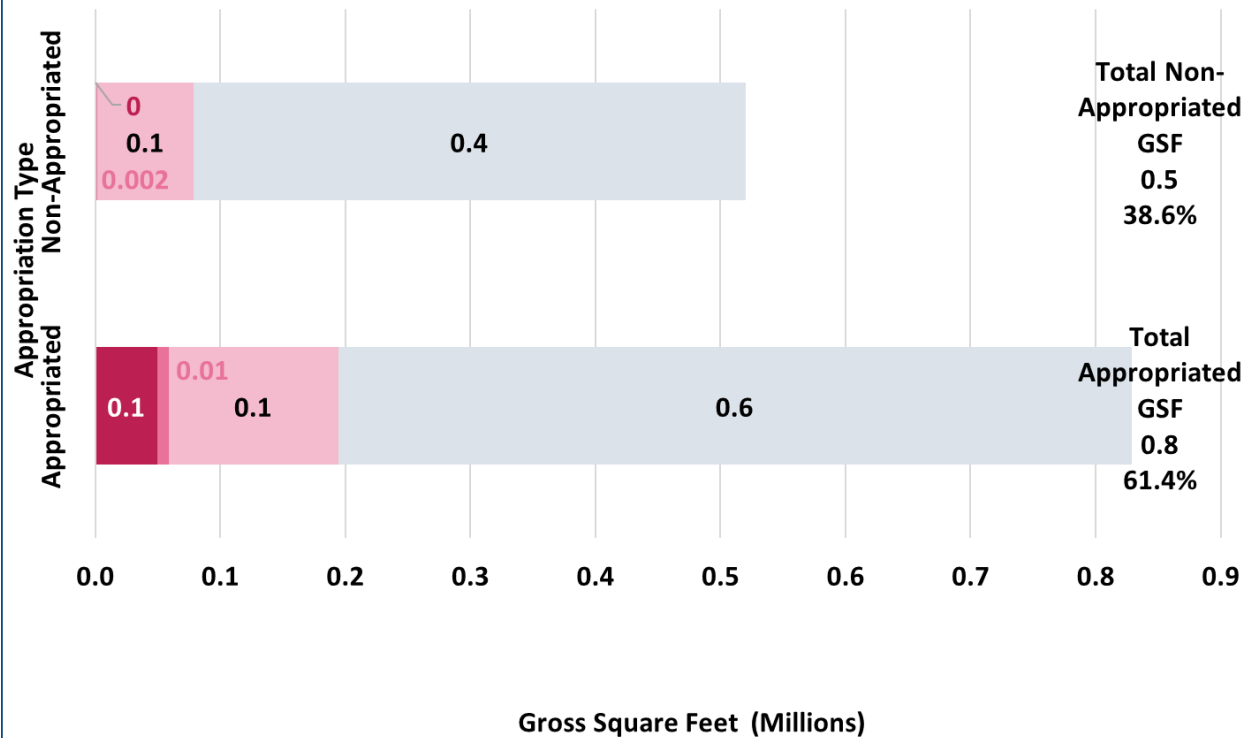
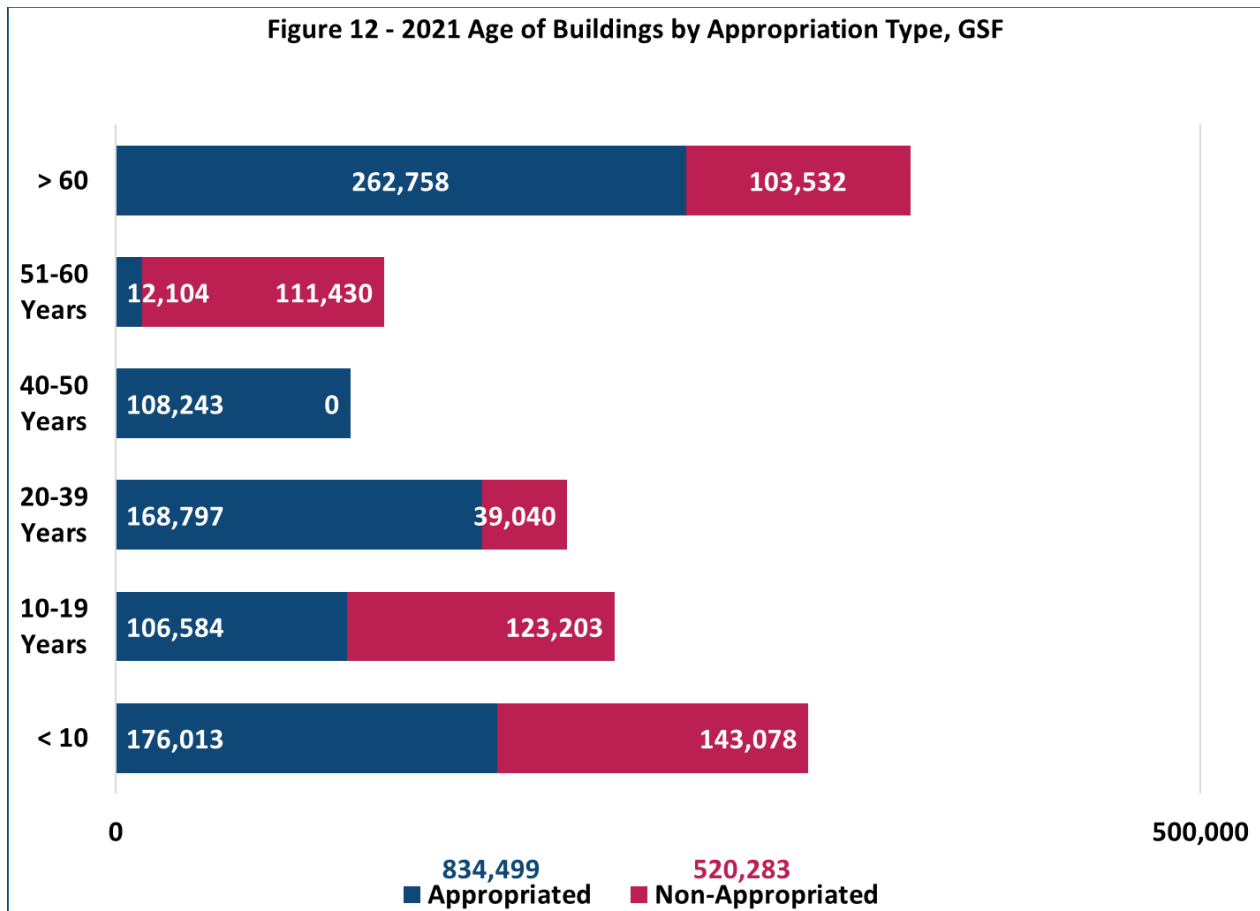
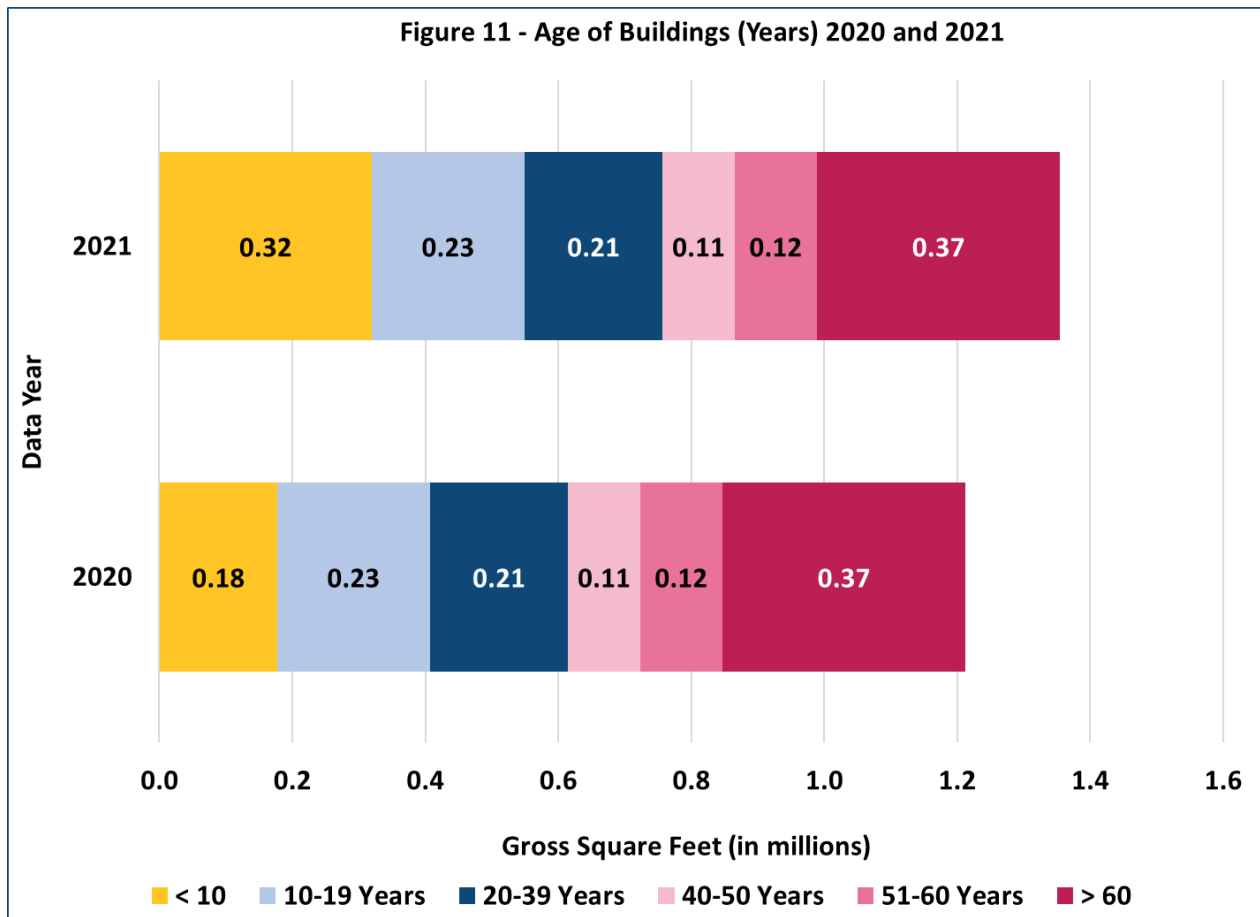


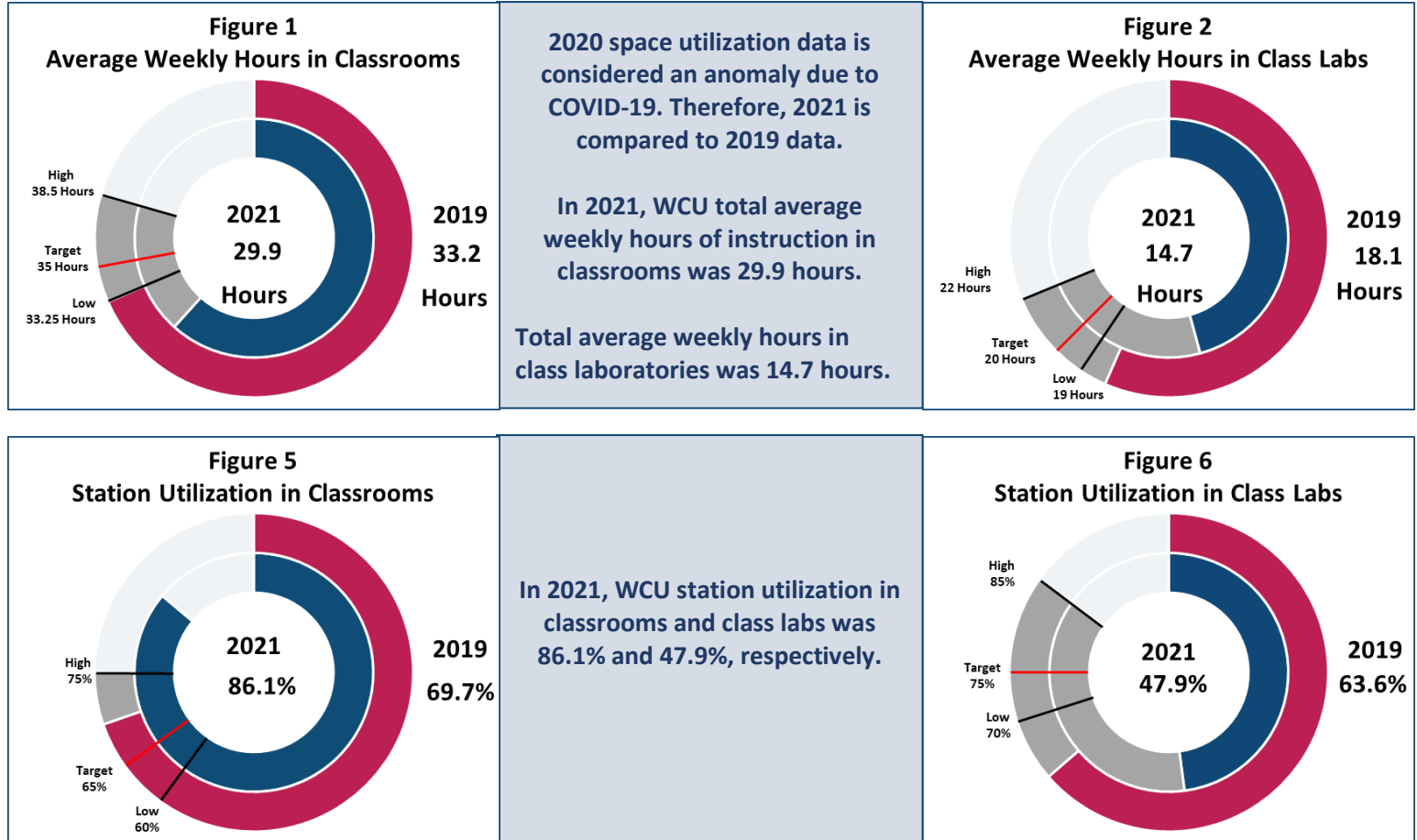
Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021





As the UNC System’s westernmost campus, WCU is located just 50 miles west of Asheville in Cullowhee, North Carolina. Originally established as “Cullowhee Academy” in 1889, the university moved to a four-year degree curriculum in 1929 and today is consistently ranked as one of the Top 10 public regional Institutions in the South. The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

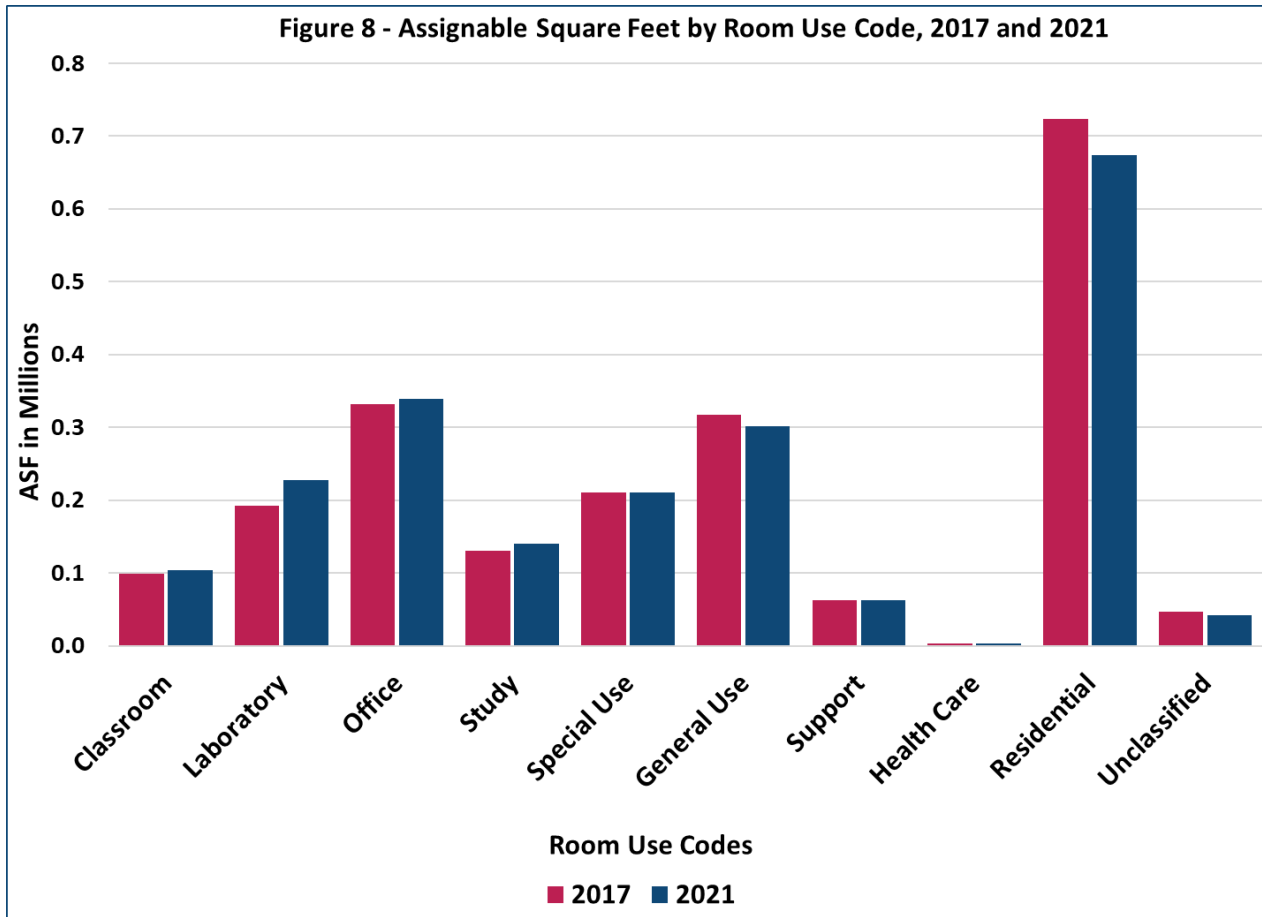
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at WCU decreased from 2,205,786 to 2,103,895, or -4.6% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	537,325	25.54%	22.94%	2.60%
Research	26,189	1.24%	1.39%	-0.15%
Public Service	4,948	0.24%	0.22%	0.02%
Student Service	1,057,852	50.28%	52.52%	-2.24%
Other	477,581	22.70%	22.93%	-0.23%



Building Characteristics

Western Carolina University has 4,194,186 gross square feet of space comprised of 108 buildings (37 residential, 69 non-residential; 55 appropriated, 51 non-appropriated; 84 owned, 2 leased, 20 under other agreement terms) with 2,103,895 square feet of assignable space, having decreased by -0.7% within the last five years. Since 2020, gross square footage has increased 713,776 SF, or 20.5%.

Western Carolina University Building Characteristics	
106 Total Buildings	
55 Appropriated	84 Owned
51 Non-Appropriated	2 Leased
106 Total	106 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

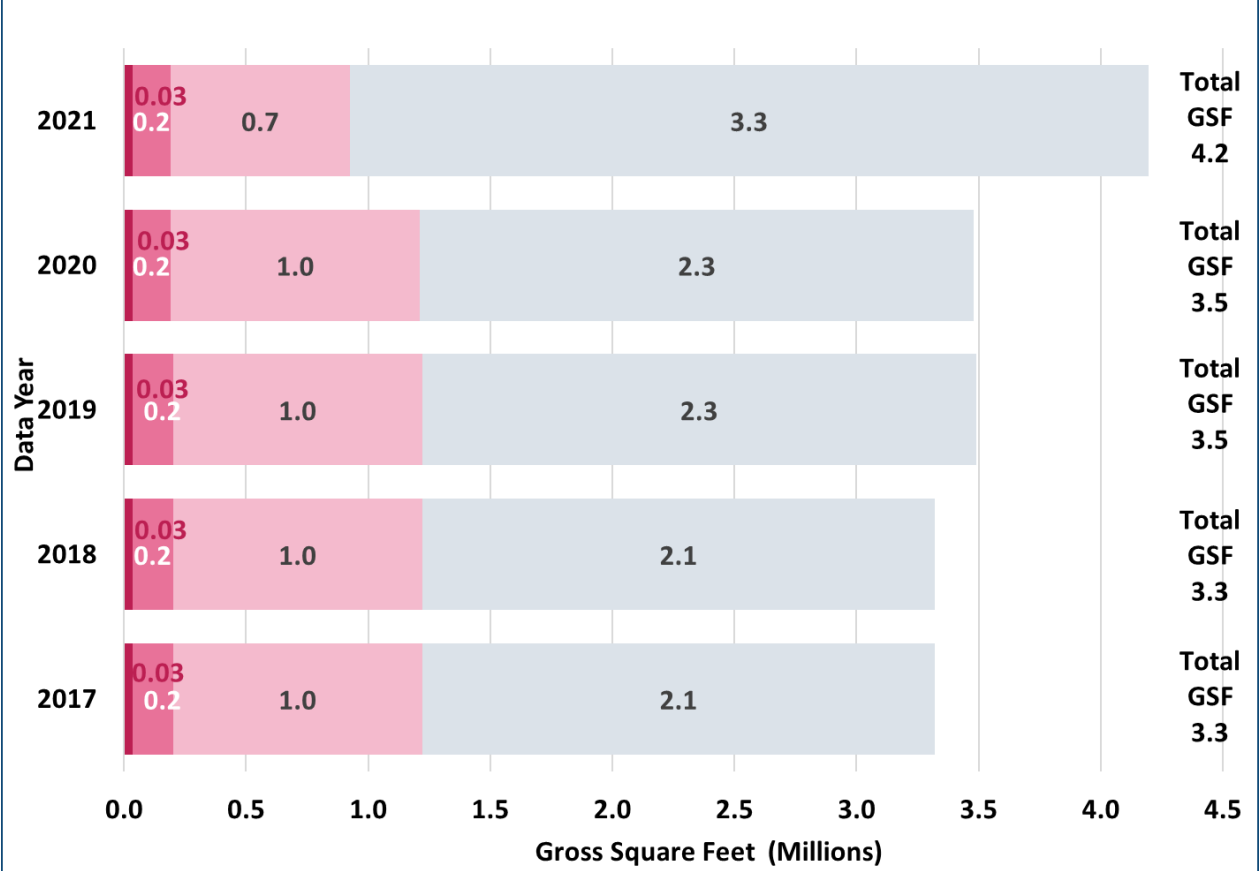
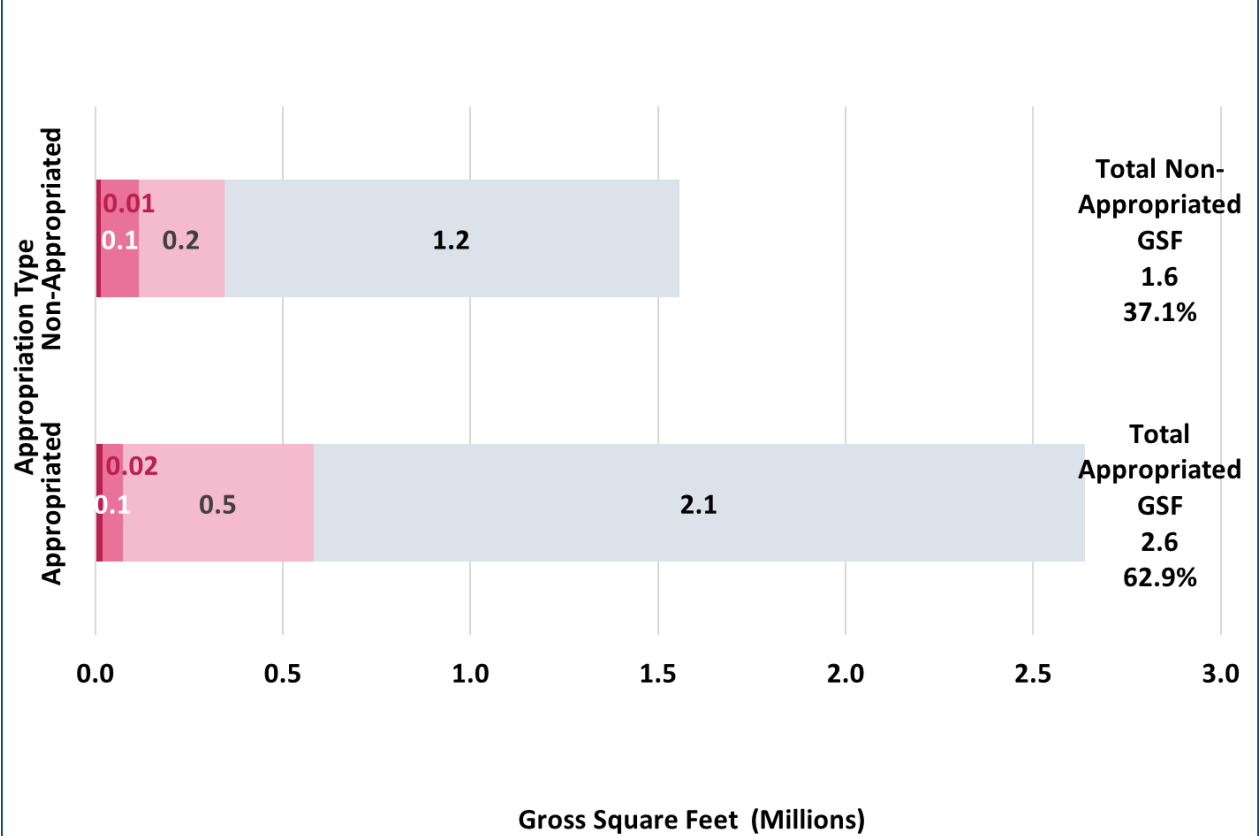
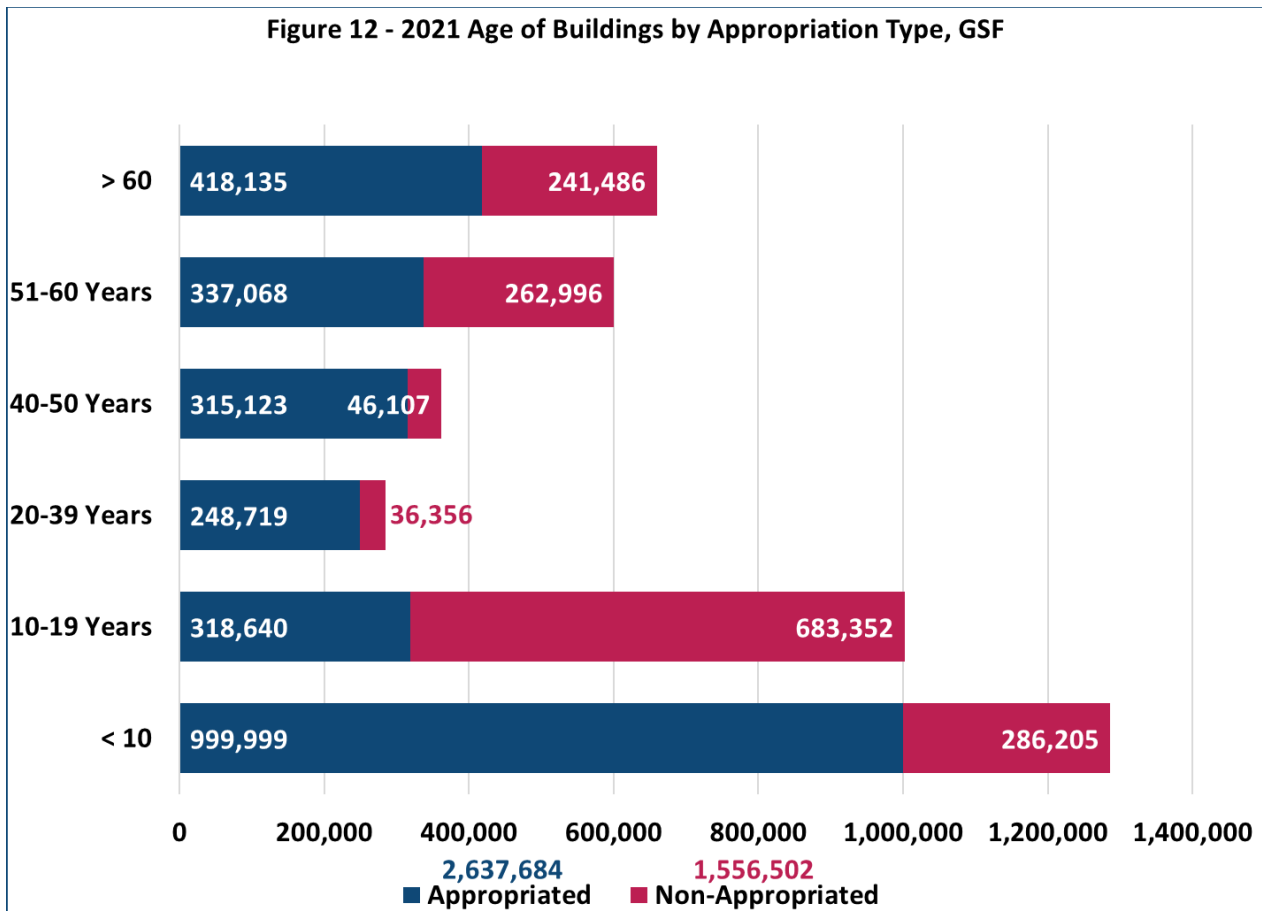
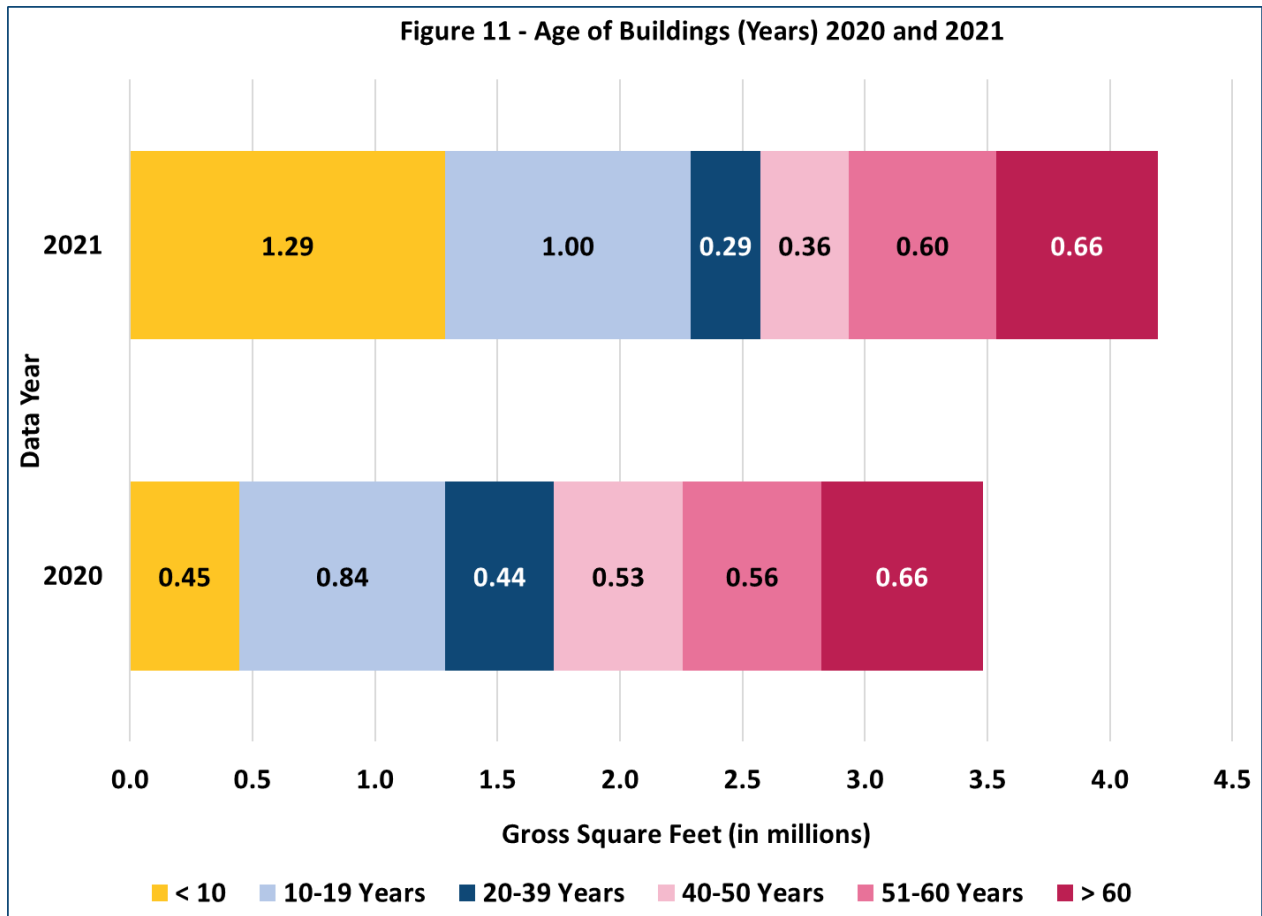


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021

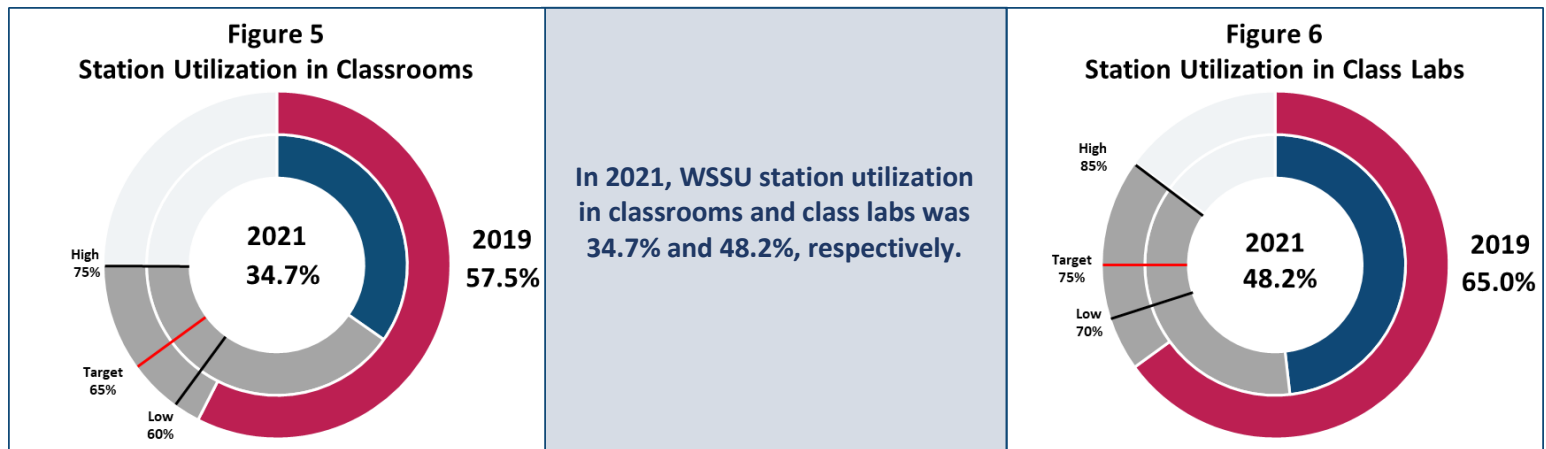
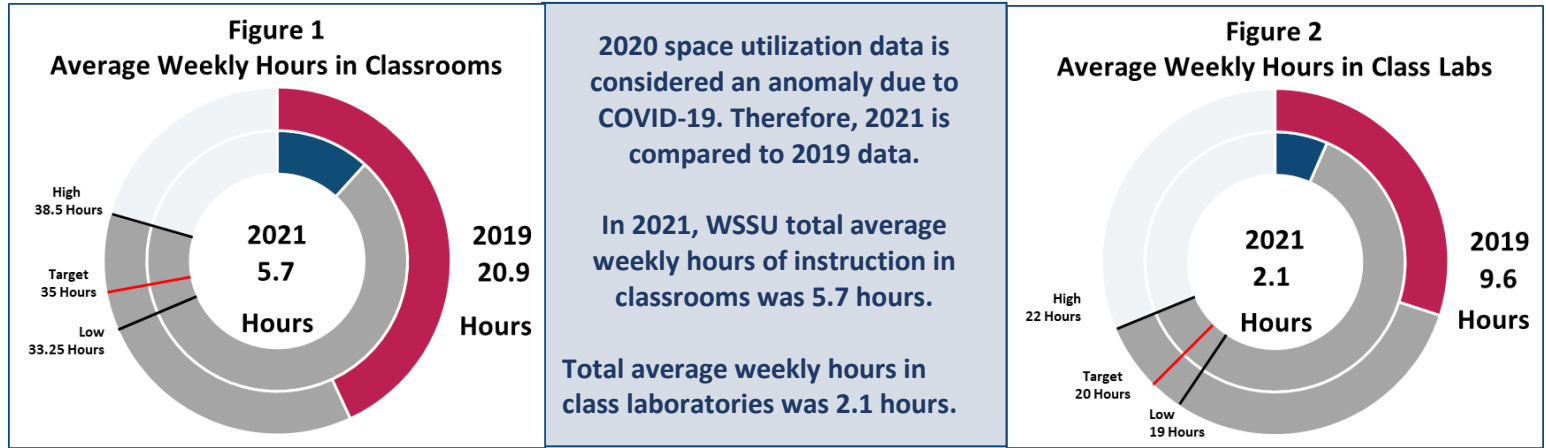


Western Carolina University Summary



Founded in 1892, WSSU enjoys a distinguished reputation as a historically black constituent institution of the UNC System that offers a rich curriculum rooted in a high-quality, liberal education. The university fosters the creative thinking, analytical problem-solving, and depth of character that graduates need to transform themselves and their world, embodying WSSU’s motto, “Enter to Learn. Depart to Serve.” The figures below focus on the utilization of instructional space, room space characteristics and building characteristics at the university.

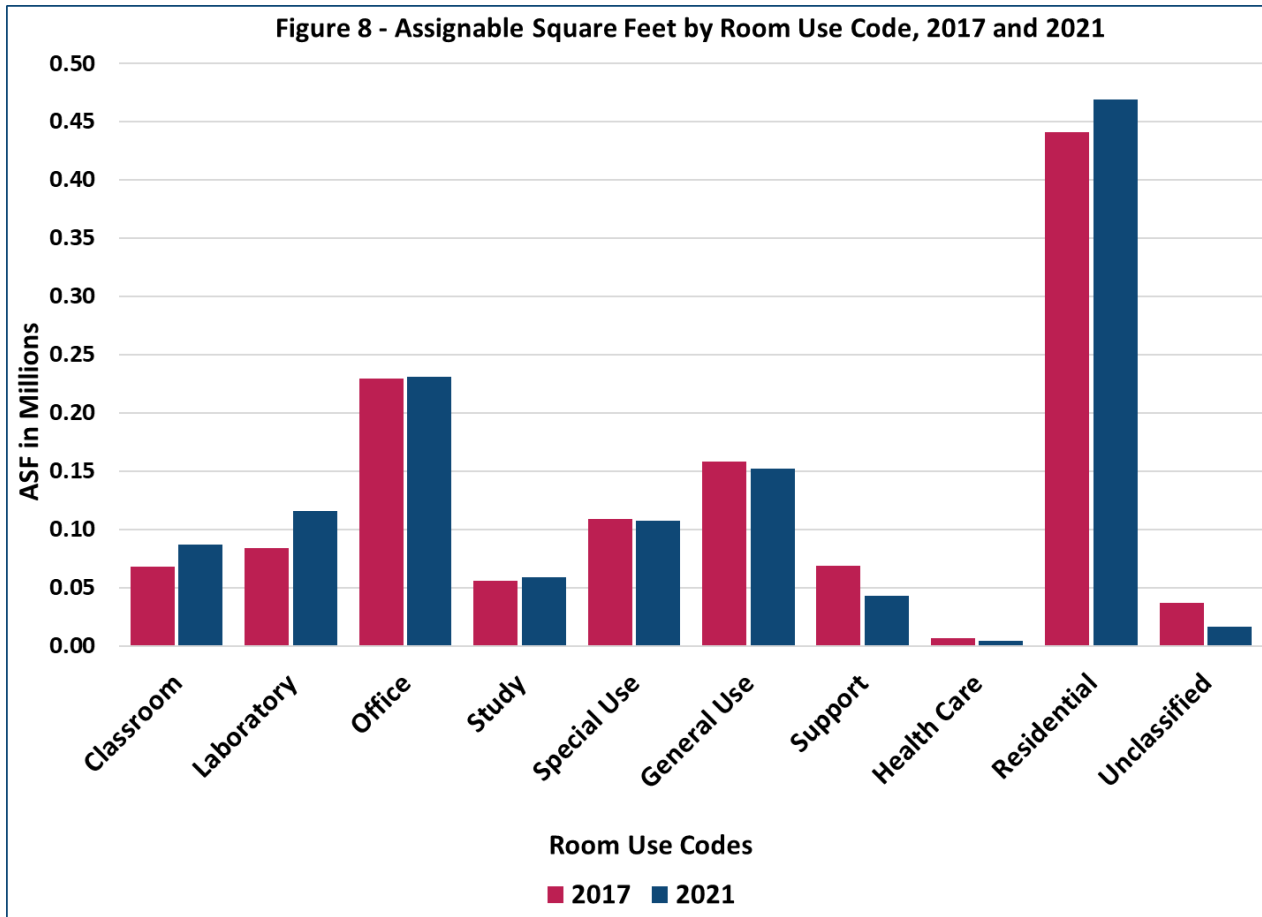
Utilization of Space



Room Space Characteristics

In 2021, the assignable square feet at WSSU remained unchanged from the previous year at 1,284,309.

Assignable Space by Program				
Program	Total ASF	% of Total in 2021	% of Total in 2017	% Change
Instruction	309,040	24.06%	20.89%	3.17%
Research	33,825	2.63%	2.70%	-0.07%
Public Service	4,205	0.33%	0.33%	-0.01%
Student Service	694,035	54.04%	53.56%	0.48%
Other	243,204	18.94%	22.52%	-3.58%



Building Characteristics

Winston-Salem State University has 2,003,023 gross square feet of space comprised of 50 buildings (15 residential, 35 non-residential; 25 appropriated, 25 non-appropriated; 30 owned, 7 leased, 13 under other agreement terms) with 1,284,309 square feet of assignable space, having increased by 2.1% within the last five years. Since 2020, gross square footage has remained unchanged.

Winston-Salem State University Building Characteristics	
50 Total Buildings	
25 Appropriated	30 Owned
25 Non-Appropriated	7 Leased
<hr/>	<hr/>
50 Total	50 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2017-2021

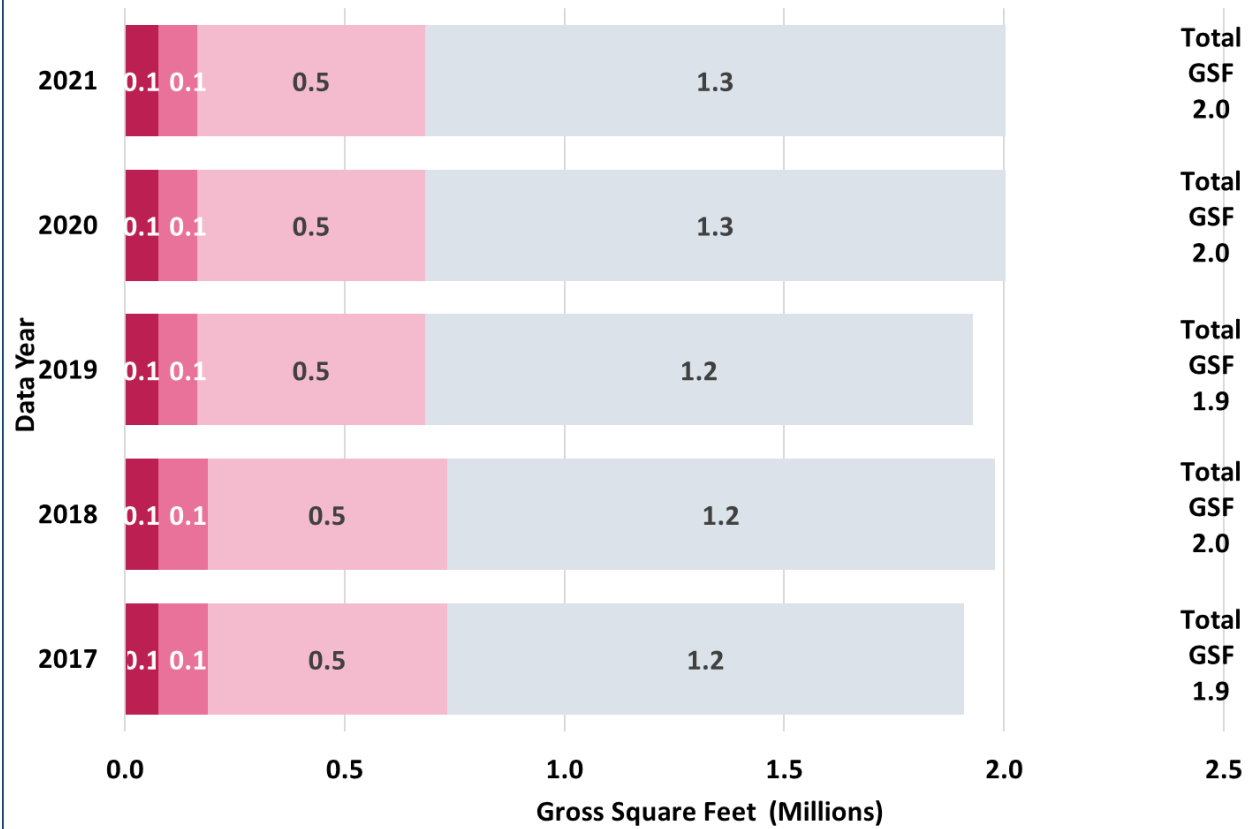
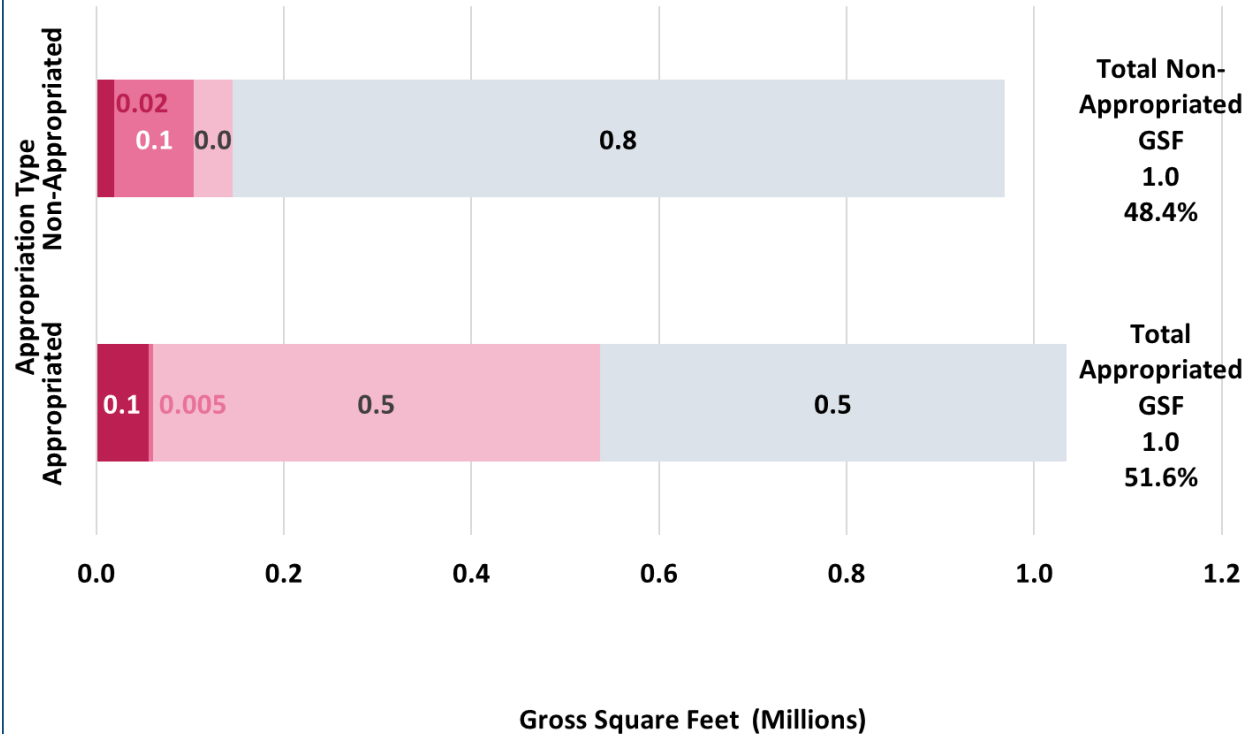
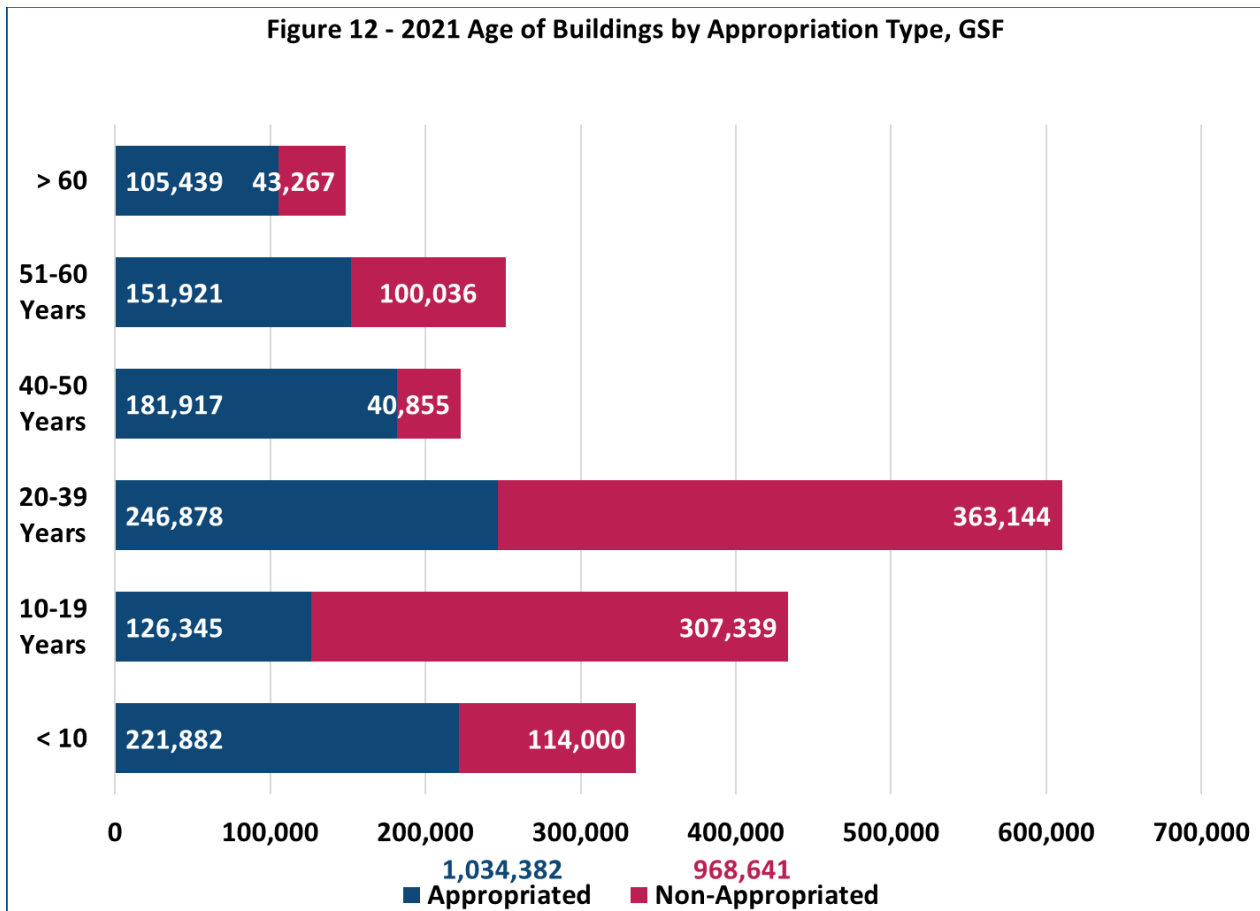
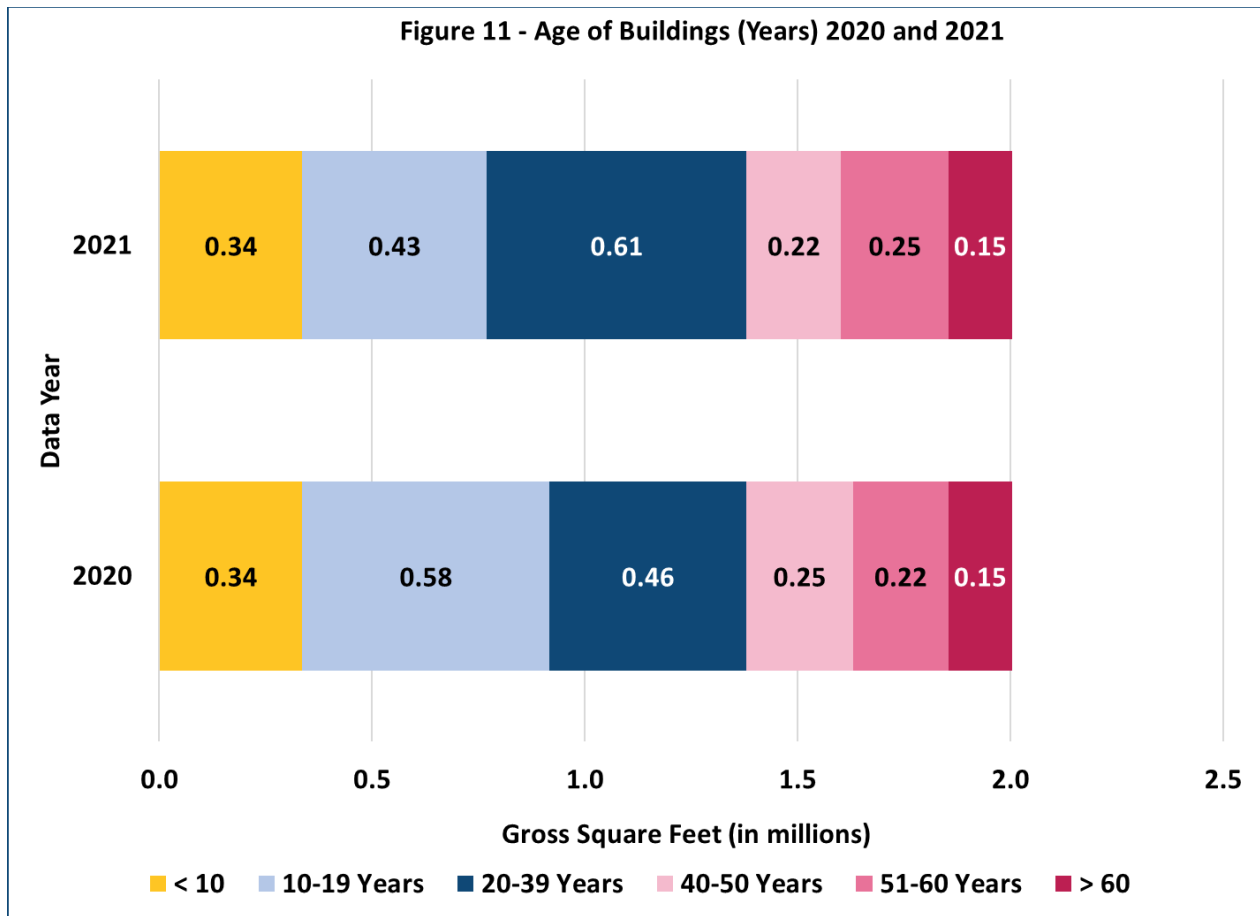


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021



Winston-Salem State University Summary









Legend

The table below identifies the study source for the figures contained in the appendix:

Figure #	Figure Title	Study Source
Figure 1	Average Weekly Hours in Classrooms	Table 3
Figure 2	Average Weekly Hours in Class Labs	Table 4
Figure 5	Station Utilization in Classrooms	Table 7
Figure 6	Station Utilization in Class Labs	Table 7
Figure 8	Assignable Square Feet by Room Use Code, 2021	Table 15
Figure 9	Total Gross Square Feet by Condition Type (in Millions) 2017-2021)	Table 22
Figure 10	Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2021	Table 22 (GSF Only)
Figure 11	Age of Buildings (Years), GSF	Table 21
Figure 12	2021 Age of Buildings by Appropriation Type, GSF	Table 21 (GSF Only)

The chart below defines the condition codes used in figures 9 and 10:

 Condition Code 1 - Satisfactory - Suitable for continued use with normal maintenance	 Condition Code 4 - Remodeling C - More than 50% of the estimated replacement cost of the building
 Condition Code 2 - Remodeling A - Less than 25% of the estimated replacement cost of the building	 Condition Code 5 - Demolition - Identified for demolition, typically because they are unsafe or unsound
 Condition Code 3 - Remodeling B - Between 25% and 50% of the estimated replacement cost of the building	 Condition Code 6 - Termination - No longer in use for reasons other than condition

Attachment A
FY23 REPORT ON THE UNIVERSITY OF NORTH CAROLINA CAPITAL PROJECTS
UTILIZING ALTERNATIVE PROJECT DELIVERY METHODS

Institution	Project Name	Project Budget	Alternative Delivery Method				# of Firms Responding	Firm Selected
			CM at Risk	Design-Build	P3	Other		
App State	Duncan Hall Renovation/Peacock Hall Addition	\$45,000,000	X				5	J.R. Vannoy
App State	Holmes Convocation Center Parking Deck	\$20,000,000		X			15	New Atlantic Contracting
App State	Innovation Campus - Conservatory for Biodiversity and Educational Research	\$61,584,386	X				3	Muter Construction LLC/ Greene Construction (Joint Venture)
App State	Wey Hall - Renovation	\$17,000,000	X				3	Muter Construction, LLC
ECU	Brody School of Medicine (New Medical Education Building)	\$215,000,000	X				3	TA Loving/Barnhill/Metcon (Triventure)
ECU	Howell Science Building South - Comprehensive Renovation (Phase 1)	\$30,000,000	X				6	Muter Construction
ECU	Mendenhall Comprehensive Renovation - Phase 2	\$10,544,304	X				4	Bordeaux Construction Company, Inc.
ECSU	Emergency Generator Power Operations	\$7,000,000	X				3	Balfour Beatty Construction, LLC
ECSU	Flight School	\$34,000,000	X				4	Muter Construction
ECSU	Infrastructure Upgrades - Water & Electrical Phases 1 and 2	\$40,350,000	X				3	Balfour Beatty Construction, LLC
ECSU	New Residence Hall and New Dining Facility	\$40,000,000	X				2	Whiting Turner/Holt Brothers
FSU	New College of Education	\$63,000,000	X				5	Metcon + Raleigh Raised
FSU	New Residence Hall	\$44,000,000	X				4	Samet/McFarland
N.C. A&T	Bluford Street Residence Hall	\$64,000,000	X				6	Samet
NCCU	None							
NC State	CVM Equine Hospital	\$120,000,000	X				5	DPR/Bridgepoint
NC State	Dabney Hall Renovation	\$60,000,000	X				11	New Atlantic/SCS
NC State	Electrical Distribution Upgrade	\$58,800,000	X				4	Balfour Beatty
NC State	STEM Building - Integrative Sciences Building	\$180,000,000	X				11	Skanska
UNCA	None							
UNC-CH	School of Business - McColl Building Addition and Renovation	\$181,000,000	X				10	Barnhill/Holt Brothers (Joint Venture)
UNCC	Atkins Library Tower - Elevator, ADA, Fire/Smoke System Upgrades	\$13,849,000	X				6	Barton Malow Builders
UNCC	Cameron Second Floor Renovation	\$26,050,000	X				7	New Atlantic Contracting, Inc.
UNCC	Popp Martin Dining Renovations	\$11,498,450	X				5	Whiting Turner Contracting Co.
UNCG	Campus Chilled Water Infrastructure & Equipment Improvements	\$10,413,158	X				5	Balfour Beatty Construction, LLC
UNCG	Fuel Island Replacement	\$500,000				Turnkey (selected through Sourcewell Co-op)	N/A	JF Acquisition, LLC
UNCG	Jackson Library - Addition and Renovation	\$81,000,000	X				6	Skanska USA Building, Inc.
UNCP	None							
UNCSA	Stevens Center - Renovation (Phase 1)	\$29,800,000	X				9	Frank L. Blum and W.C. Construction Co.
UNCW	Alderman Hall and King Hall Renovations	\$11,455,934	X				5	Muter Construction
UNCW	Coastal Marine Studies - Plumbing, Mechanical & Electrical Renovations	\$9,926,000	X				4	SAMET Construction
UNCW	Isaac Bear Early College High School	\$994,000	X				6	Barnhill Construction
UNCW	Randall Library - Renovation and Expansion	\$64,449,049	X				4	Balfour Beatty/RJ Leeper Construction
UNCW	Walton Drive Student Village Recreation Fields and Facilities	\$9,750,000		X			7	Monteith Construction/LS3P
WCU	Moore Building Renovation	\$35,500,000	X				6	James R. Vannoy & Sons Construction Co., Inc.
WSSU	None							
PBS-NC	None							
NC Arb	None							
TOTAL:		\$1,596,464,281	29	2	0	1		

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** Appalachian State University

2. **Project Title:** Duncan Hall Renovation & Peacock Hall Addition

3. **Total Project Budget:** \$45,000,000

4. **Describe the proposed scope of work:**

This project is comprised of two individual packages to be executed under one design firm and CM@R contract. The two projects are (A) the Edwin Duncan Hall Renovation and (B) the Walker College of Business Addition and Renovation. The first package (A) will completely gut and renovate Duncan Hall, including adding / refurbishing elevators, building envelope repairs, adding a sprinkler system, completely revamping HVAC, and giving the overall building a face lift while adapting to current and future programming needs as budget dictates. The 82,400 sqft building was constructed in 1965 and there have been numerous in-house small renovations. The goal is for the building to remain an academic office / classroom building. The second package (B) This project is for a new addition to the Walker College of Business located currently at Peacock Hall. The new, approximately 54,000 sqft. structure is to be dedicated to various classrooms/labs, office spaces, common & special use areas, mechanical infrastructure space and bridging to the existing building on the 1st and 2nd floor levels.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

The CMR delivery method entails a commitment by the CMR for construction performance to deliver the project within a defined schedule and price, either a fixed lump sum or a guaranteed maximum price (GMP). The CMR provides construction input to the owner during the design phases and becomes the general contractor during the construction phase. The Duncan Hall Renovation and Peacock Hall Addition projects are adjacent and have similar schedules. The complexity of this condition has led to choosing the CMR delivery method.

7. **Description of anticipated benefits:**

Appalachian State University is expecting the benefit of having the opportunity to incorporate a contractor's perspective and input to planning and design decisions in a CMR delivery method while our designer works directly for us (the owner). We anticipate earlier knowledge of costs and involvement of constructor expertise in a volatile construction environment. We are also working toward a faster project delivery project delivery than with a traditional design-bid-build.

8. **Date of Advertisement:**

Posting Date: 7/24/2022
Closing Date: 8/24/2022

9. **List of all firms responding:**

1)Barnhill Contracting Company 2)Barton Malow Buildewrs 3)Edison Foard Construction 4)Metcon/Greene 5)JR Vannoy

10. **Firm selected:** JR Vannoy

11. Reasons why the firm was selected:

JR Vannoy was chosen because of the experience level of their collective team members assigned to this project. This PM and Superintendent have valid CMR experience in working on a University campus. Also, they have enough leverage on local contractors in a challenging bidding climate.

12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

G.S. 143-128.1C

13 Terms of the contract:

Date of the agreement: _____

a. For Construction Manager at Risk Contracts:

Preconstruction Services Cost: _____

Complete information below when the GMP contract is awarded.

GMP Cost of the Work: _____

General Conditions and Fees: _____

Bonds and Insurance: _____

Total GMP: _____

Additional Details:

Duncan Preconstruction Services contract and Early Demolition GMP being worked through SCO over the next two weeks. Peacock Precon services and GMP delayed due to the need for additional funding. Once additional funding is in place, we'll move forward with Precon services and GMP. Both of these projects have been delayed due to funding constraints.

b. For Design-Build Contracts:

Design Phase Costs: _____

Construction Phase Costs: _____

Additional Details:

c. For Public-Private Partnerships (P3):

Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** Appalachian State University

2. **Project Title:** Holmes Convocation Center Parking Deck

3. **Total Project Budget:** \$20,000,000

4. **Describe the proposed scope of work:**

The project is a new six level, 600 stall double ramp parking deck constructed primarily with precast concrete. The exterior will incorporate thin-brick into the precast panels and will have stone masonry, Architectural metal panels, a cascading exterior stair and standing seam metal roofing for aesthetics. The design includes two elevators and stair tower. The new structure is situated on the site of an existing surface parking lot.

5. **Type of Alternative Delivery Method:** Design-Build

6. **Explanation for choosing this alternative project delivery method for this project:**

The design-build project delivery method was chosen to capture the best probability to complete the project on-schedule to meet the start of the Appalachian State Academic calendar. A feasibility study demonstrated that the building shape would need to be simple to optimize the site. Both the project schedule and the project scope justified

7. **Description of anticipated benefits:**

The design-build team included the concrete precaster that allowed the design to move faster and resulted in being able to secure a slot in the production schedule that would otherwise have lost months to a traditional design-bid-build methodology. The design-build process resulted in a successful design that kept the budget comparatively close

8. **Date of Advertisement:**

Posting Date: 8/16/2022

Closing Date: 9/6/2022

9. **List of all firms responding:**

1. Barton Malow Builders, 2. Carl Walker Construction, Inc. 3. Christman Co. 4. Clancy & Theys Construction, 5. FINFROCK, 6. Frank L Blum Construction, 7. Harper General Contractors, 8. Karma Contracting, 9. Lynch Mykins, 10. New Atlantic Contracting, 11. O & S Associates Engineers & Architects, 12. Samet Corp. 13. Shelco, 14. Vannoy Construction, 15. TRC Worldwide Engineering

10. **Firm selected:** New Atlantic Contracting

11. **Reasons why the firm was selected:**

New Atlantic Contracting was chosen for presenting the overall strongest qualified team that included Tindall as a strategic partner that could preserve a precast production slot that provided a pathway to have the construction completed on-time.

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

G.S. 143-128.1A

13. Terms of the contract:	
Date of the agreement:	11/22/2022
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	
General Conditions and Fees:	
Bonds and Insurance:	
Total GMP:	
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	\$1,496,008
Construction Phase Costs:	\$17,626,379
Additional Details:	
c. For Public-Private Partnerships (P3):	
<p>Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.</p>	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** Appalachian State University

2. **Project Title:** Innovation Campus-Conservatory for Biodiversity And Educational Research (CBEAR)

3. **Total Project Budget:** \$61,581,386

4. **Describe the proposed scope of work:**

Construct a new academic STEM building for applied teaching and research as well as a conservatory for public education. This will allow for the expansion of overcrowded and growing programs that currently exist in other spaces on campus. As a part of the Innovation Campus, this project will pursue the Living Building Challenge as a commitment to sustainability. This project will provide teaching labs, classrooms, teaching greenhouses and install a new access road and improve the existing water and sewer infrastructure for the Innovation Campus.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

The CMR delivery method entails a commitment by the CMR for construction performance to deliver the project within a defined schedule and price, either a fixed lump sum or a guaranteed maximum price (GMP). The CMR provides construction input to the owner during the design phases and becomes the general contractor during the construction phase. A P3 Faculty Housing Project is simultaneously being constructed across the street from the CBEAR project. Vast amounts of coordination of site work and utility work as well as the Living Building Challenge aspect of the project has increased the complexity of this project and has led to choosing the CMR delivery method.

7. **Description of anticipated benefits:**

Appalachian State University is expecting the benefit of having the opportunity to incorporate a contractor's perspective and input to planning and design decisions in a CMR delivery method while our designer works directly for us (the owner). We anticipate earlier knowledge of costs and involvement of constructor expertise in a volatile construction environment. We are also working toward a faster project delivery than with a traditional design-bid-build.

8. **Date of Advertisement:**

Posting Date: 9/28/2022
Closing Date: 10/18/2022

9. **List of all firms responding:**

1. Muter Construction / Greene Construction - Joint Venture, 2. Shelco, 3. Vannoy Construction

10. **Firm selected:** Muter Construction / Greene Construction - Joint Venture

11. **Reasons why the firm was selected:**

Muter Construction / Greene Construction - Joint Ventrure was chosen for presenting the overall strongest qualified team that included extensive state wide CMR experience from Muter Construction and exception AppState

construction experince and local contractor connections from Greene Construction.

12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

G.S. 143-128.1A

13. Terms of the contract:

Date of the agreement: 3/21/2023

a. For Construction Manager at Risk Contracts:

Preconstruction Services Cost: \$491,750

Complete information below when the GMP contract is awarded.

GMP Cost of the Work: \$6,818,080

General Conditions and Fees: \$772,492

Bonds and Insurance: \$184,727

CMR Contingency : \$201,520

Total GMP: \$7,976,819

Additional Details:

The GMP has been awarded for mass grading of the Innovation Campus site only. The GMP has not been awarded for the CBEAR building yet. Design drawings are at the CD phase currently.

b. For Design-Build Contracts:

Design Phase Costs: N/A

Construction Phase Costs: N/A

Additional Details:

c. For Public-Private Partnerships (P3):

Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** Appalachian State University

2. **Project Title:** Wey Hall Comprehensive Renovations and Modernization

3. **Total Project Budget:** \$17,000,000

4. **Describe the proposed scope of work:**

Fully Renovate and modernize the building to include new classroom/lab/studio configurations for current requirements, electrical, mechanical, plumbing, fire alarm systems, IT Infrastructure upgrades, & new sprinkler system. Exterior work will be a roof replacement, window sealants, new elevator (heavier capacity) and shaft, new mechanical/electrical/telecom addition, relocate spray paint booth to new addition, new roof top efficient HVAC RTU's. Site improvements include revised ramp meeting code, new front entry, new generator and new utilities service entranceways.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

The CMR delivery method entails a commitment by the CMR for construction performance to deliver the project within a defined schedule and price, either a fixed lump sum or a guaranteed maximum price (GMP). The CMR provides construction input to the owner during the design phases and becomes the general contractor during the construction phase. Due to the different/unique Art Department Labs, Studios and Classrooms required aspects of the project have increased the complexity of this project and have led to choosing the CMR delivery method. The Building was built in 1976, three story, 54,098 GSF and housing the Art Department. The existing bulding is currently not sprinklered.

7. **Description of anticipated benefits:**

Appalachian State University is expecting the benefit of having the opportunity to incorporate a contractor's perspective and input to planning and design decisions in a CMR delivery method while our designer works directly for us (the owner). We anticipate earlier knowledge of costs and involvement of constructor expertise in a volatile construction environment. We are also working toward a faster project delivery than with a traditional design-bid-build.

8. **Date of Advertisement:**

Posting Date: 4/26/2022
Closing Date: 6/9/2022

9. **List of all firms responding:**

1. Muter Construction, LLC, 2. New Atlantic, 3. Vannoy Construction

10. **Firm selected:** Muter Construction, LLC

11. **Reasons why the firm was selected:**

Muter Construction, LLC was chosen for presenting the overall strongest qualified team that included extensive state wide CMR experience from Muter Construction, LLC, projects working with occupied buildings and recent experience renovating/modernizing higher ed labs/studios.

12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMAr first-tier subcontracts to be competitively bid.

G.S. 143-128.1A

13. Terms of the contract:

Date of the agreement:

5/11/2023

a. For Construction Manager at Risk Contracts:

Preconstruction Services Cost:

\$119,000

Complete information below when the GMP contract is awarded.

GMP Cost of the Work:

\$11,478,838

General Conditions and Fees:

\$1,327,905

Bonds and Insurance:

\$311,003

CMR Contingency :

\$339,276

Total GMP:

\$13,457,022

Additional Details:

The Muter Construction (CMR) is currently going through a Value Engineering Phase and looking to self-perform some of the items in the general trades package that were bid, re-bid, and attempted re-negotiation.

b. For Design-Build Contracts:

Design Phase Costs:

N/A

Construction Phase Costs:

N/A

Additional Details:

c. For Public-Private Partnerships (P3):

Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** East Carolina University

2. **Project Title:** Brody School of Medicine (New Medical Education Building)

3. **Total Project Budget:** \$215,000,000

4. **Describe the proposed scope of work:**

The new Medical Education Building is expected to be a multi-story 180,000 square foot facility. It will include a parking deck for 500 cars and a chiller plant. It is intended to support growth of the Medical School's student enrollment from 86 to 120+ students.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

This project includes a building, chiller plant, parking deck, and massive amount of infrastructure work. This work needs to be coordinated by a CM v/s a hard bid GC. Also, with the constantly changing price escalation, we need a CM's expertise and subcontractor relationships to get the most accurate estimates.

7. **Description of anticipated benefits:**

Better site coordination. Full time on-site project management. More accurate cost estimates. Fewer conflicts in new construction because of constructability reviews.

8. **Date of Advertisement:**

Posting Date: 8/31/2022

Closing Date: 10/13/2022

9. **List of all firms responding:**

T A Loving Company/Barnhill/Metcon; Goldsboro, NC; Clancey & Theys Construction Company; Raleigh, NC; HITT Contracting; Raleigh, NC

10. **Firm selected:** T A Loving Company/Barnhill/Metcon; Goldboro, NC

11. **Reasons why the firm was selected:**

Our selected firm has a wealth of experience in NC and with SCO. They have a proven history with ECU on an almost equally complicated project.

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

All bid packages will be competitively bid to pre-qualified subcontractors

13. Terms of the contract:	
Date of the agreement:	<input style="width: 100%;" type="text"/>
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	<input style="width: 100%;" type="text" value="\$1,581,905"/>
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	<input style="width: 100%;" type="text" value="n/a"/>
General Conditions and Fees:	<input style="width: 100%;" type="text"/>
Bonds and Insurance:	<input style="width: 100%;" type="text"/>
Total GMP:	<input style="width: 100%;" type="text"/>
Additional Details:	<div style="border: 1px solid black; height: 50px; width: 100%;"></div>
b. For Design-Build Contracts:	
Design Phase Costs:	<input style="width: 100%;" type="text"/>
Construction Phase Costs:	<input style="width: 100%;" type="text"/>
Additional Details:	<div style="border: 1px solid black; height: 50px; width: 100%;"></div>
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** East Carolina University
2. **Project Title:** Howell Building South - Comprehensive Renovation
3. **Total Project Budget:** \$30,000,000
4. **Describe the proposed scope of work:**

The original 1969 complex is being renovated to support collaborate lab space, new classrooms and offices. Deferred maintenance will be addressed throughout including building systems, life safety, accessibility, code compliance and abatement.
5. **Type of Alternative Delivery Method:** Construction Manager at Risk
6. **Explanation for choosing this alternative project delivery method for this project:**

Howell Science complex is composed of three towers in the center of campus. This North and the East tower will remain online during the renovation of the South. The South tower is the heart of the complex with all MEP and network service feeding through the South tower. The CMAR delivery will help facilitate logistics and MEP service continuity throughout the project. Having a CMAR on board will assist in constructability and cost through design in hopes of designing as efficient as possible.
7. **Description of anticipated benefits:**

Having a CMAR will play a crucial role in managing the interior and exterior logistics in this heavily occupied complex at the center of campus. The CMAR will play an important role in scheduling and phasing the construction to allow the other two towers to remain online at all times without disruption to the MEP and network services. The CMAR will assist in constructability reviews which will help in cost saving construction practices.
8. **Date of Advertisement:**

Posting Date: 7/27/2022
Closing Date: 8/25/2022
9. **List of all firms responding:**

Muter Construction, Zebulon, NC; TA Loving Company, Goldsboro, NC; Bordeaux Construction Company, Morrisville, NC; Monteith Construction Corporation, Wilmington, NC; Frank L. Blum Construction Company, Raleigh, NC; Daniels and Daniels Construction Company, Inc., Goldsboro, NC
10. **Firm selected:** Muter Construction, Zebulon, NC
11. **Reasons why the firm was selected:**

The CMAR had extensive experience working in occupied space in education settings. The team assemble had a wealth of CMAR experience. Similar projects were delivered on time and within budget.
12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.
All bid packages will be competitively bid to pre-qualified subcontractors.

13. Terms of the contract:	
Date of the agreement:	1/18/2023
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$302,335
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	
General Conditions and Fees:	
Bonds and Insurance:	
Total GMP:	
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
<p>Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.</p>	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** East Carolina University

2. **Project Title:** Mendenhall Comprehensive Renovation Phase 2

3. **Total Project Budget:** \$10,544,304

4. **Describe the proposed scope of work:**

University Admissions and the Graduate School will be relocated into the ground floor of Mendenhall in space renovated to meet program needs and current building code and ADA code requirements.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Mendenhall is a heavily occupied building in the center of campus requiring a lot of coordination to minimize the impact to building occupants and to maintain the buildings MEP and network services throughout construction. . The CMAR will assist in constructability reviews which will help in cost saving construction practices.

7. **Description of anticipated benefits:**

The CMAR will play a vital role in managing the interior and exterior site logistics in this heavily occupied building. The building will remain occupied throughout the duration of the project including office, catering kitchen and classroom space. The existing MEP infrastructure as well as network service must remain online during this project. The CMAR will manage and coordinate this in order to keep the building online. The CMAR will assist in constructability reviews which will help in cost saving construction practices.

8. **Date of Advertisement:**

Posting Date: 9/2/2022

Closing Date: 10/7/2022

9. **List of all firms responding:**

Bordeaux Construction Company, Morrisville, NC; TA Loving Company, Goldsboro, NC; Monteith Construction Corporation, Wilmington, NC; Daniels and Daniels Construction Company, Goldsboro, NC

10. **Firm selected:** Bordeaux Construction Company, Morrisville, NC

11. **Reasons why the firm was selected:**

Bordeaux assembled a qualified team that had worked together previously. The superintendent was very seasoned and had a wealth of experience on renovations in occupied space. Bordeaux teamed with Raleigh raised a MBE partner. Previous similar projects were performed on time and within budget.

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

All bid packages will be competitively bid to pre-qualified subcontractors.

13. Terms of the contract:	
Date of the agreement:	1/5/2023
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$80,330
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	
General Conditions and Fees:	
Bonds and Insurance:	
Total GMP:	
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** Elizabeth City State University

2. **Project Title:** Campus Generator Project

3. **Total Project Budget:** \$7,000,000

4. **Describe the proposed scope of work:**

Installation of a New Generator Plant to provide life safety power to all campus facilities and full system power to critical campus buildings. Provide New Generators on buildings not connected to the campus electrical distribution system.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Construction Manager expertise needed for pre-construction to verify that project could be completed within the adequate budget. The project will be a phased project that will support the new infrastructure electrical distribution loop requiring a coordinated phased approach to ensure timely and proper installation.

7. **Description of anticipated benefits:**

The project will provide emergency life safety power to all campus facilities and full system power through a SCADA system to all critical buildings on campus. (Residence Halls, Cafeteria, Campus Police, Main Administrative Buildings)

8. **Date of Advertisement:**

Posting Date: 1/3/2023

Closing Date: 1/24/2023

9. **List of all firms responding:**

1. Balfour Beatty Construction, LLC 2. Hitt Construction 3. Daniels and Daniels Construction

10. **Firm selected:** Balfour Beatty Construction, LLC

11. **Reasons why the firm was selected:**

Balfour Beatty has a history of successful infrastructure projects on University Campuses and provided the adequate expertise and vision to assist ECSU in completing the project.

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Phase 1: Jan. 2024 Phase 2: March 2024

13. Terms of the contract:	
Date of the agreement:	2/27/2023
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$52,230
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	Not there yet
General Conditions and Fees:	Not there yet
Bonds and Insurance:	Not there yet
Total GMP:	\$5,919,000
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** Elizabeth City State University

2. **Project Title:** Flight School

3. **Total Project Budget:** \$34,000,000

4. **Describe the proposed scope of work:**

Provide a new facility to support the Aviation Program which includes the Flight School, Emergency Management, and Drone Program.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Construction Manager expertise needed for pre-construction to verify that project could be completed within the adequate budget.

7. **Description of anticipated benefits:**

The project will provide a new facility that will support the Aviation Programs growth on campus

8. **Date of Advertisement:**

Posting Date: 2/14/2023

Closing Date: 3/7/2023

9. **List of all firms responding:**

1. Muter Construction 2. TA Loving 3. HITT Contracting 4. Whiting Turner/Holt Brothers

10. **Firm selected:** Muter Construction

11. **Reasons why the firm was selected:**

Muter Construction was selected based off their ample SCO experience, excellent presentation, and the ability to support a project in Northeastern NC.

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

May-25

13. Terms of the contract:	
Date of the agreement:	Still Negotiating
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	Still Negotiating
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	Not there yet
General Conditions and Fees:	Not there yet
Bonds and Insurance:	Not there yet
Total GMP:	\$28,800,000
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** Elizabeth City State University

2. **Project Title:** Infrastructure - Water and Electrical Phase 1 & 2

3. **Total Project Budget:** \$40,350,000

4. **Describe the proposed scope of work:**

Installation of new underground electrical distribution system, new domestic water mains, and new backflow preventers at all campus buildings. New Domestic Water Booster Pumps on the North and South end of campus to provide adequate water pressure to life safety systems on campus.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Construction Manager expertise needed for pre-construction to verify that project could be completed within the adequate budget. The project is a multi-phase project that will need extended oversight provided by a construction manager.

7. **Description of anticipated benefits:**

The project will provide new stable electrical distribution to campus facilities and adequate domestic water pressure to campus facilities.

8. **Date of Advertisement:**

Posting Date: 1/3/2023

Closing Date: 1/24/2023

9. **List of all firms responding:**

1. Balfour Beatty Construction, LLC 2. Hitt Construction 3. Daniels and Daniels Construction

10. **Firm selected:** Balfour Beatty Construction, LLC

11. **Reasons why the firm was selected:**

Balfour Beatty has a history of successful infrastructure projects on University Campuses and provided the adequate expertise and vision to assist ECSU in completing the project.

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Phase 1: Nov. 2023 Phase 2: March 2024

13. Terms of the contract:	
Date of the agreement:	2/27/2023
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$304,440
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	Not there yet
General Conditions and Fees:	Not there yet
Bonds and Insurance:	Not there yet
Total GMP:	\$31,840,000
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** Elizabeth City State University

2. **Project Title:** New Residence Hall and Dining Facility

3. **Total Project Budget:** \$40,000,000

4. **Describe the proposed scope of work:**

Provide a new 400 bed residence hall on campus and a new campus Dining Facility

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Construction Manager expertise needed for pre-construction to verify that project could be completed within the adequate budget.

7. **Description of anticipated benefits:**

The project will provide a new and updated campus housing facility on campus and new campus dining facility

8. **Date of Advertisement:**

Posting Date: 4/12/2022

Closing Date: 5/2/2022

9. **List of all firms responding:**

1. Whiting-Turner/Holt 2. H.G. Reynolds

10. **Firm selected:** Whiting-Turner/Holt Brothers

11. **Reasons why the firm was selected:**

Whiting-Turner/Holt Brothers was selected based on their ability to deliver a project in NorthEastern NC

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Aug-23

13. Terms of the contract:	
Date of the agreement:	7/18/2023
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$368,058
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	\$36,173,569
General Conditions and Fees:	\$4,331,638
Bonds and Insurance:	\$793,460
Total GMP:	\$41,998,078
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** Fayetteville State University

2. **Project Title:** New College of Education

3. **Total Project Budget:** \$63,000,000

4. **Describe the proposed scope of work:**

Construct a new College of Education building on the FSU campus.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

The project exceeded the minimum budget threshold guideline (\$10M) for CMR, and had a very aggressive delivery schedule (8/2025) that would require early procurement.

7. **Description of anticipated benefits:**

CMR insight into volatile market conditions and supply chain issues, comprehensive HUB program, minimizing risk on bid day(s).

8. **Date of Advertisement:**

Posting Date: 9/6/2022

Closing Date: 10/13/2022

9. **List of all firms responding:**

Barr & Barr, Christman, ClanceyTheys, Metcon + Raleigh Raised, Samet + McFarland Construction

10. **Firm selected:** Metcon + Raleigh Raised

11. **Reasons why the firm was selected:**

Strength of shortlist interview

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Competitive bids.

13. Terms of the contract:	
Date of the agreement:	5/17/2023
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$472,500
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	
General Conditions and Fees:	
Bonds and Insurance:	
Total GMP:	
Additional Details:	
Preconstruction Services contract is still in progress.	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** Fayetteville State University

2. **Project Title:** New Residence Hall

3. **Total Project Budget:** \$44,000,000

4. **Describe the proposed scope of work:**

Construct a new 400 bed residence hall on the FSU campus.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

The project exceeded the minimum budget threshold guideline (\$10M) for CMR, and had a very aggressive delivery schedule (8/2024) that would require early procurement.

7. **Description of anticipated benefits:**

CMR insight into volatile market conditions and supply chain issues, comprehensive HUB program, minimizing risk on bid day(s).

8. **Date of Advertisement:**

Posting Date: 5/3/2022

Closing Date: 5/24/2022

9. **List of all firms responding:**

Metcon + B JL Construction, SAMET + McFarland Construction, Bordeaux Construction + Raleigh Raised Development, J.M. Thompson

10. **Firm selected:** Samet/McFarland

11. **Reasons why the firm was selected:**

Strength of team presented and shortlist interview

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Competitive bids.

13. Terms of the contract:	
Date of the agreement:	9/30/2022
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$319,657
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	
General Conditions and Fees:	
Bonds and Insurance:	
Total GMP:	
Additional Details:	
This Preconstruction Services agreement was completed. The owner and CMR could not agree to a GMP.	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** NC A&T University

2. **Project Title:** Bluford Street Residence Hall

3. **Total Project Budget:** \$64,000,000

4. **Describe the proposed scope of work:**

New 4-story residence hall consisting of 401 student beds in both double and private rooms, 2 staff apartments with 2 beds each along with lounges, study rooms and staff offices

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

This delivery method enables more collaboration between all parties and hopefully fewer coordination issues. In addition, the cost estimates are more accurate earlier in the process for budgeting purposes.

7. **Description of anticipated benefits:**

Better coordination between architect and contractor, potential cost savings, anticipated for project to run smoother and potentially be done quicker.

8. **Date of Advertisement:**

Posting Date: 8/29/2022

Closing Date: 9/20/2022

9. **List of all firms responding:**

Balfour Beatty w/ C2 Contracors, Barton Malow Builders, Blum w/ WC Construction, Elford, New Atlantie w/ SCS, Samet w/ CATE

10. **Firm selected:** Samet

11. **Reasons why the firm was selected:**

Samet was selected based upon experience with similar projects and ability to bring projects in on time and under budget. In addition, their MWBE plan was thorough.

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMAr first-tier subcontracts to be competitively bid.

Prequalifications and competitvely bidding.

13. Terms of the contract:	
Date of the agreement:	2/10/2023
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$401,980
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	
General Conditions and Fees:	
Bonds and Insurance:	
Total GMP:	
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
<p>Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.</p>	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** NC State University

2. **Project Title:** CVM Equine Hospital

3. **Total Project Budget:** \$120,000,000

4. **Describe the proposed scope of work:**

This project will renovate and expand the Equine Hospital on the Centennial Biomedical Campus (CBC), replacing outdated facilities lacking in vital units for critical care and sports medicine. The new hospital will include in-patient, outpatient, emergency, orthopedics, surgery, and ICU services with an isolation building, arena, and horse barns. It will house equine clinical teaching as well as integrated research laboratories for regenerative medicine and gastrointestinal health.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Because of the time and budget constraints for completion of the project this delivery method provides more certainty for project completion within time and on budget.

Pre-construction services of scheduling and cost estimating provide more certainty for a successfully placing the project under construction without delay.

Pre-construction services of constructability review and assistance with construction site planning ensures better materials management, vehicular and pedestrian traffic control, and construction site safety.

Construction Manager at Risk provides for prequalification of principal trade & specialty sub-contractors with input from the owner.

Past experience with Construction Manager at Risk projects indicates that significantly greater HUB participation is achieved with the Construction Manager at Risk project delivery method.

The Construction Manager at Risk delivery method allows the owner the opportunity to select a contractor through a qualification-based selection process considering both general and specific attributes of candidate firms as those attributes may apply to the project in question.

Other (explain).

NC State uses CMR delivery to build all its major projects (new buildings, renovations and/or infrastructure). This \$120M renovation and addition is very complicated project, requiring extra care in the planning, design, and construction, specifically a detailed logistics plan and construction sequencing. Pre-construction services provided for all the necessary estimating, scheduling and constructability review required for a complex hospital renovation. Prepurchase of extremely long lead items and a phased approach to the work will be key to delivering the project with minimal impact to ongoing hospital operations.

7. **Description of anticipated benefits:**

See #6 above.

8. **Date of Advertisement:**

Posting Date: 8/28/2022

Closing Date: 9/23/2022

9. **List of all firms responding:**

Frank L. Blum, JE Dunn/TA Loving/McFarland, LeChase/SGS, DPR/Bridgepoint, Skanska

10. **Firm selected:** DPR/Bridgepoint

11. Reasons why the firm was selected:

All procedures set forth by the State Building Commission for selection of a construction manager at risk were followed in making this selection. Specific reasons for the selection made are as follows (check all that apply):

- Workload that was fully able to accommodate the addition of this project.
- Record of successfully completed projects of similar scope without major legal or technical problems.
- Previous experience with the owner, a good working relationship with owner representatives, completion of projects in a timely manner and performance of an acceptable quality of work.
- Key personnel that have appropriate experience and qualifications.
- Relevant and easily understood graphic or tabular presentations
- Completion of CM at Risk projects in which there was little difference between the GMP and final cost.
- Projects that were completed on or ahead of schedule.
- Recent experience with project costs and schedules.
- Construction administration capabilities.
- Proximity to and familiarity with the area where the project is located.
- Quality of compliance plan for minority business participation as required by G.S. 143-128-2.
- Other factors that may be appropriate for the project (explain).

Pre-construction capabilities for highly technical and complex new construction projects that require pre-construction services provided by a Construction Manager during the design phase.

12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Competitively bid per G.S. 143-128.1©

13. Terms of the contract:	
Date of the agreement:	5/9/23 (Pre-con)
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$998,400
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	TBD
General Conditions and Fees:	TBD
Bonds and Insurance:	TBD
Total GMP:	TBD
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** NC State University

2. **Project Title:** Dabney Hall Renovation

3. **Total Project Budget:** \$60,000,000

4. **Describe the proposed scope of work:**

This is a multi-phased occupied renovation project for Dabney Hall (1969). The priority for the first phase of renovation includes building systems/exhaust upgrades and repair of the building envelope. The project will create a master plan for renovations to be implemented floor-by-floor in phases.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Because of the time and budget constraints for completion of the project this delivery method provides more certainty for project completion within time and on budget.
 Pre-construction services of scheduling and cost estimating provide more certainty for a successfully placing the project under construction without delay.
 Pre-construction services of constructability review and assistance with construction site planning ensures better materials management, vehicular and pedestrian traffic control, and construction site safety.
 Construction Manager at Risk provides for prequalification of principal trade & specialty sub-contractors with input from the owner.

7. **Description of anticipated benefits:**

See #6 above.

8. **Date of Advertisement:**

Posting Date: 5/1/2022

Closing Date: 5/27/2022

9. **List of all firms responding:**

Balfour Beatty, Barnhill/Lennox Grae, JE Dunn/McFarland, Holder/Holt Brothers, Romeo Guest/Right Build, Clancy & Theys/CIC, Elford/Muter, Bordeaux/Raleigh Raised Dev, New Atlantic/SCS, Skanska, Swinerton

10. **Firm selected:** New Atlantic/SCS

11. Reasons why the firm was selected:

All procedures set forth by the State Building Commission for selection of a construction manager at risk were followed in making this selection. Specific reasons for the selection made are as follows (check all that apply):

- Workload that was fully able to accommodate the addition of this project.
- Record of successfully completed projects of similar scope without major legal or technical problems.
- Previous experience with the owner, a good working relationship with owner representatives, completion of projects in a timely manner and performance of an acceptable quality of work.
- Key personnel that have appropriate experience and qualifications.
- Relevant and easily understood graphic or tabular presentations
- Completion of CM at Risk projects in which there was little difference between the GMP and final cost.
- Projects that were completed on or ahead of schedule.
- Recent experience with project costs and schedules.
- Construction administration capabilities.
- Proximity to and familiarity with the area where the project is located.
- Quality of compliance plan for minority business participation as required by G.S. 143-128-2.
- Other factors that may be appropriate for the project (explain).

Pre-construction capabilities for highly technical and complex new construction projects that require pre-construction services provided by a Construction Manager during the design phase.

12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Competitively bid per G.S. 143-128.1©

13. Terms of the contract:	
Date of the agreement:	9/23/22 (Pre-con)
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$377,019
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	TBD
General Conditions and Fees:	TBD
Bonds and Insurance:	TBD
Total GMP:	TBD
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** NC State University

2. **Project Title:** Electrical Distribution Upgrade

3. **Total Project Budget:** \$58,800,000

4. **Describe the proposed scope of work:**

The NC State campus between Western Blvd and Hillsborough St. has an aging underground electrical distribution system with components that have exceeded their useful life. The campus electrical infrastructure project will replace the aging infrastructure and install a new mainline loop configuration to improve resiliency, capacity, and safety. New underground ductbank, cables, manholes, and pad mounted switchgear for the electrical infrastructure improvements will be installed. The University will purchase and furnish to the contractor all pad mounted switchgear for installation.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Because of the time and budget constraints for completion of the project this delivery method provides more certainty for project completion within time and on budget.

Pre-construction services of scheduling and cost estimating provide more certainty for a successfully placing the project under construction without delay.

Pre-construction services of constructability review and assistance with construction site planning ensures better materials management, vehicular and pedestrian traffic control, and construction site safety.

Construction Manager at Risk provides for prequalification of principal trade & specialty sub-contractors with input from the owner.

Past experience with Construction Manager at Risk projects indicates that significantly greater HUB participation is achieved with the Construction Manager at Risk project delivery method.

The Construction Manager at Risk delivery method allows the owner the opportunity to select a contractor through a qualification-based selection process considering both general and specific attributes of candidate firms as those attributes may apply to the project in question.

Other (explain).

NC State uses CMR delivery to build all its major projects (new buildings, renovations and/or infrastructure). This \$58.8M electrical distribution project is very complicated project, requiring extra care in the planning, design, and construction, specifically a detailed logistics plan and construction sequencing. Pre-construction services provided for all the necessary estimating, scheduling and constructability review required for such an enormous underground endeavor. Prepurchase of extremely long lead time electrical equipment and a phased approach to the work was key to accelerating the schedule. Advanced planning and coordination of the complex electrical "cutovers" was critical to minimize interruptions to campus operations. The design of the routing was extremely complex and required careful logistics planning throughout the entire main campus. Managing vehicular and pedestrian safety was paramount.

7. **Description of anticipated benefits:**

See #6 above.

8. **Date of Advertisement:**

Posting Date: 3/1/2020

Closing Date: 3/27/2020

9. **List of all firms responding:**

Balfour Beatty, DPR, JE Dunn, Whiting-Turner/Holt Brothers

10. **Firm selected:** Balfour Beatty

11. Reasons why the firm was selected:

All procedures set forth by the State Building Commission for selection of a construction manager at risk were followed in making this selection. Specific reasons for the selection made are as follows (check all that apply):

- Workload that was fully able to accommodate the addition of this project.
- Record of successfully completed projects of similar scope without major legal or technical problems.
- Previous experience with the owner, a good working relationship with owner representatives, completion of projects in a timely manner and performance of an acceptable quality of work.
- Key personnel that have appropriate experience and qualifications.
- Relevant and easily understood graphic or tabular presentations
- Completion of CM at Risk projects in which there was little difference between the GMP and final cost.
- Projects that were completed on or ahead of schedule.
- Recent experience with project costs and schedules.
- Construction administration capabilities.
- Proximity to and familiarity with the area where the project is located.
- Quality of compliance plan for minority business participation as required by G.S. 143-128-2.
- Other factors that may be appropriate for the project (explain).
Pre-construction capabilities for highly technical and complex new construction projects that require pre-construction services provided by a Construction Manager during the design phase.

12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Competitively bid per G.S. 143-128.1©

13. Terms of the contract:

Date of the agreement: 7/22/2021

a. For Construction Manager at Risk Contracts:

Preconstruction Services Cost: \$366,036

Complete information below when the GMP contract is awarded.

GMP Cost of the Work: 28,683,894

General Conditions and Fees: 3,831,726

Bonds and Insurance: 740,916

Total GMP: 33,256,536

Additional Details:

This project is being designed and awarded in five phases with subsequent GMP's being negotiated as the project design progresses. For example, the GMP above includes the early SCADA package and Distribution Phases 1-3. Distribution Phase 4 bids in September 2023. The total GMP above does not include CM Contingency (\$717,087) because there is not a line item for it.

b. For Design-Build Contracts:

Design Phase Costs: _____

Construction Phase Costs: _____

Additional Details:

c. For Public-Private Partnerships (P3):

Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** NC State University

2. **Project Title:** STEM Building (Integrative Sciences Building)

3. **Total Project Budget:** \$180,000,000

4. **Describe the proposed scope of work:**

The Integrative Sciences Building will further NC State's mission by providing much-needed STEM teaching and research spaces. The building will provide hands-on, interdisciplinary, and interactive teaching and research experiences to improve understanding of STEM sciences (including chemistry, biochemistry, biological sciences, biotechnology, and physics). Critical core STEM research facilities will be located in the building. More than half of NC State students are enrolled in STEM majors (nearly 19,000 students as of FY 18-19). The building will be approximately 155,000 gross square feet (GSF) comprised of classrooms, teaching labs, research labs, research core facilities, collaboration/study space, and office space.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Because of the time and budget constraints for completion of the project this delivery method provides more certainty for project completion within time and on budget.

Pre-construction services of scheduling and cost estimating provide more certainty for a successfully placing the project under construction without delay.

Pre-construction services of constructability review and assistance with construction site planning ensures better materials management, vehicular and pedestrian traffic control, and construction site safety.

Construction Manager at Risk provides for prequalification of principal trade & specialty sub-contractors with input from the owner.

Past experience with Construction Manager at Risk projects indicates that significantly greater HUB participation is achieved with the Construction Manager at Risk project delivery method.

The Construction Manager at Risk delivery method allows the owner the opportunity to select a contractor through a qualification-based selection process considering both general and specific attributes of candidate firms as those attributes may apply to the project in question.

Other (explain).

NC State uses CMR delivery to build all its major projects (new buildings, renovations and/or infrastructure). This \$180M, 150,000-GSF building is a very complicated project, requiring extra care in the planning, design, and construction, specifically a detailed logistics plan and construction sequencing. Pre-construction services provided for all the necessary estimating, scheduling and constructability review required for such an enormous building. An early site, utility and foundation package was key to accelerating the schedule, specifically starting the project during a summer to perform the underground utility installation. Coordination of the complex mechanical, electrical, plumbing and life safety systems was critical. The building, located in the heart of North Campus, is on a very tight site and adjacent to multiple academic, research and dining operations as well as the Brickyard. All of which will remain fully occupiable during construction. Managing vehicular and pedestrian safety is paramount.

7. **Description of anticipated benefits:**

See #6 above.

8. **Date of Advertisement:**

Posting Date: 9/15/2020

Closing Date: 10/30/2020

9. List of all firms responding:

Barnhill/Balfour Beatty/Holt Brothers, DPR/IDIAS, Choate, Gilbane/Daniele, JE Dunn/McFarland, LeChase, McDonald York/Frank L. Blum/Sterling, Holder/Leeper, Ajax, Skanska, Whiting-Turner

10. Firm selected:

Skanska

11. Reasons why the firm was selected:

All procedures set forth by the State Building Commission for selection of a construction manager at risk were followed in making this selection. Specific reasons for the selection made are as follows (check all that apply):

- Workload that was fully able to accommodate the addition of this project.
- Record of successfully completed projects of similar scope without major legal or technical problems.
- Previous experience with the owner, a good working relationship with owner representatives, completion of projects in a timely manner and performance of an acceptable quality of work.
- Key personnel that have appropriate experience and qualifications.
- Relevant and easily understood graphic or tabular presentations
- Completion of CM at Risk projects in which there was little difference between the GMP and final cost.
- Projects that were completed on or ahead of schedule.
- Recent experience with project costs and schedules.
- Construction administration capabilities.
- Proximity to and familiarity with the area where the project is located.
- Quality of compliance plan for minority business participation as required by G.S. 143-128-2.
- Other factors that may be appropriate for the project (explain).

Pre-construction capabilities for highly technical and complex new construction projects that require pre-construction services provided by a Construction Manager during the design phase

12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Competitively bid per G.S. 143-128.1©

13. Terms of the contract:

Date of the agreement: 11/30/2022

a. For Construction Manager at Risk Contracts:

Preconstruction Services Cost: \$985,692

Complete information below when the GMP contract is awarded.

GMP Cost of the Work: 25,470,446

General Conditions and Fees: 4,034,462

Bonds and Insurance: 172,005

Total GMP: 29,676,913

Additional Details:

This project is being designed and awarded in four phases with subsequent GMP's being negotiated as the project design progresses. For example, the GMP above includes the early Chilled Water, Site Work/Utilities and Concrete/Steel/Waterproofing/Elevator packages. The balance of the building bids in November 2023. The total GMP above does not include CM Contingency (\$509,409) because there is not a line item for it.

b. For Design-Build Contracts:

Design Phase Costs:

Construction Phase Costs:

Additional Details:

c. For Public-Private Partnerships (P3):

Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** UNC Chapel Hill

2. **Project Title:** McColl Building Addition and Renovation

3. **Total Project Budget:** \$181,000,000

4. **Describe the proposed scope of work:**

The project will build an addition to the McColl Building at the Kenan Flagler Business School to accommodate enrollment growth, and renovate portions of the existing building.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Due to the size and complexity of the scope, engaging a Construction Manager for robust pre-construction services and could bring that knowledge base into the construction phase was deemed to add significant value to the project.

7. **Description of anticipated benefits:**

Constructability review during design.
 Cost estimating during design phase by entity that would construct the project.
 Ability to negotiate a GMP prior to completion of design documents.

8. **Date of Advertisement:**

Posting Date: 8/7/2020

Closing Date: 8/28/2020

9. **List of all firms responding:**

Barhill | Holt Brothers Joint Venture
 Balfour Beatty
 Frank L Blum
 Chote | Muter Joint Venture
 Clancy Theys | The Danielle Company Joint Venture
 Holder | Leeper Joint Venture
 LeChase
 Samet
 Shelco
 TA Loving

10. **Firm selected:** Barhill | Holt Brothers Joint Venture

11. **Reasons why the firm was selected:**

Experience and past performance

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Public bid to first tier subcontractors

13. Terms of the contract:

Date of the agreement: 2/19/2021

a. For Construction Manager at Risk Contracts:

Preconstruction Services Cost: \$566,867

Complete information below when the GMP contract is awarded.

GMP Cost of the Work: 90,721,051

General Conditions and Fees: 8,070,146

Bonds and Insurance: 2,607,412

Total GMP: 115,885,000

Additional Details:

The total above includes Owner's Market Contingency (\$12,127,643) and CM Construction Contingency (@2,358,742). The total GMP has since been increased by Change Order due to extraordinary high bids.

b. For Design-Build Contracts:

Design Phase Costs:

Construction Phase Costs:


Additional Details:


c. For Public-Private Partnerships (P3):

Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

Instructions for Reporting Form

 Complete all shaded fields on form below.

 Yellow shaded fields include drop-down options.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** UNC Charlotte
2. **Project Title:** Atkins Library Tower ADA and Fire/Smoke System Upgrades
3. **Total Project Budget:** \$13,849,000
4. **Describe the proposed scope of work:**

The project includes enlarging the two existing elevator shafts and replacing the elevators to meet ADA requirements, renovating the existing tower restrooms to meet building code and ADA requirements (including increasing the number of plumbing fixtures), replacing finishes to include paint and carpet for areas disturbed by the project improvements, and upgrading telecommunications/electrical/HVAC equipment as required for the ADA improvements. The fire/smoke system upgrades project will include: repairs and replacement of components associated with the buildings atrium and high-rise smoke control system, establishing a sequence of operations for the full building smoke control system, ensuring the complete building smoke control system operates as a single system, replacing or removing any failed or extraneous equipment, upgrading the dry valve in G76 which serves the dry sprinkler system at the loading dock, and replacing the fire pump controller.
5. **Type of Alternative Delivery Method** Construction Manager at Risk
6. **Explanation for choosing this alternative project delivery method for this project:**

This is a complex project in an occupied building in the core of campus with limited access to construction laydown areas. Close coordination is needed to ensure safety of building occupants.
7. **Description of anticipated benefits:**

The CMR can manage the subcontractors and schedules. There is increased opportunity for HUB participation because the CMR can structure bid packages to encourage smaller subcontractor firms to bid.
8. **Date of Advertisement:**

Posting Date: 10/3/2022
Closing Date: 11/8/2022
9. **List of all firms responding:**

Barton Malow Builders, Clancy & Theys, I.L. Long Construction Company, Elford, Metcon, Turner Construction Company
10. **Firm selected:** Barton Malow Builders

11. Reasons why the firm was selected:


Barton Malow demonstrated in the interview that they have the experience with projects of this type.


12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMAA first-tier subcontracts to be competitively bid.

Prequalify subcontractors and solicit competitive bids through public advertisement

Instructions for Reporting Form

 Complete all shaded fields on form below.

 Yellow shaded fields include drop-down options.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:**

2. **Project Title:**

3. **Total Project Budget:**

4. **Describe the proposed scope of work:**

The second floor of Cameron will be renovated to provide space for chemistry research labs currently located in Burson. The project will include upgrading the existing infrastructure on Cameron second floor to support wet-bench research labs as well as chemistry departmental and faculty offices. The renovation will also bring the building in compliance with current building code to include life-safety, ADA and other code deficiencies. The Designer shall provide Advance Planning documents and if selected to continue, will also provide SD, DD & CD documents and construction administration for Cameron second floor renovations.

5. **Type of Alternative Delivery Method**

6. **Explanation for choosing this alternative project delivery method for this project:**

This is a complex project with full demolition on the second floor in an occupied building. The building is in the core of campus with very limited laydown area. There is limited access to the building for ADA.

7. **Description of anticipated benefits:**

The CMR can manage the subcontractors and schedules. There is increased opportunity for HUB participation because the CMR can structure bid packages to encourage smaller subcontractor firms to bid.

8. **Date of Advertisement:**

Posting Date:

Closing Date:

9. **List of all firms responding:**

Barton Malow, Balfour Beatty, BEK Building Group, Cleveland Construction, New Atlantic Contracting, Inc. Shiel Sexton, Turner Construction Company

10. **Firm selected:**

11. **Reasons why the firm was selected:**

Firm was selected because of previous success with lab renovation work in an occupied building.

[Redacted]

12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

New Atlantic prepared bid packages, prequalified subcontractors and solicited competitive bids through public advertisement on the UNC Charlotte and UNC System websites.

13. Terms of the contract:	
Date of the agreement:	7/7/2023
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$207,921
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	14,297,004
General Conditions and Fees:	1,661,247
Bonds and Insurance:	255,128
Total GMP:	16,495,093
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

Universities and Affiliates

Appalachian State University

East Carolina University

Elizabeth City State University

Fayetteville State University


NC A&T University


NC Central University

NC State University

NC School of Science and Mathematics

Instructions for Reporting Form

 Complete all shaded fields on form below.

 Yellow shaded fields include drop-down options.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** UNC Charlotte
2. **Project Title:** UNC Charlotte Popp Martin Dining Renovations
3. **Total Project Budget:** \$11,498,450
4. **Describe the proposed scope of work:**

The project will replace food service equipment, finishes and furniture in the Crown Commons, an all-you-care-to-eat dining venue on the second floor in the Popp Martin Student Union. This is a complete renovation to the space with utilities relocated to accommodate the new layout.
Phase 1 construction over 6 weeks between December 2022/January 2023.
Phase 2 construction over summer 2023 (May, June, July)
5. **Type of Alternative Delivery Method** Construction Manager at Risk
6. **Explanation for choosing this alternative project delivery method for this project:**

Renovation project was completed in a space in an occupied building with very limited lay down area. Needed CM@R to be able to oversee accommodating the needs of the building occupants during construction activities.
7. **Description of anticipated benefits:**

Good project planning efforts for other food venues remaking open and providing safe work environment in the facility during construction.
8. **Date of Advertisement:**

Posting Date: 10/1/2021
Closing Date: 11/4/2021
9. **List of all firms responding:**

Barton Malow Builders, Elford, Frank L. Blum Construction Company, I.L. Long Construction Company, Whiting-Turner Contracting Company
10. **Firm selected:** Whiting Turner Contracting Company
11. **Reasons why the firm was selected:**

WT demonstrated experience with renovations of food service operations in existing, occupied facilities. They also had experience with delivering projects with very tight schedules.

[Redacted]

12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Prepare bid packages, prequalify subcontractors and solicit competitive bids through public advertisement posted on UNC Charlotte website and UNC System website

[Redacted]

13. Terms of the contract:	
Date of the agreement:	7/8/2022
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$73,750
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	7,472,790
General Conditions and Fees:	1,186,262
Bonds and Insurance:	145,719
Total GMP:	9,477,322
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

Universities and Affiliates

Appalachian State University

East Carolina University

Elizabeth City State University

Fayetteville State University

NC A&T University

NC Central University

NC State University

NC School of Science and Mathematics

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** UNC Greensboro
2. **Project Title:** Campus Chilled Water Infrastructure & Equipment Improvements
3. **Total Project Budget:** \$10,413,158
4. **Describe the proposed scope of work:**
- This project will address chilled water infrastructure needs identified in the 2020-21 campus masterplan. This project is envisioned to be a phased project in order to limit overall disruptions to the campus.
- This project will complete the main campus chilled water loop, allowing for better hydraulics and redundant pathways for delivering chilled water to campus as well as lowering operating and energy cost. Construction is envisioned to be sequenced to limit overall disruption to the highly visible and occupied portion of central campus.
- The University currently has buildings that are not tied to the campus chilled water loop. These buildings utilize remote chilled water systems, many of which are at or beyond their useful life. The project intends to connect four (4) of these campus buildings to the chilled water loop to provide redundancy and an overall energy savings. This project will also examine the feasibility to replace an aging chiller at the Mclver Deck and potentially add capacity to the plant. All work will be fully integrated with the campus Building Automation Systems (BAS)
5. **Type of Alternative Delivery Method:** Construction Manager at Risk
6. **Explanation for choosing this alternative project delivery method for this project:**
- The project involves complex, phased construction of campus infrastructure located in the heart of the busiest area of campus with potentially (4) building tie-ins. Implementation will require meticulous and proactive planning and cost management that will benefit from the experience and perspective of a Construction Manager at Risk.
7. **Description of anticipated benefits:**
- The Construction Manager at Risk (CMR) firm will closely work with the Architects and Engineers to provide a construction perspective and expertise to the design process that will support the necessary planning efforts. The CMR will be responsible for providing constructability reviews, market-based cost estimates, and realistic schedule development. Proactive phasing with the University ahead of construction, along with real-time procurement planning, labor coordination, and escalation control are all anticipated benefits.
8. **Date of Advertisement:**
- Posting Date: 4/11/2022
- Closing Date: 5/19/2022
9. **List of all firms responding:**
- Balfour Beatty Construction, LLC
 GBA Builders, LLC
 Greenland Enterprises, Inc.
 LeChase Construction Services, LLC
 Barton Malow Builders, LLC
10. **Firm selected:** Balfour Beatty Construction, LLC
11. **Reasons why the firm was selected:**
1. Balfour Beatty exhibited the strongest commitment to the University to deliver a good project and act as our fiduciary for the project as required by the State Construction Office.
 2. A greater depth of experience and greater local presence was demonstrated.

3. Balfour Beatty's process of pre-planning the project will create the greatest chance of construction success with the least disruption to campus.

12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Through Construction Management at Risk contract in compliance with GS 143-128.1 to support competitive bidding and achieve HUB participation goals

13. Terms of the contract:	
Date of the agreement:	9/12/2022
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$76,075
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	
General Conditions and Fees:	
Bonds and Insurance:	
Total GMP:	
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. Institution:	UNC Greensboro
2. Project Title:	Fuel Island Replacement
3. Total Project Budget:	\$500,000
4. Describe the proposed scope of work:	Turnkey fleet fueling facility replacement.
5. Type of Alternative Delivery Method:	Design-Build
6. Explanation for choosing this alternative project delivery method for this project:	Use of prevetted vendors through Sourcewell Co-op due to the specialized nature of the work and few in-state contractors/vendors.
7. Description of anticipated benefits:	Turnkey replacement using the vendor's expertise, familiarity with code and requirements for specialized work, and efficiency in schedule, pricing, and lead times for procurement.
8. Date of Advertisement:	
Posting Date:	n/a
Closing Date:	n/a
9. List of all firms responding:	Selected through Sourcewell Co-op that holds a variety of competitively-solicited cooperative contracts ready for use.
10. Firm selected:	JF Acquisition, LLC
11. Reasons why the firm was selected:	Turnkey fueling equipment solutions provider based in North Carolina through Sourcewell Co-op.
12. Anticipated form of bidding the work:	
	<i>G.S. 143-128.1(c) requires CMAA first-tier subcontracts to be competitively bid.</i>
	Selected through Sourcewell Co-op.

13. Terms of the contract:	
Date of the agreement:	11/18/2022
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	
General Conditions and Fees:	
Bonds and Insurance:	
Total GMP:	
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	\$10,415
Construction Phase Costs:	\$470,295
Additional Details:	Equipment: \$183,720 Freight: \$1,111 Installation: \$288,683 Service: \$7,195
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** UNC Greensboro

2. **Project Title:** Jackson Library - Addition & Renovation

3. **Total Project Budget:** \$81,000,000

4. **Describe the proposed scope of work:**

The Jackson Library project will consist of a comprehensive, transformative renovation to the existing building. The renovation will update the mechanical, electrical, plumbing, life safety and audiovisual system, and addressing ADA issues within the existing building. The Jackson Library has not seen a significant renovation in over 35 years. Growth in enrollment, academic programs, institutional mission, and library support activities make it critical that the existing spaces be renovated creating more efficient and flexible space to meet these increasing demands.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

The project involves complex, phased construction of an occupied building, that will include strategically coordinated moves. Implementation will require meticulous and proactive planning and cost management that will benefit from the experience and perspective of a Construction Manager at Risk.

7. **Description of anticipated benefits:**

The Construction Manager at Risk (CMR) firm will closely work with the Architects and Engineers to provide a construction perspective and expertise to the design process that will support the necessary planning efforts. The CMR will be responsible for providing constructability reviews, market-based cost estimates, and realistic schedule development. Proactive phasing with the University ahead of construction, along with real-time procurement planning, labor coordination, and escalation control are all anticipated benefits.

8. **Date of Advertisement:**

Posting Date: 4/1/2022

Closing Date: 4/29/2022

9. **List of all firms responding:**

Barton Malow Builders/RJ Leeper, a Joint Venture
 Frank L. Blum Construction and W.C. Construction, a Joint Venture
 LeChase Construction Services, LLC
 New Atlantic Contracting, Inc.
 Samet Corporation and M. Edwards Group, a Joint Venture
 Skanska USA Building, Inc.

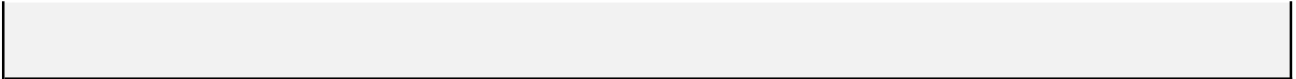
10. **Firm selected:** Skanska USA Building, Inc.

11. **Reasons why the firm was selected:**

1. Skanska presented the most detailed plan for managing the project's construction phase to cause the least disruption to the building occupants. They best addressed the critical need to closely coordinate with the building occupants, the Design Team, and State Construction, with their approach to phasing strategy during the various stages of construction.

2. They demonstrated a clear understanding and presented the most thorough approach to mitigate risk in the multiple challenges that will need to be considered during the Design and Construction Phases of this project, including material procurement, cost escalation, Sub Contractor Bidding, and HUB participation.

3. The Skanska team best illustrated the depth of experience and breadth of resources that will be required to handle a project of this scale and complexity. The key members of the Skanska Team also live locally in the Greensboro area.



12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Through Construction Management at Risk contract in compliance with GS 143-128.1 to support competitive bidding and achieve HUB participation goals

13. Terms of the contract:**Date of the agreement:**

9/9/2022

a. For Construction Manager at Risk Contracts:

Preconstruction Services Cost:

\$570,000

Complete information below when the GMP contract is awarded.

GMP Cost of the Work:

General Conditions and Fees:

Bonds and Insurance:

Total GMP:

Additional Details:

b. For Design-Build Contracts:

Design Phase Costs:

Construction Phase Costs:

Additional Details:

c. For Public-Private Partnerships (P3):

Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** UNC School of the Arts

2. **Project Title:** Stevens Center Renovation - Phase 1

3. **Total Project Budget:** \$29,800,000

4. **Describe the proposed scope of work:**

CM Pre-construction services

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Delivery method is better suited for project budget (>\$8M).

7. **Description of anticipated benefits:**

Budget control and expediting schedule.

8. **Date of Advertisement:**

Posting Date: 2/24/2022

Closing Date: 3/23/2022

9. **List of all firms responding:**

Barnhill Contracting Co.; Barr & Barr; Bordeaux Construction co.; Christman Co.; Frank L. Blum & W.C. Construction; I.L. Long Construction; New Atlantic Contracting; Rodgers Builders; Vanoy Construction

10. **Firm selected:** Frank L. Blum and W.C. Construction Co.

11. **Reasons why the firm was selected:**

Successful experience with similar renovation projects. Local to Project (Winston-Salem). Best interview.

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMAr first-tier subcontracts to be competitively bid.

Various sub-contractor bid packages.

13. Terms of the contract:	
Date of the agreement:	07.09.2022
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$233,450
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	
General Conditions and Fees:	
Bonds and Insurance:	
Total GMP:	
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** UNC Wilmington
2. **Project Title:** Alderman Hall and King Hall Renovations
3. **Total Project Budget:** \$11,455,934

4. **Describe the proposed scope of work:**

Renovations to Alderman Hall (26,108 GSF, built in 1961) include envelope repairs (brick, roof, windows, doors); code deficiency corrections including handrails & hardware upgrades, ADA, egress, and restroom improvements; mechanical/electrical replacements/improvements as well as new finishes in individual office suites and corridors. Renovations of King Hall (22,298 GSF, built in 1970) include code deficiency improvements to address ADA, egress, and restrooms; new sprinkler & fire alarm and suppression systems; mechanical/electrical replacements/improvements; envelope repairs (brick, roof, windows, doors); programmatic renovations of the second floor to accommodate the Honors College, as well as new finishes to the public spaces on the first level.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

This will be an occupied renovation and expansion. CM@R was chosen to provide constructability reviews, estimating, appropriate cost control measures, and schedule coordination.

7. **Description of anticipated benefits:**

Schedule coordination for a semi-occupied renovation. Accurate costing and constructability will be critical to a satisfactory completion.

8. **Date of Advertisement:**

Posting Date: 10/21/2021
Closing Date: 12/6/2021

9. **List of all firms responding:**

Balfour Beatty Construction
Muter Construction
Bordeaux Construction
IL Long Construction
Monteith Construction

10. **Firm selected:** Muter Construction

11. **Reasons why the firm was selected:**

Significant SCO experience, project size and complexity is appropriate for this firm, experience with occupied renovations.

12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMAr first-tier subcontracts to be competitively bid.

Competitive bidding for 1st Tier sub contractors

13. Terms of the contract:

Date of the agreement:

7/7/2022

a. For Construction Manager at Risk Contracts:

Preconstruction Services Cost:

\$71,562

Complete information below when the GMP contract is awarded.

GMP Cost of the Work:

8,030,371

General Conditions and Fees:

321,215

Bonds and Insurance:

961,299

Total GMP:

9,510,289

Additional Details:

b. For Design-Build Contracts:

Design Phase Costs:

Construction Phase Costs:

Additional Details:

c. For Public-Private Partnerships (P3):

Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** UNC Wilmington

2. **Project Title:** Coastal Marine Studies - Plumbing, Mechanical & Electrical

3. **Total Project Budget:** \$9,926,000

4. **Describe the proposed scope of work:**

CMS (Center for Marine Science) was constructed via multi-prime in 1999. The facility is A nominal 66,000gsf research and teaching facility located immediately adjacent to the intracoastal waterway. The condition of the plumbing, mechanical, and HVAC systems are reaching the end of their useful and effective life. The deterioration of the systems is exacerbated by their proximity to salt-air and the associated corrosion. In order to maintain the integrity of the CMS operation, a "refresh" of these systems is needed at this time. The improvements include replacement of the cooling, heating and laboratory exhaust systems, and fire alarm and fire suppression systems, while also correcting egress and ADA compliance.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

This will be an occupied renovation and expansion. CM@R was chosen to provide constructability reviews, estimating, appropriate cost control measures, and schedule coordination.

7. **Description of anticipated benefits:**

Schedule coordination for an occupied renovation of wet laboratories, and research space. Accurate costing and constructability will be critical to a satisfactory completion.

8. **Date of Advertisement:**

Posting Date: 8/22/2022

Closing Date: 9/13/2022

9. **List of all firms responding:**

Balfour Beatty Construction
SAMET Construction
Bordeaux Construction
Monteith Construction

10. **Firm selected:** SAMET Construction

11. **Reasons why the firm was selected:**

Significant SCO experience, project size and complexity is appropriate for this firm, experience with occupied renovations.

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Competitive bidding for 1st Tier sub contractors

13. Terms of the contract:

Date of the agreement: 10/4/2022

a. For Construction Manager at Risk Contracts:

Preconstruction Services Cost: \$119,414

Complete information below when the GMP contract is awarded.

GMP Cost of the Work: N/A

General Conditions and Fees: N/A

Bonds and Insurance: N/A

Total GMP: N/A

Additional Details:

b. For Design-Build Contracts:

Design Phase Costs:

Construction Phase Costs:

Additional Details:

c. For Public-Private Partnerships (P3):

Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** UNC Wilmington

2. **Project Title:** Isaac Bear Early College High School

3. **Total Project Budget:** \$994,000

4. **Describe the proposed scope of work:**

The Isaac Bear Early College High School facility will be a collaborative effort between the North Carolina Department of Public Instruction, New Hanover County Schools, and UNCW's College of Education. The design effort will include:

1. Advanced Planning
2. Site Analysis
3. Program analysis based on existing conditions and future space needs projections

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Collaborative effort between the North Carolina Department of Public Instruction, New Hanover County Schools, and UNCW's College of Education. UNCW is responsible for the Design effort. New Hanover County is responsible for the facility construction effort.

7. **Description of anticipated benefits:**

Allows for phasing of the project to match funding and approval steps required by several involved entities.

8. **Date of Advertisement:**

Posting Date: 8/22/2022

Closing Date: 9/13/2022

9. **List of all firms responding:**

Balfour Beatty-RJ Leeper Construction
Barnhill Construction
Barr Barr Construction
Monteith Construction
SAMET Construction
WM Jordan Construction

10. **Firm selected:** Barnhill Construction

11. **Reasons why the firm was selected:**

This project is a collaborative project between UNCW and NHCS (New Hanover County Schools). NHCS will be providing the construction funding for this effort via CM@R. For consistency, we agreed to utilize a CM@R firm that is familiar with NHCS and SCO requirements. Significant SCO and NHCS experience, project size and complexity is

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Competitive bidding for 1st Tier sub contractors

13. Terms of the contract:	
Date of the agreement:	5/23/2023
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$15,202
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	N/A
General Conditions and Fees:	
Bonds and Insurance:	
Total GMP:	N/A
Additional Details:	
This is a design effort only. The construction phase will be funded and executed by NHCS (New Hanover County Schools).	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. Institution: UNC Wilmington

2. Project Title: Randall Library Renovation and Expansion

3. Total Project Budget: \$64,449,049

4. Describe the proposed scope of work:

The scope of work includes renovations to the existing building including mechanical and electrical improvements, exterior window replacement and minor reconfiguration of interior walls, and a nominal 85,000 SF expansion. This addition and renovation is in agreement with UNCW's 2017 Master Plan as approved by the University's Board of Trustees. This project is phased construction on an occupied facility.

5. Type of Alternative Delivery Method: Construction Manager at Risk

6. Explanation for choosing this alternative project delivery method for this project:

Occupied renovation and expansion, CMaR to provide appropriate cost controls and schedule coordination.

7. Description of anticipated benefits:

Accurate Costing and Constructability are critical to a satisfactory completion.

8. Date of Advertisement:

Posting Date: 12/31/2021

Closing Date: 1/4/2022

9. List of all firms responding:

Balfour Beatty / RJ Leeper Construction
JM Thompson Construction
Monteith Construction
SAMET Construction

10. Firm selected: Balfour Beatty / RJ Leeper Construction

11. Reasons why the firm was selected:

Significant SCO experience, project size and complexity is appropriate for this firm, experience with occupied renovations.

12. Anticipated form of bidding the work:

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Competitive bidding for 1st Tier sub contractors

13. Terms of the contract:	
Date of the agreement:	5/19/2019
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$441,054
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	39,188,548
General Conditions and Fees:	5,788,885
Bonds and Insurance:	1,021,169
Total GMP:	45,998,602
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	N/A
Construction Phase Costs:	N/A
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** UNC Wilmington
2. **Project Title:** Walton Drive Student Village Recreation Fields and Facilities
3. **Total Project Budget:** \$9,750,000

4. **Describe the proposed scope of work:**

The project scope includes a multi-purpose natural-turf field, a smaller flex field, basketball, sand volleyball, tennis courts, an outdoor gym/yoga area, and a building for SRC staff and equipment storage. The project will also include a portion of Hawk Walk through the site, an important pedestrian connection allowing students to traverse from the Student Village to the academic corridor, Chancellor's Walk. These amenities previously existed prior to the redevelopment of this area but were well beyond their lifecycle and in need of replacement. This area was master planned in 2009/2010 and is included in the University's 2017 Campus Master Plan.

5. **Type of Alternative Delivery Method:** Design-Build

6. **Explanation for choosing this alternative project delivery method for this project:**

Recreation fields and courts project. Specialized design packages better coordinated by Design-Build. Project is not overly complicated but has several sub-phases with varying design efforts that are easier to manage and coordinate with a design-build firm.

7. **Description of anticipated benefits:**

Accurate Costing and Constructability will be critical to a satisfactory completion.

8. **Date of Advertisement:**

Posting Date: 8/18/2021
 Closing Date: 9/15/2021

9. **List of all firms responding:**

Balfour Beatty Construction / Moseley
 Monteith Construction / LS3P
 Bordeaux Construction / CRS Associates
 Muter Construction / Bowman Murray Hemmingway
 RomeoGUEST Construction / Integrated Design
 SAMET Construction / C-Design
 JM Thompson / HH Architects

10. **Firm selected:** Monteith Construction / LS3P

11. **Reasons why the firm was selected:**

Local firms with previous UNCW and SCO experience, D-B team, familiarity with project requirements and the size and scope of the project were relevant to their abilities..

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Competitive bidding for 1st Tier sub contractors

13. Terms of the contract:

Date of the agreement: 2/22/2022

a. For Construction Manager at Risk Contracts:

Preconstruction Services Cost: \$107,084

Complete information below when the GMP contract is awarded.

GMP Cost of the Work: \$8,134,021

General Conditions and Fees: \$190,114

Bonds and Insurance: \$185,564

Total GMP: \$8,509,699

Additional Details:

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b. For Design-Build Contracts:

Design Phase Costs: \$768,461

Construction Phase Costs: \$8,509,699

Additional Details:

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c. For Public-Private Partnerships (P3):

Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

The University of North Carolina System
Reporting Form for Use of Alternative Project Delivery Methods

1. **Institution:** Western Carolina University

2. **Project Title:** Moore Building Renovation

3. **Total Project Budget:** \$35,500,000

4. **Describe the proposed scope of work:**

Comprehensive renovation of the Moore Building for general classroom and faculty/staff offices. Renovation also includes necessary infrastructure upgrades and site work for accessibility.

5. **Type of Alternative Delivery Method:** Construction Manager at Risk

6. **Explanation for choosing this alternative project delivery method for this project:**

Construction Manager at Risk was selected as the project delivery method due to anticipated multiple construction packages requiring construction related input for design, scheduling, and phasing as well as the overall complexity of the project.

7. **Description of anticipated benefits:**

Anticipated benefits of using the Construction Manager at Risk project delivery method is additional estimating to assist with design process cost control, constructability input to design team, and schedule coordination with other surrounding projects for necessary construction labor force.

8. **Date of Advertisement:**

Posting Date: 6/15/2022

Closing Date: 7/19/2022

9. **List of all firms responding:**

The Christman Company - Greensboro, NC
 Frank L. Blum Construction Company - Asheville, NC
 The Harper Corporation-General Contractors - Asheville, NC
 James R. Vannoy & Sons Construction Company, Inc. - Asheville, NC
 EMJ Construction - Chattanooga, TN
 H&M Constructors - Asheville, NC

10. **Firm selected:** James R. Vannoy & Sons Construction Company, Inc. - Asheville, NC

11. **Reasons why the firm was selected:**

Vannoy was the selected firm due to their ranking in relation to other interviewed potential CMaR firms regarding available workload, experience constructing similar work in the region, clear relationships with multiple potential subcontractors, and previous performance on projects at Western Carolina University.

12. **Anticipated form of bidding the work:**

G.S. 143-128.1(c) requires CMaR first-tier subcontracts to be competitively bid.

Competitive bidding of subcontracts via CMaR bid process.

13. Terms of the contract:	
Date of the agreement:	1/24/2023
a. For Construction Manager at Risk Contracts:	
Preconstruction Services Cost:	\$247,790
<i>Complete information below when the GMP contract is awarded.</i>	
GMP Cost of the Work:	
General Conditions and Fees:	
Bonds and Insurance:	
Total GMP:	
Additional Details:	
b. For Design-Build Contracts:	
Design Phase Costs:	
Construction Phase Costs:	
Additional Details:	
c. For Public-Private Partnerships (P3):	
Attach summary term sheet including contracting parties and responsible parties (financing, design, construction O&M, etc.), financing terms, project scope, O&M responsibility, and other material contract terms.	

G.S. 143-133.1 and the UNC Policy Manual, Chapter 600.1.1. III require information on the use of alternative project delivery methods to be reported annually to the Board of Governors.

Summary UNC System HEERF Reporting - Through June 30, 2023

Direct Institutional															
	Total Awarded	Additional Emergency Fin. Aid Grants		Student Reimbursements		Campus Safety		Offsetting Lost Revenue		IT/Online Learning		Other		Total Spent through June 30, 2023	
	(\$)	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%
ASU	\$ 45,292,873	\$ 18,142	0%	\$ 7,963,966	18%	\$ -	0%	\$ 29,009,139	64%	\$ 1,079,510	2%	\$ 7,222,115	16%	\$ 45,292,872	100%
ECU	\$ 56,381,711	\$ -	0%	\$ 25,501,051	45%	\$ -	0%	\$ 18,952,026	34%	\$ 1,992,437	4%	\$ 9,936,198	18%	\$ 56,381,712	100%
ECSU	\$ 6,804,750	\$ 3,844,195	56%	\$ 1,349,242	20%	\$ 4,573	0%	\$ 671,134	10%	\$ 151,546	2%	\$ 761,896	11%	\$ 6,782,586	100%
FSU	\$ 16,700,931	\$ 374,149	2%	\$ 4,938,205	30%	\$ 164,827	1%	\$ 1,171,764	7%	\$ 356,557	2%	\$ 6,223,770	37%	\$ 13,229,271	79%
N.C. A&T	\$ 42,645,926	\$ -	0%	\$ 19,310,084	45%	\$ -	0%	\$ 7,898,578	19%	\$ 12,648,028	30%	\$ 1,662,775	4%	\$ 41,519,465	97%
NCCU	\$ 26,219,667	\$ 20,207,134	77%	\$ 4,466,116	17%	\$ -	0%	\$ -	0%	\$ 1,013,382	4%	\$ -	0%	\$ 25,686,633	98%
NC State	\$ 53,171,415	\$ 3,000,000	6%	\$ 8,008,920	15%	\$ 10,705,395	20%	\$ 26,616,260	50%	\$ -	0%	\$ 4,846,025	9%	\$ 53,176,600	100%
UNCA	\$ 10,200,954	\$ 1,368,008	13%	\$ 1,679,746	16%	\$ 174,172	2%	\$ 3,773,806	37%	\$ 260,719	3%	\$ 2,948,545	29%	\$ 10,204,996	100%
UNC-CH	\$ 48,224,128	\$ 2,267,820	5%	\$ 16,193,127	34%	\$ 16,969,911	35%	\$ 2,487,122	5%	\$ 3,988,575	8%	\$ 6,316,130	13%	\$ 48,222,685	100%
UNCC	\$ 74,135,582	\$ 1,397,500	2%	\$ 4,000,000	5%	\$ 9,234,101	12%	\$ 49,253,030	66%	\$ 3,664,232	5%	\$ 6,379,552	9%	\$ 73,928,416	100%
UNCG	\$ 55,656,493	\$ 16,628,751	30%	\$ 4,015,821	7%	\$ 2,431,061	4%	\$ 18,415,341	33%	\$ 7,778,871	14%	\$ 6,386,697	11%	\$ 55,656,543	100%
UNCP	\$ 20,066,081	\$ 6,534,998	33%	\$ 3,189,757	16%	\$ 549,104	3%	\$ 7,067,872	35%	\$ 1,789,360	9%	\$ 934,990	5%	\$ 20,066,081	100%
UNCW	\$ 31,489,133	\$ -	0%	\$ 5,283,026	17%	\$ -	0%	\$ 26,206,107	83%	\$ -	0%	\$ -	0%	\$ 31,489,133	100%
UNCSA	\$ 2,402,917	\$ -	0%	\$ 443,834	18%	\$ 438,144	18%	\$ -	0%	\$ 244	0%	\$ 627,109	26%	\$ 1,509,331	63%
WCU	\$ 27,136,479	\$ 2,780,260	10%	\$ 10,520,870	39%	\$ -	0%	\$ 10,131,790	37%	\$ -	0%	\$ 3,700,206	14%	\$ 27,133,127	100%
WSSU	\$ 19,230,987	\$ 8,305,996	43%	\$ 3,058,990	16%	\$ 3,260,676	17%	\$ 2,059,080	11%	\$ 2,454,358	13%	\$ 91,887	0%	\$ 19,230,987	100%
Total	\$ 535,760,027	\$ 66,726,954	12%	\$ 119,922,755	22%	\$ 43,931,964	8%	\$ 203,713,050	38%	\$ 37,177,819	7%	\$ 58,037,895	11%	\$ 529,510,438	99%

HBCU/MSI/SIP Funding															
	Total Awarded	Additional Emergency Fin. Aid Grants		Student Reimbursements		Campus Safety		Offsetting Lost Revenue		IT Equipment		Other		Total Spent through June 30, 2023	
	(\$)	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%
ECSU	\$ 17,676,716	\$ 5,147,788	29%	\$ -	0%	\$ 387,549	2%	\$ 4,547,137	26%	\$ 1,400,162	8%	\$ 1,819,404	10%	\$13,302,040	75%
FSU	\$ 48,165,747	\$ 660,250	1%	\$ (2,137,801)	-4%	\$ 836,889	2%	\$ 12,946,862	27%	\$ 7,226,790	15%	\$ 2,848,749	6%	\$22,381,739	46%
N.C. A&T	\$ 111,646,781	\$ 4,360,618	4%	\$ 35,054,783	31%	\$ 5,881,612	5%	\$ 24,458,628	22%	\$ 3,734,957	3%	\$ 22,214,892	20%	\$95,705,491	86%
NCCU	\$ 78,811,132	\$ 38,167,239	48%	\$ 10,781,826	14%	\$ 2,132,549	3%	\$ 3,704,517	5%	\$ 12,122,221	15%	\$ 11,861,820	15%	\$78,770,172	100%
UNCA	\$ 820,683	\$ -	0%	\$ -	0%	\$ -	0%	\$ 640,197	78%	\$ -	0%	\$ 180,486	22%	\$820,683	100%
UNCC	\$ 5,971,788	\$ -	0%	\$ -	0%	\$ 287,949	5%	\$ 4,768,112	80%	\$ 520,735	9%	\$ 395,045	7%	\$5,971,840	100%
UNCG	\$ 4,446,402	\$ 4,366,789	98%	\$ -	0%	\$ 68	0%	\$ -	0%	\$ -	0%	\$ 79,545	2%	\$4,446,402	100%
UNCP	\$ 3,618,529	\$ 495,378	14%	\$ -	0%	\$ -	0%	\$ 3,123,151	86%	\$ -	0%	\$ -	0%	\$3,618,529	100%
WCU	\$ 2,176,958	\$ 616,605	28%	\$ 1,058,347	49%	\$ -	0%	\$ 1	0%	\$ -	0%	\$ 502,005	23%	\$2,176,958	100%
WSSU	\$ 46,534,242	\$ 14,252,254	31%	\$ 4,439,846	10%	\$ 2,700,578	6%	\$ 7,474,303	16%	\$ 11,486,918	25%	\$ 4,722,159	10%	\$45,076,058	97%
Total	\$ 319,868,978	\$ 68,066,921	21%	\$ 49,197,002	15%	\$ 12,227,194	4%	\$ 61,662,908	19%	\$ 36,491,783	11%	\$ 44,624,105	14%	\$ 272,269,912	85%

Note: Expenditures may not match totals on US Department of Education website due to delays in reporting the drawdown of funds.

Summary UNC System Higher Education Emergency Relief Fund (HEERF) & Governor's Emergency Education Relief Fund (GEERF) Reporting - Through June 30, 2023

HEERF Student Aid							GEERF UNC Resilience Grants		
Campus	Total Amount Awarded to Institution	HEERF I	HEERF II	HEERF III	Total		GEERF Allocation	UNC Resilience Grants Amount Awarded	% Expended
		Amount Distributed to Students	Amount Distributed to Students	Amount Distributed to Students	Total Distributed	Funds Remaining			
ASU	\$ 37,321,590	\$ 7,963,966	\$ 7,963,966	\$ 21,393,658	\$ 37,321,590	\$ -	\$454,929	\$454,929	100%
ECU	\$ 46,680,160	\$ 9,679,379	\$ 9,679,379	\$ 27,321,402	\$ 46,680,160	\$ -	\$597,507	\$597,507	100%
ECSU	\$ 5,376,739	\$ 1,065,489	\$ 1,065,489	\$ 3,245,761	\$ 5,376,739	\$ -	\$168,958	\$168,958	100%
FSU	\$ 13,489,669	\$ 2,542,344	\$ 2,542,344	\$ 8,404,981	\$ 13,489,669	\$ -	\$289,580	\$289,580	100%
N.C. A&T	\$ 34,342,690	\$ 7,051,814	\$ 7,051,814	\$ 19,475,591	\$ 33,579,219	\$ 763,471	\$519,175	\$519,175	100%
NCCU	\$ 21,409,688	\$ 4,466,117	\$ 4,466,117	\$ 12,477,454	\$ 21,409,688	\$ -	\$362,258	\$362,258	100%
NC State	\$ 43,085,051	\$ 8,947,941	\$ 8,947,941	\$ 25,189,169	\$ 43,085,051	\$ -	\$483,875	\$483,875	100%
UNCA	\$ 8,154,150	\$ 1,679,747	\$ 1,679,747	\$ 4,794,656	\$ 8,154,150	\$ -	\$135,091	\$135,091	100%
UNC-CH	\$ 40,053,436	\$ 8,647,589	\$ 8,647,589	\$ 22,758,258	\$ 40,053,436	\$ -	\$361,550	\$361,550	100%
UNCC	\$ 59,203,273	\$ 12,155,279	\$ 12,155,279	\$ 34,892,715	\$ 59,203,273	\$ -	\$727,808	\$727,808	100%
UNCG	\$ 45,256,479	\$ 9,283,941	\$ 9,283,941	\$ 26,688,597	\$ 45,256,479	\$ -	\$689,184	\$689,184	100%
UNCP	\$ 16,061,342	\$ 3,137,355	\$ 3,137,355	\$ 9,786,632	\$ 16,061,342	\$ -	\$287,429	\$287,429	100%
UNCW	\$ 25,720,403	\$ 5,283,027	\$ 5,283,027	\$ 15,154,349	\$ 25,720,403	\$ -	\$313,516	\$313,516	100%
UNCSA	\$ 2,004,096	\$ 434,443	\$ 434,443	\$ 1,135,210	\$ 2,004,096	\$ -	\$51,301	\$51,301	100%
WCU	\$ 22,005,010	\$ 4,446,704	\$ 4,446,704	\$ 13,111,602	\$ 22,005,010	\$ -	\$226,141	\$226,141	100%
WSSU	\$ 15,433,654	\$ 3,058,990	\$ 3,058,992	\$ 9,315,672	\$ 15,433,654	\$ -	\$331,699	\$331,699	100%
Total	\$ 435,597,430	\$ 89,844,125	\$ 89,844,127	\$ 255,145,708	\$ 434,833,960	\$ 763,471	\$6,000,001	\$6,000,001	100%

The University of North Carolina
Capital Project Reporting in Compliance with G.S. 143C-8-14
[Report for October 1, 2023*]

I. Project Status

FY Auth	Institution	Project Title	Authorized Funding	Funding Sources			Current Construction Status	Estimated Completion Date	Project Expenditures	Estimated Operating Costs (Y1-Y5)
				Appropriated Funding	Non-Appropriated	Self-Liquidating Debt				
2021-2022	App State	Duncan Hall Renovation	\$20,000,000	\$20,000,000			Under Design	\$704,018		
2021-2023	App State	Peacock Hall Business	\$25,000,000	\$25,000,000			Under Design	\$391,600		
2021-2022	App State	Innovation Campus	\$61,581,386	\$54,000,000	\$7,581,386		Under Construction	8/1/2025	\$3,748,763	\$9,237,208
2021-2022	App State	Wey Hall Envelope & Roof Repair and Wey Hall Partial Renovation—Building Systems	\$17,000,000	\$15,000,000	\$2,000,000		Under Construction	7/25/2024	\$1,368,046	\$2,550,000
2021-2022	ECU	Brody School of Medicine	\$215,000,000	\$215,000,000			Under Design	\$3,712,574		
2021-2022	ECU	Howell Science Building South	\$30,000,000	\$30,000,000			Under Design	\$725,398		
2021-2022	ECU	Whichard Building Comprehensive Renovation	\$10,000,000	\$10,000,000			Under Design	\$306,349		
2021-2022	ECSU	Flight School	\$34,000,000	\$34,000,000			Not Started	\$0		
2021-2022	ECSU	Infrastructure Upgrades—Water & Electrical, Phase 1 and Phase 2	\$39,000,000	\$39,000,000			Under Design	\$285,761		
2021-2022	ECSU	New Dining Facility	\$15,000,000	\$15,000,000			Under Construction	\$767,094	NA	
2021-2022	ECSU	New Residence Hall	\$40,000,000	\$35,000,000		\$5,000,000	Under Design	\$1,892,211	NA	
2021-2022	FSU	A.B. Rosenthal Building - Targeted Renovations	\$10,000,000	\$10,000,000			Under Design	\$63,300		
2021-2022	FSU	H. T. Chick - Targeted Renovation	\$9,500,000	\$9,500,000			Under Design	\$63,800		
2021-2022	FSU	College of Education	\$63,000,000	\$63,000,000			Under Design	\$636,981		
2021-2022	FSU	Dormitories	\$40,000,000	\$40,000,000			Under Design	\$2,886,130	NA	
2021-2022	FSU	Parking Deck	\$10,000,000	\$10,000,000			Not Started	\$0	NA	
2021-2022	N.C. A&T	Carver Hall—Comprehensive Modernization, Phase 1 and Phase 2	\$20,100,000	\$20,100,000			Under Design	\$151,092		
2021-2022	N.C. A&T	Price Hall-Renovation, Phase 1 and Phase 2	\$16,500,000	\$16,500,000			Under Design	\$99,605		
2021-2022	NCCU	Taylor Education Building Renovation	\$13,750,000	\$13,750,000			Under Design	\$79,610		
2020-2021	NC State	STEM Building - Integrative Sciences Building	\$180,000,000	\$90,000,000		\$90,000,000	Under Construction	11/17/2026	\$10,718,458	\$27,000,000
2021-2022	NC State	111 Lampe Drive Renovation	\$42,000,000	\$42,000,000			Not Started	\$0		
2021-2022	NC State	Dabney Hall	\$60,000,000	\$60,000,000			Under Design	\$651,585		
2021-2022	NC State	E-Sports Facility	\$12,000,000	\$12,000,000			Under Design	\$0		
2021-2022	NC State	Kilgore Hall—HVAC Renovation	\$10,000,000	\$10,000,000			Not Started	\$0		
2021-2022	NC State	Mann Hall—HVAC & Plumbing Renovation	\$22,107,143	\$22,107,143			Under Design	\$344		
2021-2022	NC State	Polk Hall	\$10,000,000	\$10,000,000			Under Design	\$70,688		
2021-2022	UNCA	Lipinsky Renovation	\$10,000,000	\$10,000,000			Not Started	\$0		
2017-2018	UNC-CH	School of Business - McColl Building - Addition & Renovation	\$181,000,000	\$91,000,000	\$75,000,000	\$15,000,000	Under Construction	9/27/2025	\$18,736,793	\$27,150,000
2020-2021	UNC-CH	Nursing School Renovation (Carrington Hall Renewal)	\$75,200,000	\$65,200,000		\$10,000,000	Under Design	\$3,207,647		
2021-2022	UNC-CH	Wilson Library—1953 Central HVAC System AHU 1, 2, 3 and Means of Egress	\$20,300,000	\$20,300,000			Under Design	\$745,851		
2018-2019	UNCC	Cameron Hall - 2nd Floor Renovation	\$26,050,000	\$19,100,000	\$6,950,000		Under Construction	10/17/2026	\$495,793	\$3,907,500
2021-2022	UNCC	Atkins Library Tower—ADA & Elev. And Fire & Smoke Systems	\$13,840,000	\$13,840,000			Under Design	\$132,594		
2021-2022	UNCC	Burson—Renovation	\$32,590,000	\$32,590,000			Under Design	\$260,016		
2021-2022	UNCG	Campus Chiller Water Infrastructure & Equip. Improvements	\$10,400,000	\$10,400,000			Under Design	\$307,490		
2021-2022	UNCG	Jackson Library—Renovation/Addition	\$81,000,000	\$81,000,000			Under Design	\$753,511		
2021-2022	UNCP	Business Administration Renovation	\$12,500,000	\$12,500,000			Not Started	\$0		
2021-2022	UNCP	Health Sciences Center	\$91,000,000	\$91,000,000			Not Started	\$845,900		
2018-2019	UNCW	Randall Library - Renovation and Expansion	\$65,426,440	\$65,426,440			Under Construction	9/18/2024	\$19,559,001	\$9,813,966

*Information reported is for the quarter ending 6/30/2023.

The University of North Carolina
Capital Project Reporting in Compliance with G.S. 143C-8-14
[Report for October 1, 2023*]

I. Project Status

FY Auth	Institution	Project Title	Authorized Funding	Funding Sources			Current Construction Status	Estimated Completion Date	Project Expenditures	Estimated Operating Costs (Y1-Y5)
				Appropriated Funding	Non-Appropriated	Self-Liquidating Debt				
2021-2022	UNCSCA	Stevens Center Renovation, Phase 1 and Roof, Water Intrusion, Bldg. Envelope	\$29,800,000	\$29,800,000			Under Design	\$879,252		
2021-2022	WCU	Moore Building-Renovation, Abatement, Demo. & Struc. Improvements, Infrastructure & Accessibility, Moore Building/Upper Campus Infrastructure	\$35,500,000	\$35,500,000			Under Design	\$1,193,537		
2021-2022	WSSU	Hauser Hall Renovations—Restore the Core and Hauser Hall-Renovation, Phase 2	\$17,000,000	\$17,000,000			Under Design	\$143,494		
2021-2022	WSSU	K.R. Williams Auditorium	\$57,000,000	\$57,000,000			Under Design	\$410,689		
2019-2020	NCSSM	Academic Commons & Dining Hall Renovation	\$15,627,000	\$12,400,000	\$3,227,000		Under Construction	\$1,144,888		
TOTAL			\$1,799,771,969	\$1,585,013,583	\$94,758,386	\$120,000,000		\$78,139,865	\$79,658,674	

Definitions:

Authorized Funding Amount: Total amount of funds approved for the project by legislation or the UNC Board of Governors.

Appropriated Funds: Appropriated funds (including SCIF) and state debt.

Non-appropriated Funds: Non-appropriated funds including donations, gifts, and other sources.

Self-liquidating Debt: Debt issued by the university with legislative approval and repaid from non-appropriated sources.

Estimated Completion Date: The latest completion date of the awarded contracts, including projects with multiple contracts that have not yet been awarded, as reported in Interscope. The completion date is subject to change as additional construction contracts are awarded.

Estimated Operating Costs (Y1-Y5): An estimate of the cumulative operating costs for the project for the first five fiscal years of its operation.

The University of North Carolina
Capital Project Reporting in Compliance with G.S. 143C-8-14
[Report for October 1, 2023]

II. Adequacy of Project Funding

FY Auth	Institution	Project Title	Authorized Funding	Current Project Estimate	Additional Funding Required	Summary of Scope Reductions/VE Items	Current Project Status
2021-2022	App State	Duncan Hall Renovation	\$20,000,000	\$26,000,000	\$6,000,000	The original scope was for the comprehensive renovation of the three-story academic building. In order to stay within scope, the first floor will be shelled. Hazardous materials will be removed and mechanical, electrical, plumbing and HVAC will be installed on the first floor. The first floor will not be usable until completed in a later phase. Additional funds are requested in the 2023-25 UNC Capital Priorities.	CD Submitted to SCO
2021-2022	App State	Wey Hall Envelope & Roof Repair and Wey Hall Partial Renovation–Building Systems	\$17,000,000	\$20,986,084	\$4,000,000	The original scope was for the comprehensive renovation of the three-story academic building. In order to stay within scope, the first floor will be shelled. Hazardous materials will be abated and mechanical, electrical, plumbing and HVAC will be installed on the first floor. The first floor will be usable until completed in a later phase. The project is under contract. Additional funds are requested in the 2023-25 UNC Capital Priorities.	Under construction
2021-2022	ECSU	New Dining Facility	\$15,000,000	\$16,500,000	\$1,500,000	The original scope was for a new 22,000 SF dining hall to replace the current Bedell Dining Hall. The project scope has been reduced to 20,300 SF and three bid alternates have been identified. An early construction contract has been awarded for the pre-engineered building structure only. Additional funds will be requested from OSBM Flex Funds.	Under construction
2021-2022	UNCA	Lipinsky Renovation	\$10,000,000	\$36,150,000	\$26,150,000	The scope has been modified to include a comprehensive renovation. Additional funds are requested in the 2023-25 UNC Capital Priorities.	On hold pending additional funding
2020-2021	UNC-CH	Nursing School Renovation (Carrington Hall Renewal)	\$75,200,000	\$94,200,000	\$19,000,000	The original scope was for the comprehensive renovation of the existing building. During advanced planning, it was determined that replacement was more feasible than renovation. In addition, UNC-Chapel Hill was asked to increase enrollment by 50% which could not be accommodated in the existing structure. Additional funds are requested in the 2023-25 Capital Priorities.	Under design
2021-2022	UNCG	Campus Chiller Water Infrastructure & Equip. Improvements	\$10,400,000	\$13,803,000	\$3,403,000	The original scope included replacement of the campus chilled water infrastructure and equipment. During design, proposed scope reductions included not extending the chilled water infrastructure to connect to Tower Village and installing the pump for the Alumni House. Further proposed scope reductions include not replacing the McIver chiller. Additional funds are requested in the 2023-25 Capital Priorities.	Under design
2021-2022	UNCG	Jackson Library–Renovation/Addition	\$81,000,000	\$98,185,405	\$17,100,000	The original scope included the comprehensive renovation of the existing building, a new 38,000 SF addition, relocation of the IT core distribution facility, and a new exterior façade. The scope has been reduced to a limited renovation of the existing building, no addition except for a new west entrance to increase accessibility, no relocation of the IT hub, no exterior site work except as needed to improve accessibility and limited exterior work. The project will now focus on upgrading mechanical and electrical systems, correcting code deficiencies, and improving accessibility. The additional funding will allow for some interior renovations to increase functionality and efficiency. Additional funds are requested in the 2023-25 Capital Priorities.	Under design
TOTAL			\$228,600,000	\$305,824,489	\$77,153,000		