

**2020 FACILITIES INVENTORY
AND UTILIZATION STUDY**
for
The University of North Carolina System
Fifty-Fourth Edition



Fitts-Woolard Hall, North Carolina State University

September 2022

Fitts-Woolard Hall

North Carolina State University

(Cover Page)

Opened in the summer of 2020, Fitts-Woolard Hall provides critical infrastructure that allows engineering faculty members and students to leverage the power of convergence across disciplines in an atmosphere unmatched anywhere in the nation. NC State currently produces more than 2,500 engineers and computer scientists each year, among the highest number of engineering degrees in the nation. In the past 10 years, engineering undergraduate enrollment has grown by 22 percent, and graduate enrollment has more than doubled. NC State University's engineers continue to change the world through groundbreaking research that solves society's greatest challenges, and Fitts-Woolard Hall's close proximity to industry and government facilities on Centennial Campus facilitates this.

The 230,000 square-foot building and associated infrastructure cost \$154 million to complete. The project was funded with state appropriations and private gifts from individuals and corporations who wished to support the broad and enriching experience the building offers to undergraduate and graduate students. The lead designer was Clark Nexsen, and the construction contractor was Skanska USA. The project is currently under review for Leadership in Energy and Environmental Design (LEED) Silver certification by the U.S. Green Building Council.

The state-of-the-art facility is centered on promoting interaction and collaboration between students, faculty, and individual engineering departments. Accommodating the Fitts Department of Industrial and Systems Engineering, the Department of Civil, Construction, and Environmental Engineering, and a portion of the College of Engineering Dean Administration, the new Fitts-Woolard Hall has proximity to six additional University engineering departments. The opportunity for convergence across disciplines fosters an environment of innovation which will be critical in the years to come.

Fitts-Woolard Hall's design is driven by a commitment to "engineering on display." Throughout the four-story facility, high degrees of transparency create a light-filled, vibrant education environment. This concept of "engineering on display" can be seen at the main entrance to the building. People entering the building can see civil and structural engineers testing theories, calculations, and materials in the structural testing lab. In the main lobby, there are steel-plated monumental stairs that connect all four floors. Beside the stairs is a feature wall designed to reflect the diverse engineering studies housed in the building. The theme of "engineering on display" continues throughout the rest of the building. The structural and mechanical aspects of the building have been left exposed as an additional instructional tool. The teaching and research spaces in the building include a large-scale driving simulator, testing labs for military equipment, and labs with scanners that assist in figuring out how to print human tissues.

Cover page photo ©Mark Herboth Photography LLC

The University of North Carolina

Randy Ramsey, Chairman
Board of Governors

Peter Hans
President

Jennifer H. Haygood
Senior Vice President
Finance & Budget

Katherine Lynn
Vice President for Finance and Capital Planning

Miriam Tripp
Director of Capital Planning

University of North Carolina System Space Utilization Analysis

Daphne Dow
Space Utilization Research Specialist

Karen Copeland
AutoCAD Tech

This page intentionally left blank.

Participating Institutions

UNIVERSITY OF NORTH CAROLINA SYSTEM

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

Research Universities I

NC State University
UNC-Chapel Hill

Chancellor

Randy Woodson
Kevin M. Guskiewicz

Project Officer

Sally Rau, Facilities, Information Manager
Suzanne Canipe, Space Information Analyst

Doctoral Universities

East Carolina University
N.C. A & T State University
UNC Charlotte
UNC Greensboro
UNC Wilmington

Philip Rogers
Harold L. Martin, Sr.
Sharon L. Gaber
Franklin D. Gilliam, Jr.
Aswani Volety

Kim Higdon, Space Analyst
Muktha Jost, Vice Provost
Steve Coppola, Provost for Inst. Research
Judy Smith, Dir. Space Management
Tina Ann Strickland, Academic Space Manager

Master's (Comprehensive) Universities and Colleges I

Appalachian State University
Fayetteville State University
North Carolina Central University
UNC Pembroke
Western Carolina University
Winston-Salem State University

Sheri N. Everts
Darrell T. Allison
Johnson O. Akinleye
Robin G. Cummings
Kelli R. Brown
Elwood L. Robinson

Arthur B. Rex, Space Mgmt. & Planning
Ashlynn Moore, Planning & Construction
Tim Williams, Design and Construction
H. Jay Blauser, Assistant Director
Paul Hammer, Research Specialist
Ronald E Vanard, Architect

Baccalaureate Colleges: Arts & Sciences Focus

UNC Asheville

Nancy J. Cable

Keith Krumpe, Senior Admin-Space Planner

Baccalaureate Colleges: Diverse Fields

Elizabeth City State University

Karrie Dixon

Fred Okanda, Dir. Inst. Research

Schools of Art, Music, and Design

UNC School of the Arts

Brian Cole

Jeff Paton, Dir. Inst. Research

Teaching Hospitals

UNC Hospitals at Chapel Hill

Executive Director

Gary L. Park

Project Officer

Laura McClamb, Asset Manager

Foreword

This study, the 54th 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 2020 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. 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.

In the wake of the COVID-19 outbreak, many institutions moved to online instruction. Figure 13 in the Executive Summary demonstrates this increase. In addition, institutions were asked to provide building and room information that reflected changes to accommodate social distancing needs—classes held in alternate locations [such as a gymnasium or cafeteria used as a classroom] could result in decreased utilization (increased stations available = lower utilization); the number of workspaces available in specialized laboratories may have been modified (fewer stations available = increased utilization). Therefore, the space utilization data for 2020 is to be considered an anomaly from previous collections.

The 2020 Facilities Inventory and Utilization Study is being published in its entirety, online, in a format that can be printed front and back. The 2020 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.....35

III. Building Characteristics.....67

Institutional Index107

Bibliography108

Index.....109

Appendices.....112

List of Tables

Utilization of Instructional Space

1. Capacity/Enrollment Ratio	3	7. Percent Student Station Utilization, Classrooms and Class Laboratories	15
2. Square Feet of Academic Facilities per FTE Student	5	8. Student Clock Hours of Instruction	17
3. Average Weekly Room Hours of Instruction in Classrooms.....	7	9. Space Factors	21
4. Average Weekly Room Hours of Instruction in Class Laboratories.....	9	10. Range of Selected Space Utilization Indices.....	25
5. Average Weekly Use of Student Stations in Classrooms.....	11	11. Space Standards	27
6. Average Weekly Use of Student Stations in Class Laboratories.....	13	12. Enrollments	31
		a. FTE Enrollments by Institution	33

Room Space Characteristics

13. Net-To-Gross Ratio	37	15. Assignable Area by Room Code	57
14. Percentage Distribution of Assignable Area by Summary Programs	39	16. Assignable Square Feet per Student Station for Classrooms	63
a. Instruction, Research & Public Service Subprograms	43	17. Assignable Square Feet per Student Station for Class Laboratories	65
b. Academic Support Subprograms	47		
c. Student Service and Physical Plant Operations Subprograms	49		
d. Institutional Administration, Independent Operations and Unassigned Subprograms..	53		

Building Characteristics

18. Ownership of Buildings.....	69	25. Accessible Area by Summary Programs and Subprograms	91
19. Capital Investment, Non-Residential Buildings .	73	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	77	c. Student Service and Physical Plant Operations Subprograms.....	99
22. Condition of Buildings.....	81	d. Institutional Administration, Independent Operations and Unassigned Subprograms	101
23. Estimated Cost to Renovate or Replace Unsatisfactory Facilities.....	85	26. Accessible Area by Room Code	103
24. Accessible Area as a Percentage of Assignable	89		

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 i along with the name of the chancellor and the project officer for each school. An alphabetical listing of these institutions, including mailing addresses and other information, 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 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 2020, the UNC System had approximately 90.7 million gross square feet of space and 3,004 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. Due to the COVID-19 pandemic which affected the ability to deliver face-to-face instruction in Fall 2020, the analysis of utilization of space is omitted.

Room Space Characteristics

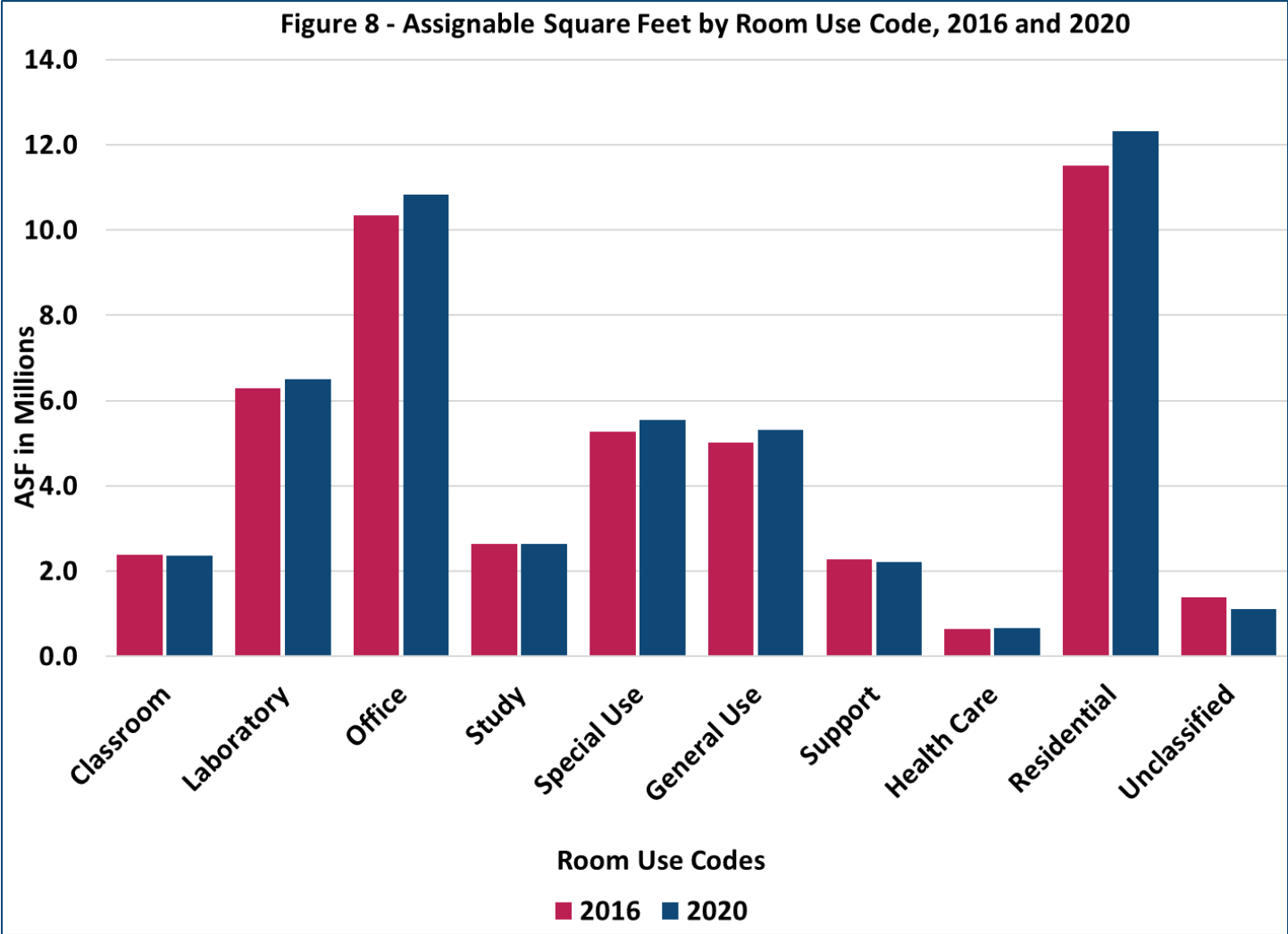
The study includes information on the assignment and use of each room on every campus. Of the 90.7 million gross square feet in the UNC System, excluding UNC Hospitals, 49.5 million square feet is considered assignable space. Assignable space is defined as space that is assigned to, or available for assignment to, an occupant or specific use. Assignable space excludes building service areas, circulation, mechanical, and structural areas. From 2016 to 2020, the assignable space has increased by 1,766,533 SF or 3.7%.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	11,867,663	23.97%	24.04%	-0.07%
Research	5,809,840	11.73%	11.87%	-0.13%
Public Service	1,705,829	3.45%	3.42%	0.03%
Student Service	20,230,565	40.86%	39.76%	1.11%
Other	9,895,833	19.99%	20.92%	-0.93%

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, 392,112 SF or 3.4%; Research, 142,923 or 2.5%. 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 73,981 SF or 4.5%. 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 1,250,107 SF, or 6.6% from 2016. 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 77,664 SF, or 17.4%.

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 12.3M SF, or 25% of all space, assigned to this room use code. This represents an increase of 801,565 SF, or 7.0%, since 2016. Office space is the second largest room use category at 10.8M SF, or 22% of all assignable space. Office space has increased by 492,107 SF, or 4.8% since 2016. 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 39-57 and 89-101 in the study.



Source: Table 15

Building Characteristics

Excluding UNC Hospitals, the UNC System has 90.7 million gross square feet of space comprised of 3,004 buildings and a total estimated replacement value of more than \$27.4B. 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	
3,004 Total Buildings	
	2,489 Owned
1,969 Appropriated	150 Leased
1,035 Non-Appropriated	365 Other Agreement
3,004 Total	3,004 Total

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.

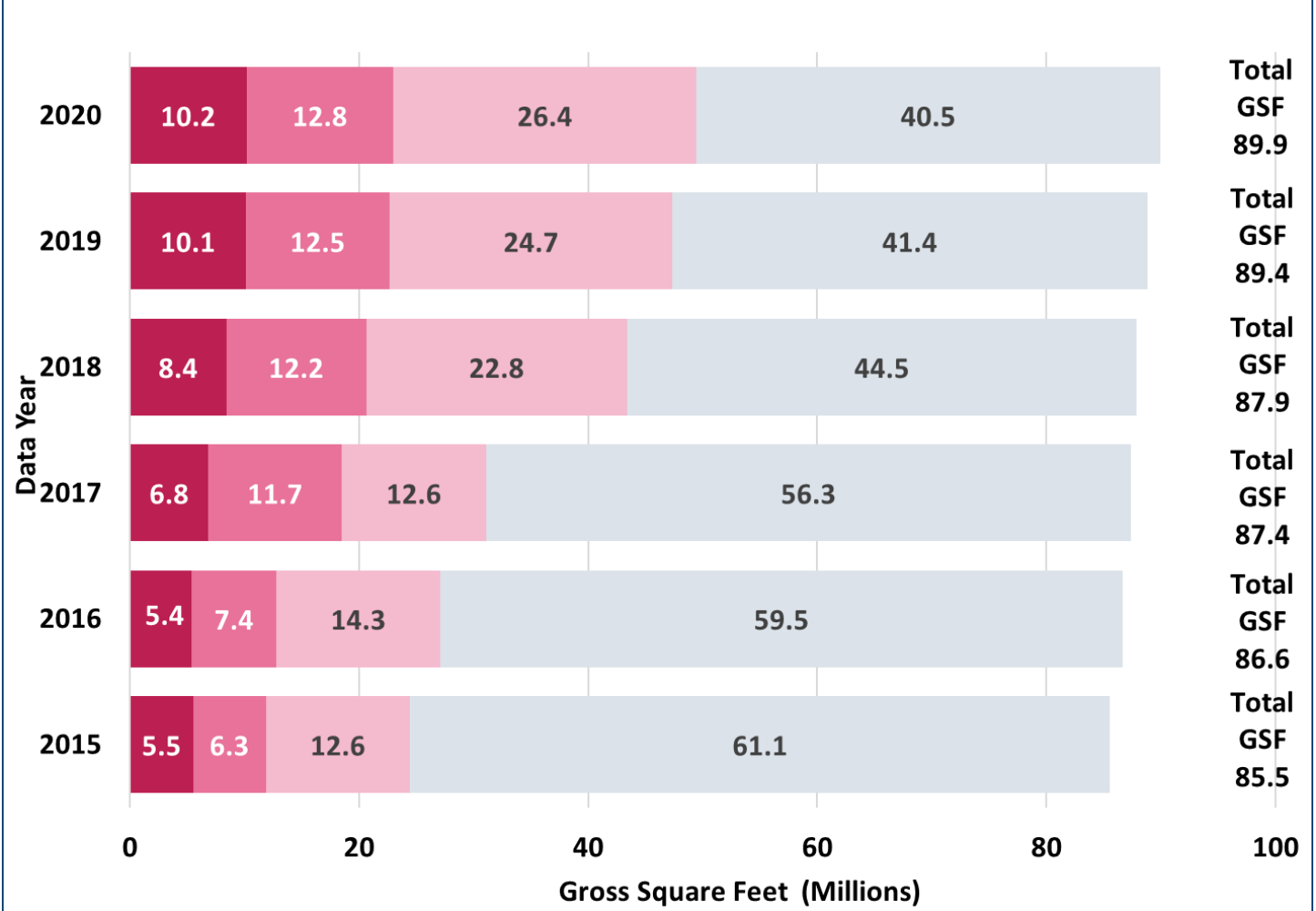
<ul style="list-style-type: none"> Condition Code 1 - Satisfactory - Suitable for continued use with normal maintenance Condition Code 2 - Remodeling A - Less than 25% of the estimated replacement cost of the building Condition Code 3 - Remodeling B - Between 25% and 50% of the estimated replacement cost of the building 	<ul style="list-style-type: none"> Condition Code 4 - Remodeling C - More than 50% of the estimated replacement cost of the building Condition Code 5 - Demolition - Identified for demolition, typically because they are unsafe or unsound Condition Code 6 - Termination - No longer in use for reasons other than condition
---	---

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.

Figure 9 illustrates the GSF and condition type from 2016 to 2020. The GSF in Conditions 3 and 4 has increased by 4,766,488 and 5,465,702, or 88% and 74% respectively since 2016, accounting for more than 20% of the 2020 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.

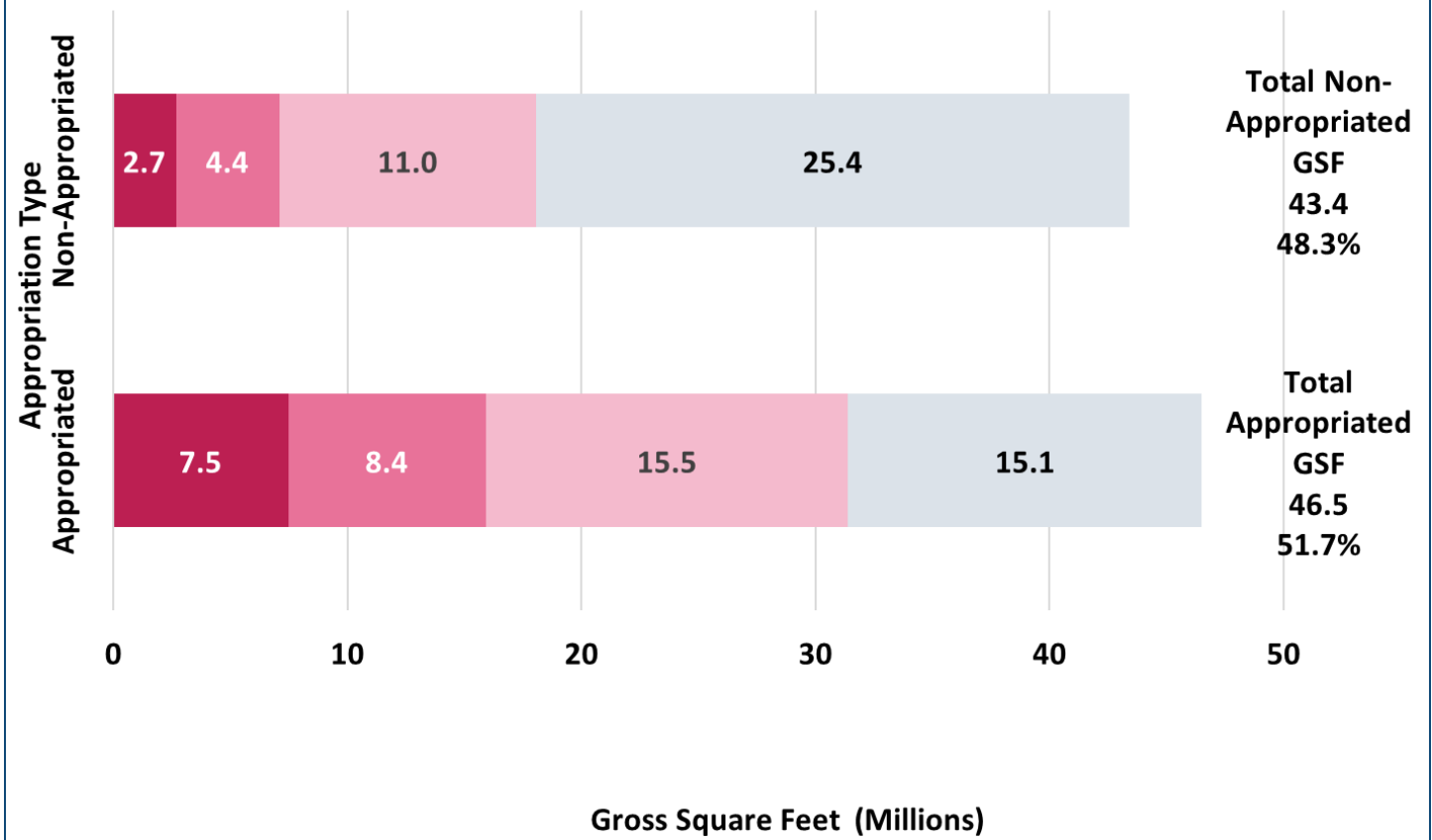
Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020



Source: Table 22

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.

Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020

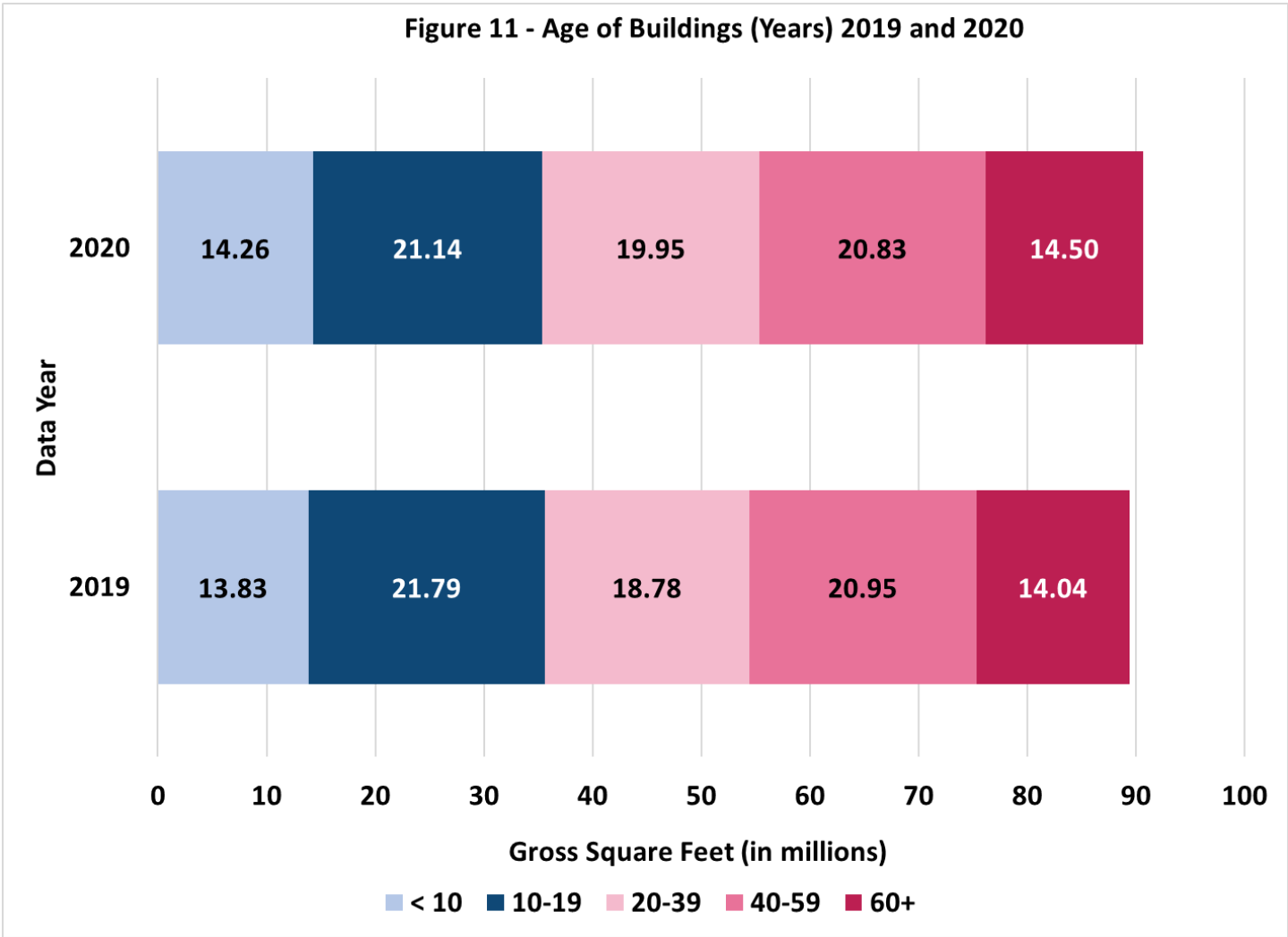


Source: Table 22 (GSF Only)

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. On the next page, Figure 11 illustrates the age of buildings and Figure 12 provides a further breakdown by appropriation type.

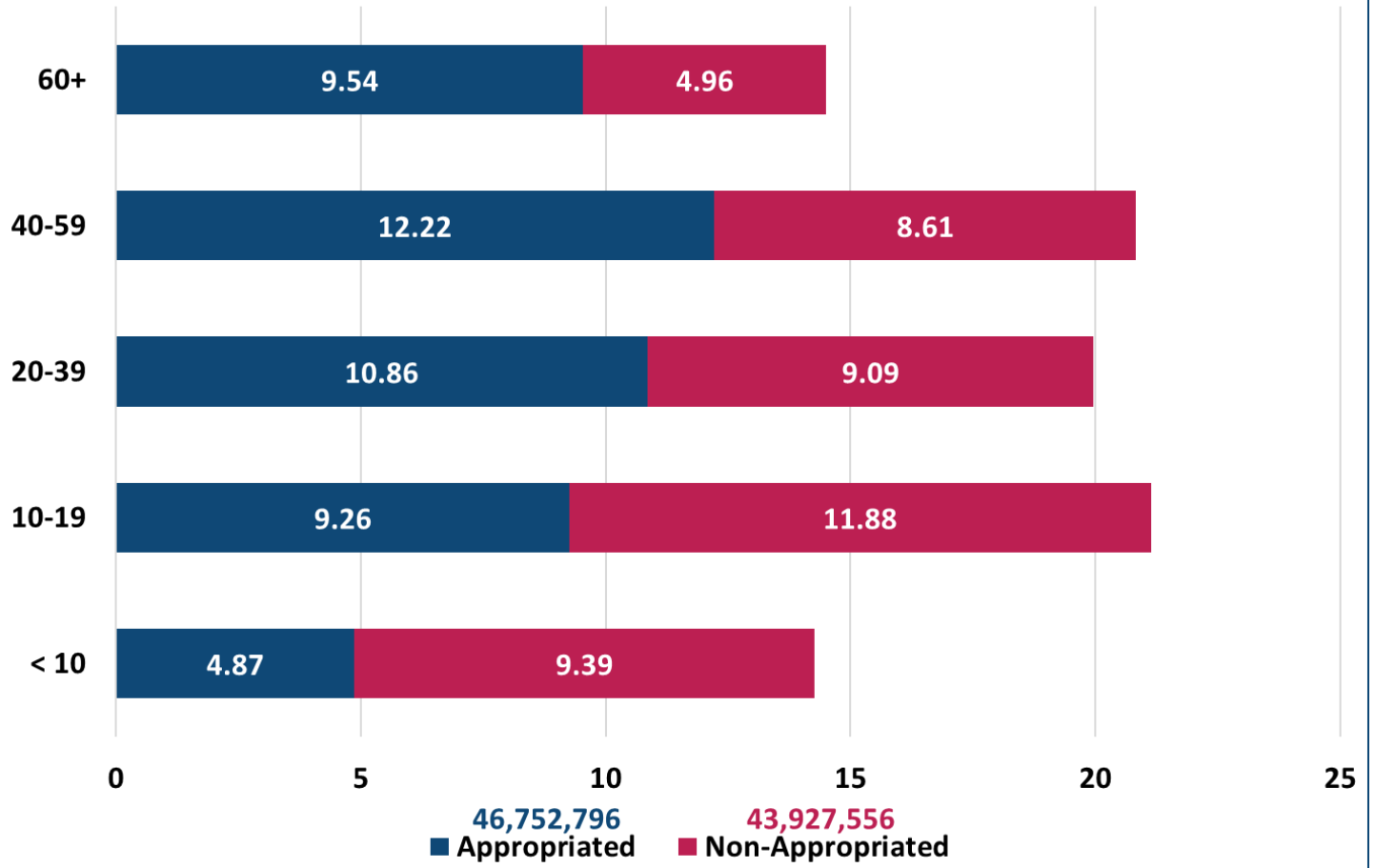
Further details regarding building characteristics, including a breakdown by campus, are on pages 77-83 in the study.

Figure 11 - Age of Buildings (Years) 2019 and 2020



Source: Table 21

Figure 12 - 2020 Age of Buildings by Appropriation Type, GSF (in Millions)



Source: Table 21 (GSF Only)

Figure 13 shows the increase in internet student clock hours 2017 - 2020.

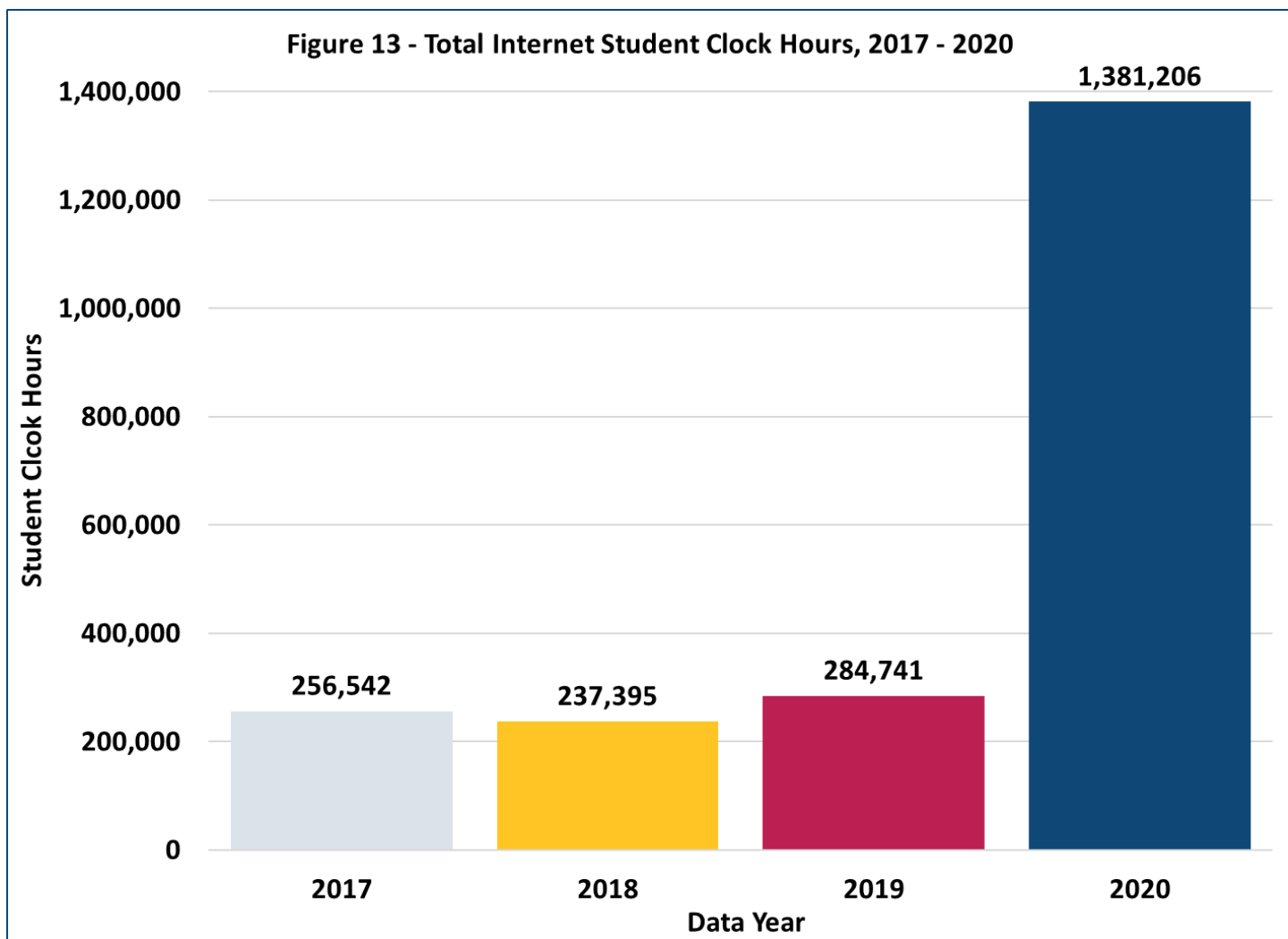


Figure 14 shows the change in student clock hours by method of delivery 2017 through 2020.

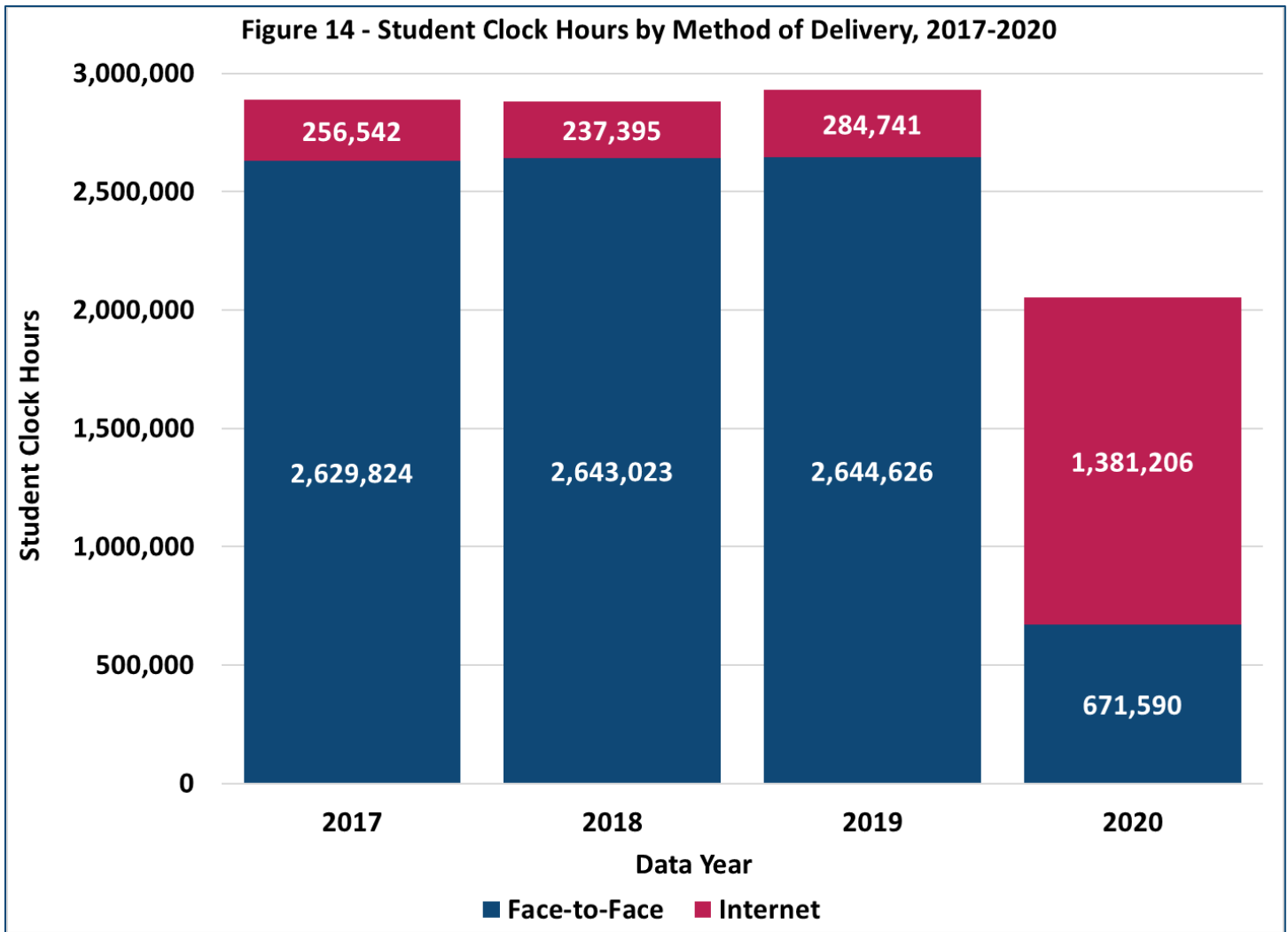


Figure 16 shows student clock hours by method of delivery by institution for 2019 and 2020.

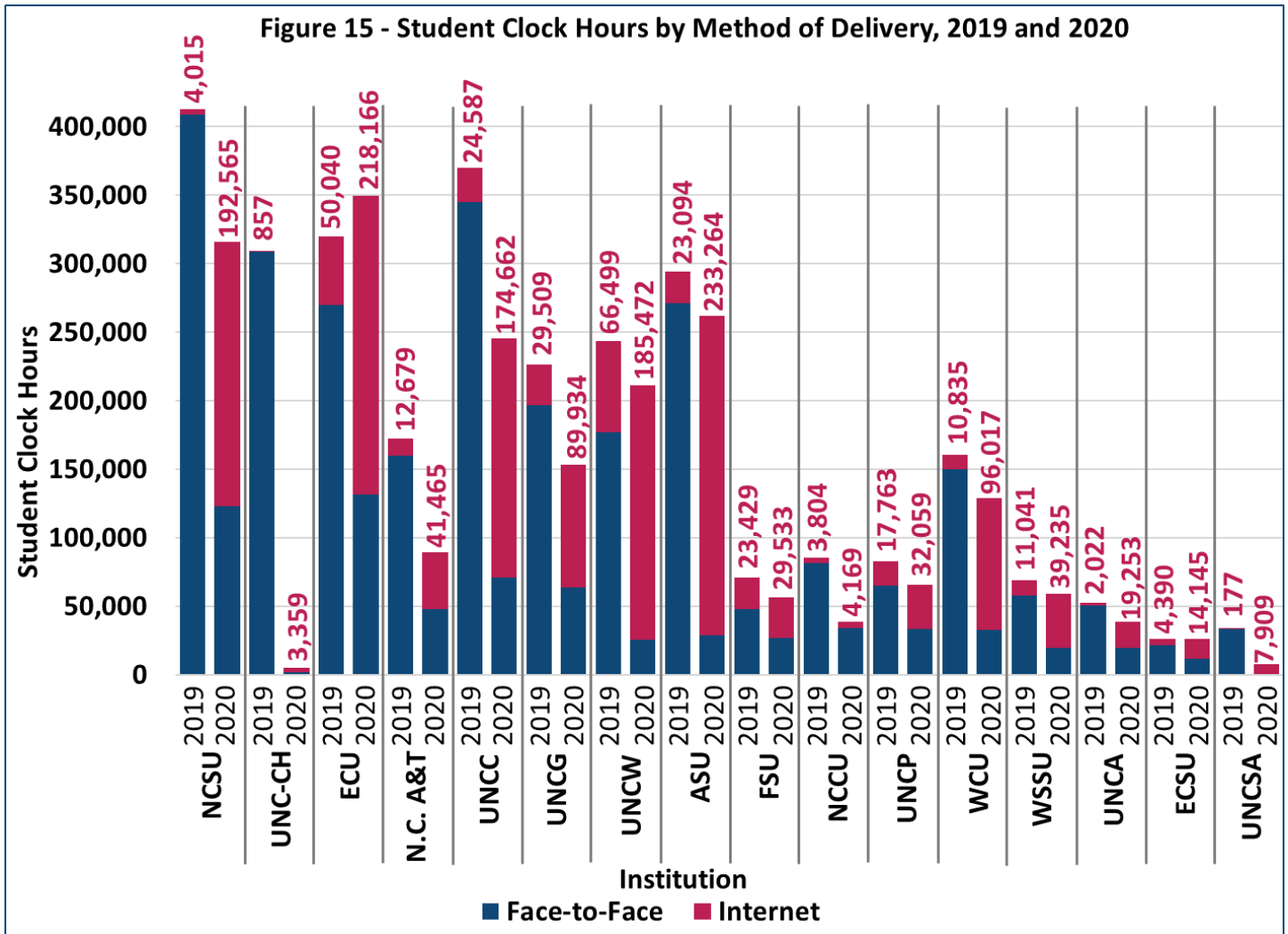
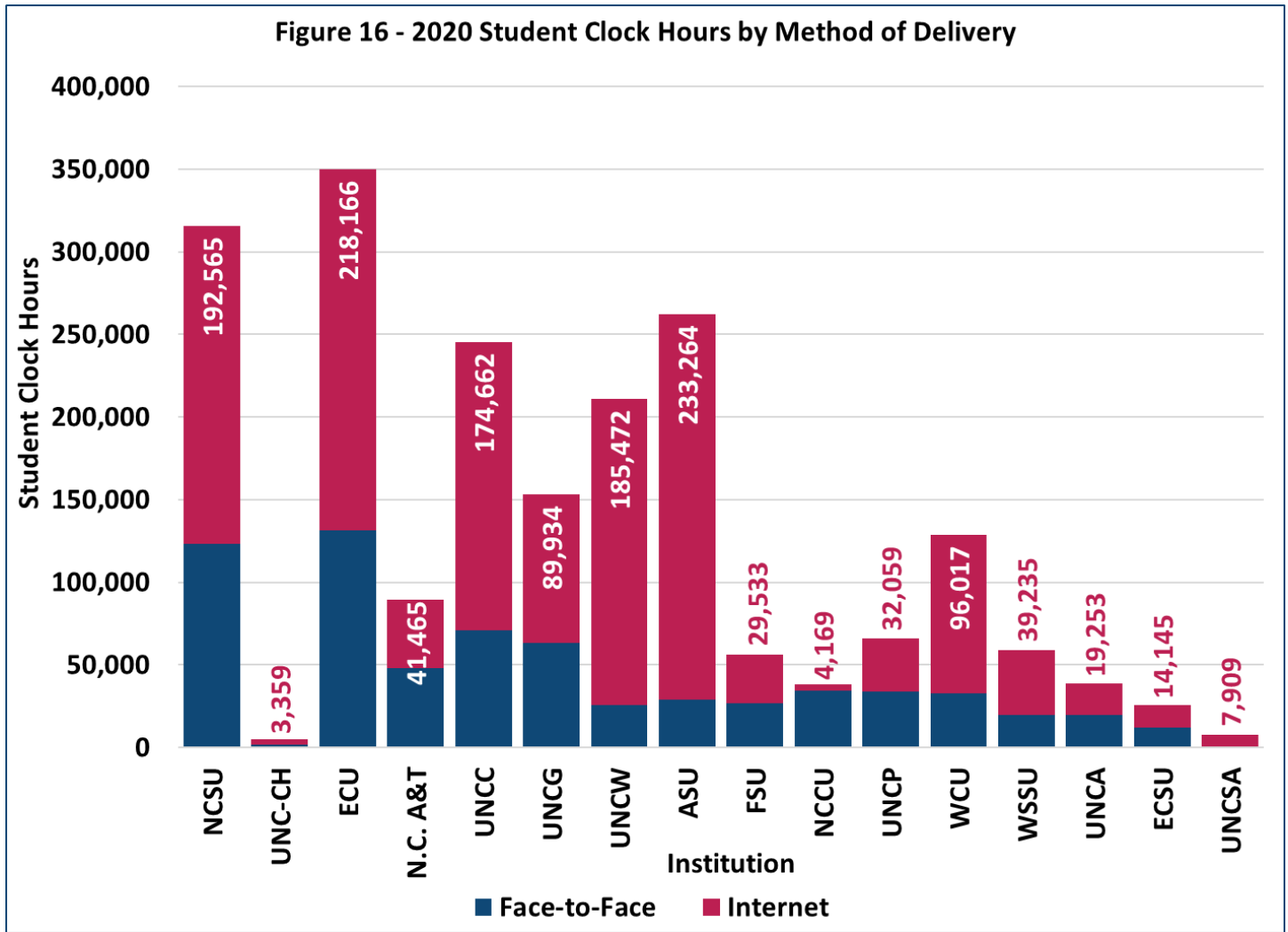


Figure 16 provides student clock hours by method of delivery for 2020.



Utilization of Instructional Space

Table 1. Capacity/Enrollment Ratio	3
Table 2. Sq. Ft. Academic Facilities per FTE Student.....	5
Table 3. Room Hours of Instruction in Classroom	7
Table 4. Room Hours of Instruction in Class Laboratories	9
Table 5. Use of Student Stations in Classrooms	11
Table 6. Use of Student Stations in Class Laboratories	13
Table 7. Percent Student Station Utilization	15
Table 8. Student Clock Hours of Instruction	17
Table 9. Space Factors	21
Table 10. Range of Space Utilization Indices	25
Table 11. Space Standards	27
Table 12. FTE Enrollments.....	31
Table 12a. FTE Enrollments by Institution.....	33

This page intentionally left blank.

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, 41-44, 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				
			2020	2019	2018	2017	2016
Research Universities I							
NC State	1,682,371	123,250.0	13.65	4.10	4.34	4.44	4.46
NC State Veterinary Med	-	-			-	-	-
UNC-Chapel Hill	1,953,938	1,611.5	1212.50	6.10	6.26	6.17	6.10
UNC-Chapel Hill Hlth Aff.	-	-			-	-	-
Subtotal	3,636,309	124,861.5	29.12	4.96	5.17	5.20	5.19
Doctoral Universities I & II							
East Carolina	1,032,180	131,554.0	7.85	3.83	3.77	3.62	3.57
East Carolina Hlth Aff.	-	-			-	-	-
N.C. A&T	720,191	47,920.0	15.03	4.51	4.68	4.78	5.17
UNC Charlotte	1,030,635	70,772.5	14.56	2.97	2.87	2.77	2.80
UNC Greensboro	731,046	63,411.5	11.53	3.74	3.52	3.65	3.59
UNC Wilmington	617,425	25,538.5	24.18	3.08	3.04	3.01	3.28
Subtotal	4,131,477	339,196.5	12.18	3.53	3.54	3.50	3.53
Master's (Comprehensive) Universities & Colleges I							
Appalachian	882,593	29,009.5	30.42	3.25	3.37	3.10	3.11
Fayetteville	283,535	26,617.5	10.65	5.96	5.53	6.24	5.78
NCCU	538,119	34,286.0	15.70	6.60	6.15	5.94	5.77
UNC Pembroke	337,356	33,700.5	10.01	4.78	4.67	5.04	4.75
Western Carolina	546,556	32,911.0	16.61	3.66	3.80	3.95	4.01
Winston-Salem	334,111	19,549.5	17.09	4.82	4.49	4.63	4.60
Subtotal	2,922,270	176,074.0	16.60	4.22	3.97	3.97	3.99
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	233,210	19,640.5	11.87	4.99	4.79	4.71	4.73
Subtotal	233,210	19,640.5	11.87	4.99	7.21	7.41	7.75
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	281,601	11,817.5	23.83	12.95	13.16	15.10	17.24
Subtotal	281,601	11,817.5	23.83	12.95	7.21	7.41	7.75
Schools of Art, Music, & Design							
UNC School of the Arts	-	-	-	9.94	10.52	10.48	10.37
Subtotal	0	0.0	-	9.94	10.52	10.48	10.37
Grand Total	11,204,867	671,590.0	16.68	4.27	4.30	4.28	4.30

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:

<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 3). 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, 41-44, 47, 49, and 53) and room use codes (pages 61-62). The term refers to an institution's total assignable area (page 37) 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 31.

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

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				
			2020	2019	2018	2017	2016
Research Universities I							
NC State	6,028,894	31,872	189	185	190	196	198
<i>NC State Veterinary Med</i>	452,072	399	1,133	1,132	1,091	1,083	1,061
UNC-Chapel Hill	3,917,171	23,159	169	164	161	160	167
<i>UNC-Chapel Hill Hlth Aff.</i>	2,496,445	4,859	514	535	555	535	545
Subtotal	9,946,065	55,031	181	176	177	180	184
Doctoral Universities I & II							
East Carolina	1,713,118	22,786	75	76	75	72	71
<i>East Carolina Hlth Aff.</i>	1,079,065	2,771	389	393	420	415	412
N.C. A&T	1,549,357	11,897	130	132	137	139	149
UNC Charlotte	1,926,279	27,579	70	72	69	67	70
UNC Greensboro	1,484,677	17,764	84	81	79	83	83
UNC Wilmington	1,169,931	15,931	73	64	64	68	71
Subtotal	7,843,362	95,957	82	81	82	82	84
Master's (Comprehensive) Universities & Colleges I							
Appalachian	1,313,811	19,188	68	71	73	69	70
Fayetteville	466,374	5,626	83	84	86	98	96
NCCU	802,766	7,343	109	110	107	108	108
UNC Pembroke	548,787	7,211	76	77	84	96	95
Western Carolina	850,152	11,104	77	76	79	85	86
Winston-Salem	564,535	4,803	118	110	112	114	112
Subtotal	4,546,425	55,275	82	83	81	83	85
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	399,168	3,105	129	125	118	120	117
Subtotal	399,168	3,105	129	125	118	120	117
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	432,616	1,822	237	260	278	333	322
Subtotal	432,616	1,822	237	260	278	333	322
Schools of Art, Music, & Design							
UNC School of the Arts	550,860	1,059	520	498	515	534	519
Subtotal	550,860	1,059	520	498	515	534	519
Grand Total	23,718,496	212,249	112	110	111	113	115

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				
				2020	2019	2018	2017	2016
Research Universities I								
NC State	2,544.0	10.4	0.6	11.0	31.8	31.2	31.1	31.2
UNC-Chapel Hill	98.5	0.3	0.0	0.3	27.3	27.6	27.7	27.4
Subtotal	2,642.5	4.9	0.3	5.2	29.0	29.2	29.3	29.1
Doctoral Universities I & II								
East Carolina	2,411.5	12.5	0.9	13.4	27.1	27.2	27.7	27.5
N.C. A&T	1,475.0	8.4	1.3	9.7	27.9	25.4	24.4	23.1
UNC Charlotte	2,285.0	7.5	2.3	9.8	29.9	30.8	34.3	32.4
UNC Greensboro	2,186.0	14.1	2.1	16.2	32.2	31.6	30.5	29.3
UNC Wilmington	1,108.0	5.9	0.9	6.8	30.8	32.2	31.1	26.6
Subtotal	9,465.5	9.4	1.5	10.9	29.1	29.5	29.9	28.2
Master's (Comprehensive) Universities & Colleges I								
Appalachian	969.0	4.1	0.4	4.5	28.8	27.2	28.7	29.3
Fayetteville	979.0	13.0	2.6	15.6	23.0	25.3	25.6	24.4
NCCU	892.0	5.2	0.7	5.9	14.8	16.6	16.8	16.5
UNC Pembroke	1,278.0	8.6	1.3	9.9	22.4	22.8	22.2	22.9
Western Carolina	789.0	6.2	1.4	7.6	33.2	32.3	30.9	30.3
Winston-Salem	639.5	6.0	0.9	6.9	20.9	22.6	22.2	22.1
Subtotal	5,546.5	6.4	1.0	7.4	24.2	24.4	24.6	24.6
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	625.0	10.1	1.1	11.2	27.4	28.3	25.6	27.4
Subtotal	625.0	10.1	1.1	11.2	27.4	28.3	25.6	27.4
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	502.5	5.4	0.8	6.2	9.6	10.2	11.3	8.6
Subtotal	502.5	5.4	0.8	6.2	9.6	10.2	11.3	8.6
Schools of Art, Music, & Design								
UNC School of the Arts	-	-	-	0.0	11.4	10.4	10.8	10.7
Subtotal	0.0	0.0	0.0	0.0	11.4	10.4	10.8	10.7
Grand Total	18,782.0	7.1	1.0	8.1	26.6	26.7	26.9	26.2

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 7.

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				
				2020	2019	2018	2017	2016
Research Universities I								
NC State	1,448.5	6.0	0.2	6.2	15.4	12.7	13.4	13.6
UNC-Chapel Hill	-	-	-	-	8.9	9.3	9.4	9.9
Subtotal	1,448.5	4.2	0.2	4.4	13.3	11.8	12.2	12.5
Doctoral Universities I & II								
East Carolina	1,924.5	10.4	1.0	11.4	14.6	15.2	15.4	14.6
N.C. A&T	412.5	3.7	0.5	4.2	13.3	13.0	13.2	14.6
UNC Charlotte	1,020.5	6.1	1.1	7.2	18.7	20.7	18.9	17.3
UNC Greensboro	1,282.5	11.4	1.6	13.0	18.0	17.5	18.3	20.5
UNC Wilmington	323.5	3.2	0.3	3.5	19.5	17.0	18.0	17.8
Subtotal	4,963.5	7.3	0.9	8.2	16.5	16.6	16.6	16.7
Master's (Comprehensive) Universities & Colleges I								
Appalachian	518.5	3.6	0.2	3.8	20.2	20.5	21.8	21.9
Fayetteville	373.0	9.0	1.9	10.9	14.4	15.7	12.1	11.7
NCCU	348.5	4.8	0.6	5.4	7.5	8.5	8.9	10.4
UNC Pembroke	423.0	9.4	0.2	9.6	14.0	17.4	14.8	16.4
Western Carolina	816.5	8.9	0.5	9.4	18.1	17.7	17.0	16.6
Winston-Salem	221.0	2.3	0.4	2.7	9.6	10.1	9.2	9.1
Subtotal	2,700.5	5.6	0.5	6.1	15.3	16.0	15.4	15.6
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	174.0	7.6	1.1	8.7	12.8	11.8	14.7	12.6
Subtotal	174.0	7.6	1.1	8.7	12.8	11.8	14.7	12.6
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	264.0	3.4	0.7	4.1	5.9	6.7	6.1	4.6
Subtotal	264.0	3.4	0.7	4.1	5.9	6.7	6.1	4.6
Schools of Art, Music, & Design								
UNC School of the Arts	-	-	-	-	13.2	12.3	13.2	12.7
Subtotal	0.0	-	-	-	13.2	12.3	13.2	12.7
Grand Total	9,550.5	5.6	0.6	6.2	14.8	14.5	14.6	14.5

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.

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 7 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				
					2020	2019	2018	2017	2016
Research Universities I									
NC State	14,347	79,709.0	5.3	0.3	5.6	21.2	20.8	19.9	19.6
UNC-Chapel Hill	6,575	1,472.0	0.2	0.0	0.2	19.2	18.6	18.6	18.4
Subtotal	20,922	81,181.0	3.7	0.2	3.9	20.0	19.7	19.2	19.0
Doctoral Universities I & II									
East Carolina	9,396	81,187.0	8.3	0.4	8.7	20.9	21.7	22.8	22.3
N.C. A&T	6,997	33,453.0	4.3	0.5	4.8	16.3	15.4	14.8	14.1
UNC Charlotte	11,245	55,027.0	3.8	1.1	4.9	21.7	22.1	24.4	22.2
UNC Greensboro	3,222	38,275.0	10.6	1.3	11.9	17.5	18.6	18.4	18.3
UNC Wilmington	3,623	19,643.0	4.8	0.7	5.5	21.8	22.2	21.4	18.3
Subtotal	34,483	227,585.0	5.9	0.7	6.6	19.5	20.3	20.9	19.7
Master's (Comprehensive) Universities & Colleges I									
Appalachian	3,515	17,502.0	4.6	0.4	5.0	20.5	19.3	21.0	21.0
Fayetteville	2,516	19,790.0	6.7	1.1	7.8	13.9	14.8	14.0	14.9
NCCU	6,397	19,384.0	2.7	0.3	3.0	9.2	9.6	10.2	10.0
UNC Pembroke	4,963	24,764.0	4.6	0.4	5.0	13.6	14.5	13.8	14.4
Western Carolina	1,709	12,685.0	6.2	1.2	7.4	23.7	22.3	21.0	21.0
Winston-Salem	4,002	12,941.0	3.0	0.3	3.3	12.7	13.7	13.3	13.2
Subtotal	23,102	107,066.0	4.1	0.5	4.6	16.2	16.1	16.3	16.3
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	1,031	11,641.0	10.3	1.0	11.3	17.5	18.2	16.0	16.1
Subtotal	1,031	11,641.0	10.3	1.0	11.3	17.5	18.2	16.0	16.1
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	2,998	8,290.0	2.5	0.3	2.8	5.2	5.1	4.2	3.5
Subtotal	2,998	8,290.0	2.5	0.3	2.8	5.2	5.1	4.2	3.5
Schools of Art, Music, & Design									
UNC School of the Arts	1,193	-	-	-	0.0	6.4	5.9	6.1	6.4
Subtotal	1,193	0.0	-	-	0.0	6.4	5.9	6.1	6.4
Grand Total	83,729	435,763.0	4.7	0.5	5.2	18.4	18.4	18.5	17.9

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 9 for a discussion of what the term class laboratory includes and page 7 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					
					2020	2019	2018	2017	2016	
Research Universities I										
NC State	6,483	29,851.0	4.5	0.1	4.6	12.2	10.5	11.1	11.1	
UNC-Chapel Hill	2,675	-	-	-	0.0	6.8	6.8	6.6	6.8	
Subtotal	9,158	29,851.0	3.2	0.1	3.3	10.6	9.4	9.7	9.8	
Doctoral Universities I & II										
East Carolina	4,531	39,175.0	7.9	0.8	8.7	11.4	11.6	11.4	11.3	
N.C. A&T	2,370	7,308.0	2.7	0.3	3.0	11.7	11.1	11.0	11.2	
UNC Charlotte	2,746	13,561.0	4.2	0.8	5.0	13.1	14.6	13.7	12.3	
UNC Greensboro	1,886	19,832.0	9.4	1.1	10.5	11.7	8.9	13.1	12.8	
UNC Wilmington	1,413	4,233.0	2.8	0.2	3.0	15.0	14.1	15.8	13.7	
Subtotal	12,946	84,109.0	5.8	0.7	6.5	12.5	11.6	12.3	11.9	
Master's (Comprehensive) Universities & Colleges I										
Appalachian	2,010	6,419.0	3.0	0.2	3.2	17.5	17.5	18.2	18.3	
Fayetteville	940	5,365.0	4.4	1.3	5.7	10.0	10.9	8.5	9.0	
NCCU	1,387	5,817.0	3.7	0.5	4.2	7.2	8.4	8.7	10.9	
UNC Pembroke	1,426	5,788.0	4.0	0.1	4.1	11.3	14.3	11.6	13.8	
Western Carolina	1,750	11,156.0	5.9	0.4	6.3	13.9	13.9	13.6	13.8	
Winston-Salem	1,581	2,832.0	1.6	0.2	1.8	8.7	8.4	7.0	7.0	
Subtotal	9,094	37,377.0	3.8	0.4	4.2	12.9	13.4	13.2	13.2	
Baccalaureate Colleges: Arts & Sciences Focus										
UNC Asheville	730	7,855.0	9.2	1.5	10.7	10.7	10.2	11.5	10.1	
Subtotal	730	7,855.0	9.2	1.5	10.7	10.7	10.2	11.5	10.1	
Baccalaureate Colleges: Diverse Fields										
Elizabeth City	1,416	6,024.0	3.4	0.9	4.3	4.3	3.9	3.6	2.7	
Subtotal	1,416	6,024.0	3.4	0.9	4.3	4.3	3.9	3.6	2.7	
Schools of Art, Music, & Design										
UNC School of the Arts	1,938	15,201.0	6.4	1.5	7.9	7.9	7.4	7.4	7.4	
Subtotal	1,938	15,201.0	6.4	1.5	7.9	7.9	7.4	7.4	7.4	
Grand Total	35,282	180,417.0	4.1	0.4	4.5	11.5	11.1	11.3	11.2	

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.

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				
	2020	2019	2018	2017	2016	2020	2019	2018	2017	2016
Research Universities I										
NC State	37.5	64.7	64.7	63.3	62.7	69.3	78.2	75.5	73.8	71.6
UNC-Chapel Hill	40.9	68.6	66.9	65.5	64.6	0.0	49.5	50.1	51.2	49.6
Subtotal	37.5	66.5	65.8	64.4	63.6	69.3	69.8	67.9	67.5	65.4
Doctoral Universities I & II										
East Carolina	49.8	69.8	70.7	72.6	72.3	61.5	62.3	62.0	59.5	62.7
N.C. A&T	36.5	54.2	54.7	55.3	54.2	67.7	76.7	73.6	71.6	70.6
UNC Charlotte	36.3	66.0	67.1	66.5	65.1	52.3	63.6	65.2	60.9	62.4
UNC Greensboro	63.3	57.9	62.0	61.6	63.3	73.4	57.5	54.2	61.5	52.7
UNC Wilmington	63.9	67.0	63.1	65.4	63.7	70.5	68.5	70.4	75.7	72.1
Subtotal	45.7	63.6	64.6	65.3	64.8	63.0	64.4	63.8	64.1	62.9
Master's (Comprehensive) Universities & Colleges I										
Appalachian	73.8	68.3	67.6	69.3	67.6	68.9	80.0	78.2	77.4	76.8
Fayetteville	47.5	57.0	54.9	52.5	57.5	51.9	62.0	63.6	61.2	65.6
NCCU	39.9	52.2	49.4	51.1	51.4	65.5	77.4	82.9	82.8	83.9
UNC Pembroke	43.5	58.1	61.4	59.5	59.7	43.3	67.6	72.8	66.9	74.7
Western Carolina	86.1	69.7	67.0	66.8	67.1	59.7	63.6	63.0	63.7	65.4
Winston-Salem	34.7	57.5	58.5	57.9	57.3	43.5	65.0	61.6	57.7	58.7
Subtotal	48.0	63.0	61.9	62.1	62.1	55.7	71.2	71.1	70.0	71.8
Baccalaureate Colleges: Arts & Sciences Focus										
UNC Asheville	80.1	62.8	63.3	60.4	57.5	73.5	73.7	66.5	66.0	60.0
Subtotal	80.1	62.8	63.3	60.4	57.5	73.5	73.7	66.5	66.0	60.0
Baccalaureate Colleges: Diverse Fields										
Elizabeth City	31.4	44.1	41.2	35.3	38.3	41.7	47.5	40.9	38.4	43.2
Subtotal	31.4	44.1	41.2	35.3	38.3	41.7	47.5	40.9	38.4	43.2
Schools of Art, Music, & Design										
UNC School of the Arts	0.0	49.5	50.5	50.7	53.2	0.0	49.8	49.6	48.0	48.1
Subtotal	0.0	49.5	50.5	50.7	53.2	0.0	49.8	49.6	48.0	48.1
Grand Total	44.6	64.0	63.9	63.8	63.3	61.6	66.4	65.6	65.1	64.8

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 5. 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.

DRAFT

Table 8. Student Clock Hours of Instruction

Institution	2020			2019		
	Classroom	Laboratory	Other	Classroom	Laboratory	Other
Research Universities I						
NC State	79,709.0	29,851.0	13,690.0	304,855.5	74,105.5	30,105.5
UNC-Chapel Hill	1,472.0	0.0	139.5	278,423.0	19,407.0	10,721.0
Subtotal	81,181.0	29,851.0	13,829.5	583,278.5	93,512.5	40,826.5
Doctoral Universities I & II						
East Carolina	81,187.0	39,174.5	11,192.5	196,439.5	51,854.0	21,258.5
N.C. A&T	33,452.5	7,307.5	7,160.0	113,801.5	27,853.5	18,044.0
UNC Charlotte	55,027.0	13,561.0	2,184.5	286,693.0	53,460.5	5,012.5
UNC Greensboro	38,274.5	19,832.0	5,305.0	150,149.5	34,293.5	12,317.5
UNC Wilmington	19,643.0	4,233.0	1,662.5	136,075.5	34,220.0	6,925.0
Subtotal	227,584.0	84,108.0	27,504.5	883,159.0	201,681.5	63,557.5
Master's (Comprehensive) Universities & Colleges I						
Appalachian	17,502.0	6,419.0	5,088.5	181,661.5	53,750.5	35,670.0
Fayetteville	19,789.5	5,365.0	1,463.0	34,896.0	9,447.5	3,242.0
NCCU	19,384.0	5,817.0	9,085.0	58,582.0	10,010.5	12,926.0
UNC Pembroke	24,763.5	5,788.0	3,149.0	52,556.5	10,150.5	2,196.5
Western Carolina	12,685.0	11,156.0	9,070.0	105,192.0	32,018.5	12,663.5
Winston-Salem	12,941.0	2,831.5	3,777.0	41,261.5	10,149.0	6,475.0
Subtotal	107,065.0	37,376.5	31,632.5	474,149.5	125,526.5	73,173.0
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	11,641.0	2,608.0	5,391.5	34,992.5	7,854.5	7,452.0
Subtotal	11,641.0	2,608.0	5,391.5	34,992.5	7,854.5	7,452.0
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	8,289.5	3,408.0	120.0	15,444.5	6,023.5	282.5
Subtotal	8,289.5	3,408.0	120.0	15,444.5	6,023.5	282.5
Schools of Art, Music, & Design						
UNC School of the Arts	0.0	0.0	0.0	7,327.0	15,201.0	11,183.5
Subtotal	0.0	0.0	0.0	7,327.0	15,201.0	11,183.5
Grand Total	435,760.5	157,351.5	78,478.0	1,998,351.0	449,799.5	196,475.0

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

Institution	2018		
	Classroom	Laboratory	Other
Research Universities I			
NC State	298,774.0	68,833.0	24,844.0
UNC-Chapel Hill	272,809.5	19,262.5	9,342.0
Subtotal	571,583.5	88,095.5	34,186.0
Doctoral Universities I & II			
East Carolina	209,314.0	52,921.0	16,752.5
N.C. A&T	108,162.5	26,379.0	19,441.0
UNC Charlotte	294,111.0	48,360.0	7,458.5
UNC Greensboro	160,779.0	32,092.5	14,199.0
UNC Wilmington	132,221.0	30,029.0	9,219.5
Subtotal	904,587.5	189,781.5	67,070.5
Master's (Comprehensive) Universities & Colleges I			
Appalachian	183,397.5	55,138.0	31,280.0
Fayetteville	37,070.5	10,843.5	3,302.0
NCCU	61,556.5	11,688.0	14,278.0
UNC Pembroke	53,218.0	9,853.0	2,573.5
Western Carolina	101,800.5	31,066.0	11,381.0
Winston-Salem	45,185.5	10,168.0	8,238.0
Subtotal	482,228.5	128,756.5	71,052.5
Baccalaureate Colleges: Arts & Sciences Focus			
UNC Asheville	36,343.5	7,416.5	8,649.0
Subtotal	36,343.5	7,416.5	8,649.0
Baccalaureate Colleges: Diverse Fields			
Elizabeth City	15,405.0	5,523.5	472.5
Subtotal	15,405.0	5,523.5	472.5
Schools of Art, Music, & Design			
UNC School of the Arts	6,782.0	14,278.5	10,810.0
Subtotal	6,782.0	14,278.5	10,810.0
Grand Total	2,016,930.0	433,852.0	192,240.5

This page intentionally left blank.

DRAFT

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:

$$\text{Classroom Space Factor} = \frac{25}{8.1 \times .446} = 6.92$$

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.

DRAFT

Table 9. Space Factors

Institution	Classrooms					Laboratories				
	2020	2019	2018	2017	2016	2020	2019	2018	2017	2016
Research Universities I										
NC State	3.10	0.82	0.83	0.87	0.88	8.84	3.29	3.88	3.73	3.71
UNC-Chapel Hill	173.79	0.93	0.94	0.94	0.95	0.00	5.04	4.97	5.01	4.81
Subtotal	6.20	0.87	0.89	0.91	0.91	11.83	3.65	4.12	4.01	3.95
Doctoral Universities I & II										
East Carolina	2.03	0.84	0.81	0.77	0.78	4.15	3.14	3.11	3.19	3.20
N.C. A&T	4.11	1.21	1.27	1.33	1.42	13.03	3.42	3.61	3.66	3.52
UNC Charlotte	4.39	0.84	0.82	0.77	0.81	12.36	3.04	2.60	2.98	3.20
UNC Greensboro	3.59	0.96	0.92	0.92	0.93	6.76	3.96	4.22	3.67	3.75
UNC Wilmington	8.05	0.96	0.94	0.95	1.44	21.33	2.45	2.75	2.52	2.77
Subtotal	3.69	0.93	0.91	0.88	0.99	7.73	3.17	3.18	3.16	3.26
Master's (Comprehensive) Universities & Colleges I										
Appalachian	10.38	0.99	1.04	0.94	0.94	21.18	2.55	2.53	2.40	2.39
Fayetteville	2.54	1.44	1.37	1.46	1.36	6.66	3.78	3.38	4.32	4.11
NCCU	6.16	2.04	1.94	1.83	1.88	10.24	5.95	5.10	4.92	3.93
UNC Pembroke	4.30	1.62	1.59	1.68	1.61	7.27	3.53	2.91	3.59	3.02
Western Carolina	7.13	0.86	0.91	0.96	0.98	8.67	3.02	3.11	3.23	3.20
Winston-Salem	6.48	1.57	1.45	1.51	1.51	24.97	4.29	4.30	5.15	5.15
Subtotal	5.91	1.24	1.25	1.24	1.23	11.79	3.25	3.14	3.30	3.16
Baccalaureate Colleges: Arts & Sciences Focus										
UNC Asheville	3.75	1.24	1.19	1.34	1.33	6.43	4.87	5.16	4.76	4.10
Subtotal	3.75	1.24	1.19	1.34	1.33	6.43	4.87	5.16	4.76	4.10
Baccalaureate Colleges: Diverse Fields										
Elizabeth City	7.75	4.16	4.17	5.01	5.96	14.49	8.20	8.90	9.72	12.10
Subtotal	7.75	4.16	4.17	5.01	5.96	14.49	8.20	8.90	9.72	12.10
Schools of Art, Music, & Design										
UNC School of the Arts	0.00	4.10	4.43	4.25	4.11	0.00	5.59	5.95	5.79	5.79
Subtotal	0.00	4.10	4.43	4.25	4.11	0.00	5.59	5.95	5.79	5.79
Grand Total	4.85	1.03	1.09	1.08	1.14	10.14	3.47	3.81	3.82	3.81

Table 9. (Continued) Space Factors

Institution	Teaching Areas				
	2020	2019	2018	2017	2016
Research Universities I					
NC State	4.67	1.30	1.40	1.45	1.46
UNC-Chapel Hill	234.51	1.19	1.21	1.22	1.21
Subtotal	7.71	1.25	1.32	1.34	1.35
Doctoral Universities I & II					
East Carolina	2.72	1.32	1.27	1.21	1.23
N.C. A&T	5.71	1.64	1.73	1.80	1.84
UNC Charlotte	5.96	1.19	1.07	1.10	1.14
UNC Greensboro	4.67	1.52	1.47	1.37	1.41
UNC Wilmington	10.41	1.26	1.27	1.26	1.69
Subtotal	4.78	1.34	1.30	1.28	1.37
Master's (Comprehensive) Universities & Colleges I					
Appalachian	13.28	1.35	1.38	1.27	1.27
Fayetteville	3.42	1.94	1.82	2.17	2.04
NCCU	7.11	2.61	2.44	2.32	2.27
UNC Pembroke	4.86	1.93	1.80	1.94	1.83
Western Carolina	7.85	1.37	1.42	1.49	1.48
Winston-Salem	9.80	2.10	1.97	2.10	2.10
Subtotal	7.43	1.67	1.65	1.66	1.64
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	4.24	1.90	1.86	1.85	1.71
Subtotal	4.24	1.90	1.86	1.85	1.71
Baccalaureate Colleges: Diverse Fields					
Elizabeth City	9.71	5.29	5.42	6.38	7.70
Subtotal	9.71	5.29	5.42	6.38	7.70
Schools of Art, Music, & Design					
UNC School of the Arts	0.00	5.10	5.46	5.28	5.22
Subtotal	0.00	5.10	5.46	5.28	5.22
Grand Total	8.59	1.48	1.57	1.57	1.61

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									
Research Universities I	11.0	5.7	0.3	40.9	39.2	37.5	173.8	88.4	3.1
Doctoral Universities I & II	16.2	11.2	6.8	63.9	49.9	36.3	8.1	4.4	2.0
Master's (Comprehensive) Universities I	15.6	8.4	4.5	86.1	54.2	34.7	10.4	6.2	2.5
Baccalaureate Colleges	11.2	8.7	6.2	80.1	55.7	31.4	7.7	5.7	3.7
Schools of Art, Music, & Design*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grand Total									
State Range	16.2	8.4	0.0	86.1	47.8	0.0	173.8	15.5	0.0
Typical Standard	-	35.0	-	-	65.0	-	-	0.8	-
Class Laboratories									
Research Universities I	6.2	3.1	0.0	69.3	34.7	0.0	8.8	4.4	0.0
Doctoral Universities I & II	13.0	7.9	3.5	73.4	65.1	52.3	21.3	11.5	4.1
Master's (Comprehensive) Universities I	10.9	7.0	2.7	68.9	55.4	43.3	25.0	13.2	6.7
Baccalaureate Colleges	8.7	6.4	4.1	73.5	57.6	41.7	14.5	10.5	6.4
Schools of Art, Music, & Design*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grand Total									
State Range	13.0	6.3	0.0	73.5	52.7	0.0	25.0	10.4	0.0
Typical Standard	-	20.0	-	-	75.0	-	-	7.2	-

*Only one institution in this category

This page intentionally left blank.

DRAFT

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

This page intentionally left blank.

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 the 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.

DRAFT

Table 12. Summary of FTE Enrollment

Public Institutions	2020	2019	2018	2017	2016
Research Universities I	55,031	55,225	59,872	58,776	57,752
Doctoral Universities I and II	95,957	95,614	82,637	82,278	80,655
Master's (Comprehensive) Universities & Colleges I	55,275	54,176	68,341	66,317	65,162
Baccalaureate Colleges: Arts & Sciences Focus	3,105	3,295	3,489	3,553	3,517
Baccalaureate Colleges: Diverse Fields	1,822	1,663	1,554	1,298	1,292
Schools of Art, Music, & Design	1,059	1,075	1,040	998	1,026
Grand Total	212,249	211,048	216,933	213,220	209,404

Summary of FTE Enrollment in UNC Institutions, 2016-2020

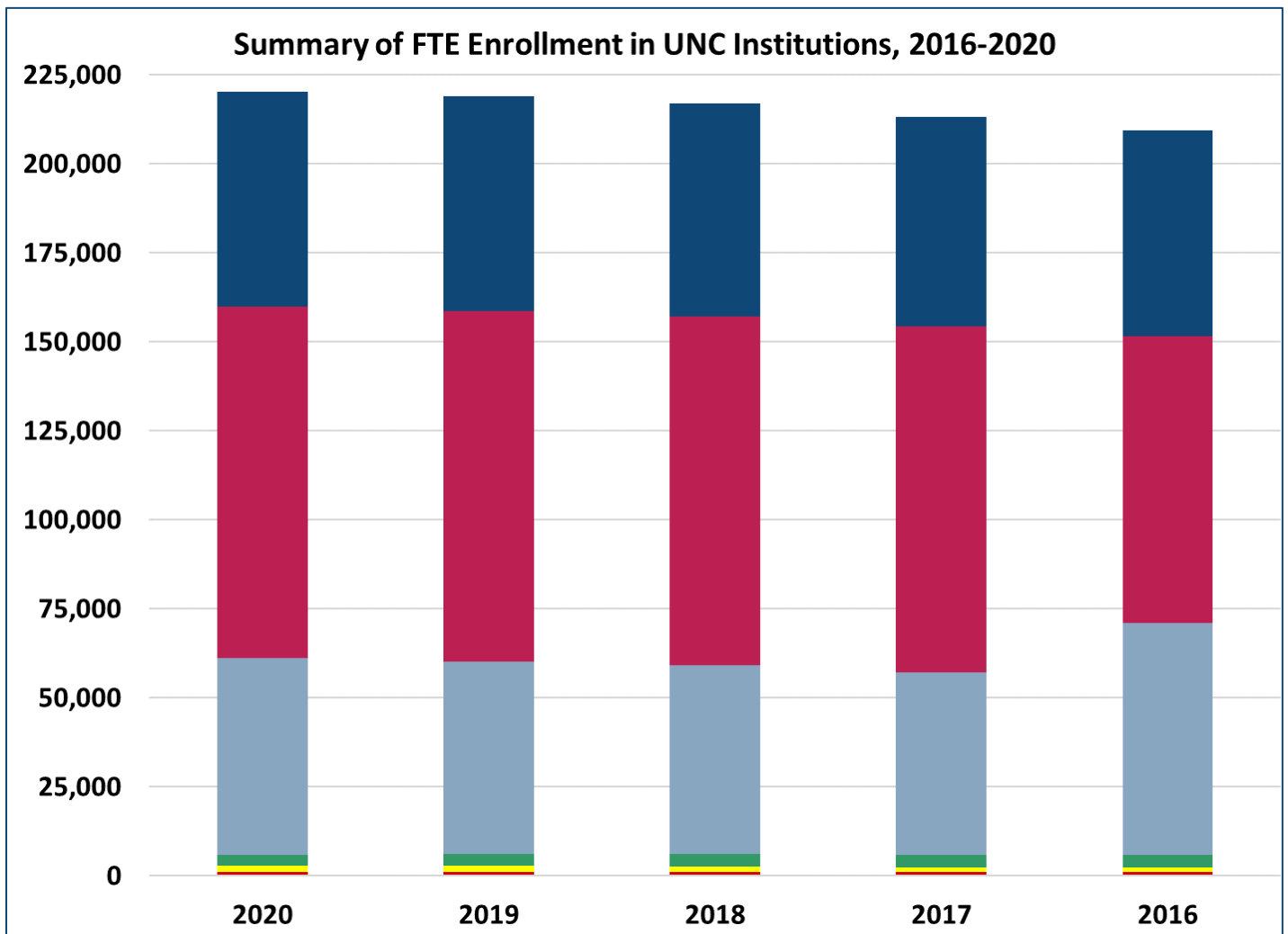


Table 12a. FTE Enrollments by Institution

Institution	2020		2019	2018	2017	2016
	On-Campus	Total	On-Campus	On-Campus	On-Campus	On-Campus
Research Universities I						
NC State	31,872	-	32,121	31,513	30,552	29,838
NC State Veterinary Med	399	-	398	400	402	393
UNC-Chapel Hill	23,159	-	23,104	23,326	23,207	22,971
UNC-Chapel Hill Hlth Aff.	4,859	-	4,752	4,633	4,615	4,550
Subtotal	60,289	-	60,375	59,872	58,776	57,752
Doctoral Universities I & II						
East Carolina	22,786	-	22,701	22,958	23,483	23,364
East Carolina Hlth Aff.	2,771	-	2,744	2,754	2,747	2,674
N.C. A&T	11,897	-	11,765	11,346	11,112	10,457
UNC Charlotte	27,579	-	27,167	27,340	26,783	26,275
UNC Greensboro	17,764	-	18,184	18,239	18,153	17,885
UNC Wilmington	15,931	-	15,797	15,157	15,065	14,463
Subtotal	98,728	-	98,358	97,794	97,343	95,118
Master's (Comprehensive) Universities & Colleges I						
Appalachian	19,188	-	18,572	18,394	18,099	17,571
Fayetteville	5,626	-	5,567	5,431	5,345	5,431
NCCU	7,343	-	7,291	7,502	7,471	7,492
UNC Pembroke	7,211	-	6,856	6,354	5,555	5,584
Western Carolina	11,104	-	11,103	10,660	10,031	9,815
Winston-Salem	4,803	-	4,787	4,843	4,751	4,806
Subtotal	55,275	-	54,176	53,184	51,252	50,699
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	3,105	-	3,295	3,489	3,553	3,517
Subtotal	3,105	-	3,295	3,489	3,553	3,517
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	1,822	-	1,663	1,554	1,298	1,292
Subtotal	1,822	-	1,663	1,554	1,298	1,292
Schools of Art, Music, & Design						
UNC School of the Arts	1,059	(278)	1,075	1,040	998	1,026
Subtotal	1,059	(278)	1,075	1,040	998	1,026
Grand Total	220,278	(278)	218,942	216,933	213,220	209,404

2020 UNCSA FTE enrollment including high school students is 1,337.

This page intentionally left blank.

DRAFT

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

DRAFT

This page intentionally left blank.

DRAFT

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	384,144 GSF
N. C. State University	2,404,414 GSF
N.C. State Veterinary Medicine	186,098 GSF
UNC Asheville	136,854 GSF
UNC-Chapel Hill - Academic Affairs	1,707,986 GSF
UNC-Chapel Hill - Health Affairs	1,245,597 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	61.8%
N.C. State University	65.3%
N.C. State Veterinary Medicine	64.3%
UNC Asheville	62.3%
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 %				
			2020	2019	2018	2017	2016
Research Universities I							
NC State	16,735,185	9,353,620	55.9	55.6	55.4	55.5	55.5
NC State Veterinary Med	908,277	464,069	51.1	51.1	50.5	50.3	49.7
UNC-Chapel Hill	13,445,549	7,431,949	55.3	54.9	55.1	55.2	54.9
UNC-Chapel Hill Hlth Aff.	6,902,797	2,568,650	37.2	38.0	38.1	38.3	40.1
Subtotal	37,991,808	19,818,288	52.2	52.0	52.0	52.1	52.4
Doctoral Universities I & II							
East Carolina	5,839,733	3,478,978	59.6	59.5	64.5	65.2	66.3
East Carolina Hlth Aff.	1,915,666	1,086,016	56.7	56.7	61.4	61.3	58.1
N.C. A&T	3,404,024	2,359,182	69.3	69.3	69.2	69.8	69.7
UNC Charlotte	9,895,743	4,083,322	41.3	40.8	41.7	42.0	40.5
UNC Greensboro	6,669,240	3,388,107	50.8	50.9	50.7	50.7	49.4
UNC Wilmington	4,769,221	2,760,536	57.9	63.2	63.4	62.5	58.5
Subtotal	32,493,627	17,156,141	52.8	53.3	54.7	54.6	53.5
Master's (Comprehensive) Universities & Colleges I							
Appalachian	5,084,379	2,902,433	57.1	56.7	56.4	56.5	56.6
Fayetteville	1,472,197	919,639	62.5	62.5	62.5	61.1	61.1
NCCU	2,194,489	1,404,771	64.0	64.0	64.7	64.8	64.8
UNC Pembroke	1,803,081	1,170,530	64.9	67.0	65.9	65.9	66.0
Western Carolina	3,480,410	2,205,786	63.4	63.2	63.4	63.8	64.1
Winston-Salem	2,003,023	1,284,309	64.1	64.8	64.6	64.7	64.7
Subtotal	16,037,579	9,887,468	61.7	61.8	61.7	61.7	61.9
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	1,643,696	939,281	57.1	57.7	57.7	57.4	57.7
Subtotal	1,643,696	939,281	57.1	57.7	57.7	57.4	57.7
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	1,301,088	864,764	66.5	66.5	66.5	66.5	67.2
Subtotal	1,301,088	864,764	66.5	66.5	66.5	66.5	67.2
Schools of Art, Music, & Design							
UNC School of the Arts	1,212,554	843,788	69.6	67.7	67.7	67.4	68.7
Subtotal	1,212,554	843,788	69.6	67.7	67.7	67.4	68.7
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	54.3	54.3	54.3	54.3	54.3
Grand Total	93,179,601	50,868,033	54.6	54.7	55.1	62.0	55.0

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 are 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.

DRAFT

Table 14. Percentage Distribution of Assignable Area by Summary Programs

Institution	Assignable Sq. Ft.	Instruction 10	Research 20	Public Service 30	Academic Support 40
Research Universities I					
NC State	9,353,620	18.9	27.7	4.8	6.3
NC State Veterinary Med	464,069	21.1	34.7	28.5	7.0
UNC-Chapel Hill	7,431,949	23.0	7.5	0.6	10.9
UNC-Chapel Hill Hlth Aff.	2,568,650	22.6	49.8	10.9	7.9
Subtotal	19,818,288	21.0	23.2	4.6	8.3
Doctoral Universities I & II					
East Carolina	3,478,978	29.0	3.1	0.3	6.2
East Carolina Hlth Aff.	1,086,016	20.5	17.6	47.7	9.0
N.C. A&T	2,359,182	31.0	7.6	1.0	12.9
UNC Charlotte	4,083,322	21.4	7.1	1.5	10.3
UNC Greensboro	3,388,107	20.7	5.5	0.2	8.7
UNC Wilmington	2,760,536	21.9	4.5	1.0	9.0
Subtotal	17,156,141	24.2	6.3	3.8	9.2
Master's (Comprehensive) Universities & Colleges I					
Appalachian	2,902,433	30.3	0.6	2.6	5.3
Fayetteville	919,639	28.1	1.0	0.1	10.5
NCCU	1,404,771	37.8	2.3	0.6	7.9
UNC Pembroke	1,170,530	26.8	0.0	0.0	10.1
Western Carolina	2,205,786	21.6	1.4	0.2	9.1
Winston-Salem	1,284,309	24.1	2.6	0.3	7.5
Subtotal	9,887,468	28.0	1.3	1.0	7.9
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	939,281	22.0	1.4	1.1	8.8
Subtotal	939,281	22.0	1.4	1.1	8.8
Baccalaureate Colleges: Diverse Fields					
Elizabeth City	864,764	30.4	0.3	2.2	5.3
Subtotal	864,764	30.4	0.3	2.2	5.3
Schools of Art, Music, & Design					
UNC School of the Arts	843,788	39.1	0.0	3.0	8.4
Subtotal	843,788	39.1	0.0	3.0	8.4
Teaching Hospitals					
UNC Hospitals	1,358,303	1.0	0.5	81.8	0.0
Subtotal	1,358,303	1.0	0.5	81.8	0.0
Grand Total	50,868,033	23.5	11.5	5.5	8.3

**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
Research Universities I					
NC State	31.2	5.4	1.5	1.5	2.8
NC State Veterinary Med	1.4	1.3	4.4	0.7	1.1
UNC-Chapel Hill	45.6	5.8	2.9	0.8	2.9
UNC-Chapel Hill Hlth Aff.	0.3	2.7	0.2	2.1	3.5
Subtotal	31.9	5.1	1.9	1.3	2.9
Doctoral Universities I & II					
East Carolina	45.9	7.3	2.5	1.5	4.3
East Carolina Hlth Aff.	0.1	2.7	2.3	0.0	0.0
N.C. A&T	33.6	11.3	1.3	0.9	0.3
UNC Charlotte	50.9	4.6	1.6	0.0	2.5
UNC Greensboro	53.2	7.7	2.3	1.5	0.2
UNC Wilmington	56.0	4.5	0.7	1.9	0.4
Subtotal	45.6	6.6	1.8	1.0	1.6
Master's (Comprehensive) Universities & Colleges I					
Appalachian	52.1	4.7	1.6	0.3	2.4
Fayetteville	41.1	4.6	1.4	1.3	11.9
NCCU	37.5	6.3	0.6	1.3	5.7
UNC Pembroke	51.7	9.4	1.7	0.0	0.2
Western Carolina	55.0	6.7	2.7	1.3	1.9
Winston-Salem	54.0	6.9	1.7	0.7	2.1
Subtotal	49.9	6.2	1.7	0.8	3.3
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	54.5	4.9	4.5	1.2	1.4
Subtotal	54.5	4.9	4.5	1.2	1.4
Baccalaureate Colleges: Diverse Fields					
Elizabeth City	46.1	5.1	0.9	0.0	9.6
Subtotal	46.1	5.1	0.9	0.0	9.6
Schools of Art, Music, & Design					
UNC School of the Arts	30.1	11.1	2.6	0.3	5.4
Subtotal	30.1	11.1	2.6	0.3	5.4
Teaching Hospitals					
UNC Hospitals	0.0	10.8	1.8	1.0	3.1
Subtotal	0.0	10.8	1.8	1.0	3.1
Grand Total	39.5	6.1	1.9	1.1	2.6

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.

DRAFT

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
Research Universities I							
NC State	18.7	0.0	0.0	0.2	0.0	0.0	0.0
NC State Veterinary Med	21.1	0.0	0.0	0.0	0.0	0.0	0.0
UNC-Chapel Hill	22.2	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	20.6	0.0	0.0	0.3	0.1	0.0	0.0
Doctoral Universities I & II							
East Carolina	29.0	0.0	0.0	0.0	0.0	0.0	0.0
East Carolina Hlth Aff.	20.4	0.0	0.0	0.0	0.1	0.0	0.0
N.C. A&T	31.0	0.0	0.0	0.0	0.0	0.0	0.0
UNC Charlotte	21.3	0.0	0.0	0.1	0.0	0.0	0.0
UNC Greensboro	20.7	0.0	0.0	0.0	0.0	0.0	0.0
UNC Wilmington	21.9	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	24.1	0.0	0.0	0.0	0.0	0.0	0.0
Master's (Comprehensive) Universities & Colleges I							
Appalachian	30.3	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	37.8	0.0	0.0	0.0	0.0	0.0	0.0
UNC Pembroke	25.7	0.0	0.5	0.6	0.1	0.0	0.0
Western Carolina	21.3	0.0	0.1	0.1	0.0	0.0	0.0
Winston-Salem	23.9	0.0	0.2	0.0	0.0	0.0	0.0
Subtotal	27.7	0.0	0.1	0.1	0.0	0.0	0.0
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	21.6	0.0	0.0	0.3	0.0	0.0	0.0
Subtotal	21.6	0.0	0.0	0.3	0.0	0.0	0.0
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	30.2	0.0	0.0	0.2	0.0	0.0	0.0
Subtotal	30.2	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	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	0.5	0.0	0.0	0.5	0.0	0.0	0.0
Grand Total	23.1	0.0	0.0	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	Broad-casting Services 35
Research Universities I								
NC State	0.0	7.3	20.3	0.0	0.0	2.0	2.8	0.0
NC State Veterinary Med	0.0	0.0	34.7	16.8	11.6	0.0	0.1	0.0
UNC-Chapel Hill	0.0	0.6	6.9	0.0	0.1	0.4	0.0	0.1
UNC-Chapel Hill Hlth Aff.	0.0	1.8	47.9	4.9	5.5	0.5	0.0	0.0
Subtotal	0.0	3.9	19.2	1.0	1.0	1.1	1.3	0.0
Doctoral Universities I & II								
East Carolina	0.0	1.0	2.1	0.0	0.1	0.1	0.0	0.1
East Carolina Hlth Aff.	0.0	0.6	17.0	29.6	17.5	0.6	0.0	0.0
N.C. A&T	0.0	2.3	5.3	0.0	0.0	0.3	0.7	0.1
UNC Charlotte	0.0	2.5	4.6	0.0	0.0	1.5	0.0	0.0
UNC Greensboro	0.0	0.0	5.5	0.1	0.0	0.1	0.0	0.0
UNC Wilmington	0.0	4.1	0.3	0.0	0.2	0.8	0.0	0.0
Subtotal	0.0	1.8	4.5	1.9	1.2	0.6	0.1	0.0
Master's (Comprehensive) Universities & Colleges I								
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
Western Carolina	0.1	0.7	0.7	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	0.0	0.5	0.7	0.1	0.0	0.8	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	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	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	0.0	0.0	0.0	0.0	3.0	0.0	0.0
Subtotal	0.0	0.0	0.0	0.0	0.0	3.0	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	0.0	0.0	0.5	33.4	48.4	0.0	0.0	0.0
Grand Total	0.0	2.3	9.2	2.0	2.1	0.9	0.6	0.0

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
Research Universities I								
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	8.4	0.5	0.1	0.4	0.1	1.4	0.0	0.2
UNC-Chapel Hill Hlth Aff.	2.2	0.0	0.0	0.1	1.2	4.4	0.0	0.0
Subtotal	5.1	0.3	0.2	0.4	0.2	1.9	0.0	0.1
Doctoral Universities I & II								
East Carolina	5.0	0.2	0.1	0.1	0.2	0.6	0.0	0.0
East Carolina Hlth Aff.	6.4	0.3	0.2	0.0	0.0	2.0	0.0	0.0
N.C. A&T	4.9	0.7	0.1	0.2	3.7	3.3	0.0	0.0
UNC Charlotte	5.1	0.2	0.3	0.5	0.0	4.3	0.0	0.0
UNC Greensboro	3.6	0.8	0.4	0.1	0.5	3.4	0.0	0.0
UNC Wilmington	4.0	0.2	0.0	0.4	0.0	4.3	0.0	0.0
Subtotal	4.7	0.4	0.2	0.2	0.6	3.1	0.0	0.0
Master's (Comprehensive) Universities & Colleges I								
Appalachian	3.6	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	3.0	0.6	0.6	0.3	0.8	4.8	0.0	0.0
Western Carolina	5.4	0.8	0.1	0.1	0.6	2.0	0.0	0.2
Winston-Salem	3.4	0.9	0.2	0.4	0.1	2.5	0.0	0.0
Subtotal	4.4	0.4	0.2	0.3	0.4	2.1	0.0	0.1
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	6.7	0.0	0.6	0.9	0.5	0.2	0.0	0.1
Subtotal	6.7	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	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	6.6	0.1	0.0	0.0	0.1	1.5	0.0	0.0
Subtotal	6.6	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grand Total	4.7	0.3	0.2	0.3	0.4	2.2	0.0	0.1

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
Research Universities I						
NC State	0.3	1.9	0.3	0.1	22.9	5.1
NC State Veterinary Med	0.0	0.0	0.0	0.0	1.4	0.0
UNC-Chapel Hill	0.6	2.9	0.3	0.1	31.2	10.0
UNC-Chapel Hill Hlth Aff.	0.1	0.0	0.0	0.0	0.2	0.0
Subtotal	0.4	2.0	0.2	0.1	22.6	6.2
Doctoral Universities I & II						
East Carolina	1.6	8.1	0.1	0.1	30.3	5.2
East Carolina Hlth Aff.	0.0	0.0	0.0	0.0	0.1	0.0
N.C. A&T	0.3	4.3	0.5	0.2	24.2	3.4
UNC Charlotte	0.6	8.8	0.5	0.1	38.1	2.5
UNC Greensboro	0.1	5.2	0.3	0.1	44.2	2.7
UNC Wilmington	0.7	7.0	0.2	0.0	43.2	4.4
Subtotal	0.6	6.5	0.3	0.1	34.2	3.4
Master's (Comprehensive) Universities & Colleges I						
Appalachian	0.1	10.7	0.3	0.2	36.2	4.1
Fayetteville	0.7	6.8	0.5	0.0	29.3	3.3
NCCU	0.6	3.6	0.8	0.3	29.1	2.8
UNC Pembroke	0.6	4.1	0.2	0.2	43.6	2.5
Western Carolina	0.3	9.3	0.6	0.1	41.5	3.0
Winston-Salem	1.4	7.6	0.3	0.1	41.1	3.1
Subtotal	0.5	7.8	0.5	0.2	37.2	3.3
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.1	8.7	0.3	0.2	37.5	7.1
Subtotal	0.1	8.7	0.3	0.2	37.5	7.1
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	0.5	5.2	0.5	0.2	37.7	1.7
Subtotal	0.5	5.2	0.5	0.2	37.7	1.7
Schools of Art, Music, & Design						
UNC School of the Arts	0.0	8.7	0.2	0.3	20.4	0.0
Subtotal	0.0	8.7	0.2	0.3	20.4	0.0
Teaching Hospitals						
UNC Hospitals	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	0.0	0.0	0.0	0.0	0.0	0.0
Grand Total	0.5	4.9	0.3	0.1	29.2	4.3

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
Research Universities I						
NC State	0.5	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	0.4	0.1	0.4	0.2	0.6	0.5
Doctoral Universities I & II						
East Carolina	0.4	0.3	1.4	0.1	0.0	0.4
East Carolina Hlth Aff.	0.0	0.0	0.0	0.1	1.8	0.5
N.C. A&T	0.8	0.3	0.8	0.0	0.2	0.0
UNC Charlotte	0.5	0.2	1.2	0.1	0.1	0.0
UNC Greensboro	0.7	0.1	0.8	0.0	0.7	0.5
UNC Wilmington	0.5	0.3	0.2	0.1	0.1	0.0
Subtotal	0.5	0.2	0.9	0.1	0.3	0.2
Master's (Comprehensive) Universities & Colleges I						
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	0.2	0.1
Western Carolina	0.3	2.1	0.4	0.0	0.1	0.1
Winston-Salem	0.4	0.9	0.3	0.3	0.1	0.1
Subtotal	0.4	0.8	0.5	0.1	0.1	0.1
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.7	0.0	2.1	0.2	2.1	0.0
Subtotal	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	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	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	0.0	0.0	1.4	0.5	0.0	0.0
Grand Total	0.4	0.3	0.7	0.1	0.4	0.3

This page intentionally left blank.

DRAFT

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
Research Universities I								
NC State	0.4	0.2	2.1	1.0	0.8	0.7	0.1	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	0.4	0.6	2.1	1.3	0.3	0.9	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	0.3	0.4	2.0	1.0	0.5	0.7	0.1	0.0
Doctoral Universities I & II								
East Carolina	1.5	2.2	1.8	0.8	0.5	0.3	0.1	0.1
East Carolina Hlth Aff.	0.0	1.6	0.1	0.6	0.0	0.3	0.0	0.1
N.C. A&T	0.5	0.5	8.5	0.8	0.4	0.4	0.2	0.1
UNC Charlotte	0.5	0.5	1.4	0.5	0.3	1.1	0.3	0.1
UNC Greensboro	0.4	0.3	4.0	1.0	0.9	0.8	0.3	0.1
UNC Wilmington	0.6	0.2	2.1	0.6	0.1	0.3	0.3	0.3
Subtotal	0.7	0.8	3.0	0.7	0.4	0.6	0.2	0.1
Master's (Comprehensive) Universities & Colleges I								
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	2.8	0.7	0.8	0.4	0.3	0.1
UNC Pembroke	1.4	0.5	4.0	1.0	1.0	0.8	0.4	0.2
Western Carolina	0.5	0.4	0.7	0.8	2.9	0.8	0.3	0.3
Winston-Salem	0.7	1.0	2.3	0.5	1.7	0.5	0.2	0.1
Subtotal	0.7	0.5	2.1	0.6	1.3	0.6	0.3	0.2
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	1.3	0.5	0.8	0.0	0.9	0.8	0.5	0.2
Subtotal	1.3	0.5	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	1.2	0.2	0.2	0.2
Subtotal	0.7	0.5	1.3	0.9	1.2	0.2	0.2	0.2
Schools of Art, Music, & Design								
UNC School of the Arts	0.9	0.2	6.2	0.4	1.7	1.2	0.3	0.3
Subtotal	0.9	0.2	6.2	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	0.6	3.7	4.3	1.6	0.5	0.1	0.0	0.0
Grand Total	0.5	0.7	2.5	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
Research Universities I				
NC State	0.0	1.5	0.7	2.2
NC State Veterinary Med	0.0	0.7	1.1	0.0
UNC-Chapel Hill	0.3	0.5	2.3	0.6
UNC-Chapel Hill Hlth Aff.	1.0	1.1	3.2	0.3
Subtotal	0.3	1.0	1.6	1.3
Doctoral Universities I & II				
East Carolina	0.0	1.5	0.1	4.2
East Carolina Hlth Aff.	0.0	0.0	0.0	0.0
N.C. A&T	0.4	0.5	0.1	0.2
UNC Charlotte	0.0	0.0	0.6	1.9
UNC Greensboro	0.0	1.5	0.0	0.1
UNC Wilmington	0.5	1.4	0.1	0.3
Subtotal	0.1	0.9	0.2	1.4
Master's (Comprehensive) Universities & Colleges I				
Appalachian	0.1	0.2	0.0	2.4
Fayetteville	0.3	1.0	4.6	7.3
NCCU	0.1	1.2	1.1	4.6
UNC Pembroke	0.0	0.0	0.2	0.0
Western Carolina	0.4	0.9	0.2	1.7
Winston-Salem	0.5	0.2	1.7	0.4
Subtotal	0.2	0.6	0.9	2.5
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0.0	1.2	0.1	1.3
Subtotal	0.0	1.2	0.1	1.3
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	0.0	0.0	8.0	1.7
Subtotal	0.0	0.0	8.0	1.7
Schools of Art, Music, & Design				
UNC School of the Arts	0.3	0.0	3.1	2.3
Subtotal	0.3	0.0	3.1	2.3
Teaching Hospitals				
UNC Hospitals	0.0	1.0	0.7	2.3
Subtotal	0.0	1.0	0.7	2.3
Grand Total	0.2	0.9	1.1	1.6

This page intentionally left blank.

DRAFT

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 data from the 1974 HEGIS facilities survey, conducted by the National Center for Education Statistics, serve as the basis for norms. The following chart reports these norms and summarizes the corresponding data from Table 15.

Room Use Codes	HEGIS	All UNC
	Norm (%)	Institutions 2020 (%)
Classroom (Series 100)	8.0	4.7
Laboratory (Series 200)	14.5	12.8
Office (Series 300)	13.0	22.0
Study (Series 400)	6.8	5.2
Special Use (Series 500)	8.9	11.0
General Use (Series 600)	12.0	10.6
Support (Series 700)	6.5	4.5
Health Care (Series 800)	1.4	2.8
Residential (Series 900)	26.7	24.2
Unclassified (Series 000)	2.2	2.2

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	%
		Research Universities I							
NC State	9,353,620	259,441	2.8	1,655,564	17.7	1,957,510	20.9	357,253	3.8
NC State Veterinary Med	464,069	7,757	1.7	102,237	22.0	97,009	20.9	10,739	2.3
UNC-Chapel Hill	7,431,949	268,744	3.6	611,065	8.2	1,696,392	22.8	633,657	8.5
UNC-Chapel Hill Hlth Aff.	2,568,650	89,030	3.5	815,653	31.8	1,074,769	41.8	51,551	2.0
Subtotal	19,818,288	624,972	3.2	3,184,519	16.1	4,825,680	24.3	1,053,200	5.3
Doctoral Universities I & II									
East Carolina	3,478,978	171,708	4.9	376,629	10.8	799,651	23.0	193,088	5.6
East Carolina Hlth Aff.	1,086,016	42,820	3.9	151,503	14.0	423,904	39.0	74,783	6.9
N.C. A&T	2,359,182	143,568	6.1	362,954	15.4	466,107	19.8	137,842	5.8
UNC Charlotte	4,083,322	249,023	6.1	536,632	13.1	945,862	23.2	229,639	5.6
UNC Greensboro	3,388,107	143,597	4.2	372,297	11.0	627,290	18.5	134,003	4.0
UNC Wilmington	2,760,536	182,664	6.6	285,857	10.4	501,799	18.2	142,074	5.1
Subtotal	17,156,141	933,380	5.4	2,085,872	12.2	3,764,613	21.9	911,429	5.3
Master's (Comprehensive) Universities & Colleges I									
Appalachian	2,902,433	188,726	6.5	281,177	9.7	576,766	19.9	104,102	3.6
Fayetteville	919,639	54,864	6.0	60,047	6.5	202,077	22.0	68,222	7.4
NCCU	1,404,771	125,660	8.9	146,171	10.4	309,940	22.1	103,940	7.4
UNC Pembroke	1,170,530	109,971	9.4	68,425	5.8	218,096	18.6	40,158	3.4
Western Carolina	2,205,786	96,739	4.4	192,521	8.7	330,532	15.0	135,227	6.1
Winston-Salem	1,284,309	86,812	6.8	115,958	9.0	231,021	18.0	58,950	4.6
Subtotal	9,887,468	662,772	6.7	864,299	8.7	1,868,432	18.9	510,599	5.2
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	939,281	44,966	4.8	99,628	10.6	154,153	16.4	66,983	7.1
Subtotal	939,281	44,966	4.8	99,628	10.6	154,153	16.4	66,983	7.1
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	864,764	70,711	8.2	66,849	7.7	117,493	13.6	38,667	4.5
Subtotal	864,764	70,711	8.2	66,849	7.7	117,493	13.6	38,667	4.5
Schools of Art, Music, & Design									
UNC School of the Arts	843,788	31,981	3.8	203,907	24.2	111,407	13.2	47,673	5.6
Subtotal	843,788	31,981	3.8	203,907	24.2	111,407	13.2	47,673	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	0.7	10,829	0.8	371,821	27.4	3,244	0.2
Grand Total	50,868,033	2,378,708	4.7	6,515,903	12.8	11,213,599	22.0	2,631,795	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	%
Research Universities I								
NC State	1,735,983	18.6	784,782	8.4	437,089	4.7	29,709	0.3
NC State Veterinary Med	78,917	17.0	13,240	2.9	27,844	6.0	121,397	26.2
UNC-Chapel Hill	950,831	12.8	856,288	11.5	453,648	6.1	23,455	0.3
UNC-Chapel Hill Hlth Aff.	203,311	7.9	92,999	3.6	33,569	1.3	175,256	6.8
Subtotal	2,969,042	15.0	1,747,309	8.8	952,150	4.8	349,817	1.8
Doctoral Universities I & II								
East Carolina	366,752	10.5	395,537	11.4	176,162	5.1	7,454	0.2
East Carolina Hlth Aff.	113,625	10.5	25,348	2.3	25,057	2.3	228,976	21.1
N.C. A&T	289,560	12.3	300,680	12.7	213,474	9.0	12,809	0.5
UNC Charlotte	222,122	5.4	472,722	11.6	65,008	1.6	8,696	0.2
UNC Greensboro	123,695	3.7	558,932	16.5	273,689	8.1	13,242	0.4
UNC Wilmington	245,628	8.9	242,005	8.8	80,869	2.9	14,137	0.5
Subtotal	1,361,382	7.9	1,995,224	11.6	834,259	4.9	285,314	1.7
Master's (Comprehensive) Universities & Colleges I								
Appalachian	386,659	13.3	373,012	12.9	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	126,492	9.0	159,813	11.4	25,663	1.8	2,805	0.2
UNC Pembroke	89,672	7.7	123,536	10.6	55,662	4.8	3,497	0.3
Western Carolina	209,981	9.5	313,046	14.2	63,770	2.9	3,246	0.1
Winston-Salem	107,068	8.3	151,950	11.8	43,083	3.4	4,228	0.3
Subtotal	992,533	10.0	1,234,057	12.5	291,658	2.9	27,828	0.3
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	107,638	11.5	110,238	11.7	43,026	4.6	3,088	0.3
Subtotal	107,638	11.5	110,238	11.7	43,026	4.6	3,088	0.3
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	91,449	10.6	98,473	11.4	16,713	1.9	1,574	0.2
Subtotal	91,449	10.6	98,473	11.4	16,713	1.9	1,574	0.2
Schools of Art, Music, & Design								
UNC School of the Arts	23,768	2.8	135,996	16.1	82,629	9.8	3,073	0.4
Subtotal	23,768	2.8	135,996	16.1	82,629	9.8	3,073	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	2.4	62,294	4.6	85,493	6.3	736,525	54.2
Grand Total	5,578,305	11.0	5,383,591	10.6	2,305,928	4.5	1,407,219	2.8

Table 15. (Continued) Assignable Area by Room Codes

Institution	Residential Facilities 900		Unclassified Facilities 000	
	ASF	%	ASF	%
Research Universities I				
NC State	1,877,995	20.1	258,294	2.8
NC State Veterinary Med	0	0.0	4,929	1.1
UNC-Chapel Hill	1,830,777	24.6	107,092	1.4
UNC-Chapel Hill Hlth Aff.	431	0.0	32,081	1.2
Subtotal	3,709,203	18.7	402,396	2.0
Doctoral Universities I & II				
East Carolina	844,622	24.3	147,375	4.2
East Carolina Hlth Aff.	0	0.0	0	0.0
N.C. A&T	425,339	18.0	6,849	0.3
UNC Charlotte	1,258,957	30.8	94,661	2.3
UNC Greensboro	1,137,190	33.6	4,172	0.1
UNC Wilmington	1,053,623	38.2	11,880	0.4
Subtotal	4,719,731	27.5	264,937	1.5
Master's (Comprehensive) Universities & Colleges I				
Appalachian	827,592	28.5	68,599	2.4
Fayetteville	220,894	24.0	106,442	11.6
NCCU	324,984	23.1	79,303	5.6
UNC Pembroke	461,513	39.4	0	0.0
Western Carolina	818,267	37.1	42,457	1.9
Winston-Salem	469,099	36.5	16,140	1.3
Subtotal	3,122,349	31.6	312,941	3.2
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	296,237	31.5	13,324	1.4
Subtotal	296,237	31.5	13,324	1.4
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	303,357	35.1	59,478	6.9
Subtotal	303,357	35.1	59,478	6.9
Schools of Art, Music, & Design				
UNC School of the Arts	159,301	18.9	44,053	5.2
Subtotal	159,301	18.9	44,053	5.2
Teaching Hospitals				
UNC Hospitals	3,785	0.3	41,893	3.1
Subtotal	3,785	0.3	41,893	3.1
Grand Total	12,313,963	24.2	1,139,022	2.2

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

DRAFT

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				
					2020	2019	2018	2017	2016
Research Universities I									
NC State	230	14,347	62	247,459	17	17	17	17	17
NC State Veterinary Med	5	401	80	7,343	18	18	18	18	18
UNC-Chapel Hill	276	6,575	24	255,815	39	18	18	17	17
UNC-Chapel Hill Hlth Aff.	97	4,384	45	86,664	20	18	18	18	18
Subtotal	608	25,707	42	597,281	23	18	18	17	17
Doctoral Universities I & II									
East Carolina	180	9,396	52	164,483	18	17	18	18	17
East Carolina Hlth Aff.	41	2,138	52	41,543	19	19	19	19	20
N.C. A&T	152	6,997	46	137,354	20	20	20	20	20
UNC Charlotte	233	11,245	48	241,407	21	18	18	19	18
UNC Greensboro	135	3,222	24	137,336	43	17	17	17	17
UNC Wilmington	163	3,623	22	158,192	44	21	21	20	26
Subtotal	904	36,621	41	880,315	24	18	18	18	18
Master's (Comprehensive) Universities & Colleges I									
Appalachian	214	3,515	16	181,733	52	20	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	129	4,963	38	106,450	21	22	23	23	23
Western Carolina	104	1,709	16	90,425	53	20	20	20	21
Winston-Salem	93	4,002	43	83,853	21	20	20	20	20
Subtotal	755	23,102	31	632,320	27	20	20	20	21
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	56	1,031	18	43,601	42	22	22	21	21
Subtotal	56	1,031	18	43,601	42	22	22	21	21
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	81	2,998	37	64,221	21	21	21	21	21
Subtotal	81	2,998	37	64,221	21	21	21	21	21
Schools of Art, Music, & Design									
UNC School of the Arts	52	1,193	23	31,564	26	26	26	26	26
Subtotal	52	1,193	23	31,564	26	26	26	26	26
Grand Total	2,456	90,652	37	2,249,302	25	19	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 do 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	Ave. Stu Sta Per Room	Assignable Sq. Ft.	Sq. Ft. Per Student Station				
					2020	2019	2018	2017	2016
Research Universities I									
NC State	234	6,483	28	263,764	41	40	41	42	41
NC State Veterinary Med	8	236	30	11,184	47	47	48	48	48
UNC-Chapel Hill	95	2,675	28	89,387	33	34	34	33	33
UNC-Chapel Hill Hlth Aff.	67	835	12	38,194	46	41	41	40	40
Subtotal	404	10,229	25	402,529	39	39	39	39	39
Doctoral Universities I & II									
East Carolina	169	4,531	27	162,533	36	36	36	36	36
East Carolina Hlth Aff.	-	-	-	-	-	-	43	42	42
N.C. A&T	99	2,370	24	95,207	40	40	40	40	40
UNC Charlotte	143	2,746	19	167,594	61	41	38	41	40
UNC Greensboro	99	1,886	19	134,161	71	49	38	48	48
UNC Wilmington	92	1,413	15	90,306	64	37	39	40	38
Subtotal	602	12,946	22	649,801	50	40	38	41	40
Master's (Comprehensive) Universities & Colleges I									
Appalachian	137	2,010	15	135,964	68	45	44	44	44
Fayetteville	34	940	28	35,737	38	38	37	37	37
NCCU	65	1,387	21	59,580	43	43	43	43	43
UNC Pembroke	44	1,426	32	42,096	30	40	42	42	42
Western Carolina	86	1,750	20	96,744	55	42	43	44	44
Winston-Salem	79	1,581	20	70,691	45	37	36	36	36
Subtotal	445	9,094	20	440,812	48	42	41	41	41
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	20	348	17	16,776	48	52	52	55	41
Subtotal	20	348	17	16,776	48	52	52	55	41
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	64	1,416	22	49,386	35	35	35	35	34
Subtotal	64	1,416	22	49,386	35	35	35	35	34
Schools of Art, Music, & Design									
UNC School of the Arts	76	1,938	26	84,924	44	44	44	43	43
Subtotal	76	1,938	26	84,924	44	44	44	43	43
Grand Total	1,611	35,971	22	1,644,228	46	40	40	41	40

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

DRAFT

This page intentionally left blank.

DRAFT

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	%	GSF	%	GSF	%
Research Universities I						
NC State ***	13,028,715	77.9	3,016,718	18.0	0	-
NC State Veterinary Med	657,639	72.4	229,495	25.3	0	-
UNC-Chapel Hill ***	13,189,575	98.1	0	-	68,760	0.5
UNC-Chapel Hill Health Aff.**	5,946,215	86.1	537,875	7.8	128,275	1.9
Subtotal	32,822,144	86.4	3,784,088	10.0	197,035	0.5
Doctoral Universities I & II						
East Carolina	5,629,500	96.4	0	-	0	-
East Carolina Hlth Aff.	1,590,604	83.0	0	-	0	-
N.C. A&T	3,257,680	95.7	0	-	0	-
UNC Charlotte	4,880,326	49.3	4,877,418	49.3	137,999	1.4
UNC-Greensboro**	3,673,322	55.1	2,805,175	42.1	29,296	0.4
UNC Wilmington	3,431,046	71.9	556,972	11.7	738,804	15.5
Subtotal	22,462,478	69.1	8,239,565	25.4	906,099	2.8
Master's (Comprehensive) Universities & Colleges I						
Appalachian	3,417,927	67.2	1,511,371	29.7	148,071	2.9
Fayetteville	1,193,794	81.1	191,904	13.0	86,499	5.9
NCCU	2,060,197	93.9	134,292	6.1	0	-
UNC Pembroke	1,205,238	66.8	0	-	0	-
Western Carolina	2,181,552	62.7	839,064	24.1	431,581	12.4
Winston-Salem	1,358,754	67.8	128,194	6.4	441,407	22.0
Subtotal	11,417,462	71.2	2,804,825	17.5	1,107,558	6.9
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	1,256,934	76.5	359,872	21.9	0	-
Subtotal	1,256,934	76.5	359,872	21.9	0	0.0
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	1,088,834	83.7	66,576	5.1	145,678	11.2
Subtotal	1,088,834	83.7	66,576	5.1	145,678	11.2
Schools of Art, Music, & Design						
UNC School of the Arts	1,040,301	85.8	77,150	6.4	80,440	6.6
Subtotal	1,040,301	85.8	77,150	6.4	80,440	6.6
Teaching Hospitals						
UNC Hospitals**	2,434,713	97.4	0	-	0	-
Subtotal	2,434,713	97.4	0	0.0	0	0.0
Grand Total	72,522,866	77.8	15,332,076	16.5	2,436,810	2.6

** 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	%	GSF	%	GSF	%	
Research Universities I							
NC State ***	472,998	2.8	211,106	1.3	5,648	0.03	16,735,185
NC State Veterinary Med	21,143	2.3	0	-	0	-	908,277
UNC-Chapel Hill ***	164,378	1.2	12,549	0.1	10,287	0.1	13,445,549
UNC-Chapel Hill Health Aff.**	290,432	4.2	0	-	0	-	6,902,797
Subtotal	948,951	2.5	223,655	0.6	15,935	0.0	37,991,808
Doctoral Universities I & II							
East Carolina	76,281	1.3	38,492	0.7	95,460	1.6	5,839,733
East Carolina Hlth Aff.	280,113	14.6	3,593	0.2	41,356	2.2	1,915,666
N.C. A&T	54,007	1.6	0	-	92,337	2.7	3,404,024
UNC Charlotte	0	-	0	-	0	-	9,895,743
UNC-Greensboro**	75,836	1.1	4,893	-	80,718	-	6,669,240
UNC Wilmington	42,399	0.9	0	-	0	-	4,769,221
Subtotal	528,636	1.6	46,978	0.1	309,871	1.0	32,493,627
Master's (Comprehensive) Universities & Colleges I							
Appalachian	7,010	0.1	0	-	0	-	5,084,379
Fayetteville	0	-	0	-	0	-	1,472,197
NCCU	0	-	0	-	0	-	2,194,489
UNC Pembroke	21,137	1.2	0	-	576,706	-	1,803,081
Western Carolina	28,213	0.8	0	-	0	-	3,480,410
Winston-Salem	74,668	3.7	0	-	0	-	2,003,023
Subtotal	131,028	0.8	0	0.0	576,706	3.6	16,037,579
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	26,890	1.6	0	-	0	-	1,643,696
Subtotal	26,890	1.6	0	0.0	0	0.0	1,643,696
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	0	-	0	-	0	-	1,301,088
Subtotal	0	0.0	0	0.0	0	0.0	1,301,088
Schools of Art, Music, & Design							
UNC School of the Arts	2,760	0.2	11,053	0.9	850	0.1	1,212,554
Subtotal	2,760	0.2	11,053	0.9	850	0.1	1,212,554
Teaching Hospitals							
UNC Hospitals**	57,815	2.3	0	-	6,721	0.3	2,499,249
Subtotal	57,815	2.3	0	0.0	6,721	0.3	2,499,249
Grand Total	1,696,080	1.8	281,686	0.3	910,083	1.0	93,179,601

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

This page intentionally left blank.

DRAFT

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 2020 factor applied to the estimated replacement values for the current year.

Annual Year Increase	Annual Year Increase	Annual Year Increase
2003 1.20%	2009 -3.70%	2015 2.10%
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%

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
Research Universities I				
NC State	971	\$1,103,798,041	\$4,585,928,327	13,588,581
NC State Veterinary Med	49	108,729,370	373,152,117	908,277
UNC-Chapel Hill	296	1,521,166,934	3,717,397,983	10,007,852
UNC-Chapel Hill Hlth Aff.	104	847,266,149	2,153,914,071	6,901,555
Subtotal	1,420	\$3,580,960,494	\$10,830,392,498	31,406,265
Doctoral Universities I and II				
East Carolina	149	\$451,176,606	\$1,483,769,072	4,520,731
East Carolina Hlth Aff.	55	284,171,320	637,739,878	1,915,666
NC A&T	108	290,908,077	1,014,062,969	2,816,397
UNC Charlotte	86	859,794,324	1,756,964,550	7,699,143
UNC Greensboro	122	388,885,386	1,963,241,979	4,482,735
UNC Wilmington	126	464,103,181	836,519,076	3,348,348
Subtotal	646	\$2,739,038,894	\$7,692,297,524	24,783,020
Master's (Comprehensive) Universities & Colleges I				
Appalachian	69	\$463,770,713	\$1,051,238,073	3,604,022
Fayetteville	41	110,938,819	284,077,482	1,120,153
NC Central	46	173,952,332	668,506,456	1,544,077
UNC Pembroke	41	119,447,457	355,394,603	1,101,971
Western Carolina	69	176,361,764	517,085,878	2,107,683
Winston-Salem	35	150,930,719	341,938,185	1,254,188
Subtotal	301	\$1,195,401,804	\$3,218,240,677	10,732,094
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	30	\$134,460,661	\$385,840,814	1,113,218
Subtotal	30	\$134,460,661	\$385,840,814	1,113,218
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	38	\$86,457,915	\$273,429,082	853,073
Subtotal	38	\$86,457,915	\$273,429,082	853,073
Schools of Art, Music, & Design				
UNC School of the Arts	46	\$97,021,127	\$260,198,806	992,472
Subtotal	46	\$97,021,127	\$260,198,806	992,472
Teaching Hospitals				
UNC Hospitals	30	\$151,744,106	\$1,074,613,393	2,499,249
Subtotal	30	\$151,744,106	\$1,074,613,393	2,499,249
Grand Total	2,511	\$7,985,085,001	\$23,735,012,794	72,379,391

Table 20 Residential Capital Investment

Institution	Residential Buildings			
	No. of Bldgs.	Building Cost	Replacement Value	Gross Sq. Ft. on Campus
Research Universities I				
NC State	148	\$229,507,522	\$772,095,184	3,146,604
NC State Veterinary Med	0	0	0	0
UNC-Chapel Hill	76	222,353,131	689,898,004	3,437,697
UNC-Chapel Hill Hlth Aff.	1	31,500	195,113	1,242
Subtotal	225	\$451,892,153	\$1,462,188,301	6,585,543
Doctoral Universities I and II				
East Carolina	18	\$103,507,000	\$324,282,823	1,319,002
East Carolina Hlth Aff.	0	0	0	0
NC A&T	14	29,173,424	156,175,558	587,627
UNC Charlotte	34	289,719,444	489,328,895	2,196,600
UNC Greensboro	30	170,219,604	849,565,226	2,186,505
UNC Wilmington	40	199,467,621	326,625,784	1,420,873
Subtotal	136	\$792,087,093	\$2,145,978,286	7,710,607
Master's (Comprehensive) Universities & Colleges I				
Appalachian	24	\$165,429,503	\$341,633,375	1,480,357
Fayetteville	9	27,407,381	68,784,616	352,044
NC Central	11	60,463,229	210,595,647	650,412
UNC Pembroke	10	10,309,198	132,345,275	701,110
Western Carolina	39	172,372,555	325,915,499	1,372,727
Winston-Salem	15	92,053,235	167,533,547	748,835
Subtotal	108	\$528,035,101	\$1,246,807,959	5,305,485
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	21	\$86,308,807	\$169,246,619	530,478
Subtotal	21	\$86,308,807	\$169,246,619	530,478
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	14	\$34,818,578	\$81,960,645	448,015
Subtotal	14	\$34,818,578	\$81,960,645	448,015
Schools of Art, Music, & Design				
UNC School of the Arts	19	\$10,995,657	\$37,318,037	220,082
Subtotal	19	\$10,995,657	\$37,318,037	220,082
Teaching Hospitals				
UNC Hospitals	-	-	-	-
Subtotal	0	\$0	\$0	0
Grand Total	523	\$1,904,137,389	\$5,143,499,847	20,800,210

This page intentionally left blank.

DRAFT

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).

DRAFT

Table 21. Age of Buildings

Institution	Total Gross Square Feet	Pre-1901 GSF	100-119 Years (1901-1920) GSF	80-99 Years (1921-1940) GSF	60-79 Years (1941-1960) GSF	40-59 Years (1961-1980) GSF
Research Universities I						
NC State	16,735,185	75,481	352,724	1,348,926	2,125,568	4,257,888
NC State Veterinary Med	908,277			25,128	14,591	24,055
UNC-Chapel Hill	13,445,549	150,072	536,579	1,430,329	883,515	2,573,205
UNC-Chapel Hill Hlth Aff.	6,902,797			121,141	308,400	1,901,453
Subtotal	37,991,808	225,553	889,303	2,925,524	3,332,074	8,756,601
Doctoral Universities I & II						
East Carolina	5,839,733		278,478	463,789	942,902	1,787,375
East Carolina Hlth Aff.	1,915,666	1,275		10,443		80,199
N.C. A&T	3,404,024			285,597	673,864	716,693
UNC Charlotte	9,895,743					1,573,220
UNC Greensboro	6,669,240	37,259	330,087	742,065	528,802	1,327,621
UNC Wilmington	4,769,221		26,858	6,794	2,266	767,256
Subtotal	32,493,627	38,534	635,423	1,508,688	2,147,834	6,252,364
Master's (Comprehensive) Universities & Colleges I						
Appalachian	5,084,379			198,318	244,273	1,647,937
Fayetteville	1,472,197			152,902	79,409	471,402
NCCU	2,194,489			237,720	335,076	537,806
UNC Pembroke	1,803,081			37,746	101,889	656,221
Western Carolina	3,480,410	2,563		227,833	429,225	1,092,045
Winston-Salem	2,003,023			94,070	54,636	474,729
Subtotal	16,037,579	2,563	0	948,589	1,244,508	4,880,140
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	1,643,696			4,249		384,732
Subtotal	1,643,696	0	0	4,249	0	384,732
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	1,301,088		18,118	114,331	98,237	325,095
Subtotal	1,301,088	0	18,118	114,331	98,237	325,095
Schools of Art, Music, & Design						
UNC School of the Arts	1,212,554		19,859	178,092	168,339	231,777
Subtotal	1,212,554	0	19,859	178,092	168,339	231,777
Teaching Hospitals						
UNC Hospitals	2,499,249			8,040	371,420	581,341
Subtotal	2,499,249	0	0	8,040	371,420	581,341
Grand Total	93,179,601	266,650	1,562,703	5,687,513	7,362,412	21,412,050

Table 21. (Continued) Age of Buildings

Institution	20-39 Years (1981-2000) GSF	15-19 Years (2001-2005) GSF	10-14 Years (2006-2010) GSF	5-9 Years (2011-2015) GSF	Less than 5 Years (2016-2020) GSF
Research Universities I					
NC State	3,177,220	2,463,409	900,522	1,573,299	460,148
NC State Veterinary Med	387,064	101,690	186,098	136,241	33,410
UNC-Chapel Hill	2,908,656	1,708,476	2,393,857	443,831	417,029
UNC-Chapel Hill Hlth Aff.	2,605,449	619,085	640,588	666,715	39,966
Subtotal	9,078,389	4,892,660	4,121,065	2,820,086	950,553
Doctoral Universities I & II					
East Carolina	632,380	417,210	182,592	400,491	734,516
East Carolina Hlth Aff.	734,006	36,013	590,154	450,526	13,050
N.C. A&T	481,863	525,994	345,755	203,712	170,546
UNC Charlotte	2,477,892	1,205,184	1,375,389	2,841,803	422,255
UNC Greensboro	1,352,288	558,227	520,664	757,627	514,600
UNC Wilmington	1,190,706	261,345	1,443,731	193,221	877,044
Subtotal	6,869,135	3,003,973	4,458,285	4,847,380	2,732,011
Master's (Comprehensive) Universities & Colleges I					
Appalachian	843,436	885,132	493,279	420,846	351,158
Fayetteville	443,005	74,097	55,324	196,058	0
NCCU	519,045	227,015	109,567	228,260	0
UNC Pembroke	213,005	326,235	172,492	210,316	85,177
Western Carolina	440,547	453,178	389,047	159,767	286,205
Winston-Salem	463,058	416,952	160,052	167,431	172,095
Subtotal	2,922,096	2,382,609	1,379,761	1,382,678	894,635
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	581,382	182,407	153,099	221,786	116,041
Subtotal	581,382	182,407	153,099	221,786	116,041
Baccalaureate Colleges: Diverse Fields					
Elizabeth City	293,073	283,358	52,895	115,981	0
Subtotal	293,073	283,358	52,895	115,981	0
Schools of Art, Music, & Design					
UNC School of the Arts	207,837	223,480	6,307	176,863	0
Subtotal	207,837	223,480	6,307	176,863	0
Teaching Hospitals					
UNC Hospitals	604,395	562,415	371,638	0	0
Subtotal	604,395	562,415	371,638	0	0
Grand Total	20,556,307	11,530,902	10,543,050	9,564,774	4,693,240

This page intentionally left blank.

DRAFT

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	%	GSF	%	GSF	%	GSF	%
Research Universities I								
NC State	6,938,780	41.5	3,848,660	23.0	4,300,204	25.7	1,533,282	9.2
NC State Veterinary Med	356,004	39.2	107,555	11.8	444,718	49.0	0	0.0
UNC-Chapel Hill	857,447	6.4	7,832,369	58.3	2,897,496	21.5	1,750,303	13.0
UNC-Chapel Hill Hlth Aff.	1,393,092	20.2	3,954,569	57.3	1,076,466	15.6	478,670	6.9
Subtotal	9,545,323	25.1	15,743,153	41.4	8,718,884	22.9	3,762,255	9.9
Doctoral Universities I & II								
East Carolina	2,490,238	42.6	1,031,825	17.7	523,570	9.0	1,783,568	30.5
East Carolina Hlth Aff.	1,292,581	67.5	100,391	5.2	5,790	0.3	516,904	27.0
N.C. A&T	1,901,966	55.9	130,194	3.8	431,351	12.7	940,513	27.6
UNC Charlotte	7,180,817	72.6	1,169,374	11.8	749,196	7.6	796,356	8.0
UNC Greensboro	3,420,294	51.3	2,413,834	36.2	554,473	8.3	274,591	4.1
UNC Wilmington	4,761,805	99.8	5,066	0.1	0	0.0	2,350	0.0
Subtotal	21,047,701	64.8	4,850,684	14.9	2,264,380	7.0	4,314,282	13.3
Master's (Comprehensive) Universities & Colleges I								
Appalachian	1,532,886	30.1	2,071,727	40.7	376,283	7.4	774,144	15.2
Fayetteville	196,605	13.4	599,316	40.7	410,793	27.9	168,589	11.5
NCCU	1,967,146	89.6	62,995	2.9	150,944	6.9	2,000	0.1
UNC Pembroke	315,117	17.5	614,297	34.1	352,704	19.6	476,447	26.4
Western Carolina	2,267,905	65.2	1,021,286	29.3	156,405	4.5	34,814	1.0
Winston-Salem	1,320,026	65.9	517,748	25.8	89,733	4.5	75,516	3.8
Subtotal	7,599,685	47.4	4,887,369	30.5	1,536,862	9.6	1,531,510	9.5
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	496,533	30.2	520,833	31.7	230,278	14.0	396,052	24.1
Subtotal	496,533	30.2	520,833	31.7	230,278	14.0	396,052	24.1
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	853,922	65.6	226,441	17.4	85,200	6.5	108,035	8.3
Subtotal	853,922	65.6	226,441	17.4	85,200	6.5	108,035	8.3
Schools of Art, Music, & Design								
UNC School of the Arts	933,941	77.0	212,096	17.5	10,605	0.9	50,084	4.1
Subtotal	933,941	77.0	212,096	17.5	10,605	0.9	50,084	4.1
Teaching Hospitals								
UNC Hospitals	2,499,249	100	0	0.0	0	0.0	0	0.0
Subtotal	2,499,249	100	0	0.0	0	0.0	0	0.0
Grand Total	42,976,354	46.1	26,440,576	28.4	12,846,209	13.8	10,162,218	10.9

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

Institution	Demolition		Termination		Total Gross Square Feet
	GSF	%	GSF	%	
Research Universities I					
NC State	112,535	0.7	1,724	0.01	16,735,185
NC State Veterinary Med	0	0.0	0	0.00	908,277
UNC-Chapel Hill	107,934	0.8	0	0.00	13,445,549
UNC-Chapel Hill Hlth Aff.	0	0.0	0	0.00	6,902,797
Subtotal	220,469	0.6	1,724	0.005	37,991,808
Doctoral Universities I & II					
East Carolina	10,385	0.2	147	0.003	5,839,733
East Carolina Hlth Aff.	0	0.0	0	0.00	1,915,666
N.C. A&T	0	0.0	0	0.00	3,404,024
UNC Charlotte	0	0.0	0	0.00	9,895,743
UNC Greensboro	6,048	0.1	0	0.00	6,669,240
UNC Wilmington	0	0.0	0	0.00	4,769,221
Subtotal	16,433	0.1	147	0.0005	32,493,627
Master's (Comprehensive) Universities & Colleges I					
Appalachian	45,707	0.9	283,632	5.6	5,084,379
Fayetteville	96,894	6.6	0	0.0	1,472,197
NCCU	11,404	0.5	0	0.0	2,194,489
UNC Pembroke	44,516	2.5	0	0.0	1,803,081
Western Carolina	0	0.0	0	0.0	3,480,410
Winston-Salem	0	0.0	0	0.0	2,003,023
Subtotal	198,521	1.2	283,632	1.8	16,037,579
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	0	0.0	0	0.00	1,643,696
Subtotal	0	0.0	0	0.0	1,643,696
Baccalaureate Colleges: Diverse Fields					
Elizabeth City	27,490	2.1	0	0.0	1,301,088
Subtotal	27,490	2.1	0	0.0	1,301,088
Schools of Art, Music, & Design					
UNC School of the Arts	5,828	0.5	0	0.0	1,212,554
Subtotal	5,828	0.5	0	0.0	1,212,554
Teaching Hospitals					
UNC Hospitals	0	0.0	0	0.00	2,499,249
Subtotal	0	0.0	0	0.0	2,499,249
Grand Total	468,741	0.5	285,503	0.31	93,179,601

This page intentionally left blank.

DRAFT

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 95) 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 \$310 per gross square foot. Table 13 indicates that the average net-to-gross ratio is .546. This means that new construction costs are approximately \$568 per

assignable square foot. Thus, every assignable square foot created through a renovation can be viewed as saving the institution \$568 in new construction costs.

$$\text{CONSTRUCTION COST/ASF} = \frac{\text{CONSTRUCTION COST/GSF}}{\text{NET-TO-GROSS RATIO}}$$
$$\text{CONSTRUCTION COST/ASF} = \frac{\$310}{.546} = \$568$$

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.

DRAFT

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
Research Universities I						
NC State	1,119	\$1,333,305,563	\$5,358,023,511	524	9,796,405	\$3,398,323,982
NC State Veterinary Med	49	108,729,370	373,152,117	39	552,273	262,792,409
UNC-Chapel Hill	372	1,743,520,065	4,407,295,987	347	12,588,102	4,011,911,269
UNC-Chapel Hill Hlth Aff.	105	847,297,649	2,154,109,184	82	5,509,705	1,812,137,372
Subtotal	1,645	\$4,032,852,647	\$12,292,580,799	992	28,446,485	\$9,485,165,032
Doctoral Universities I & II						
East Carolina	167	\$554,683,606	\$1,808,051,895	95	3,349,495	\$988,686,304
East Carolina Hlth Aff.	55	284,171,320	637,739,878	18	623,085	166,468,882
NC A&T	122	320,081,501	1,170,238,527	43	1,502,058	536,235,275
UNC Charlotte	120	1,149,513,768	2,246,293,445	38	2,714,926	818,820,299
UNC Greensboro	152	559,104,990	2,812,807,205	83	3,248,946	1,468,885,005
UNC Wilmington	166	663,570,802	1,163,144,860	2	7,416	808,759
Subtotal	782	\$3,531,125,987	\$9,838,275,810	279	11,445,926	\$3,979,904,524
Master's (Comprehensive) Universities & Colleges I						
Appalachian	93	\$629,200,216	\$1,392,871,448	56	3,551,493	\$948,502,606
Fayetteville	50	138,346,200	352,862,098	47	1,275,592	288,147,204
NC Central	57	234,415,561	879,102,103	13	227,343	81,210,652
UNC Pembroke	51	129,756,655	487,739,878	43	1487964	401,290,563
Western Carolina	108	348,734,319	843,001,377	43	1,212,505	228,434,304
Winston-Salem	50	242,983,954	509,471,732	21	682,997	135,768,121
Subtotal	409	\$1,723,436,905	\$4,465,048,636	223	8,437,894	\$2,083,353,450
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	51	\$220,769,468	\$555,087,433	30	1,147,163	\$386,251,464
Subtotal	51	\$220,769,468	\$555,087,433	30	1,147,163	\$386,251,464
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	52	\$121,276,493	\$355,389,727	20	447,166	\$113,459,443
Subtotal	52	\$121,276,493	\$355,389,727	20	447,166	\$113,459,443
Schools of Art, Music, & Design						
UNC School of the Arts	65	\$108,016,784	\$297,516,843	20	278,613	\$47,349,594
Subtotal	65	\$108,016,784	\$297,516,843	20	278,613	\$47,349,594
Teaching Hospitals						
UNC Hospitals	30	\$151,744,106	\$1,074,613,393	0	0	\$0
Subtotal	30	\$151,744,106	\$1,074,613,393	0	0	\$0
Grand Total	3,034	\$9,889,222,390	\$28,878,512,641	1,564	50,203,247	\$16,095,483,507

This page intentionally left blank.

DRAFT

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				
			2020	2019	2018	2017	2016
Research Universities I							
NC State	9,353,620	7,632,724	81.6	81.4	83.4	80.7	81.5
NC State Veterinary Med	464,069	429,365	92.5	92.5	93.4	88.8	88.3
UNC-Chapel Hill	7,431,949	7,429,954	100.0	99.4	99.5	99.7	100
UNC-Chapel Hill Hlth Aff.	2,568,650	2,549,461	99.3	99.3	99.4	99.5	100
Subtotal	19,818,288	18,041,504	91.0	90.8	91.8	90.5	91.1
Doctoral Universities I & II							
East Carolina	3,478,978	2,992,360	86.0	86.0	86.4	86.1	83.4
East Carolina Hlth Aff.	1,086,016	843,117	77.6	77.6	76.3	79.1	76.1
N.C. A&T	2,359,182	2,089,772	88.6	88.6	88.6	88.1	87.4
UNC Charlotte	4,083,322	3,960,604	97.0	96.8	97.7	95.9	97.4
UNC Greensboro	3,388,107	2,988,331	88.2	79.2	79.8	80.6	88
UNC Wilmington	2,760,536	2,760,536	100.0	97.2	95.8	96.1	98.9
Subtotal	17,156,141	15,634,720	91.1	88.7	88.8	88.6	89.9
Master's (Comprehensive) Universities & Colleges I							
Appalachian	2,902,433	2,473,755	85.2	85.3	85.1	84.4	84
Fayetteville	919,639	777,177	84.5	84.5	84.5	84.2	84.3
NCCU	1,404,771	1,282,397	91.3	91.3	90.9	90.5	90.5
UNC Pembroke	1,170,530	1,099,912	94.0	92.0	91	91	90.9
Western Carolina	2,205,786	1,689,848	76.6	76.6	75.5	75.4	75.3
Winston-Salem	1,284,309	1,157,998	90.2	89.4	87.5	87.1	87.1
Subtotal	9,887,468	8,481,087	85.8	85.5	84.8	84.4	84.3
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	939,281	85,030	9.1	7.6	7.6	-	96.9
Subtotal	939,281	85,030	9.1	7.6	7.6	0.0	96.9
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	864,764	746,170	86.3	86.3	86.3	86.3	81.8
Subtotal	864,764	746,170	86.3	86.3	86.3	86.3	81.8
Schools of Art, Music, & Design							
UNC School of the Arts	843,788	763,486	90.5	90.2	90.2	90.1	90.1
Subtotal	843,788	763,486	90.5	90.2	90.2	90.1	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	87.9	87.9	87.9	87.9	87.9
Grand Total	50,868,033	44,946,180	88.4	87.3	87.6	86.9	89.2

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
Research Universities I						
NC State	7,632,724	90.7	77.5	67.4	97.0	78.8
NC State Veterinary Med	429,365	88.9	93.4	95.8	94.7	100
UNC-Chapel Hill	7,429,954	100.0	100.0	100.0	100.0	100.0
UNC-Chapel Hill Hlth Aff.	2,549,461	100.0	100.0	99.9	100.0	100.0
Subtotal	18,041,504	95.8	87.1	83.3	98.8	90.2
Doctoral Universities I & II						
East Carolina	2,992,360	93.2	67.3	89.0	93.8	95.3
East Carolina Hlth Aff.	843,117	86.0	97.3	62.7	96.7	51.9
N.C. A&T	2,089,772	93.2	83.9	95.2	95.4	79.0
UNC Charlotte	3,960,604	96.5	99.0	100	99.2	96.6
UNC Greensboro	2,988,331	94.9	92.2	78.6	87.6	85.7
UNC Wilmington	2,760,536	100.0	100.0	100.0	100.0	100.0
Subtotal	15,634,720	94.8	91.9	69.7	95.5	92.7
Master's (Comprehensive) Universities & Colleges I						
Appalachian	2,473,755	91.0	70.5	32.7	100	82.7
Fayetteville	777,177	100	100	100	100	64.6
NCCU	1,282,397	90.2	98.0	96.5	95.1	93.3
UNC Pembroke	1,099,912	97.1	100	100	99.2	90.4
Western Carolina	1,689,848	94.1	91.7	100	95.5	66.2
Winston-Salem	1,157,998	91.2	100	87.9	97.0	91.9
Subtotal	8,481,087	92.9	93.5	45.1	97.6	80.6
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	85,030	10.3	0.0	0.0	0.0	12.3
Subtotal	85,030	10.3	0.0	0.0	0.0	12.3
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	746,170	86.5	100	100	99.0	89.0
Subtotal	746,170	86.5	100	100	99.0	89.0
Schools of Art, Music, & Design						
UNC School of the Arts	763,486	93.2	-	100	93.7	84.8
Subtotal	763,486	93.2	-	100	93.7	84.8
Teaching Hospitals						
UNC Hospitals	1,194,183	100	100	85.3	-	-
Subtotal	1,194,183	100	100	85.3	-	-
Grand Total	44,946,180	93.0	87.9	79.6	95.3	86.8

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

Institution	Inst. Admin. 60	Physical Plant 70	Indep. Opns. 90	Un- assigned 00
Research Universities I				
NC State	84.9	85.9	92.5	67.1
NC State Veterinary Med	89.0	98.1	100	0.0
UNC-Chapel Hill	100.0	100	100.0	99.2
UNC-Chapel Hill Hlth Aff.	100.0	100.0	100	79.2
Subtotal	92.4	94.8	95.8	80.4
Doctoral Universities I & II				
East Carolina	66.2	27.3	100	2.8
East Carolina Hlth Aff.	84.5	79.5	-	100
N.C. A&T	99.5	78.2	100	86.8
UNC Charlotte	94.3	93.3	-	99.3
UNC Greensboro	89.6	70.1	100.0	25.1
UNC Wilmington	100.0	100	100.0	100.0
Subtotal	88.5	66.6	100.0	45.3
Master's (Comprehensive) Universities & Colleges I				
Appalachian	82.3	85.7	100	100
Fayetteville	96.8	100	88.0	94.8
NCCU	80.4	79.0	99.4	88.2
UNC Pembroke	97.6	99.9	-	100.0
Western Carolina	55.8	98.4	100	100
Winston-Salem	67.9	95.8	100	62.7
Subtotal	77.3	93.8	98.0	92.3
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0.0	0.0	0.0	4.1
Subtotal	0.0	0.0	0.0	4.1
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	80.1	100	-	64.1
Subtotal	80.1	100	-	64.1
Schools of Art, Music, & Design				
UNC School of the Arts	88.6	96.6	100	92.9
Subtotal	88.6	96.6	100	92.9
Teaching Hospitals				
UNC Hospitals	100	98.5	100	100
Subtotal	100	98.5	100	100
Grand Total	86.6	81.5	95.6	75.5

**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
Research Universities I							
NC State	90.6	-	-	100.0	-	-	-
NC State Veterinary Med	88.9	-	-	-	-	-	-
UNC-Chapel Hill	100.0	-	-	100.0	100.0	-	-
UNC-Chapel Hill Hlth Aff.	100.0	-	100.0	100.0	100.0	-	-
Subtotal	95.7	-	100.0	100.0	100.0	-	-
Doctoral Universities I & II							
East Carolina	93.2	-	100.0	-	-	-	-
East Carolina Hlth Aff.	86.0	-	-	-	100.0	-	-
N.C. A&T	93.2	-	-	-	-	-	-
UNC Charlotte	96.5	-	-	100.0	-	-	-
UNC Greensboro	95.1	-	0.0	-	-	-	-
UNC Wilmington	100.0	-	-	100.0	-	-	-
Subtotal	94.8	-	28.6	100.0	100.0	-	-
Master's (Comprehensive) Universities & Colleges I							
Appalachian	91.0	-	-	-	-	-	-
Fayetteville	100.0	-	-	100.0	-	-	-
NCCU	90.2	-	-	-	-	-	-
UNC Pembroke	97.0	-	100.0	97.1	100.0	-	-
Western Carolina	94.0	-	-	100.0	-	-	-
Winston-Salem	91.1	-	100.0	-	-	-	-
Subtotal	92.9	-	99.7	98.4	100.0	-	-
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	10.5	-	-	0.0	-	-	-
Subtotal	10.5	-	-	0.0	-	-	-
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	86.4	-	-	100.0	-	-	-
Subtotal	86.4	-	-	100.0	-	-	-
Schools of Art, Music, & Design							
UNC School of the Arts	93.2	-	-	-	-	-	-
Subtotal	93.2	-	-	-	-	-	-
Teaching Hospitals							
UNC Hospitals	100.0	-	-	100.0	-	-	-
Subtotal	100.0	-	-	100.0	-	-	-
Grand Total	93.0	-	90.8	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
Research Universities I				
NC State	-	67.9	81.0	-
NC State Veterinary Med	-	-	93.4	94.7
UNC-Chapel Hill	-	100.0	100.0	100.0
UNC-Chapel Hill Hlth Aff.	-	100.0	100.0	100.0
Subtotal	-	71.7	90.2	98.0
Doctoral Universities I & II				
East Carolina	-	15.7	91.7	-
East Carolina Hlth Aff.	-	100.0	97.2	65.0
N.C. A&T	-	98.5	77.7	-
UNC Charlotte	-	99.1	98.9	-
UNC Greensboro	-	-	92.2	100.0
UNC Wilmington	-	100.0	100.0	100.0
Subtotal	-	90.0	92.7	65.4
Master's (Comprehensive) Universities & Colleges I				
Appalachian	-	100.0	62.0	100.0
Fayetteville	-	-	100.0	-
NCCU	-	99.0	96.4	-
UNC Pembroke	-	-	100.0	-
Western Carolina	100.0	83.7	100.0	-
Winston-Salem	-	100.0	100.0	-
Subtotal	100.0	94.8	92.4	100.0
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0.0	0.0	0.0	-
Subtotal	0.0	0.0	0.0	-
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	-	-	100.0	-
Subtotal	-	-	100.0	-
Schools of Art, Music, & Design				
UNC School of the Arts	-	-	-	-
Subtotal	-	-	-	-
Teaching Hospitals				
UNC Hospitals	-	-	100.0	79.7
Subtotal	-	-	100.0	79.7
Grand Total	55.8	77.6	90.5	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
Research Universities I				
NC State	-	89.3	51.9	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.	99.8	100.0	100.0	-
Subtotal	99.2	91.2	52.5	100.0
Doctoral Universities I & II				
East Carolina	67.0	100.0	-	96.6
East Carolina Hlth Aff.	57.8	100.0	-	-
N.C. A&T	-	98.1	93.3	100.0
UNC Charlotte	-	99.8	-	-
UNC Greensboro	-	46.3	-	-
UNC Wilmington	100.0	100.0	-	-
Subtotal	58.9	98.6	93.3	98.0
Master's (Comprehensive) Universities & Colleges I				
Appalachian	-	20.5	-	-
Fayetteville	-	100.0	-	100.0
NCCU	-	100.0	-	94.7
UNC Pembroke	-	100.0	-	-
Western Carolina	100.0	100.0	-	100.0
Winston-Salem	-	86.4	-	100.0
Subtotal	100.0	32.4	-	95.4
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	-	0.0	-	-
Subtotal	-	0.0	-	-
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	-	100.0	-	100.0
Subtotal	-	100.0	-	100.0
Schools of Art, Music, & Design				
UNC School of the Arts	-	100.0	-	-
Subtotal	-	100.0	-	-
Teaching Hospitals				
UNC Hospitals	89.1	-	-	-
Subtotal	89.1	-	-	-
Grand Total	85.4	81.7	54.8	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
Research Universities I				
NC State	99.1	84.4	100.0	86.8
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	99.7	94.7	100.0	90.4
Doctoral Universities I & II				
East Carolina	95.3	100.0	99.2	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	98.6	99.9
UNC Greensboro	85.4	100.0	31.3	85.9
UNC Wilmington	100.0	100.0	100.0	100.0
Subtotal	96.6	95.5	72.3	91.9
Master's (Comprehensive) Universities & Colleges I				
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	100.0
Western Carolina	100.0	82.7	57.6	18.4
Winston-Salem	100.0	92.9	100.0	100.0
Subtotal	99.9	90.3	95.8	94.4
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0.0	-	0.0	0.0
Subtotal	0.0	-	0.0	0.0
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	100.0	100.0	-	100.0
Subtotal	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	100.0	100.0	100.0	42.2
Teaching Hospitals				
UNC Hospitals	-	-	-	-
Subtotal	-	-	-	-
Grand Total	96.1	93.9	85.7	87.3

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

Institution	Ancillary Support 45	Academic Admin. 46	Course & Curriculum Dev. 47	Academic Personnel Dev. 48
Research Universities I				
NC State	63.6	97.2	100.0	100.0
NC State Veterinary Med	100.0	98.8	-	-
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	97.1	98.8	100.0	100.0
Doctoral Universities I & II				
East Carolina	100.0	89.4	-	-
East Carolina Hlth Aff.	100.0	100.0	-	-
N.C. A&T	95.2	87.3	-	-
UNC Charlotte	-	98.8	-	-
UNC Greensboro	87.9	93.3	-	100.0
UNC Wilmington	100.0	100.0	100.0	100.0
Subtotal	94.4	95.9	100.0	100.0
Master's (Comprehensive) Universities & Colleges I				
Appalachian	100.0	100.0	100.0	-
Fayetteville	100.0	100.0	-	-
NCCU	59.1	93.4	-	100.0
UNC Pembroke	100.0	98.5	-	100.0
Western Carolina	100.0	92.4	-	100.0
Winston-Salem	100.0	93.9	-	-
Subtotal	92.0	96.2	100.0	100.0
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0.0	0.0	-	0.0
Subtotal	0.0	0.0	-	0.0
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	87.5	100.0	-	-
Subtotal	87.5	100.0	-	-
Schools of Art, Music, & Design				
UNC School of the Arts	100.0	65.4	-	-
Subtotal	100.0	65.4	-	-
Teaching Hospitals				
UNC Hospitals	-	-	-	-
Subtotal	-	-	-	-
Grand Total	92.3	96.5	100.0	98.1

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
Research Universities I						
NC State	99.6	92.3	99.3	100.0	72.1	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	99.9	96.5	99.6	100.0	86.6	99.6
Doctoral Universities I & II						
East Carolina	93.7	86.6	70.5	100.0	99.9	83.6
East Carolina Hlth Aff.	-	-	-	-	51.9	-
N.C. A&T	77.8	92.5	100.0	100.0	79.0	69.0
UNC Charlotte	99.4	98.8	86.5	100.0	96.3	97.1
UNC Greensboro	97.0	94.3	100.0	-	84.4	84.9
UNC Wilmington	100.0	100.0	100.0	100.0	100.0	100.0
Subtotal	95.1	94.6	91.7	99.7	93.0	87.6
Master's (Comprehensive) Universities & Colleges I						
Appalachian	100.0	99.4	100.0	97.0	75.3	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	99.8	77.9	100.0	100.0	90.9	96.3
Western Carolina	100.0	98.6	100.0	100.0	55.9	94.4
Winston-Salem	77.1	100.0	100.0	100.0	90.2	100.0
Subtotal	91.5	93.1	96.5	98.8	76.1	96.0
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.0	0.0	0.0	0.0	17.9	0.0
Subtotal	0.0	0.0	0.0	0.0	17.9	0.0
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	100.0	100.0	100.0	100.0	86.8	95.1
Subtotal	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	100.0	93.0	100.0	100.0	81.9	-
Teaching Hospitals						
UNC Hospitals	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-
Grand Total	95.5	91.4	94.5	96.1	84.8	92.9

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
Research Universities I						
NC State	98.3	100.0	100.0	100.0	82.6	71.3
NC State Veterinary Med	-	-	99.4	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	99.0	100.0	99.9	100.0	94.9	85.2
Doctoral Universities I & II						
East Carolina	91.5	61.6	9.2	90.1	-	60.3
East Carolina Hlth Aff.	-	0.0	100.0	87.6	100.0	0.0
N.C. A&T	31.0	100.0	87.7	70.2	8.1	100.0
UNC Charlotte	85.5	79.3	97.0	94.2	72.1	-
UNC Greensboro	100.0	100.0	98.6	71.4	61.9	36.2
UNC Wilmington	100.0	100.0	100.0	100.0	100.0	100.0
Subtotal	81.2	86.2	66.6	90.6	73.5	43.8
Master's (Comprehensive) Universities & Colleges I						
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
Western Carolina	100.0	100.0	88.9	100.0	100.0	100.0
Winston-Salem	100.0	93.2	98.8	96.6	100.0	100.0
Subtotal	98.2	97.4	87.5	81.5	100.0	100.0
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.0	0.0	0.0	0.0	0.0	-
Subtotal	0.0	0.0	0.0	0.0	0.0	-
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	100.0	100.0	100.0	-	100.0	-
Subtotal	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	44.6	82.5	100.0	100.0	-	100.0
Teaching Hospitals						
UNC Hospitals	-	-	100.0	94.3	-	-
Subtotal	-	-	100.0	94.3	-	-
Grand Total	88.2	94.5	77.4	91.0	79.9	76.2

**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
Research Universities I						
NC State	100.0	98.0	98.8	60.9	55.7	97.0
NC State Veterinary Med	-	100.0	100.0	31.6	100.0	-
UNC-Chapel Hill	100.0	99.9	100.0	100.0	100.0	100.0
UNC-Chapel Hill Hlth Aff.	100.0	100.0	100.0	100.0	100.0	100.0
Subtotal	100.0	99.6	99.4	80.9	66.2	98.4
Doctoral Universities I & II						
East Carolina	78.2	25.7	79.7	96.3	98.1	88.3
East Carolina Hlth Aff.	100.0	75.0	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	75.4	91.1	98.6	100.0	100.0
UNC Greensboro	99.8	100.0	94.9	99.1	45.3	88.6
UNC Wilmington	100.0	100.0	100.0	100.0	100.0	100.0
Subtotal	89.5	53.6	95.2	97.9	75.8	95.7
Master's (Comprehensive) Universities & Colleges I						
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	63.9	97.2	100.0	100.0
UNC Pembroke	100.0	100.0	99.7	94.1	100.0	80.5
Western Carolina	78.1	100.0	100.0	97.3	7.2	80.4
Winston-Salem	90.4	69.9	62.6	97.5	51.5	63.3
Subtotal	94.8	90.4	81.9	96.9	45.2	80.2
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	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	16.9	100.0
Subtotal	100.0	100.0	98.8	100.0	16.9	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	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	100.0	100.0	100.0	100.0	100.0	100.0
Grand Total	89.8	77.9	94.0	89.7	59.0	89.8

**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
Research Universities I						
NC State	100.0	-	78.4	92.8	86.1	61.3
NC State Veterinary Med	-	-	-	100.0	0.0	-
UNC-Chapel Hill	100.0	100.0	100.0	100.0	99.0	100.0
UNC-Chapel Hill Hlth Aff.	100.0	100.0	100.0	100.0	77.3	100.0
Subtotal	100.0	100.0	98.8	95.1	89.4	69.3
Doctoral Universities I & II						
East Carolina	60.3	77.5	-	100.0	100.0	1.6
East Carolina Hlth Aff.	-	100.0	-	-	100.0	-
N.C. A&T	100.0	100.0	100.0	100.0	65.7	97.2
UNC Charlotte	100.0	100.0	-	-	96.8	100.0
UNC Greensboro	98.2	74.0	-	100.0	100.0	0.0
UNC Wilmington	100.0	100.0	100.0	100.0	100.0	100.0
Subtotal	94.6	92.0	100.0	100.0	95.1	38.5
Master's (Comprehensive) Universities & Colleges I						
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	29.5	100.0	100.0	99.4	85.4	88.8
UNC Pembroke	100.0	100.0	-	-	100.0	-
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	84.7	72.1	93.3	99.8	79.1	97.0
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.0	0.0	-	0.0	45.6	0.0
Subtotal	0.0	0.0	-	0.0	45.6	0.0
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	100.0	100.0	-	-	65.8	55.9
Subtotal	100.0	100.0	-	-	65.8	55.9
Schools of Art, Music, & Design						
UNC School of the Arts	100.0	100.0	100.0	-	87.7	100.0
Subtotal	100.0	100.0	100.0	-	87.7	100.0
Teaching Hospitals						
UNC Hospitals	-	-	-	100.0	100.0	100.0
Subtotal	-	-	-	100.0	100.0	100.0
Grand Total	89.2	81.8	97.9	95.1	85.1	69.1

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	%
Research Universities I							
NC State	7,632,724	258,693	99.7	1,598,346	96.5	1,902,126	97.2
NC State Veterinary Med	429,365	7,596	97.9	97,685	95.5	95,992	99.0
UNC-Chapel Hill	7,429,954	268,744	100.0	610,972	100.0	1,696,276	100.0
UNC-Chapel Hill Hlth Aff.	2,549,461	89,030	100.0	815,385	100.0	1,057,138	98.4
Subtotal	18,041,504	624,063	99.9	3,122,388	98.0	4,751,532	98.5
Doctoral Universities I & II							
East Carolina	2,992,360	162,694	94.8	350,494	93.1	687,808	86.0
East Carolina Hlth Aff.	843,117	42,210	98.6	146,431	96.7	351,436	82.9
N.C. A&T	2,089,772	132,831	92.5	328,094	90.4	421,263	90.4
UNC Charlotte	3,960,604	222,809	89.5	534,357	99.6	923,362	97.6
UNC Greensboro	2,988,331	141,731	98.7	354,170	95.1	579,501	92.4
UNC Wilmington	2,760,536	182,664	100.0	285,857	100.0	501,799	100.0
Subtotal	15,634,720	884,939	94.8	1,999,403	95.9	3,465,169	92.0
Master's (Comprehensive) Universities & Colleges I							
Appalachian	2,473,755	175,190	92.8	246,139	87.5	519,810	90.1
Fayetteville	777,177	54,833	99.9	60,047	100.0	179,968	89.1
NCCU	1,282,397	108,896	86.7	132,249	90.5	281,122	90.7
UNC Pembroke	1,099,912	108,557	98.7	68,195	99.7	208,475	95.6
Western Carolina	1,689,848	91,153	94.2	186,759	97.0	320,037	96.8
Winston-Salem	1,157,998	74,426	85.7	107,183	92.4	207,230	89.7
Subtotal	8,481,087	613,055	92.5	800,572	92.6	1,716,642	91.9
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	85,030	3,409	7.6	10,153	10.2	4,117	2.7
Subtotal	85,030	3,409	7.6	10,153	10.2	4,117	2.7
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	746,170	59,732	84.5	54,791	82.0	107,432	91.4
Subtotal	746,170	59,732	84.5	54,791	82.0	107,432	91.4
Schools of Art, Music, & Design							
UNC School of the Arts	763,486	19,245	60.2	195,937	96.1	97,017	87.1
Subtotal	763,486	19,245	60.2	195,937	96.1	97,017	87.1
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	100.0	10,829	100.0	334,517	90.0
Grand Total	44,946,180	2,214,369	93.1	6,194,073	95.1	10,476,426	93.4

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	%
Research Universities I								
NC State	347,998	97.4	1,016,775	58.6	752,276	95.9	315,551	72.2
NC State Veterinary Med	10,739	100.0	62,277	78.9	13,240	100.0	25,158	90.4
UNC-Chapel Hill	633,547	100.0	950,831	100.0	856,288	100.0	453,648	100.0
UNC-Chapel Hill Hlth Aff.	51,551	100.0	203,311	100.0	91,925	98.8	33,569	100.0
Subtotal	1,043,835	99.1	2,233,194	75.2	1,713,729	98.1	827,926	87.0
Doctoral Universities I & II								
East Carolina	189,181	98.0	312,323	85.2	383,378	96.9	53,375	30.3
East Carolina Hlth Aff.	66,762	89.3	37,671	33.2	14,224	56.1	20,229	80.7
N.C. A&T	135,628	98.4	265,716	91.8	274,211	91.2	204,098	95.6
UNC Charlotte	229,639	100.0	216,135	97.3	456,134	96.5	61,143	94.1
UNC Greensboro	111,533	83.2	109,494	88.5	508,878	91.0	236,648	86.5
UNC Wilmington	142,074	100.0	245,628	100.0	242,005	100.0	80,869	100.0
Subtotal	874,817	96.0	1,186,967	87.2	1,878,830	94.2	656,362	78.7
Master's (Comprehensive) Universities & Colleges I								
Appalachian	95,322	91.6	329,788	85.3	336,224	90.1	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	91.8	155,177	97.1	11,521	44.9
UNC Pembroke	40,082	99.8	87,870	98.0	113,508	91.9	54,616	98.1
Western Carolina	135,117	99.9	190,347	90.6	300,887	96.1	62,002	97.2
Winston-Salem	57,534	97.6	107,020	100.0	150,509	99.1	37,373	86.7
Subtotal	494,189	96.8	903,233	91.0	1,127,679	91.4	261,109	89.5
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	0	0.0	0	0.0	3,940	3.6	0	0.0
Subtotal	0	0.0	0	0.0	3,940	3.6	0	0.0
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	35,571	92.0	87,210	95.4	91,459	92.9	16,453	98.4
Subtotal	35,571	92.0	87,210	95.4	91,459	92.9	16,453	98.4
Schools of Art, Music, & Design								
UNC School of the Arts	47,673	100.0	23,768	100.0	129,203	95.0	78,436	94.9
Subtotal	47,673	100.0	23,768	100.0	129,203	95.0	78,436	94.9
Teaching Hospitals								
UNC Hospitals	2,897	89.3	32,493	100.0	53,825	86.4	84,162	98.4
Subtotal	2,897	89.3	32,493	100.0	53,825	86.4	84,162	98.4
Grand Total	2,498,982	95.0	4,466,865	80.1	4,998,665	92.9	1,924,448	83.5

Table 26. (Continued) Accessible Area by Room Codes

Institution	Health Care Facilities 800		Residential Facilities 900		Unclassified Facilities 000	
	ASF	%	ASF	%	ASF	%
Research Universities I						
NC State	29,337	98.7	1,239,778	66.0	171,844	66.5
NC State Veterinary Med	116,678	96.1	0	-	0	0.0
UNC-Chapel Hill	23,455	100.0	1,830,777	100.0	105,416	98.4
UNC-Chapel Hill Hlth Aff.	175,040	99.9	431	100.0	32,081	100.0
Subtotal	344,510	98.5	3,070,986	82.8	309,341	76.9
Doctoral Universities I & II						
East Carolina	6,194	83.1	844,496	100.0	2,417	1.6
East Carolina Hlth Aff.	164,154	71.7	0	-	0	-
N.C. A&T	6,519	50.9	314,706	74.0	6,706	97.9
UNC Charlotte	6,586	75.7	1,216,397	96.6	94,042	99.3
UNC Greensboro	13,242	100.0	933,134	82.1	0	0.0
UNC Wilmington	14,137	100.0	1,053,623	100.0	11,880	100.0
Subtotal	210,832	73.9	4,362,356	92.4	115,045	43.4
Master's (Comprehensive) Universities & Colleges I						
Appalachian	11,733	100.0	613,044	74.1	68,599	100.0
Fayetteville	2,319	100.0	151,208	68.5	100,717	94.6
NCCU	2,318	82.6	305,532	94.0	70,260	88.6
UNC Pembroke	3,497	100.0	415,112	89.9	0	-
Western Carolina	3,246	100.0	357,843	43.7	42,457	100.0
Winston-Salem	3,213	76.0	407,514	86.9	5,996	37.1
Subtotal	26,326	94.6	2,250,253	72.1	288,029	92.0
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0	0.0	62,857	21.2	554	4.2
Subtotal	0	0.0	62,857	21.2	554	4.2
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	1,574	100.0	239,234	78.9	52,714	88.6
Subtotal	1,574	100.0	239,234	78.9	52,714	88.6
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	41.0	130,156	81.7	40,792	92.6
Teaching Hospitals						
UNC Hospitals	619,856	84.2	3,785	100.0	41,893	100.0
Subtotal	619,856	84.2	3,785	100.0	41,893	100.0
Grand Total	1,204,357	85.6	10,119,627	82.2	848,368	74.5

Institutional Index

Institutional Index				
Institution	Level *	FICE	County	City
		Code		
Appalachian State University	3	002906	Watauga	Boone 28608
East Carolina University	2	002923	Pitt	Greenville 27858
ECU-Health Affairs	2		Pitt	Greenville 27858
Elizabeth City State University		002929	Pasquotank	Elizabeth City 27909
Fayetteville State University	3	002928	Cumberland	Fayetteville 28301
N. C. A&T State University	2	002905	Guilford	Greensboro 27411
N. C. Central University	3	002950	Durham	Durham 27707
N. C. State University	1	002972	Wake	Raleigh 27695
NCSU Veterinary School	1		Wake	Raleigh 27695
UNC Asheville		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		003981	Forsyth	Winston-Salem 27117
UNC Pembroke	3	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 Research Universities I, a "2" for Doctoral Universities I & II, a "3" for Master's Comprehensive Universities I, a "4" for Baccalaureate Colleges: Arts & Sciences Focus, a "5" for Baccalaureate Colleges: Diverse Fields, and a "6" for Schools of Art, Music, & Design.

Bibliography

- Collier, Douglas J. Program Classification Structure: Second Edition. Technical Report 106. Boulder: National Center for Higher Education Management Systems, 1978.
- Dahnke, Harold L.; Jones, Dennis P.; Mason, Thomas R.; and Romney, Leonard C. Higher Education Facilities Planning and Management Manuals. Boulder: Western Interstate Commission for Higher Education, 1971.
- National Center for Educational Statistics, U. S. Office of Education. Inventory of Physical Facilities in Institutions of Higher Education, Fall 1974. Washington, D. C.: Government Printing Office, 1977.
- National Center for Education Statistics and the State Higher Education Executive Officers. Postsecondary Education Facilities Inventory and Classification Manual. 1992.
- State Commission on Higher Education Facilities. Facilities Inventory and Utilization Manual, 6th ed. Chapel Hill: UNC-General Administration, 2009.
- The University of North Carolina. Statistical Abstract of Higher Education in North Carolina, 2011-2012. Chapel Hill, N. C.: UNC-General Administration, 2011.
- U. S. Office of Education. Federal Support for Higher Education Construction: Current Programs and Future Needs. Washington, D. C.: Government Printing Office, 1969.
- U. S. Office of Education. Facilities Inventory and Classification Manual, 1973. Washington, D. C.: Government Printing Office, 1974.
- Wheeler, Charles L., "Facilities Analysis: A Tool in Strategic Planning," in Using Research for Strategic Planning, New Directions for Institutional Research, no. 37, ed. by N. P. Uhl. San Francisco: Josey-Bass, 1983.
- Wolfsberg, Rolf M. and Richard J. Petersen, The Impact of Section 504 of the Rehabilitation Act of 1973 on American Colleges and Universities: Technical Report. Washington, D. C.: Government Printing Office, 1979.

Index

- Academic administration (subprogram), 47-48, 98
- Academic computer support (subprogram), 47-48, 97
- Academic facilities, 5, 6
 - per FTE student, 6
- 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, 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, 3-4
- Class laboratories:
 - number of, 65-66
 - stations in, 65-66
 - utilization, 9-10, 13-14, 16, 17-19, 21-25, 27-28
- Classrooms:
 - accessibility to mobility impaired, 103-106
 - number of, 63-64
 - space, 90, 94-95
 - stations in, 63-64
 - utilization, 7-8, 11-12, 16, 17-19, 21-25, 27-28
- 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, 7, 13
 - in classrooms, 7-8, 11-12
 - in class labs, 8-9, 13-14
- Direct patient care (subprogram), 43, 46, 95
- Educational media services (subprogram), 47-48, 97
- Enrollments:
 - full-time equivalent (FTE), 5-6, 31-33
- 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, 5-6, 31-33

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, 29

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, 7, 13
 in classrooms, 7-8, 11-12
 in class labs, 8-9, 13-14

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

Offices, 28, 57-58, 104

Ownership of buildings, 69-71

Parking decks, 37

Percent student station utilization, 15-16, 25

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, 15

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, 43-44, 46, 95-96

Renovations, 85-87

Replacement value, 85-87

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

Research:

program, 39, 41, 92
subprograms, 43, 46, 95
Residential facilities, 60-63, 106
Room codes, 61-62
Room hours of instruction, total:
in classrooms, 7-8, 25
in class labs, 9-10, 25
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, 21-24
Space standards, 27-29
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, 11-16, 25, 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

This page intentionally left blank.

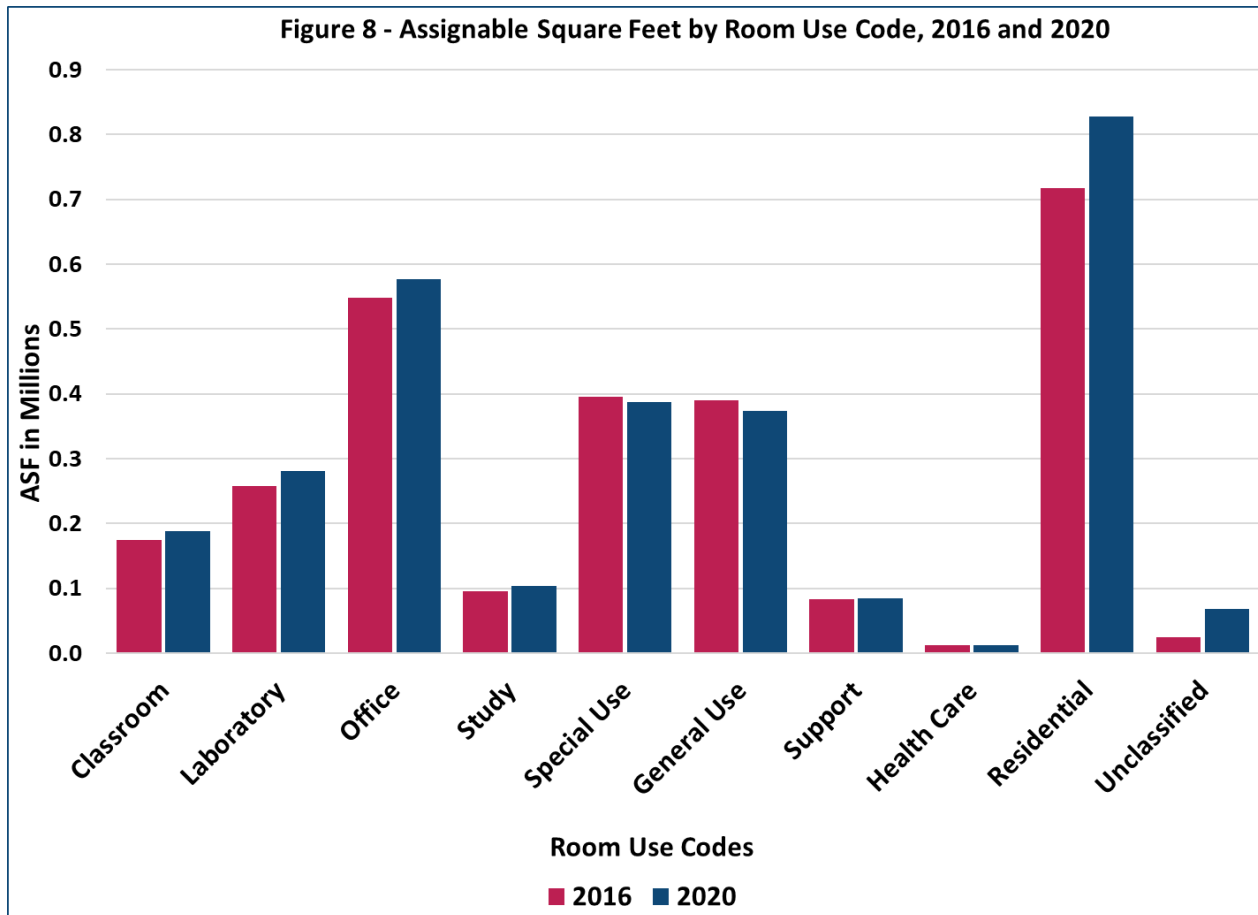
DRAFT

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 room space characteristics and building characteristics at the university.

Room Space Characteristics

In 2020, the assignable square feet at ASU increased from 2,812,406 to 2,902,433, or 3.2% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	878,908	30.28%	29.70%	0.58%
Research	16,463	0.57%	0.62%	-0.06%
Public Service	76,727	2.64%	2.85%	-0.20%
Student Service	1,513,367	52.14%	51.02%	1.12%
Other	416,968	14.37%	15.81%	-1.44%



Building Characteristics

Appalachian State University has 5,084,379 gross square feet of space comprised of 93 buildings (24 residential, 69 non-residential; 45 appropriated, 48 non-appropriated; 65 owned, 1 leased, 27 under other agreement terms) with 2,902,433 square feet of assignable space, having increased by 3.3% with in the last five years. Since 2019, gross square footage has increased by 119,859 SF, or 2.4%.

Appalachian State University Building Characteristics	
92 Total Buildings	
	65 Owned
45 Appropriated	1 Leased
48 Non-appropriated	27 Other Agreement
<hr/> 93 Total	<hr/> 93 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

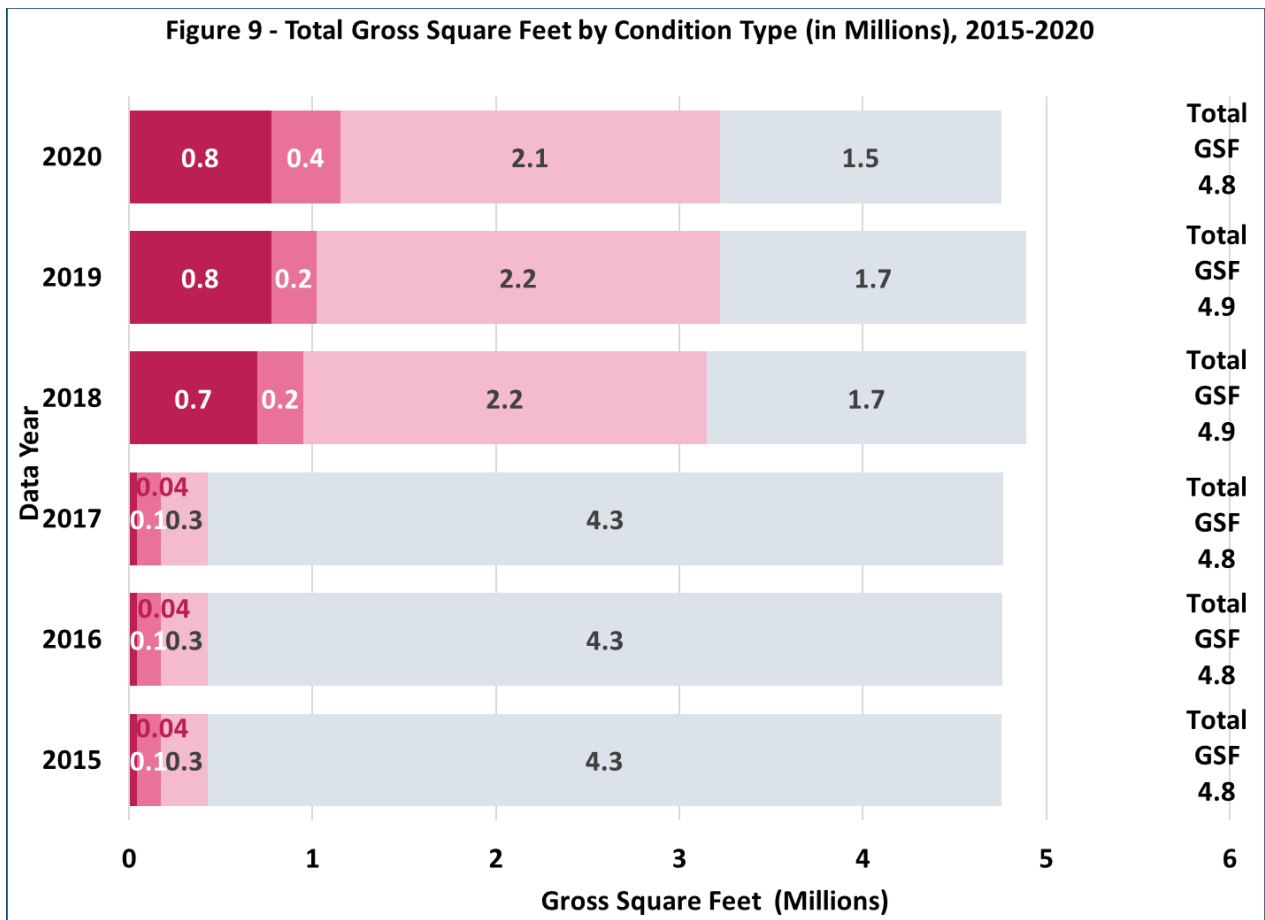
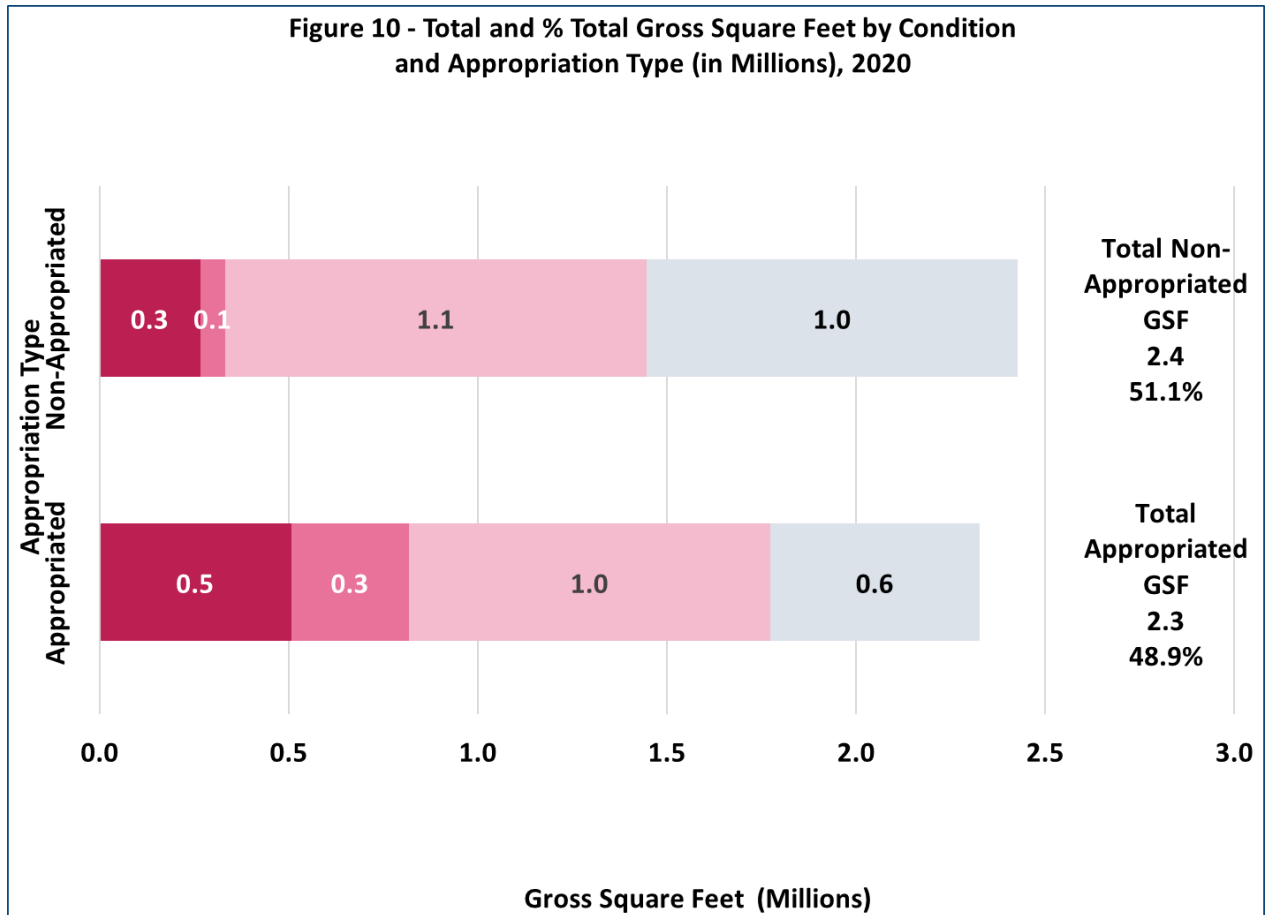
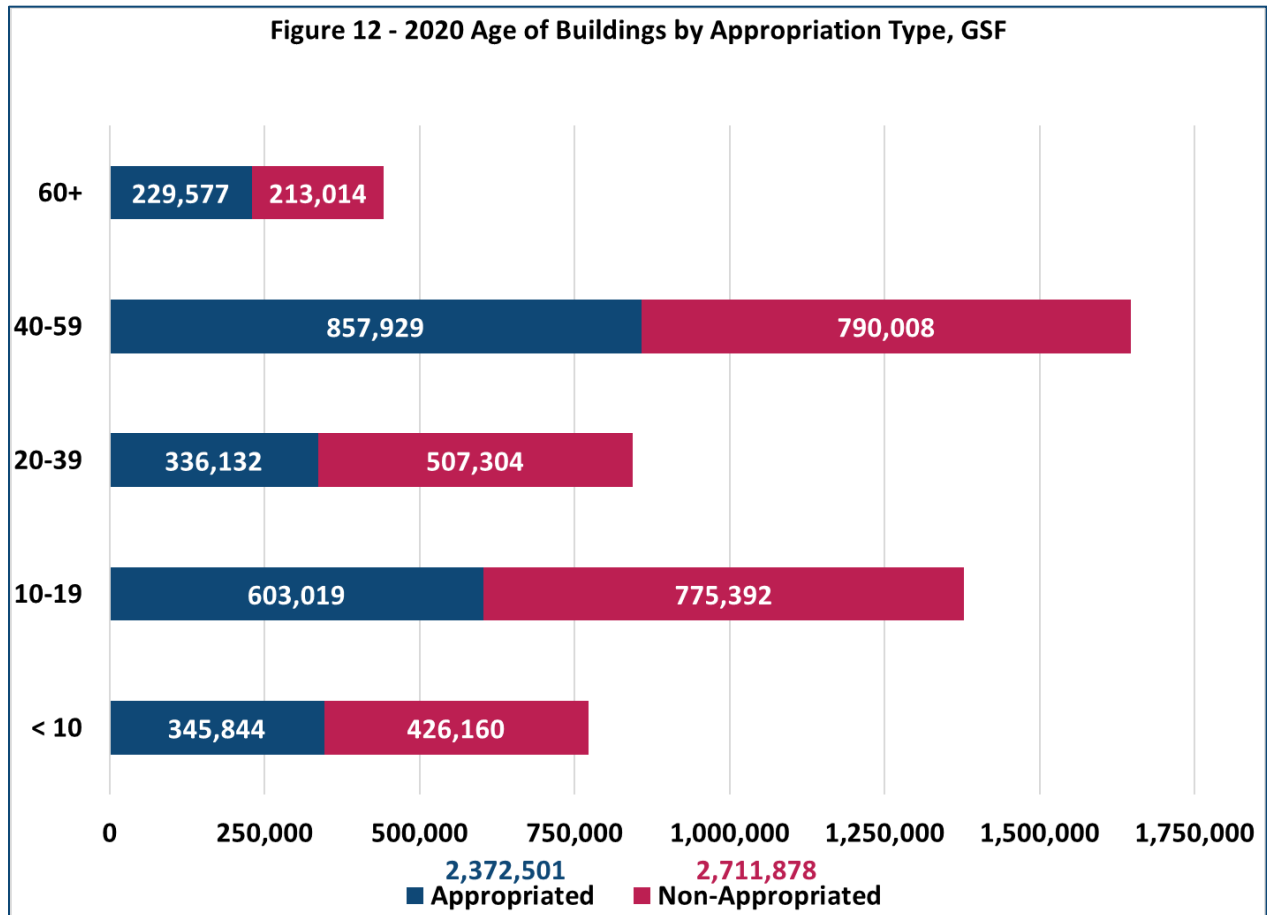
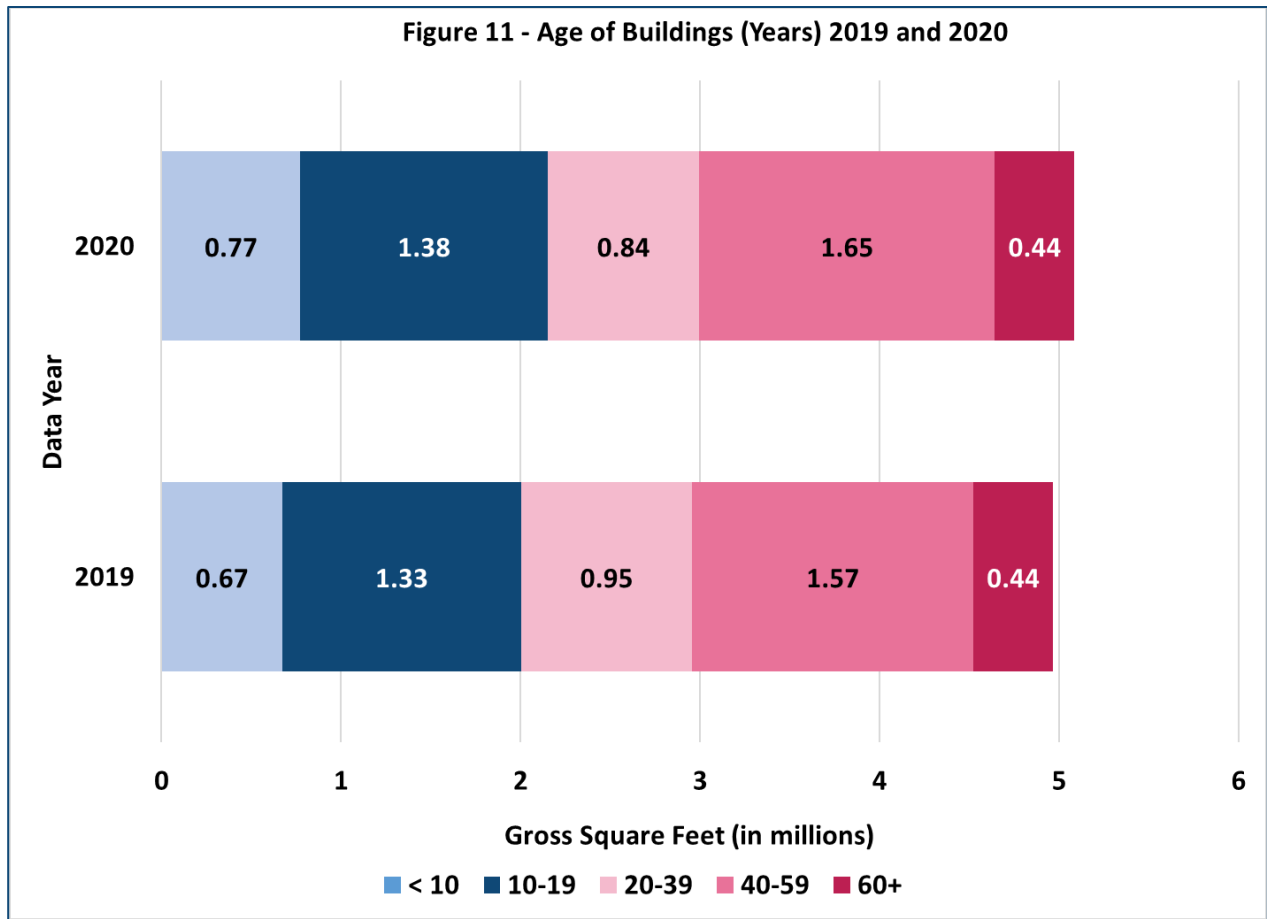


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



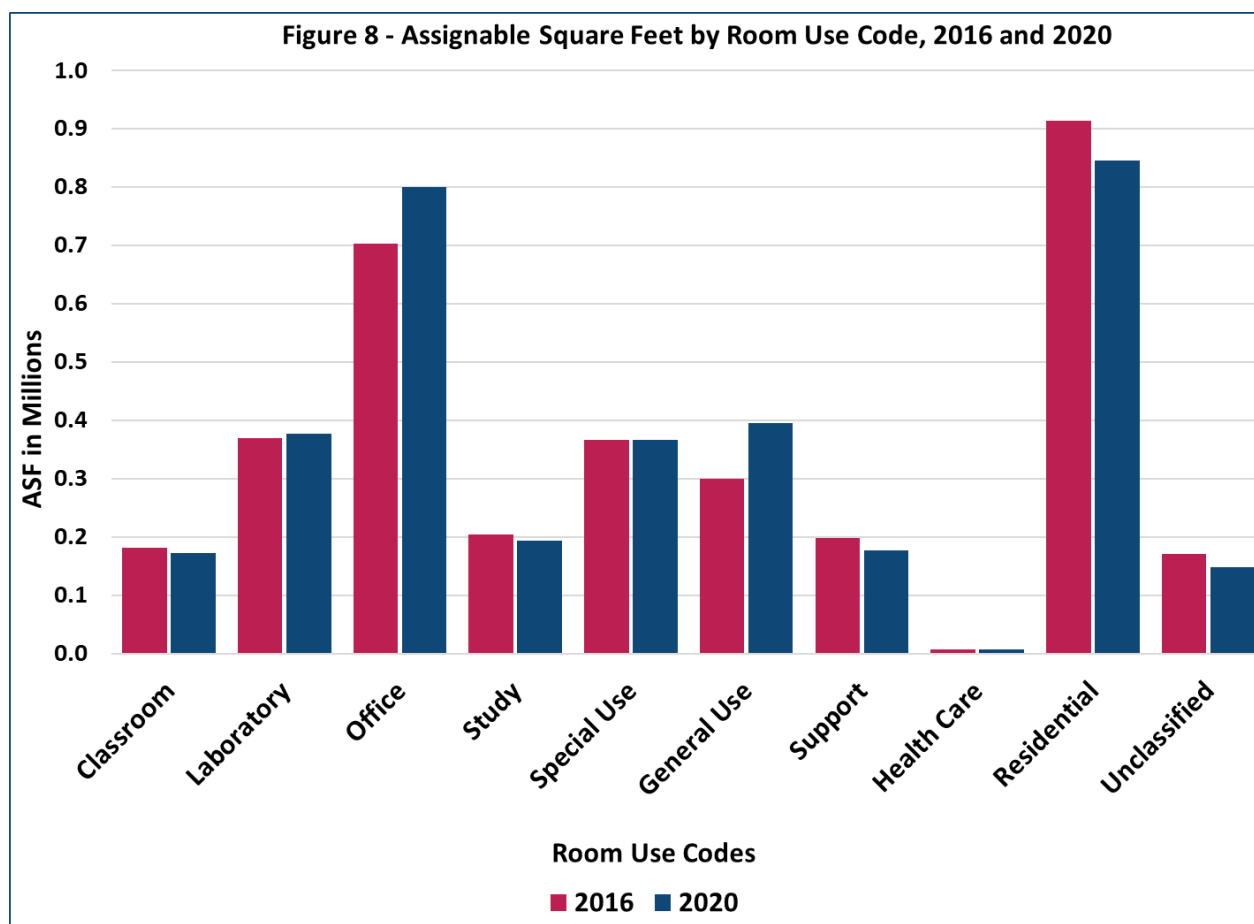


Founded as a teachers college in 1907, East Carolina University is today the only public university in the state with a dental school, medical school, and college of engineering. Located in Greenville, ECU's motto is Servire, "service," and its faculty, staff, and almost 29,000 students live by this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

Room Space Characteristics

In 2020, the assignable square feet at ECU decreased from 3,478,085 to 3,478,085, or -0.3% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	1,007,948	28.97%	28.90%	0.07%
Research	108,538	3.12%	3.32%	-0.20%
Public Service	9,669	0.28%	0.57%	-0.30%
Student Service	1,596,423	45.89%	44.45%	1.44%
Other	756,400	21.74%	22.75%	-1.01%



Building Characteristics

East Carolina University has 5,839,733 gross square feet of space comprised of 167 buildings (18 residential, 149 non-residential; 103 appropriated, 64 non-appropriated; 143 owned, 12 leased, 12 under other agreement terms) with 3,478,978 square feet of assignable space, having increased by 1.9% within the last five years. Since 2019, gross square footage has decreased -8,361 SF, or -0.1%.

East Carolina University Building Characteristics	
167 Total Buildings	
103 Appropriated	143 Owned
64 Non-appropriated	12 Leased
167 Total	12 Other Agreement
	167 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

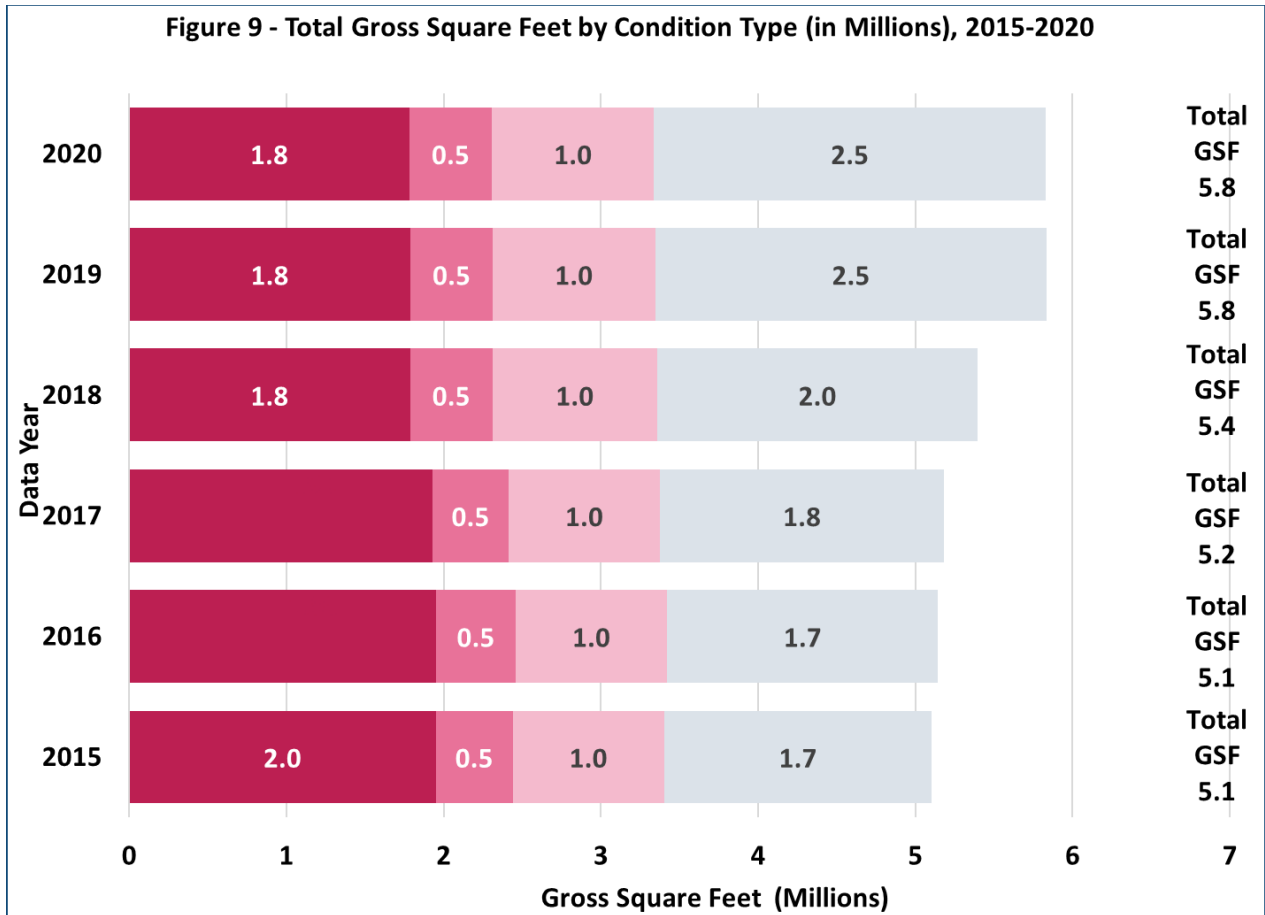
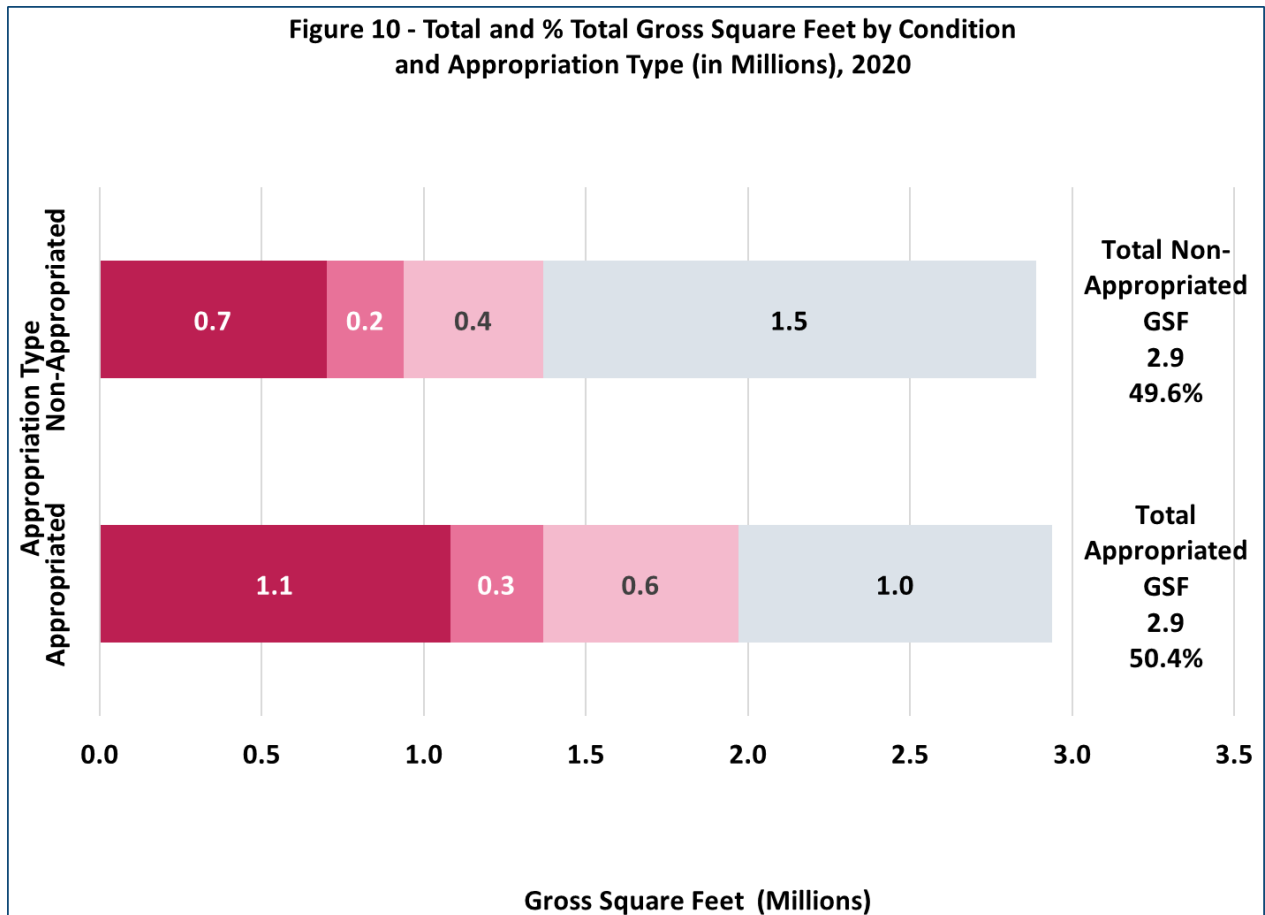
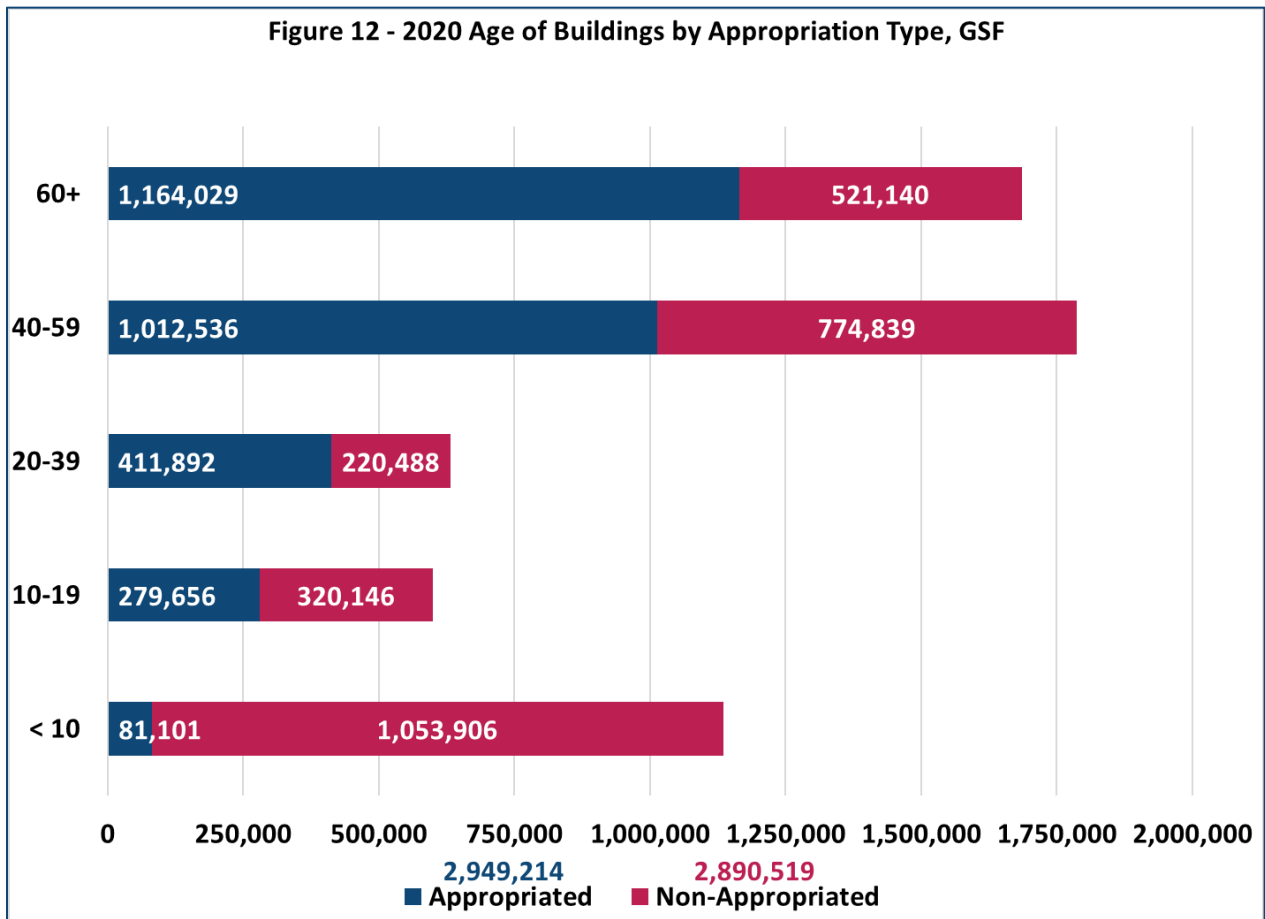
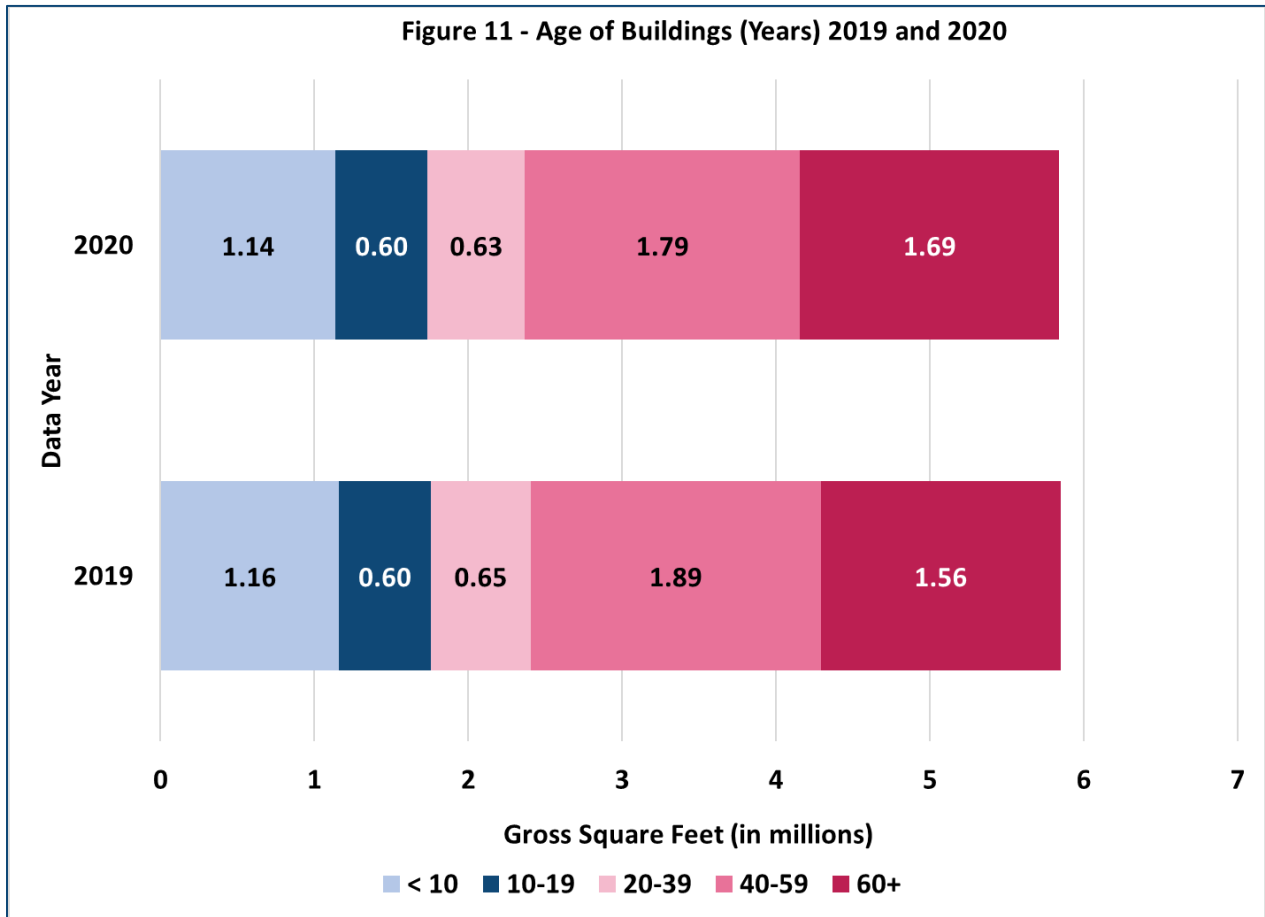


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020





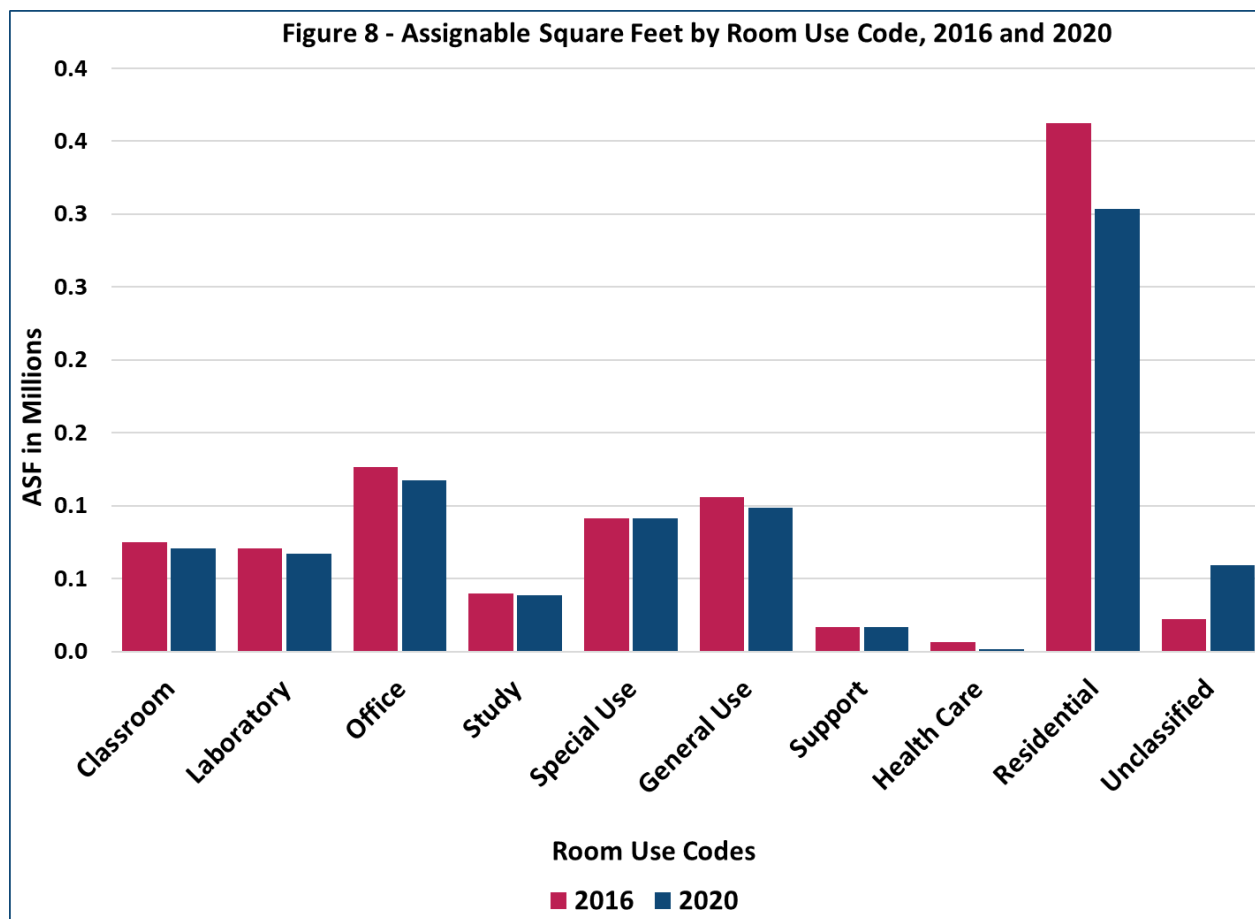
Elizabeth City State University Summary

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 room space characteristics and building characteristics at the university.

Room Space Characteristics

In 2020, the assignable square feet at ECSU remained at 864,764 compared to the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	263,126	30.43%	28.73%	1.70%
Research	2,774	0.32%	0.30%	0.02%
Public Service	18,787	2.17%	2.05%	0.12%
Student Service	398,958	46.13%	47.93%	-1.80%
Other	181,119	20.94%	20.98%	-0.04%



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 864,764 square feet of assignable space, having decreased by -5.7% within the last five years. Since 2019, gross square footage has remained unchanged.

Elizabeth City State University Building Characteristics	
52 Total Buildings	
	49 Owned
31 Appropriated	0 Leased
21 Non-appropriated	3 Other Agreement
52 Total	52 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

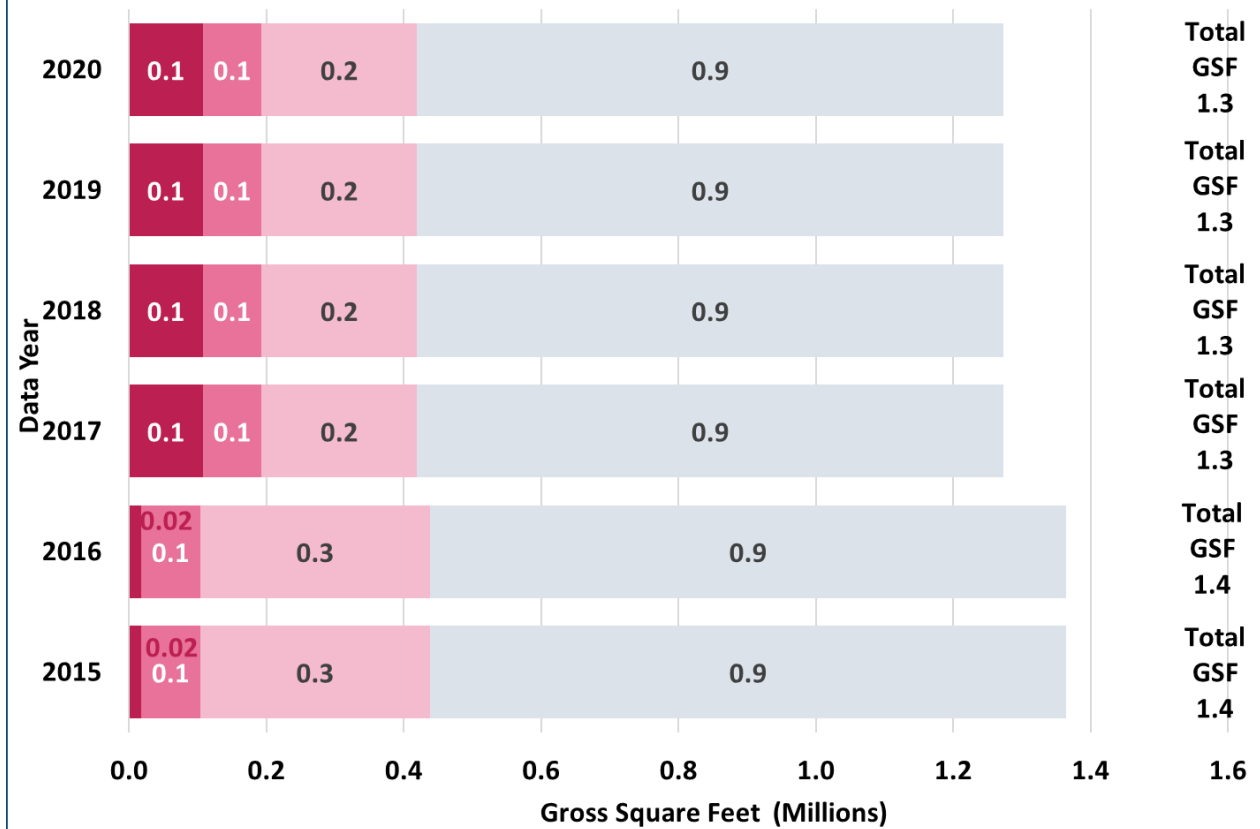
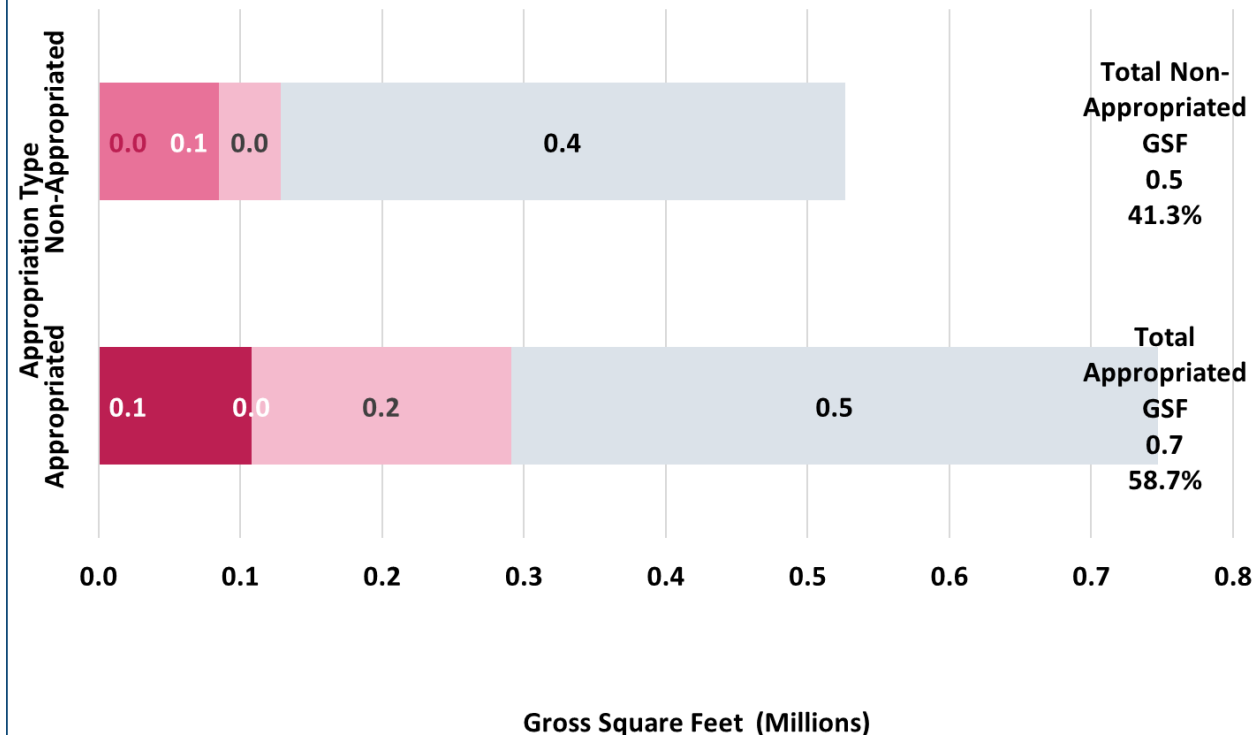
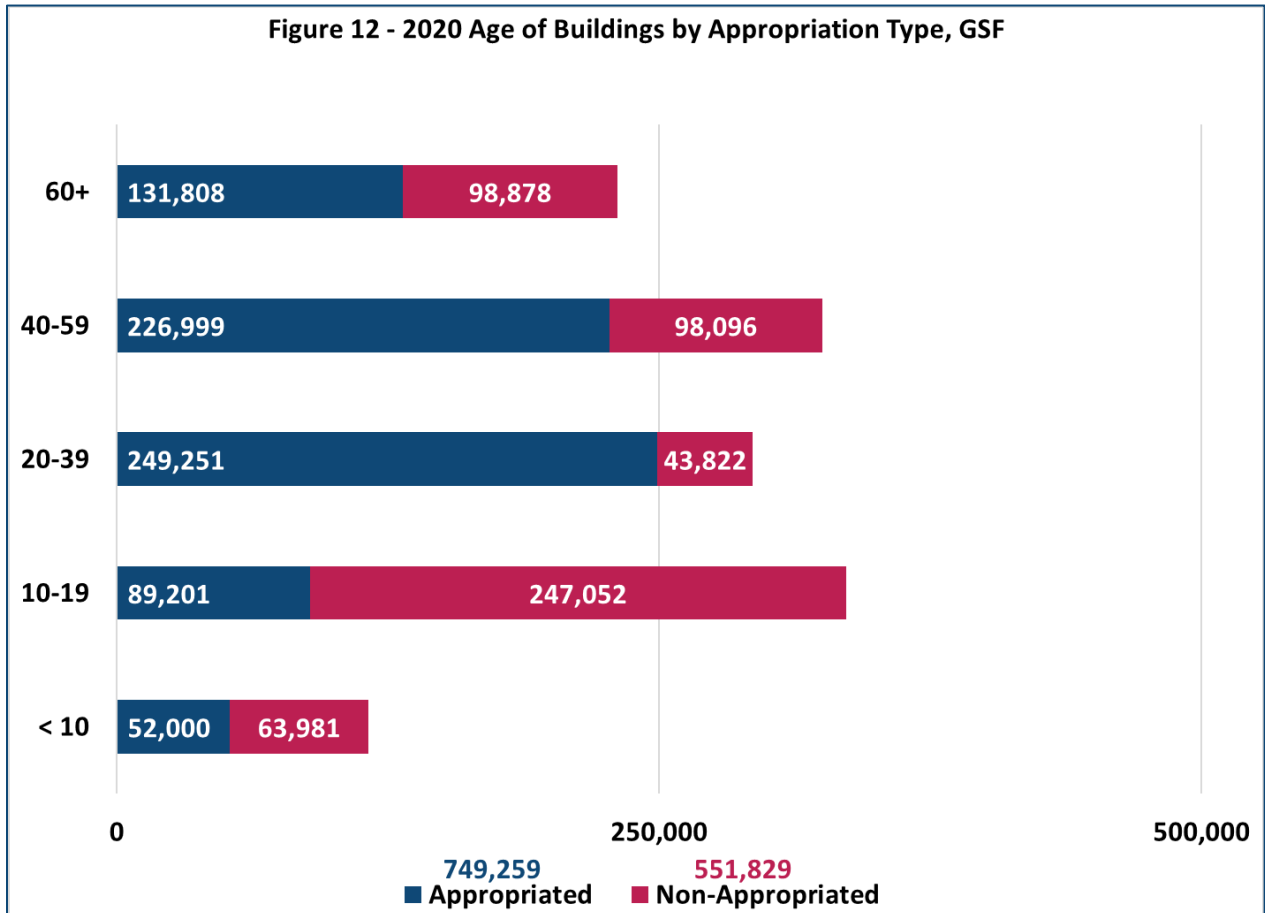
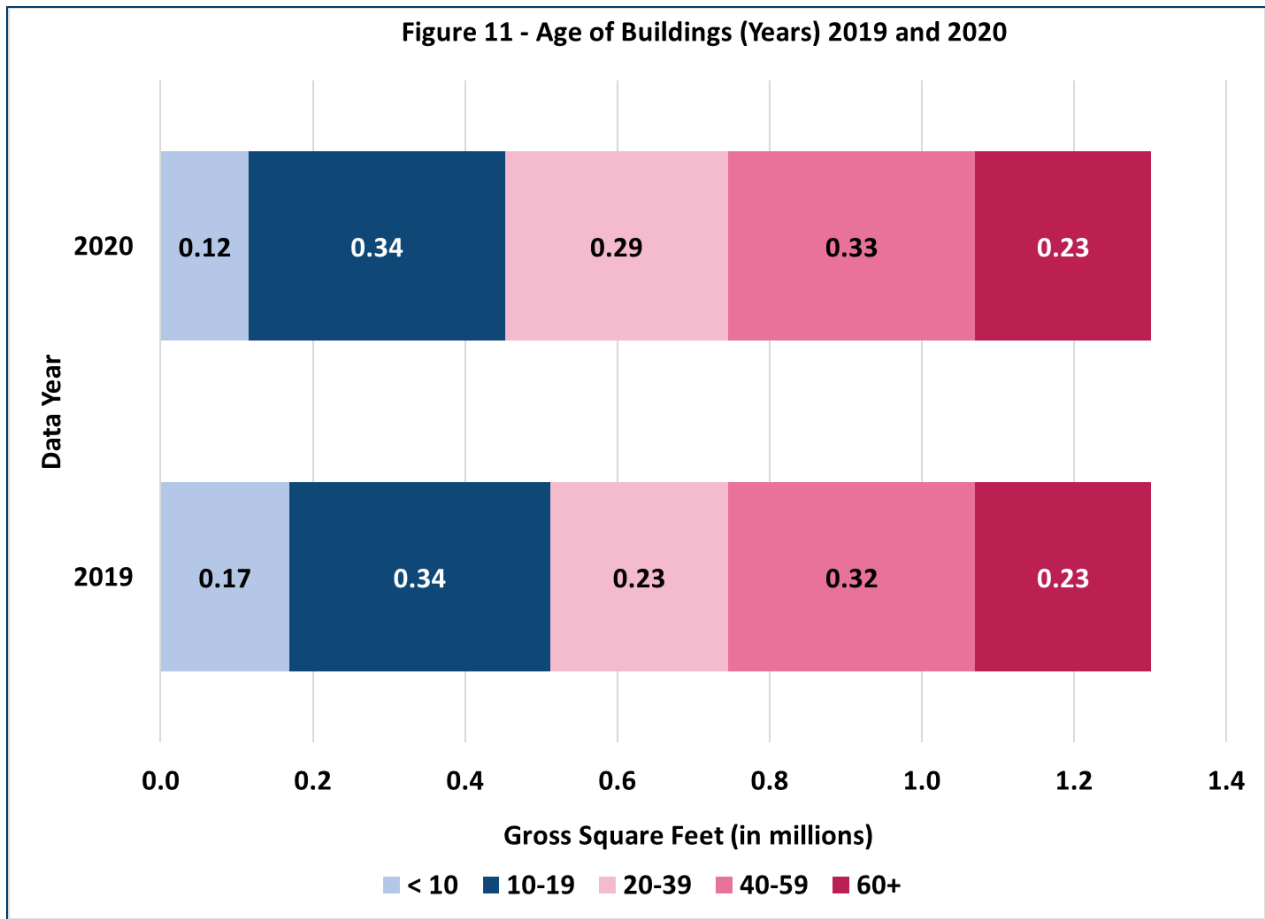


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



Elizabeth City State University Summary

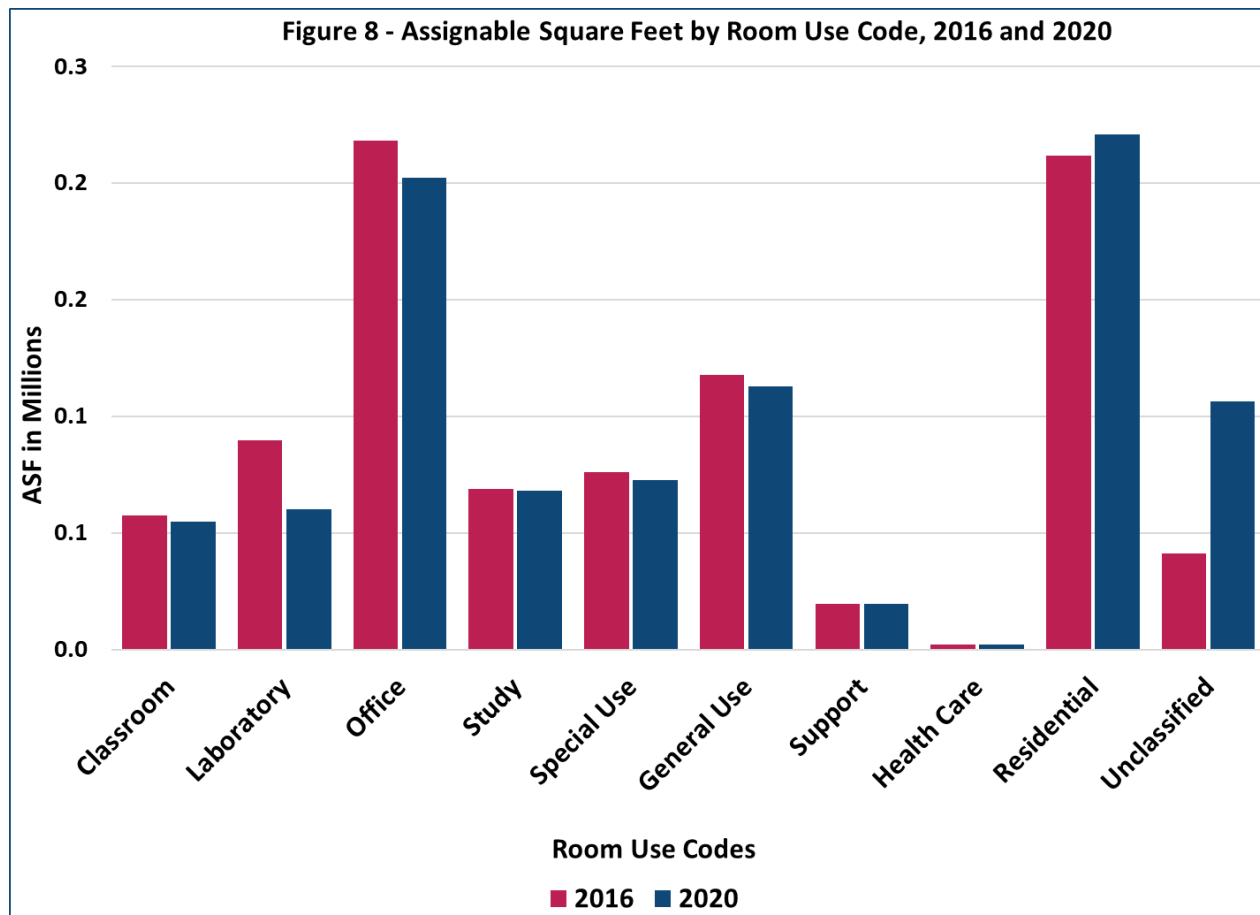


Founded in 1867 in the city of Fayetteville, Fayetteville State University continues the proud legacy of providing a high quality, affordable education. FSU offers 43 degree programs and has options for online learning or the traditional HBCU campus life experience. The figures below focus on room space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

Room Space Characteristics

In 2020, 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 2020	% of Total in 2016	% Change
Instruction	258,420	28.10%	33.87%	-5.76%
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%	40.86%	0.27%
Other	272,734	29.66%	23.46%	6.20%



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 2019, gross square footage has remained unchanged.

Fayetteville State University Building Characteristics	
50 Total Buildings	
	46 Owned
31 Appropriated	0 Leased
19 Non-appropriated	4 Other Agreement
50 Total	50 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

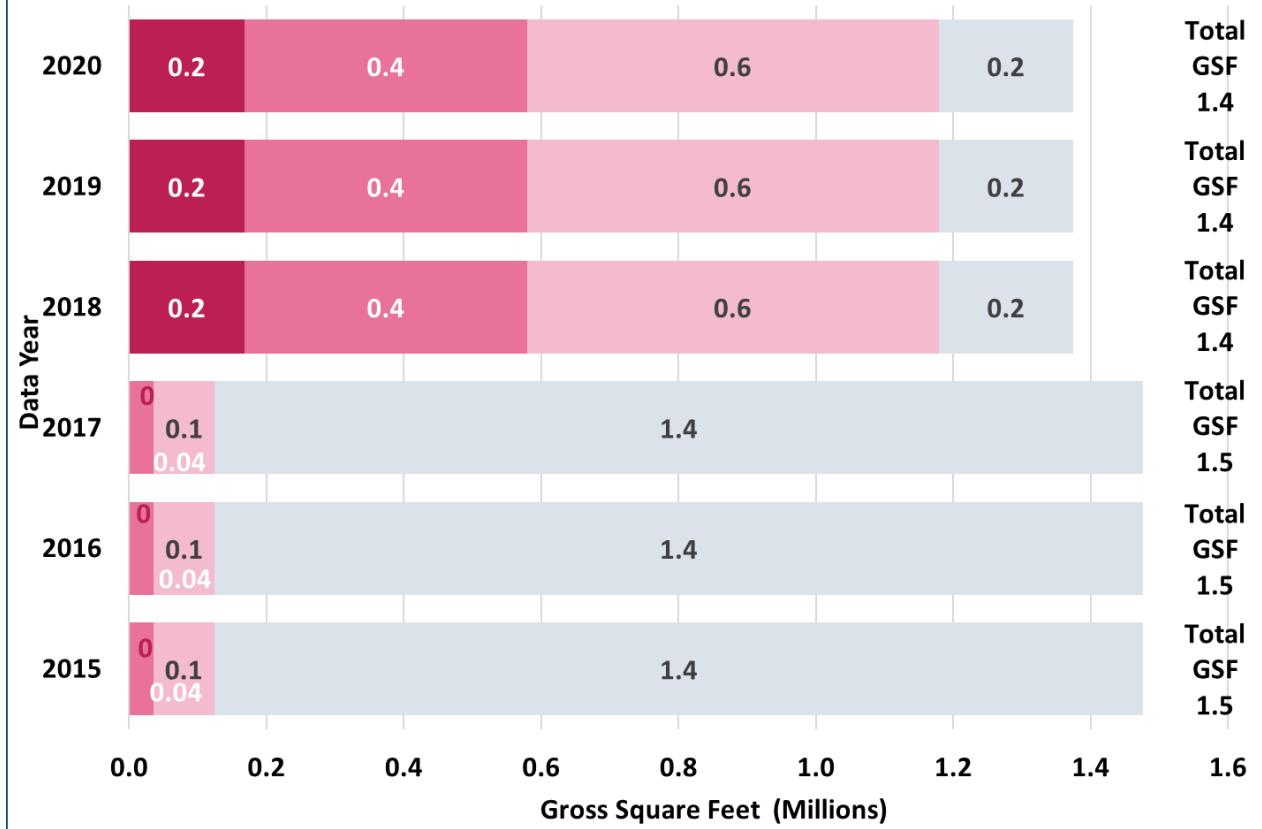
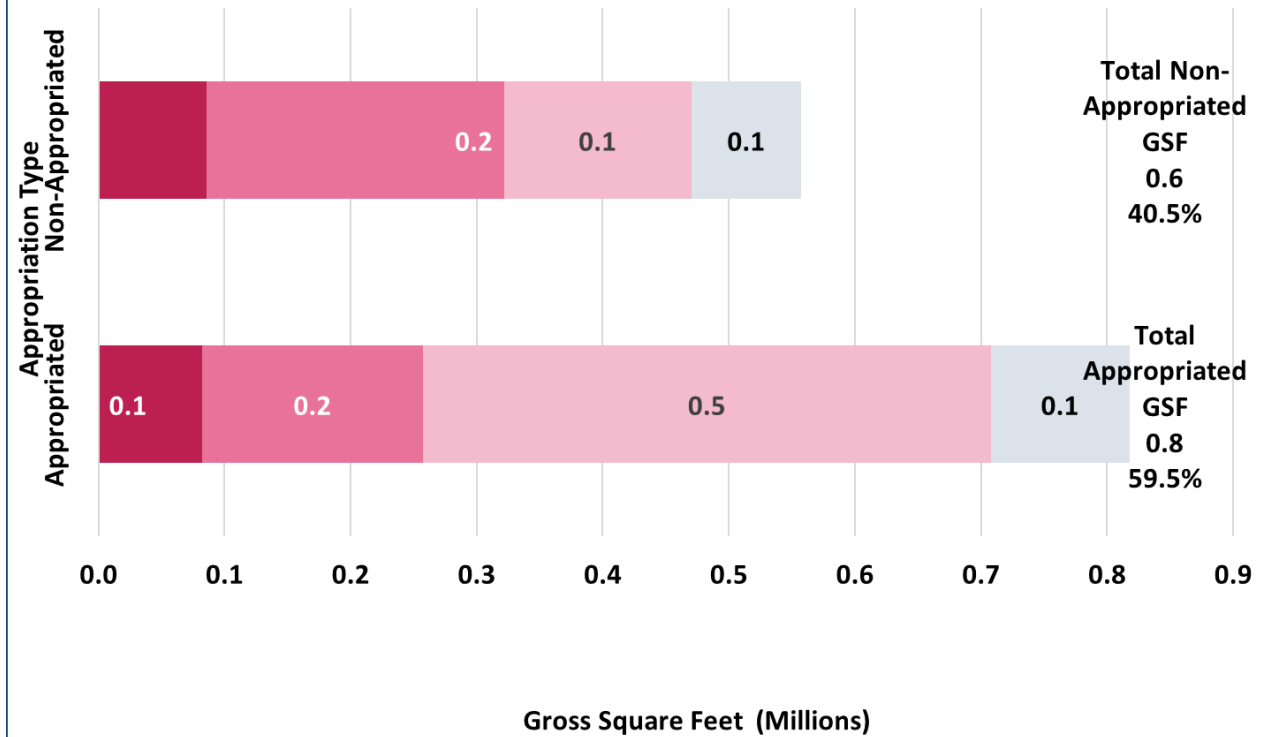
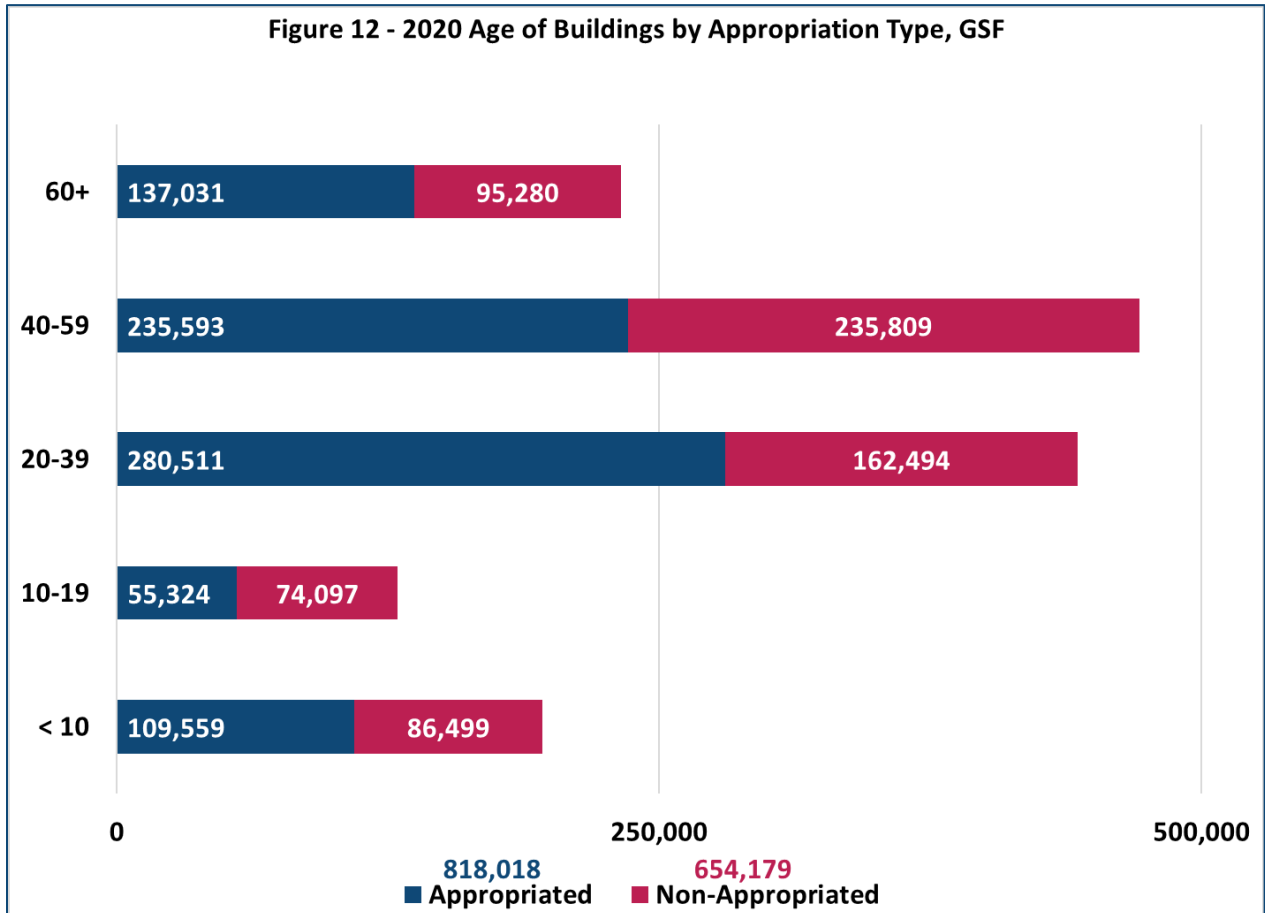
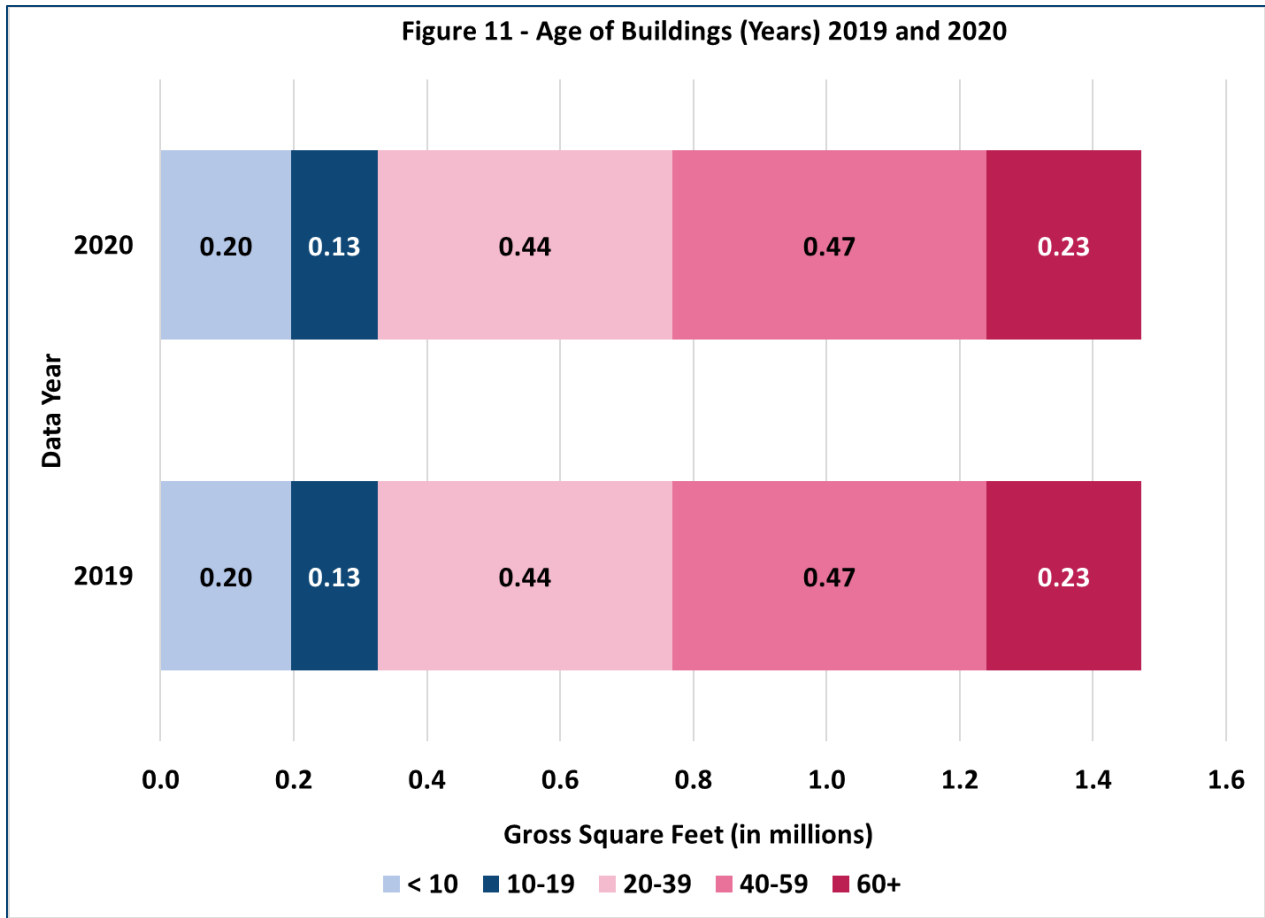


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



Fayetteville State University Summary

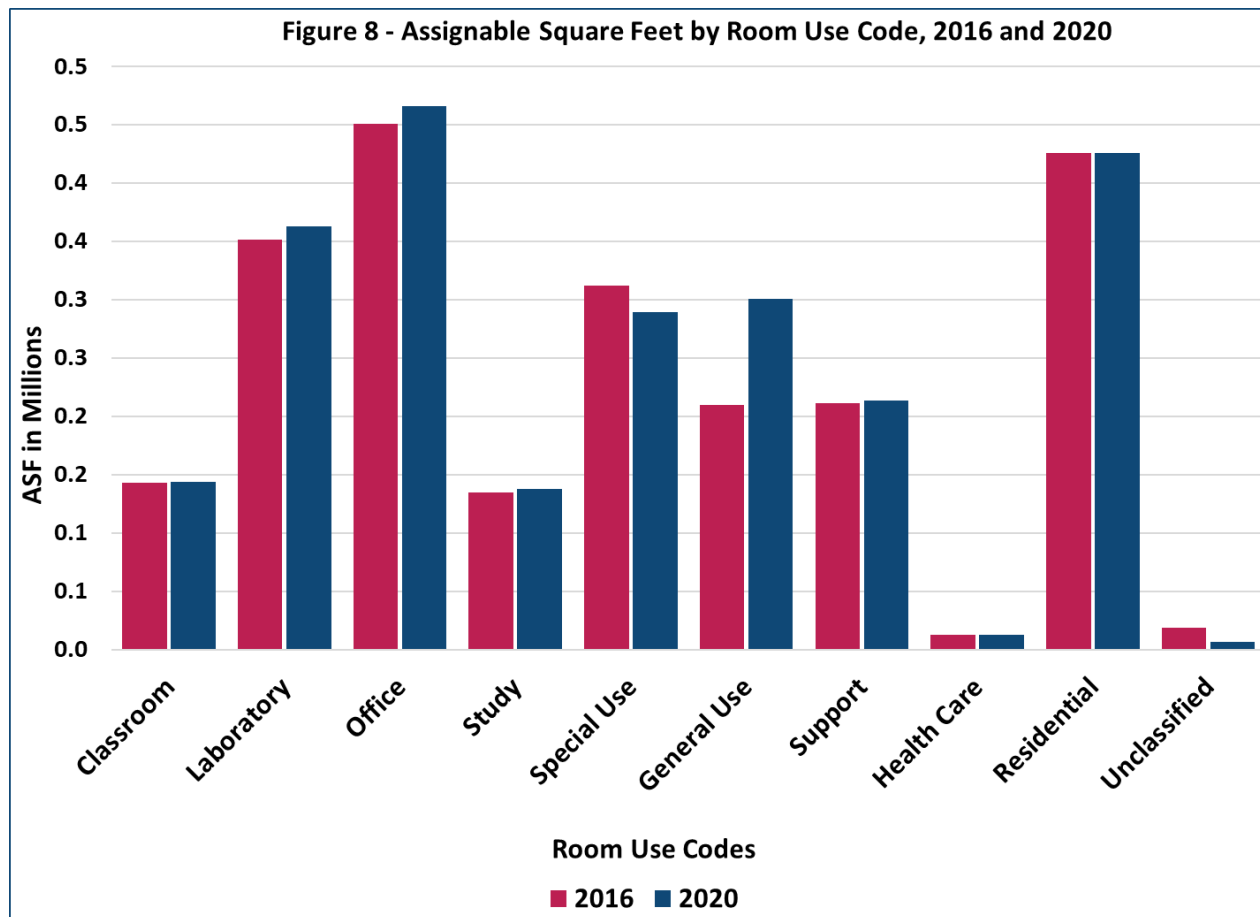


For nearly 130 years in Greensboro, North Carolina A&T has believed in the power of students to change the world. As a land grant, doctoral research university, A&T is ranked the number one producer of African American graduates in Engineering and Agriculture and the number one public historically black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

Room Space Characteristics

In 2020, the assignable square feet at N.C. A&T remained unchanged from the previous year at 2,359,182.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	731,880	31.02%	32.57%	-1.55%
Research	180,217	7.64%	7.91%	-0.27%
Public Service	24,419	1.04%	1.08%	-0.04%
Student Service	793,311	33.63%	30.88%	2.75%
Other	629,355	26.68%	27.56%	-0.88%



Building Characteristics

North Carolina Agricultural & Technical State University has 3,404,024 gross square feet of space comprised of 122 buildings (14 residential, 108 non-residential; 96 appropriated, 26 non-appropriated; 118 owned, 3 leased, 1 under other agreement terms) with 2,359,182 square feet of assignable space, having increased by 4.0% within the last five years. Since 2019, gross square footage has remained unchanged.

North Carolina A&T State University Building Characteristics	
122 Total Buildings	
	118 Owned
96 Appropriated	3 Leased
26 Non-appropriated	1 Other Agreement
<hr/> 122 Total	<hr/> 122 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

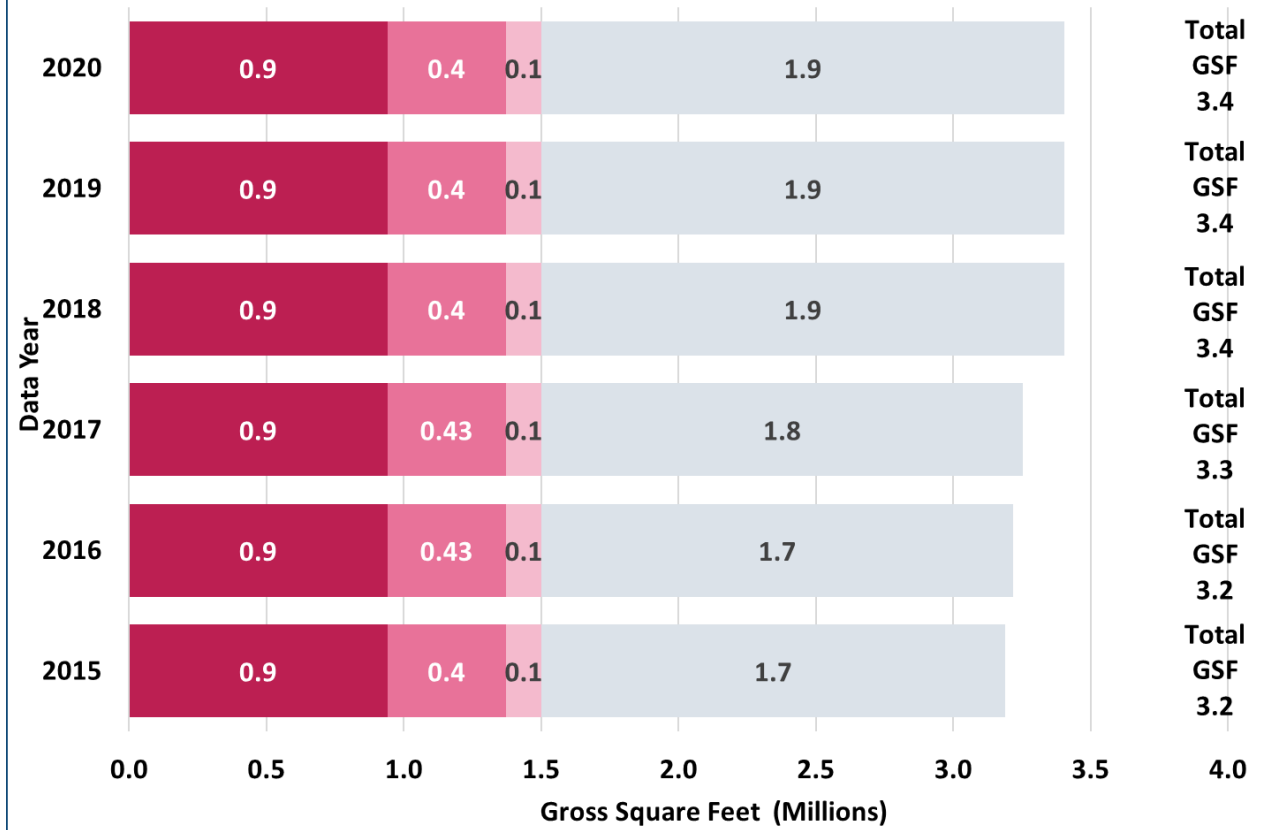
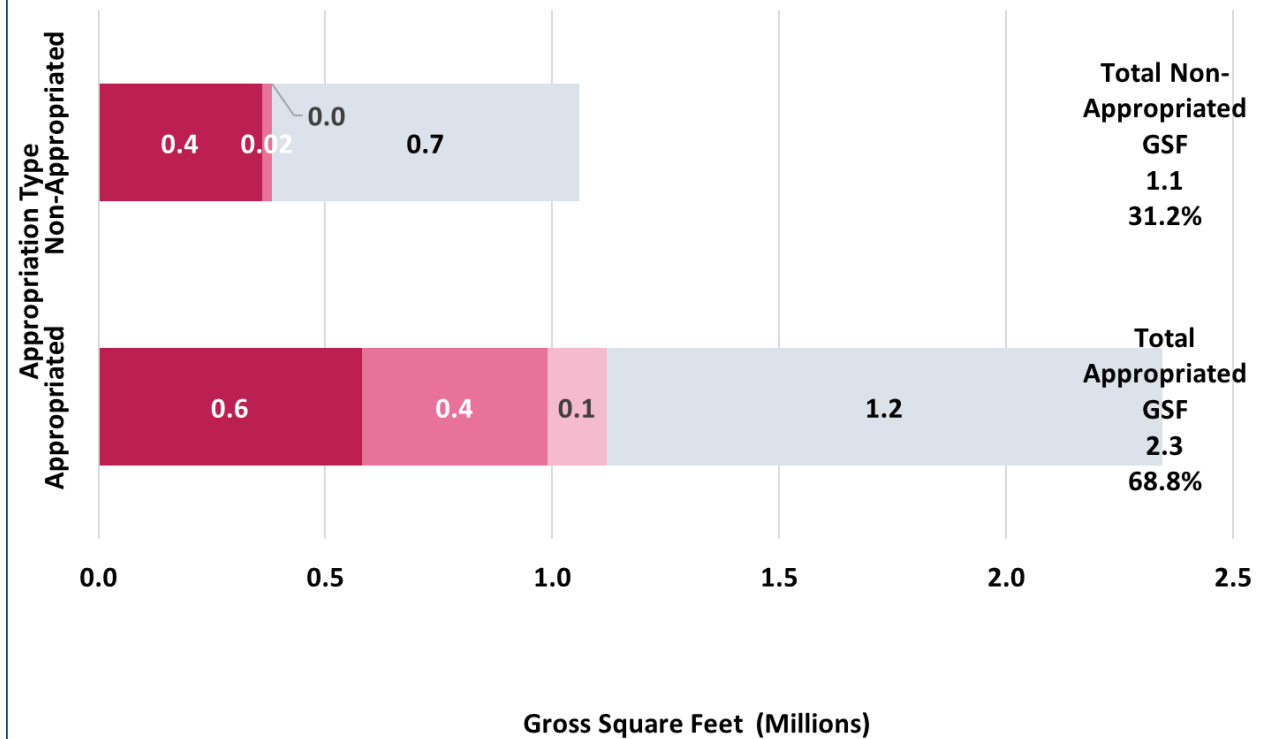
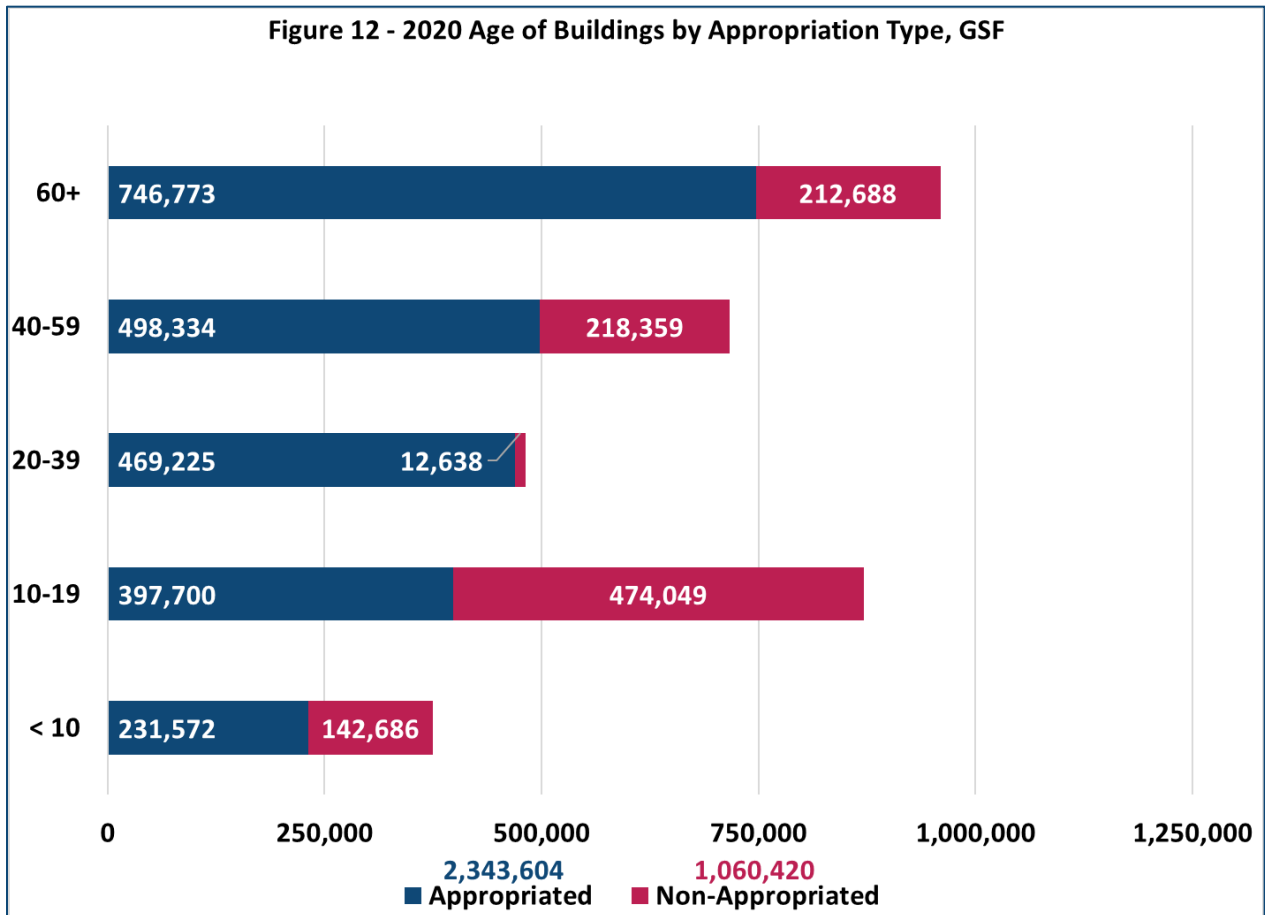
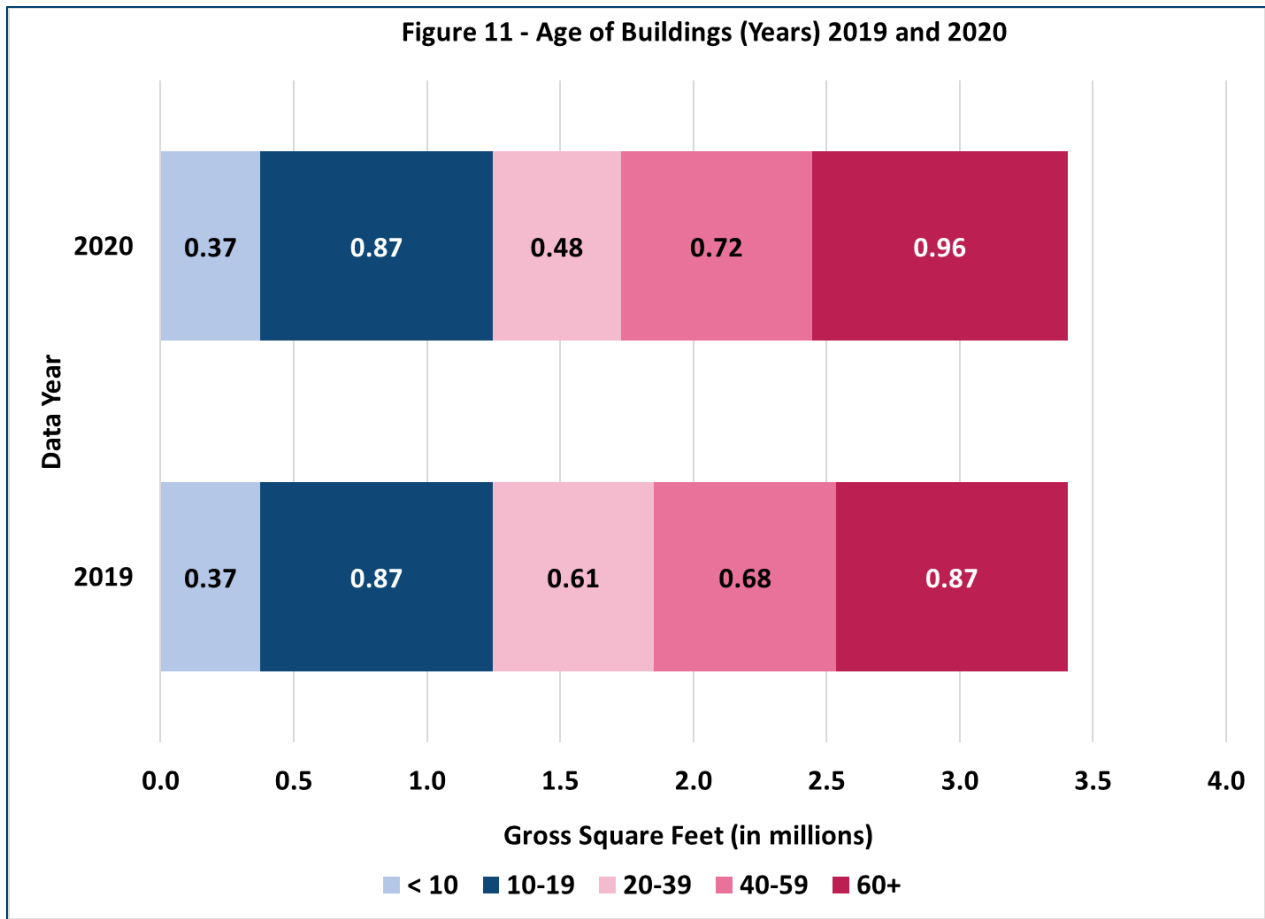


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



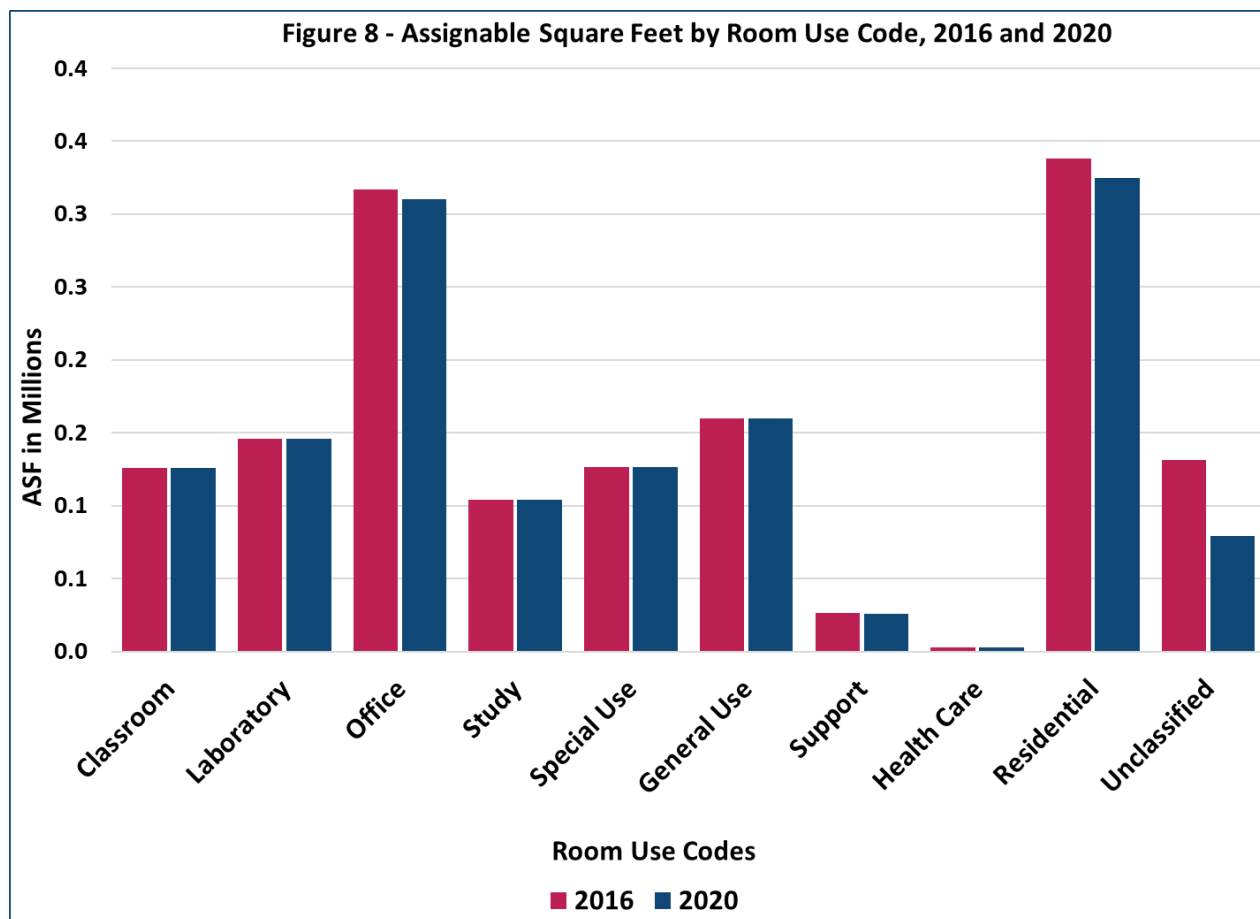


North Carolina Central University, a top-ranking southern regional university and historically black university, is located in Durham, adjacent to Research Triangle Park. Established in 1910, the university today offers bachelor’s degrees in 100 disciplines, master’s degrees in more than 40 areas, and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

Room Space Characteristics

In 2020, the assignable square feet at NCCU remained unchanged from the previous year at 1,404,771.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	530,589	37.77%	35.91%	1.86%
Research	32,962	2.35%	2.23%	0.12%
Public Service	8,275	0.59%	0.56%	0.03%
Student Service	526,135	37.45%	36.49%	0.96%
Other	306,810	21.84%	24.82%	-2.97%



Building Characteristics

North Carolina Central University has 2,194,489 gross square feet of space comprised of 57 buildings (11 residential, 46 non-residential; 42 appropriated, 15 non-appropriated; 55 owned, 0 leased, 2 under other agreement terms) with 1,404,771 square feet of assignable space, having decreased by -4.9% within the last five years. Since 2019, gross square footage has remained unchanged.

North Carolina Central University Building Characteristics	
57 Total Buildings	
	55 Owned
42 Appropriated	0 Leased
15 Non-appropriated	2 Other Agreement
<hr/> 57 Total	<hr/> 57 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

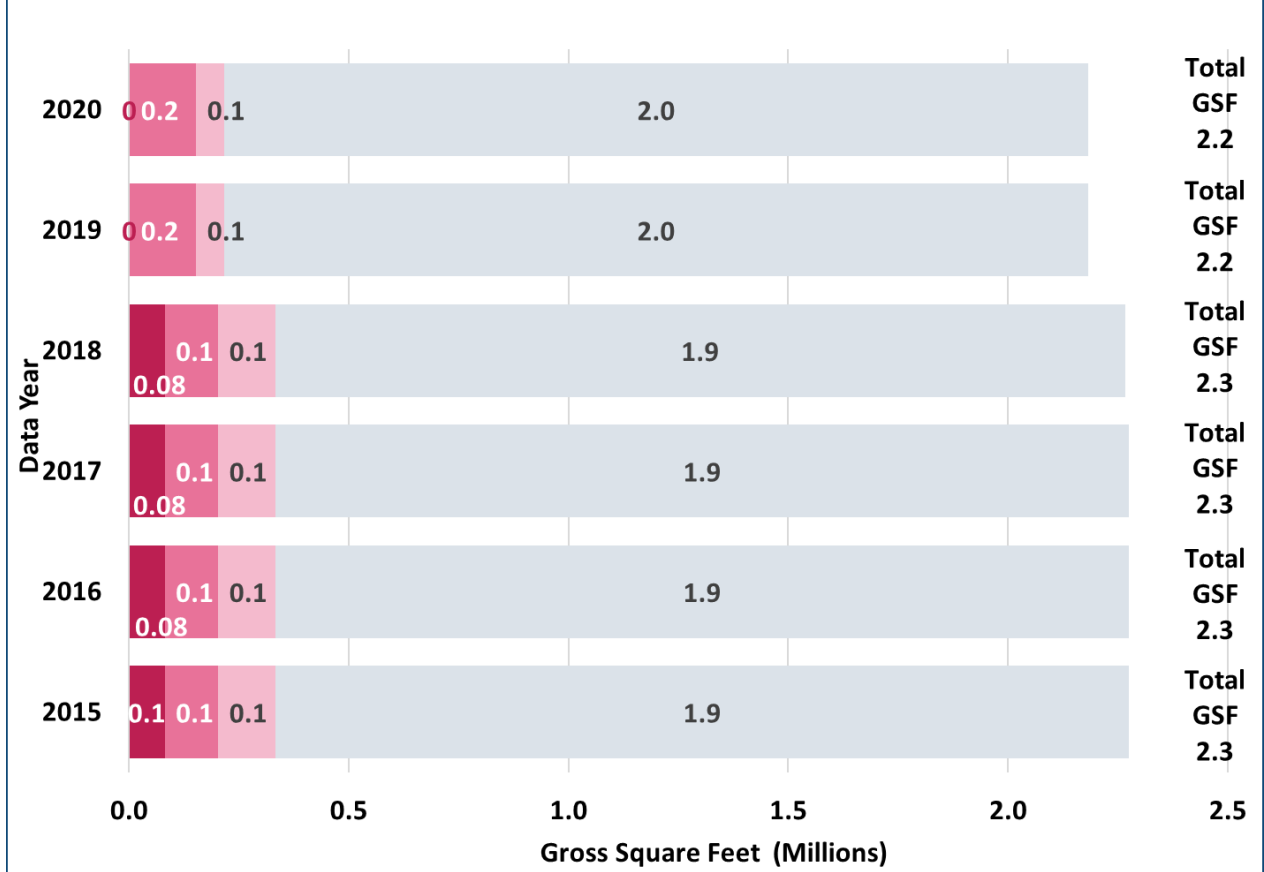
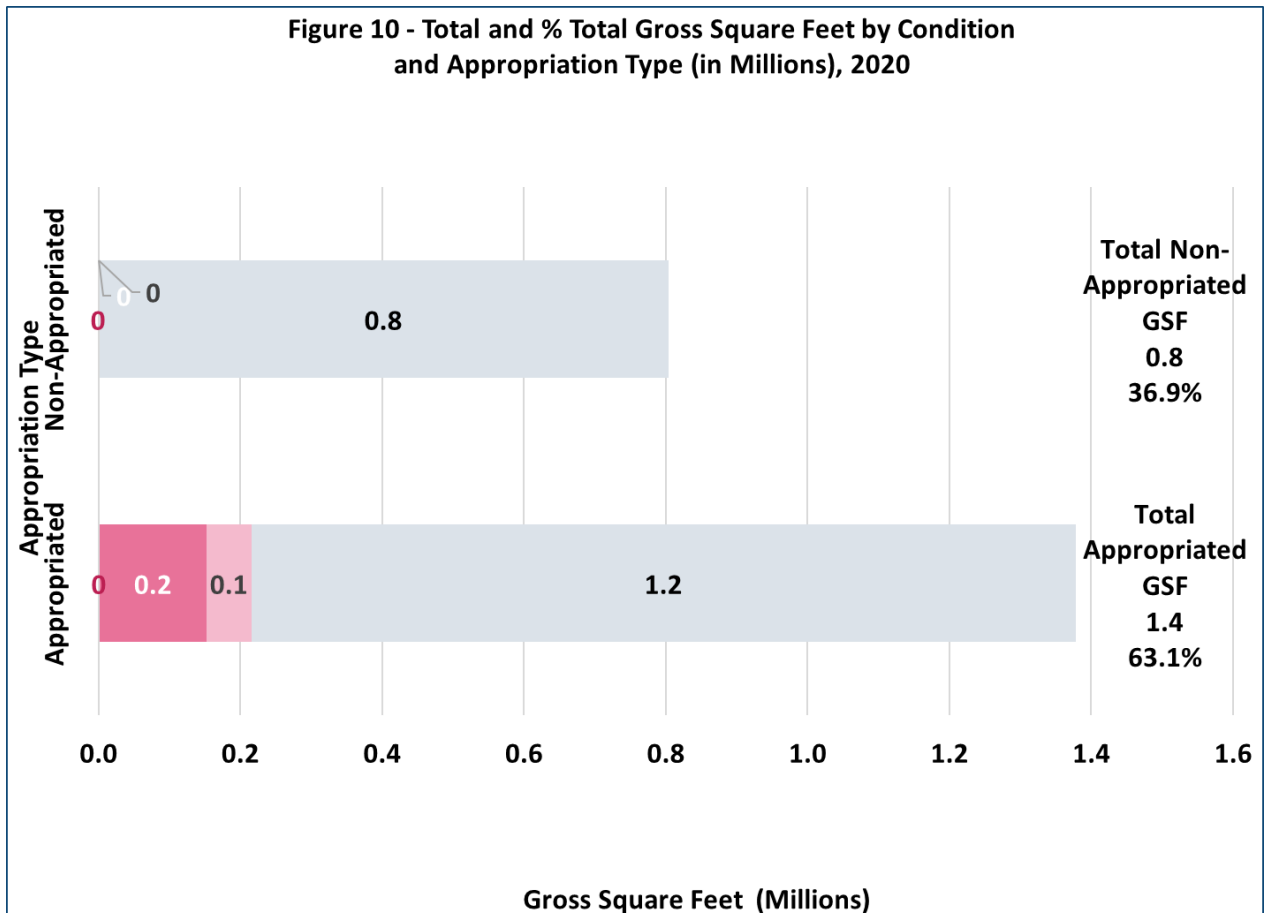
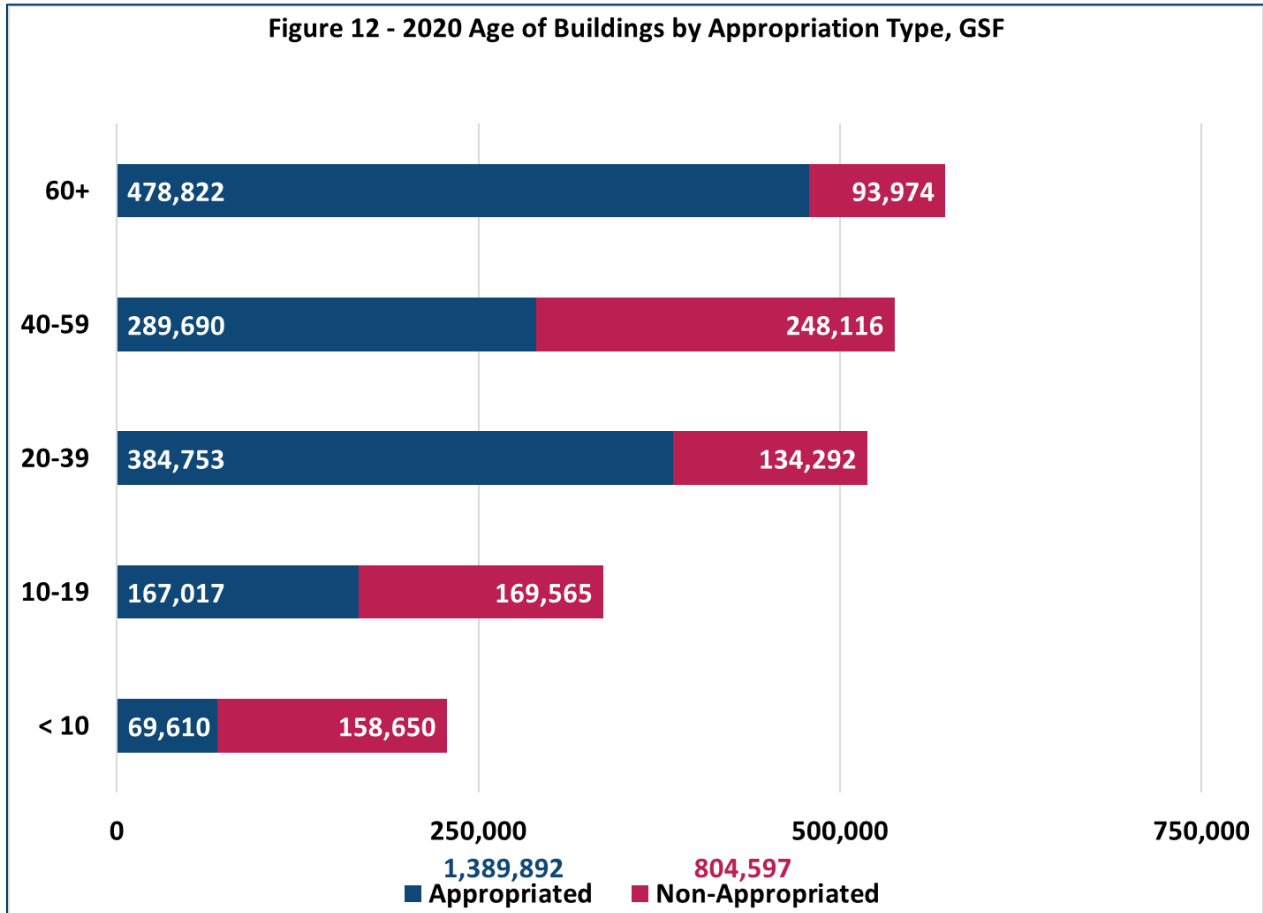
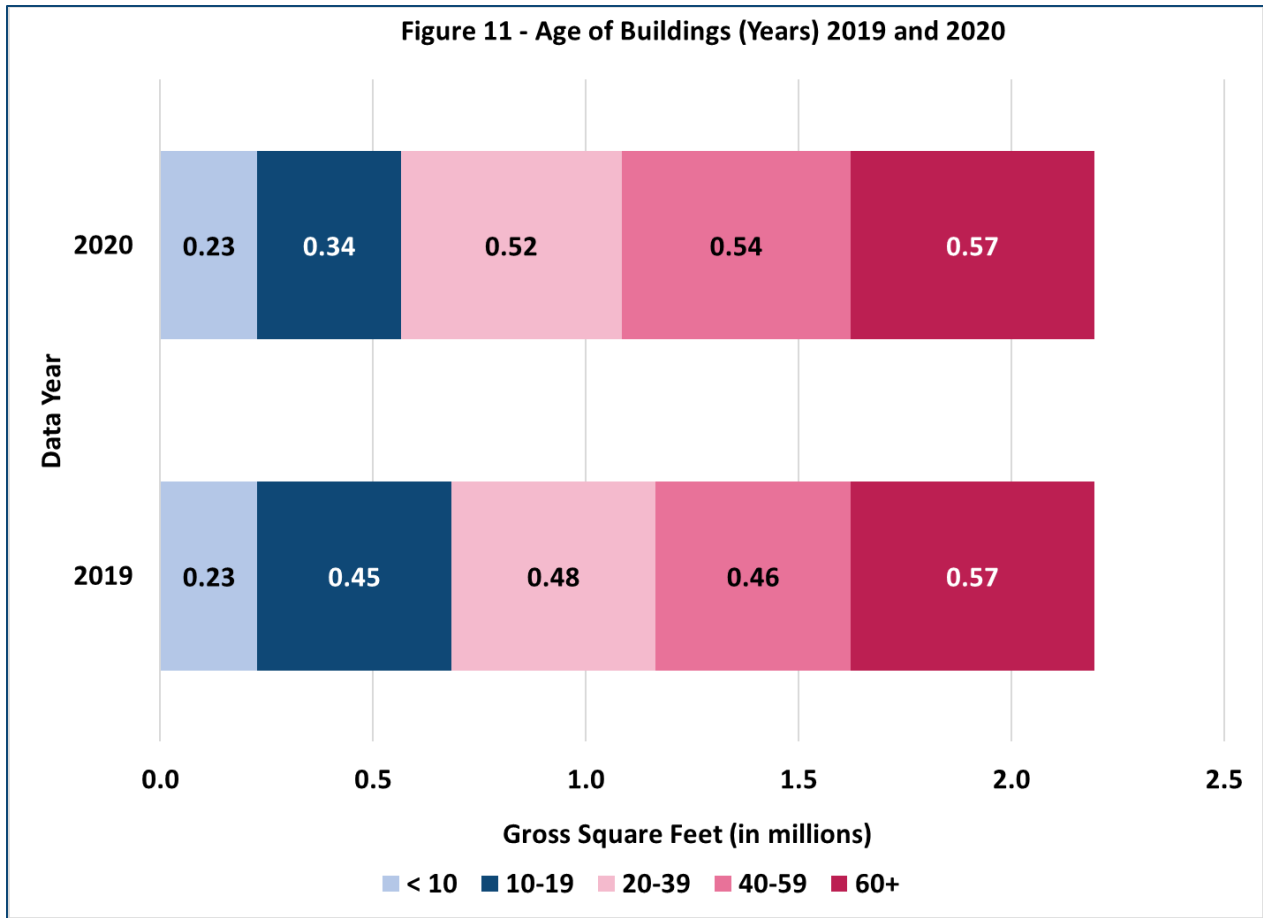


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



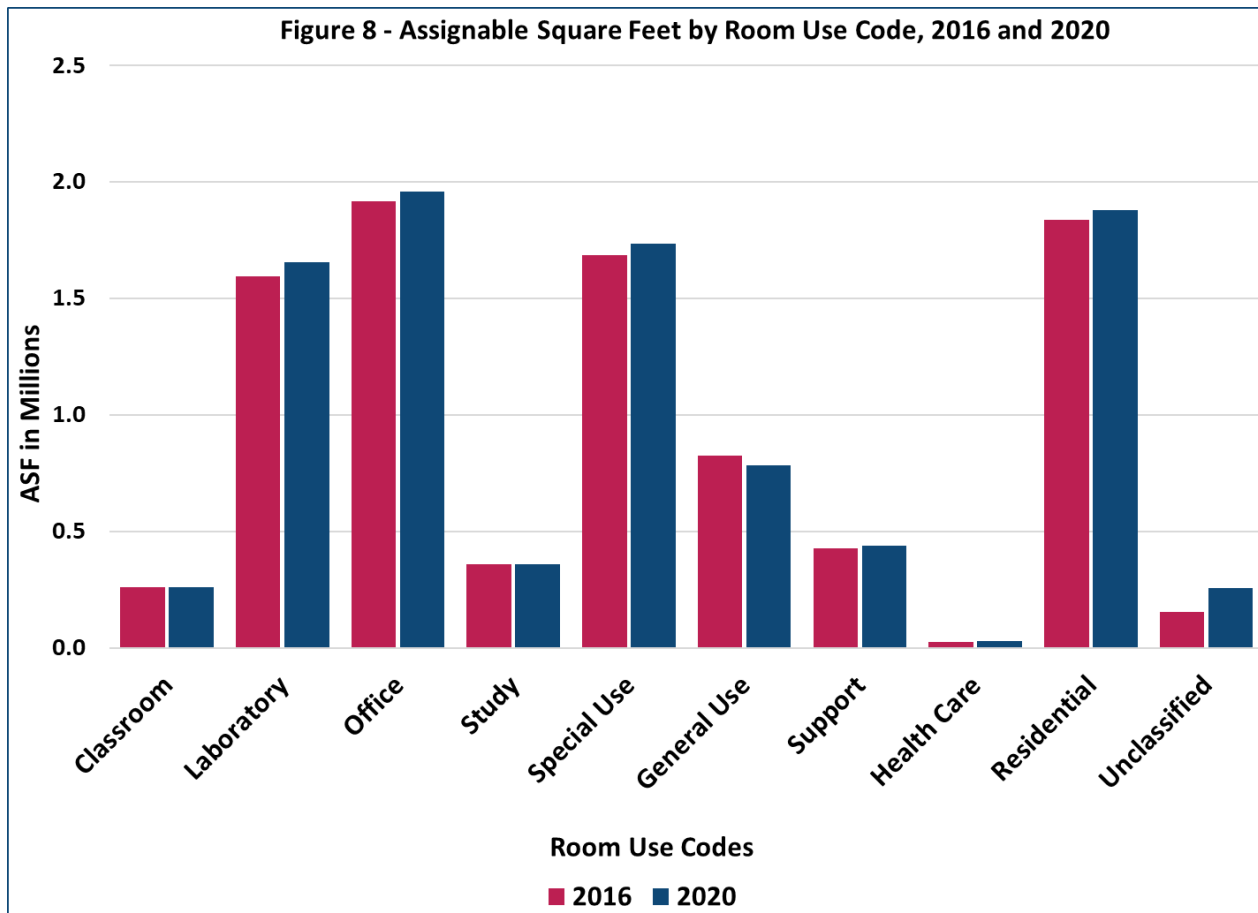


Originally founded as the North Carolina College of Agriculture and Mechanic Arts in 1887, NC State was established as a land-grant college, teaching its first classes in Raleigh in 1889. NC State is the largest university in the Carolinas and a world-renowned research powerhouse with more than 170 startups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

Room Space Characteristics

In 2020, the assignable square feet at NCSU increased from 9,166,469 to 9,353,620, or 2.0% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	1,767,823	18.90%	18.63%	0.27%
Research	2,588,510	27.67%	27.63%	0.04%
Public Service	449,127	4.80%	4.59%	0.21%
Student Service	2,913,817	31.15%	32.19%	-1.04%
Other	1,634,343	17.47%	16.96%	0.52%



Building Characteristics

North Carolina State University has 16,735,185 gross square feet of space comprised of 1,119 buildings (148 residential, 971 non-residential; 951 appropriated, 168 non-appropriated; 968 owned, 35 leased, 116 under other agreement terms) with 9,353,620 square feet of assignable space, having increased by 2.9% within the last five years. Since 2019, gross square footage has increased by 258,765 SF, or 1.6%.

North Carolina State University Building Characteristics	
1,119 Total Buildings	
	968 Owned
951 Appropriated	35 Leased
168 Non-appropriated	116 Other Agreement
1,119 Total	1,119 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

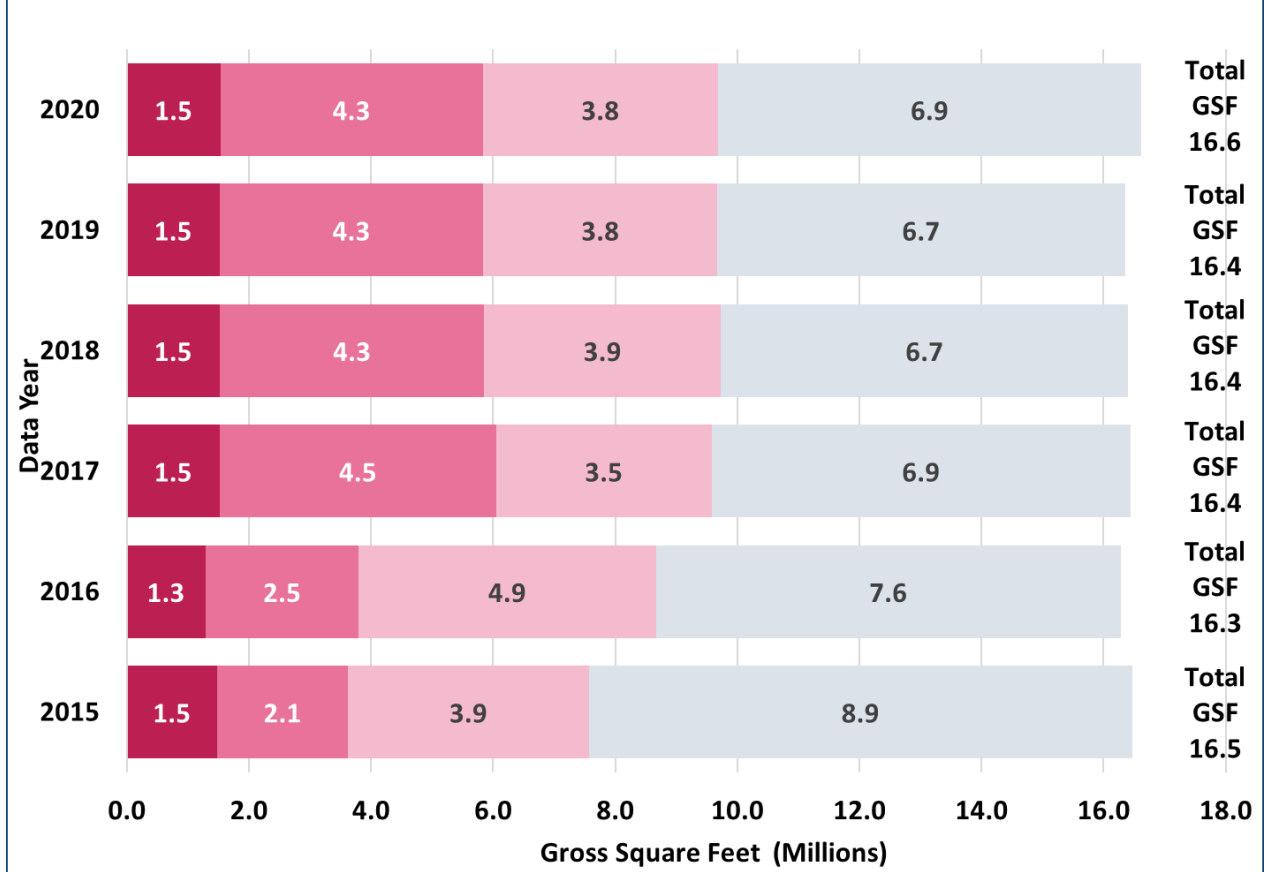
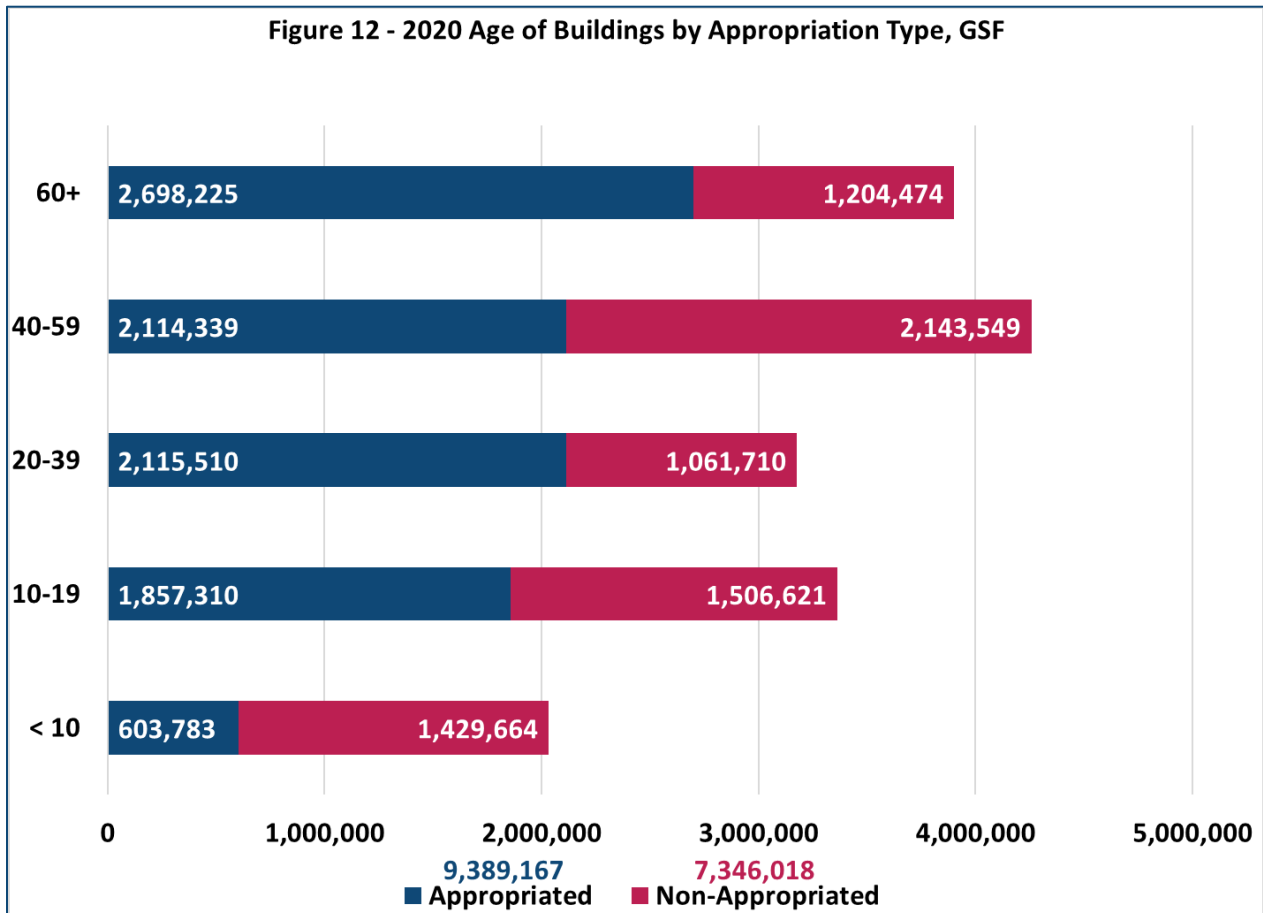
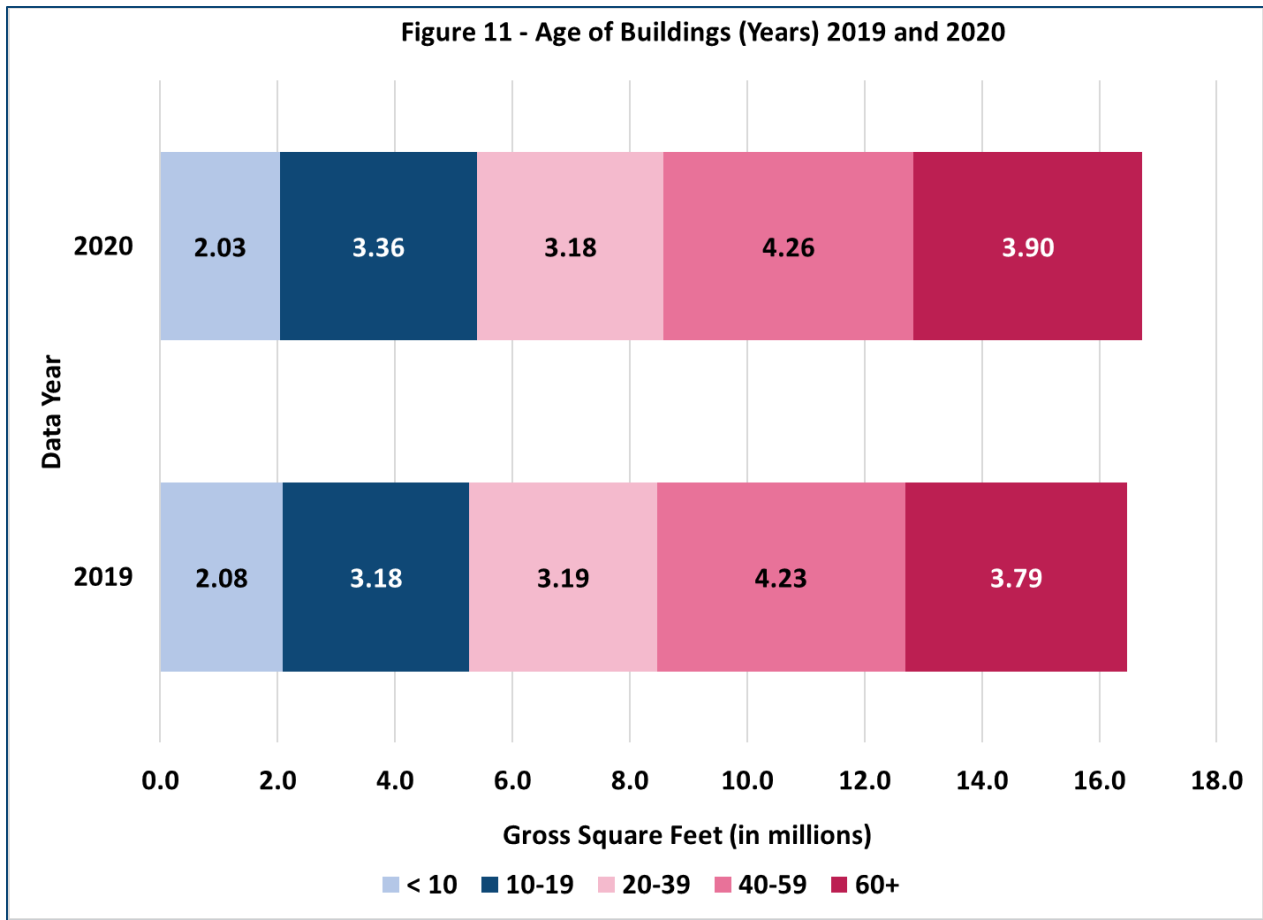


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



North Carolina State University Summary

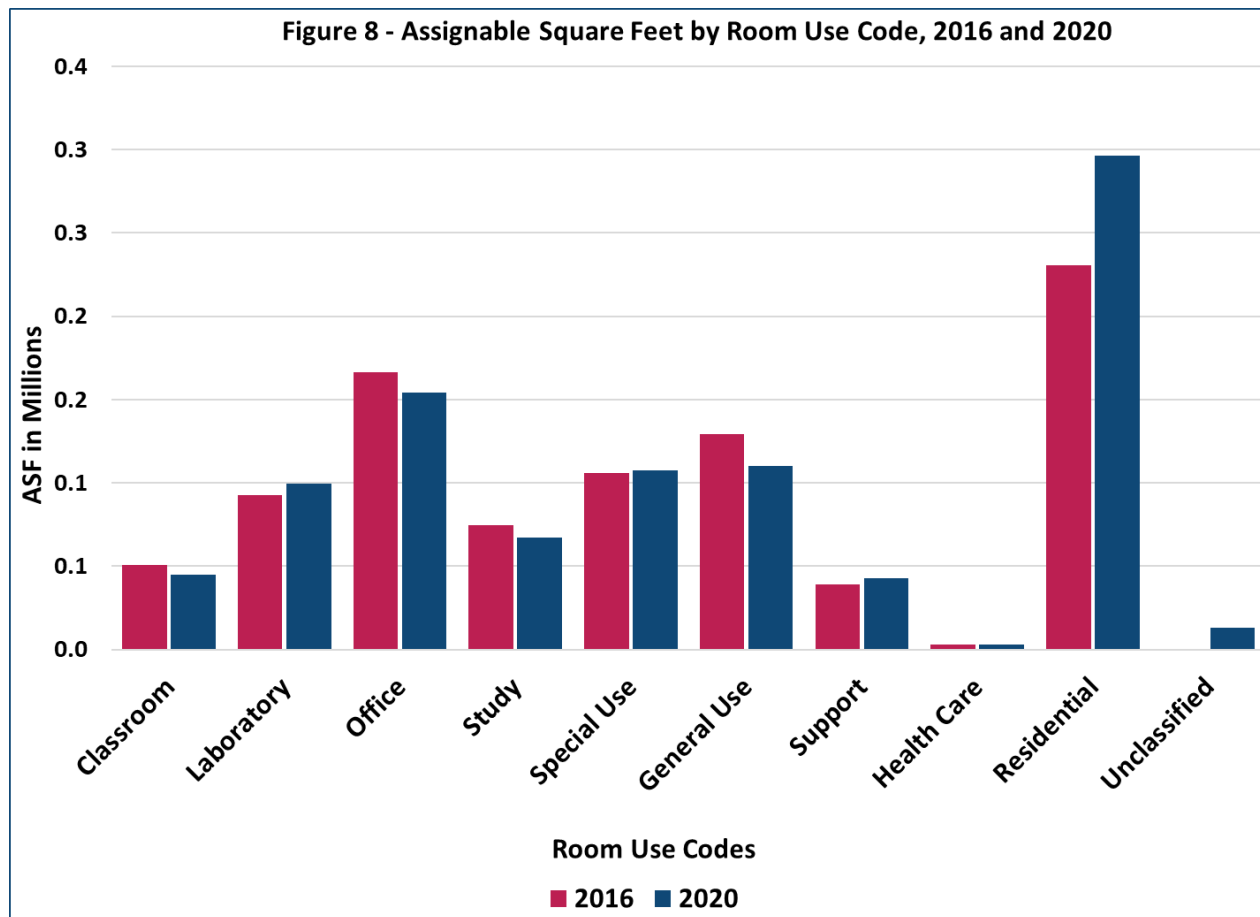


UNC Asheville offers an adaptive, affordable, and relevant education as the designated liberal arts and sciences campus in the UNC System. Established in Asheville in 1927 as the two-year Buncombe County Junior College, today UNCA focuses on undergraduate studies that prepare students for meaningful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

Room Space Characteristics

In 2020, the assignable square feet at UNC Asheville decreased from 975,657 to 939,281, or -3.7% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	206,609	22.00%	24.30%	-2.30%
Research	13,337	1.42%	1.61%	-0.19%
Public Service	10,514	1.12%	1.21%	-0.09%
Student Service	512,287	54.54%	52.07%	2.47%
Other	196,534	20.92%	20.81%	0.11%



Building Characteristics

University of North Carolina Asheville has 1,643,696 gross square feet of space comprised of 51 buildings (21 residential, 30 non-residential; 23 appropriated, 28 non-appropriated; 36 owned, 2 leased, 14 under other agreement terms) with 939,281 square feet of assignable space, having increased by 5.3% within the last five years. Since 2019, gross square footage has decreased - 47,366 SF, or -2.8%.

University of North Carolina Asheville Building Characteristics	
51 Total Buildings	
	36 Owned
23 Appropriated	2 Leased
28 Non-appropriated	13 Other Agreement
51 Total	51 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

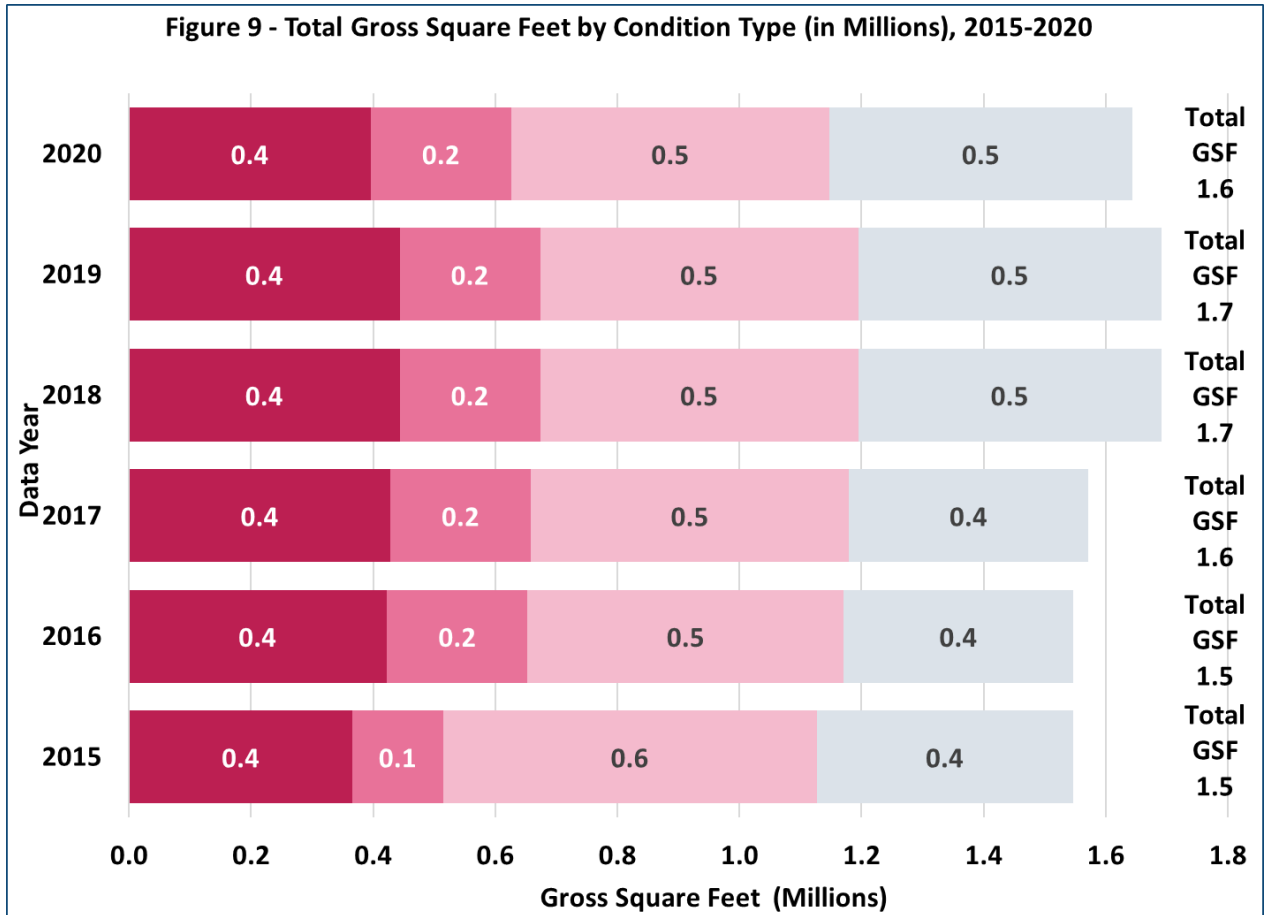
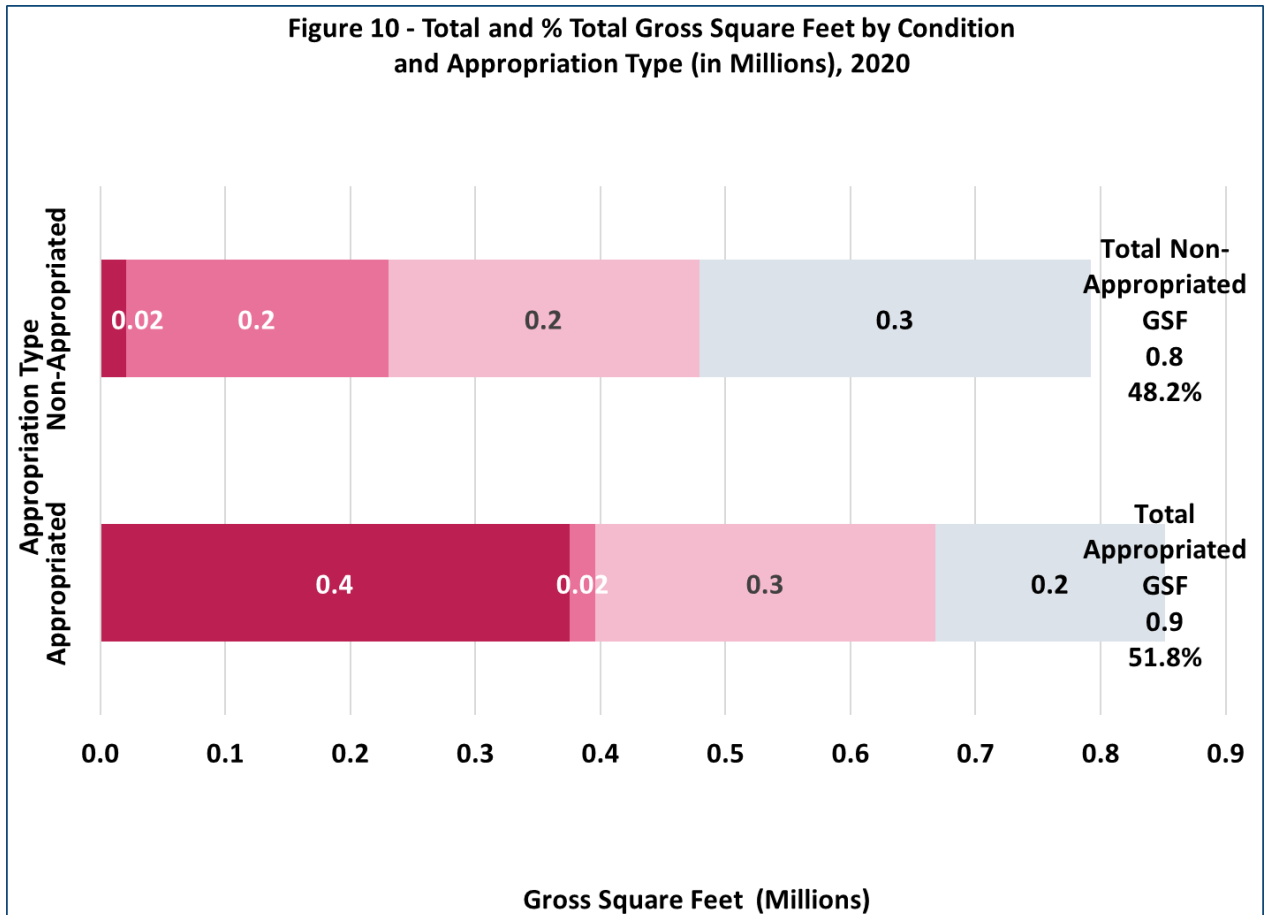
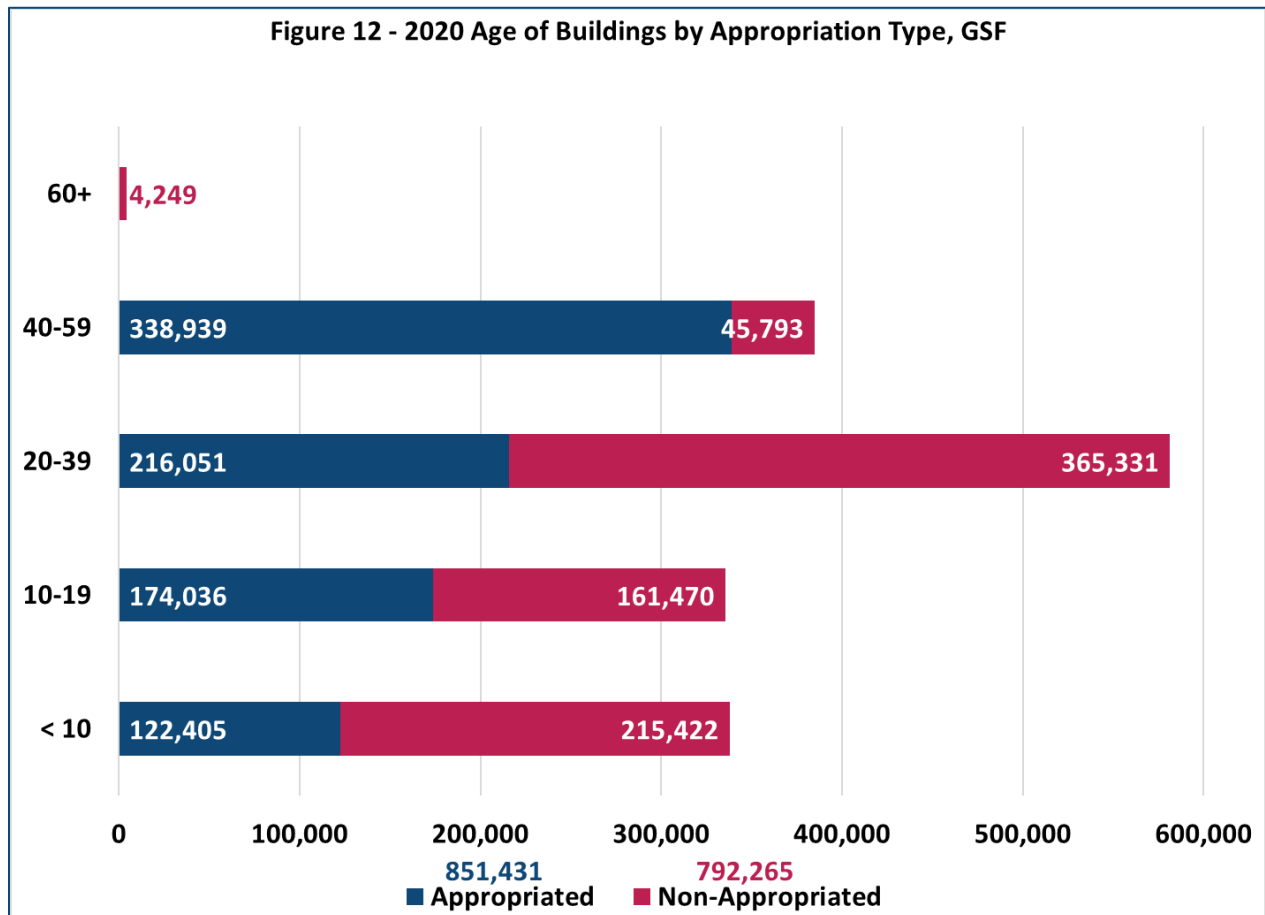
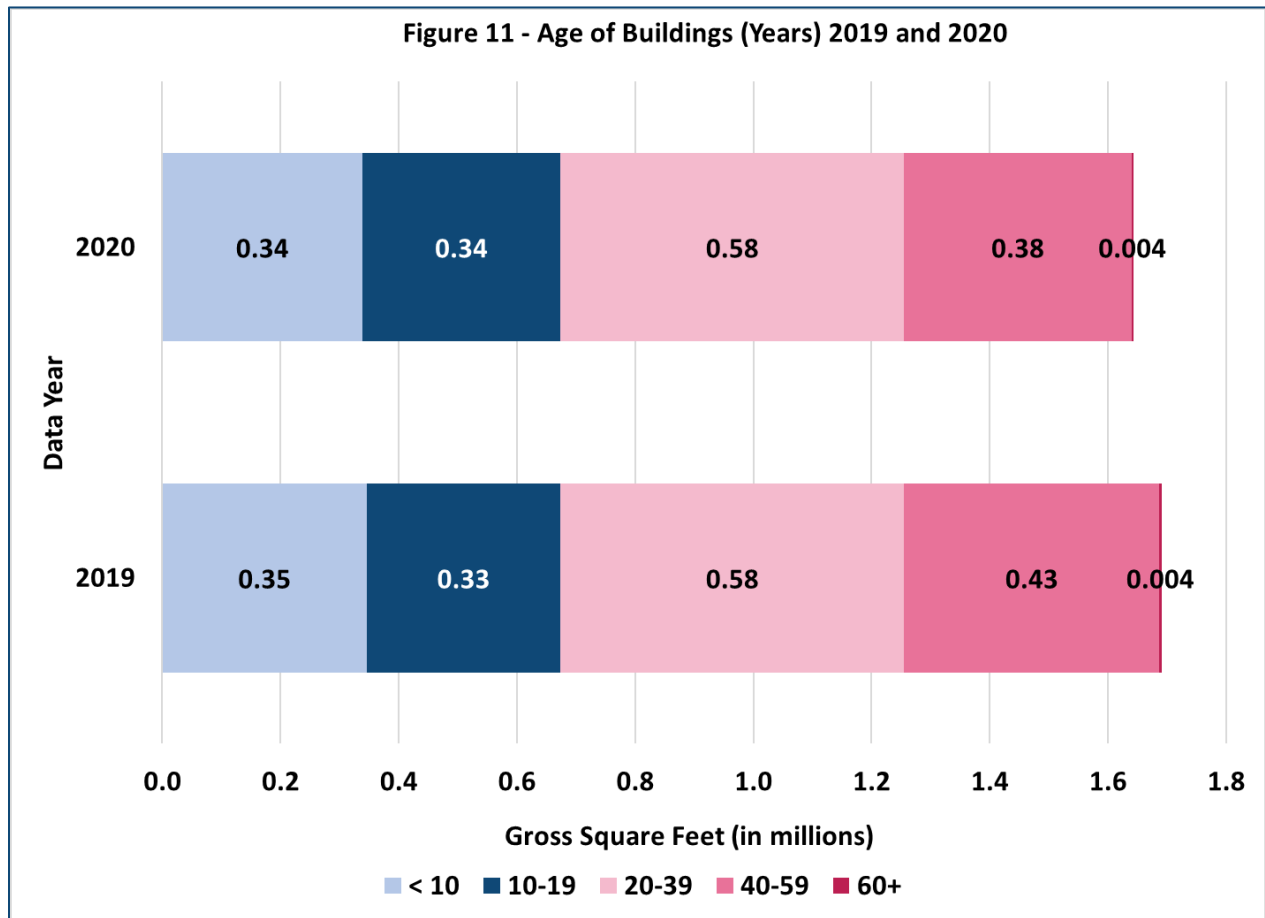


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



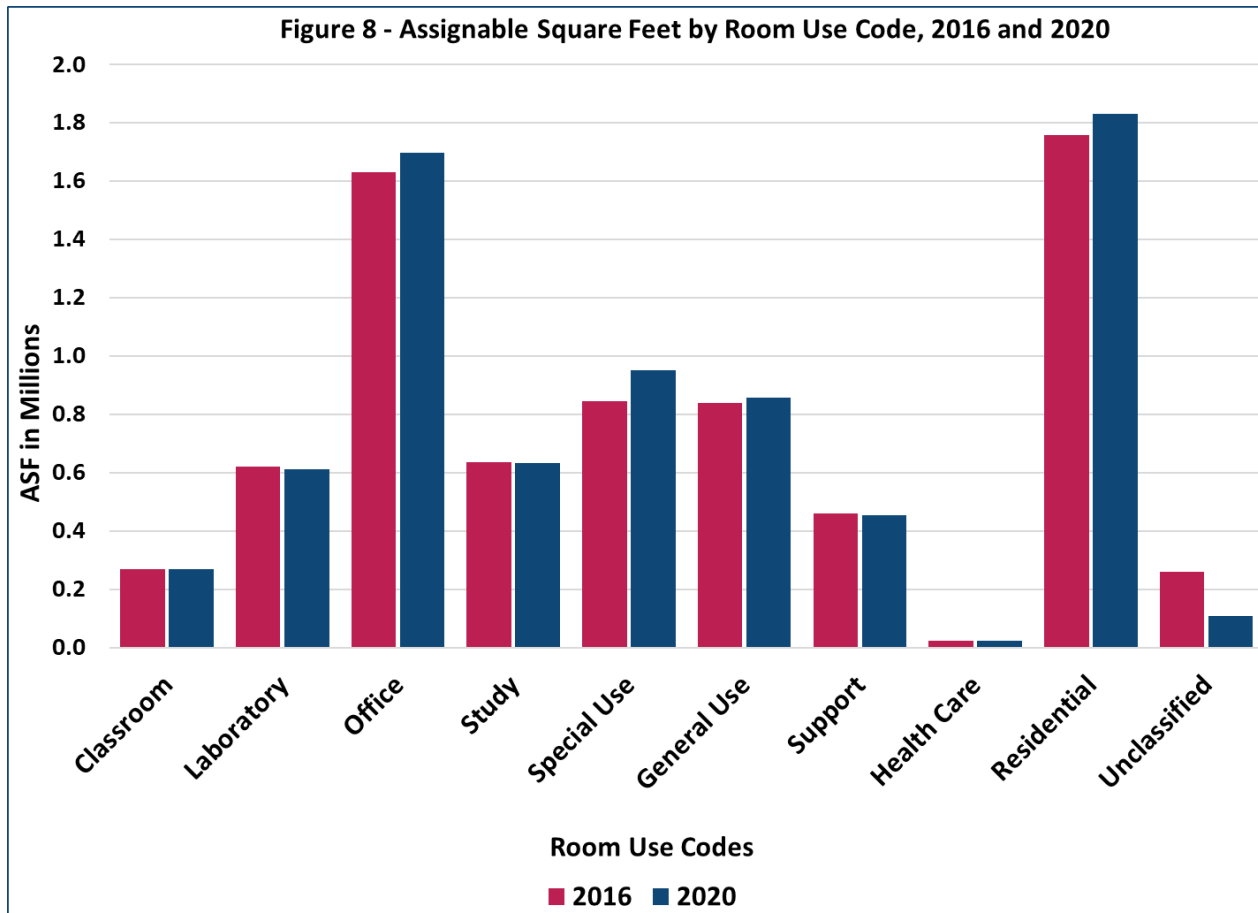


The University of North Carolina at Chapel Hill is a leading global public research university, committed to and a leader in providing access to a high-quality, affordable education to students from all backgrounds. Carolina’s nationally recognized teaching, groundbreaking research, and dedication to 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 room space characteristics and building characteristics at the university. The data in this summary excludes UNC-Chapel Hill Health Affairs.

Room Space Characteristics

In 2020, the assignable square feet at UNC-Chapel Hill decreased from 7,372,784 to 7,329,279, or -0.6% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	1,710,165	23.01%	21.31%	1.70%
Research	560,460	7.54%	7.37%	0.17%
Public Service	45,869	0.62%	0.64%	-0.02%
Student Service	3,387,223	45.58%	45.99%	-0.42%
Other	1,728,232	23.25%	24.69%	-1.44%



Building Characteristics

The University of North Carolina at Chapel Hill has 13,445,549 gross square feet of space comprised of 372 buildings (76 residential, 296 non-residential; 163 appropriated, 209 non-appropriated; 351 owned, 18 leased, 3 under other agreement terms) with 7,431,949 square feet of assignable space, having increased by 1.2% within the last five years. Since 2019, gross square footage has increased by 104,349 SF, or 0.8%.

University of North Carolina at Chapel Hill Building Characteristics	
372 Total Buildings	
	351 Owned
163 Appropriated	18 Leased
209 Non-appropriated	3 Other Agreement
<hr/> 372 Total	<hr/> 372 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

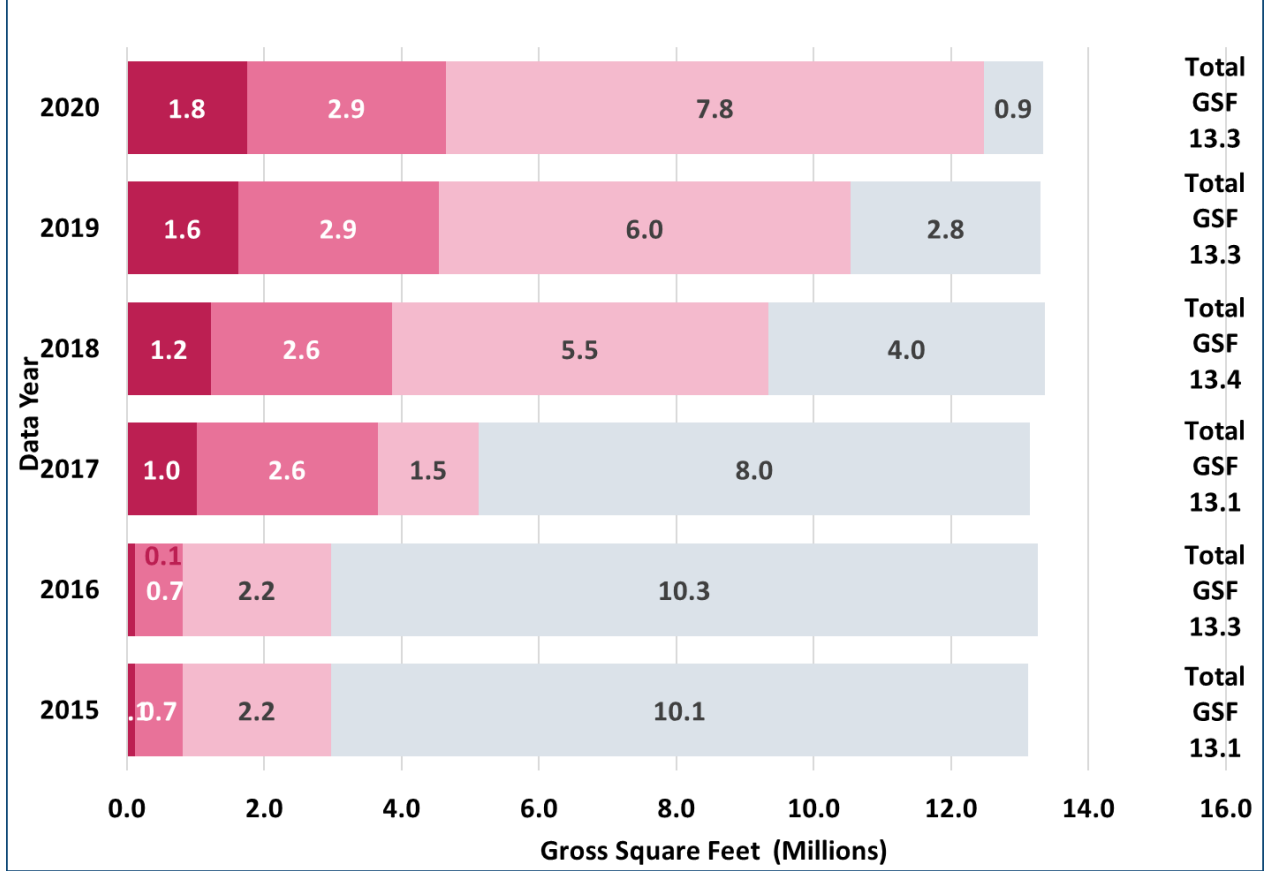
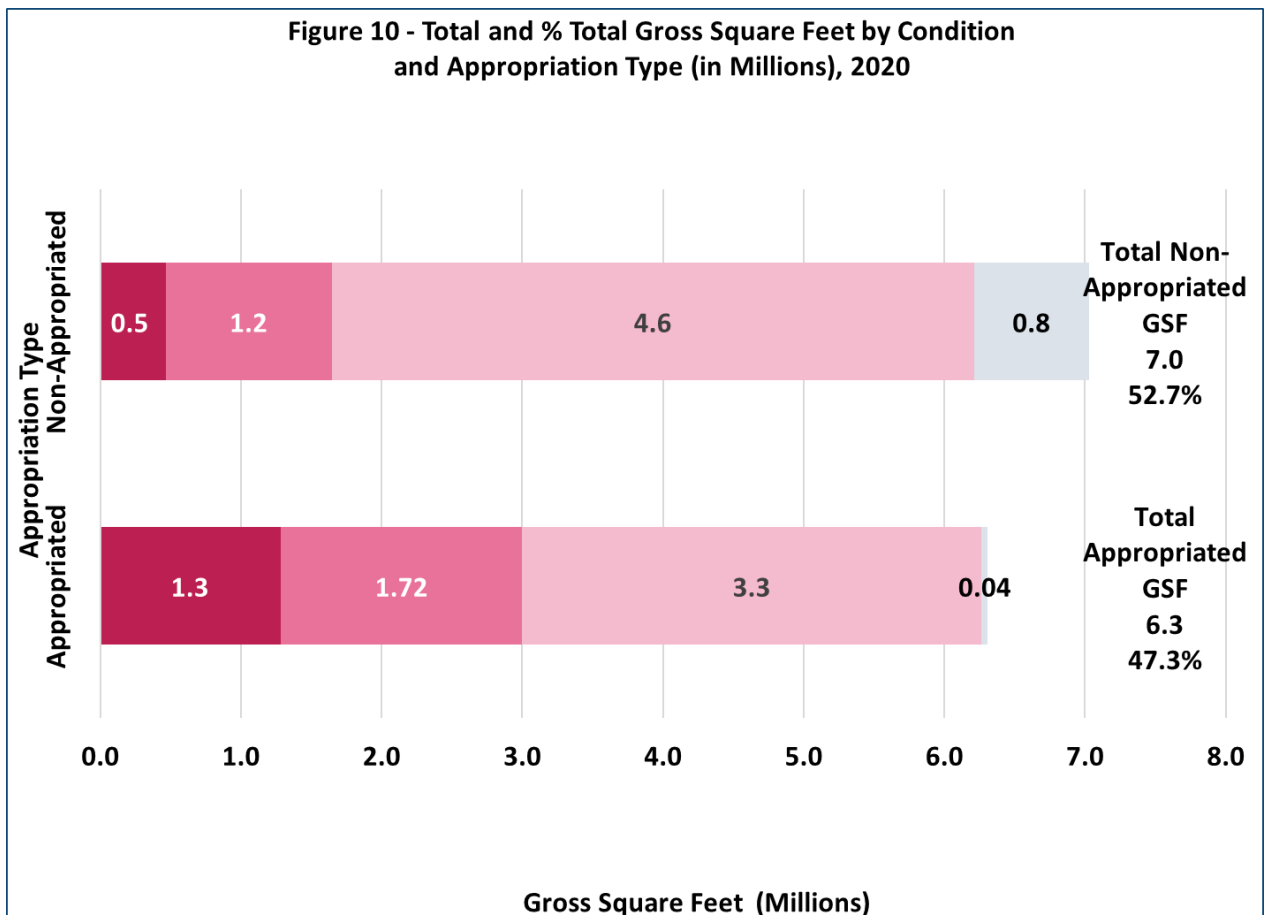
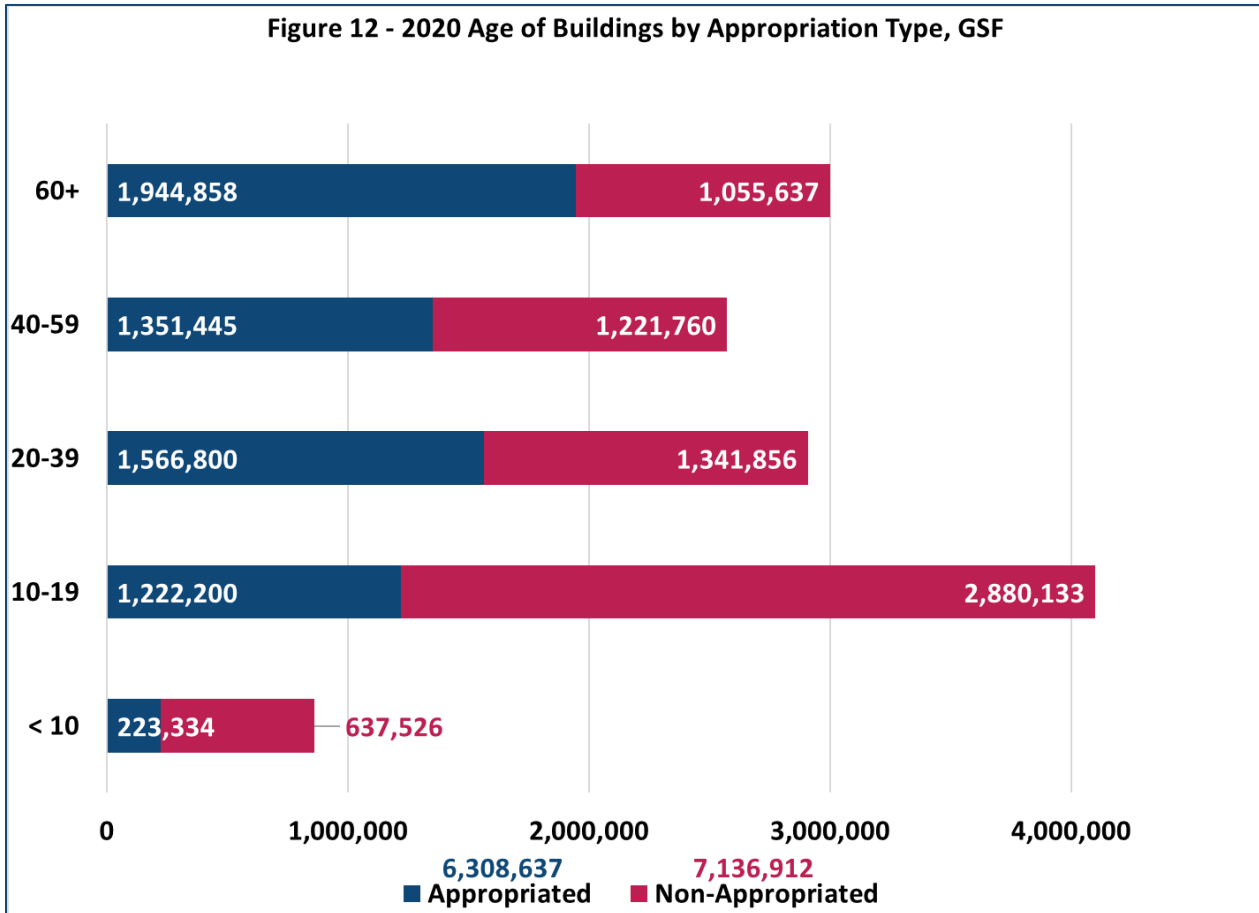
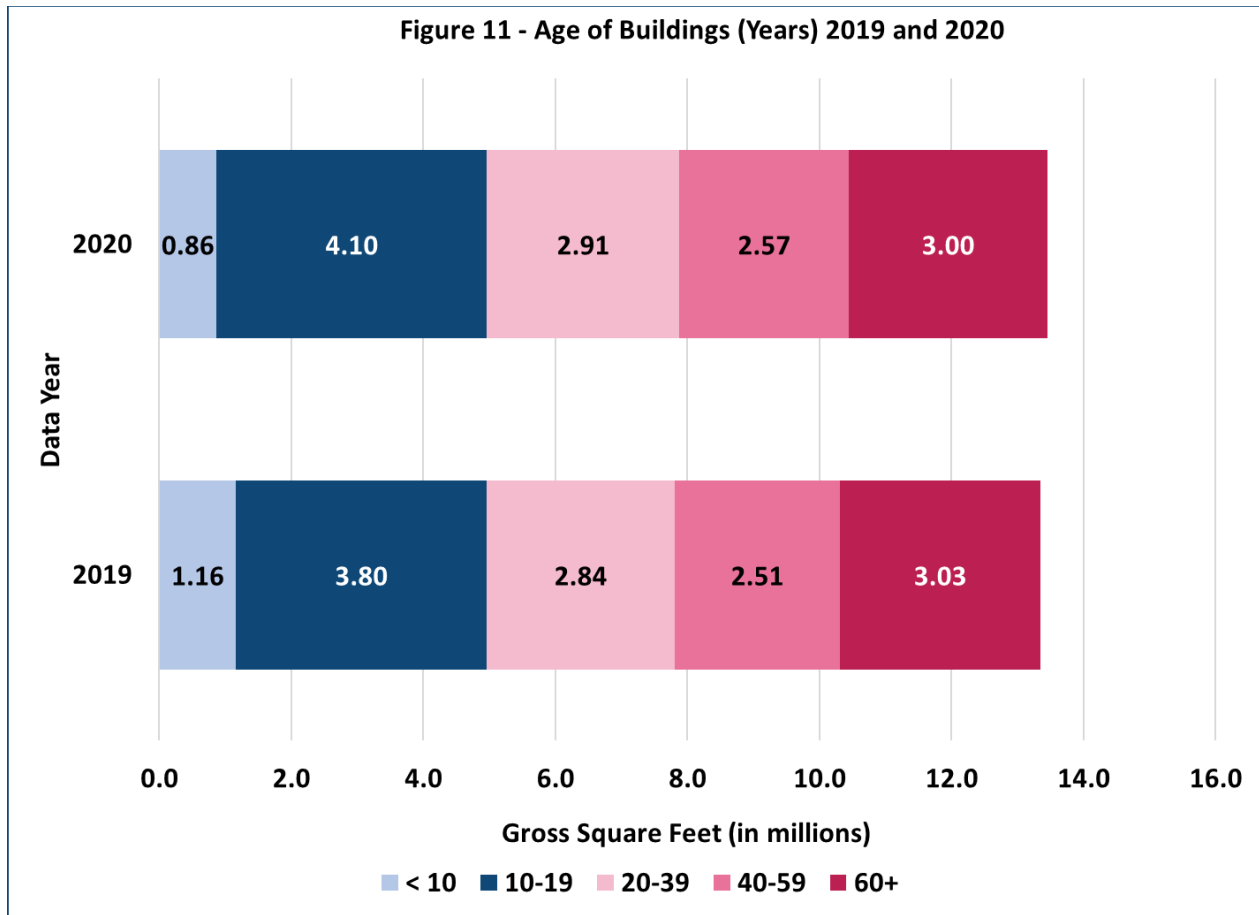


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



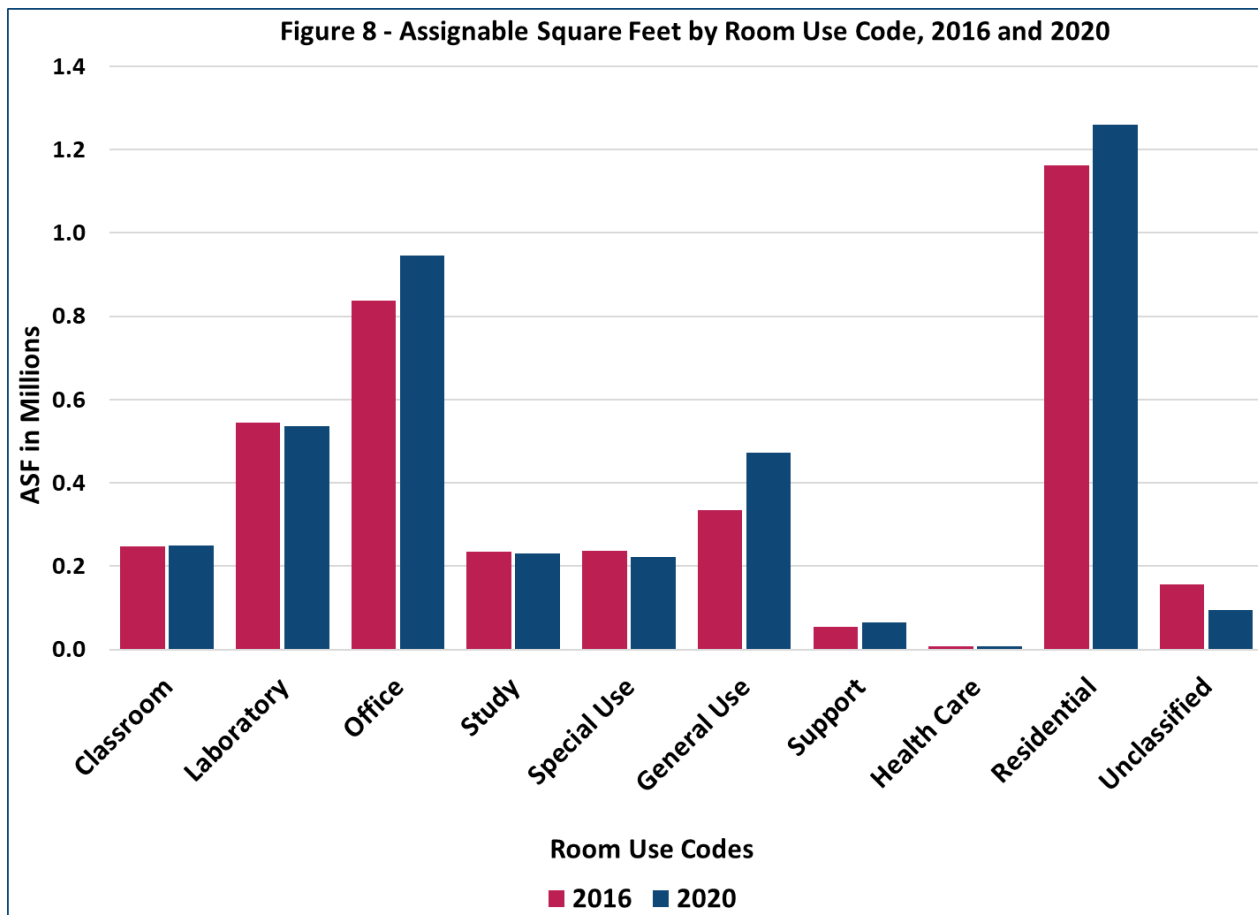


UNC Charlotte is North Carolina’s urban research university and the third largest in the UNC System, located in the state’s largest city. Established by action of the North Carolina General Assembly in 1949, today UNCC offers competitive undergraduate, graduate, and professional programs in areas shaping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

Room Space Characteristics

In 2020, the assignable square feet at UNC Charlotte increased from 3,970,294 to 4,083,322, or 2.8% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	875,179	21.43%	21.31%	0.13%
Research	290,967	7.13%	8.07%	-0.94%
Public Service	62,666	1.53%	1.64%	-0.10%
Student Service	2,080,441	50.95%	48.09%	2.86%
Other	774,069	18.96%	20.89%	-1.94%



Building Characteristics

University of North Carolina Charlotte has 9,895,743 gross square feet of space comprised of 120 buildings (34 residential, 86 non-residential; 50 appropriated, 70 non-appropriated; 75 owned, 0 leased, 45 under other agreement terms) with 4,083,322 square feet of assignable space, having increased by 7% within the last five years. Since 2019, gross square footage has increased by 159,269 SF, or 1.6%.

University of North Carolina Charlotte Building Characteristics	
120 Total Buildings	
	75 Owned
50 Appropriated	0 Leased
70 Non-appropriated	45 Other Agreement
<hr/> 120 Total	<hr/> 120 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2016-2020

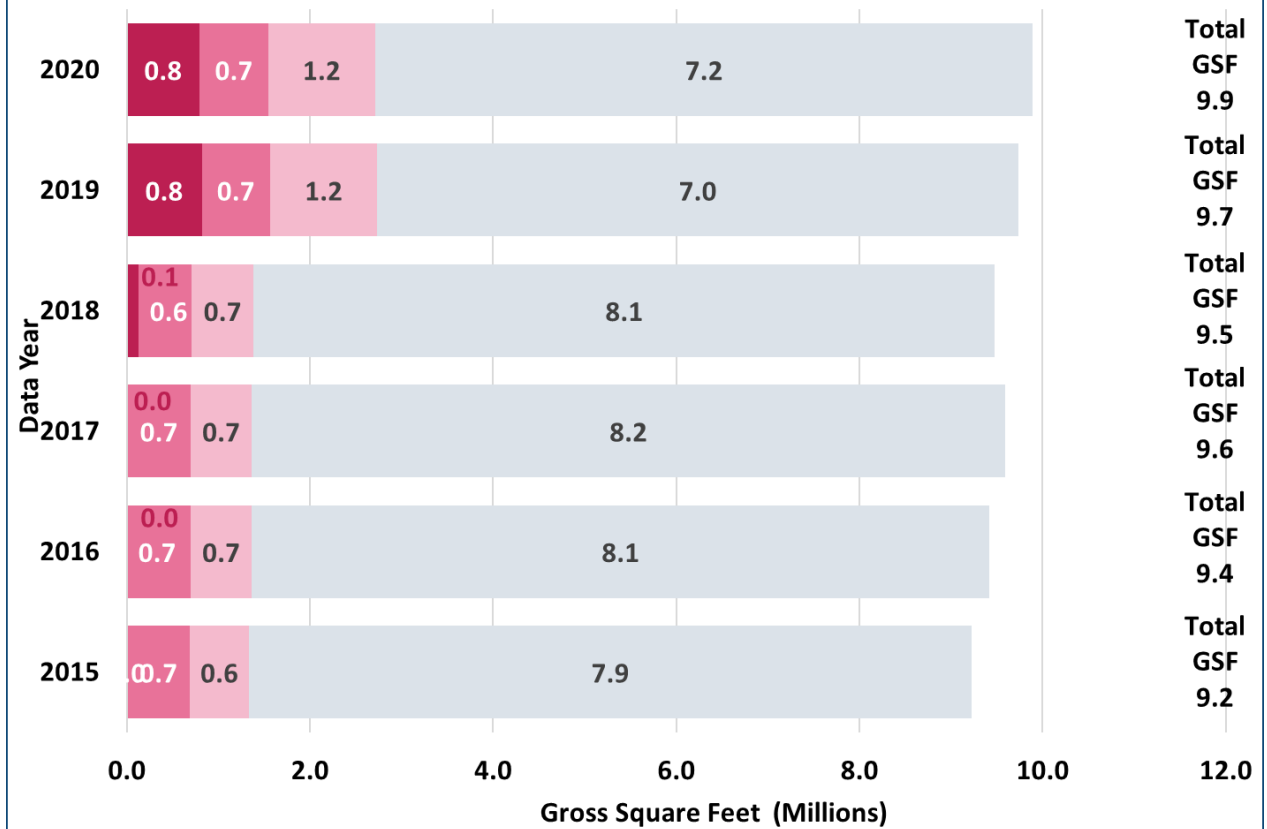
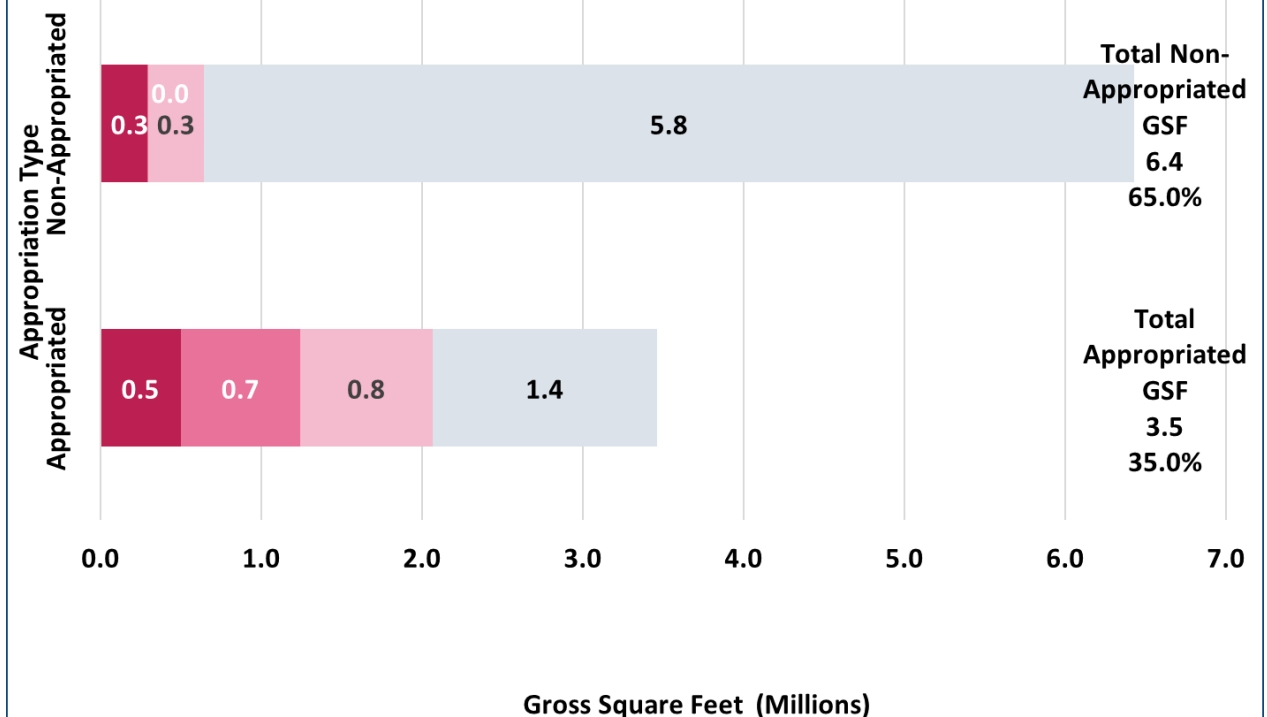
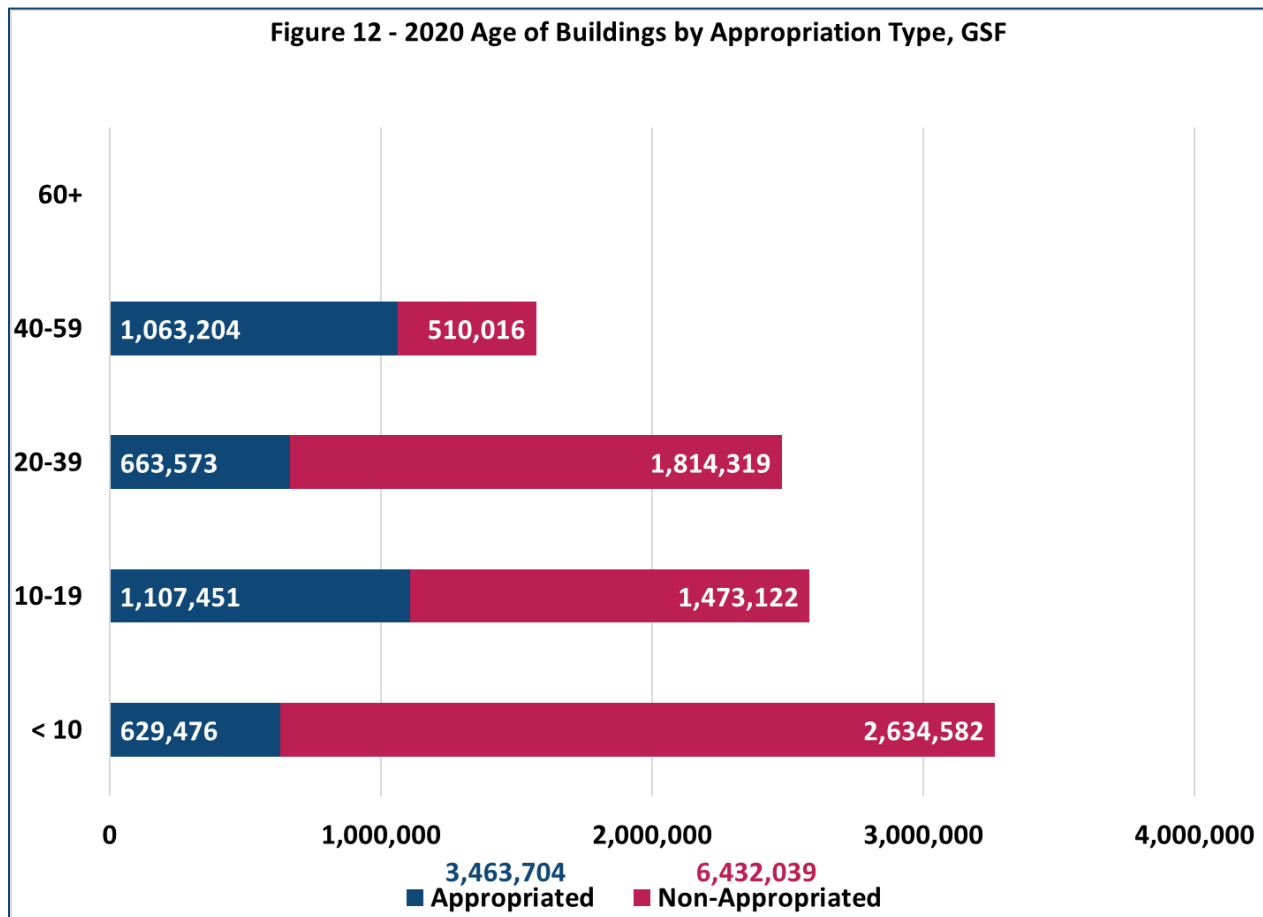
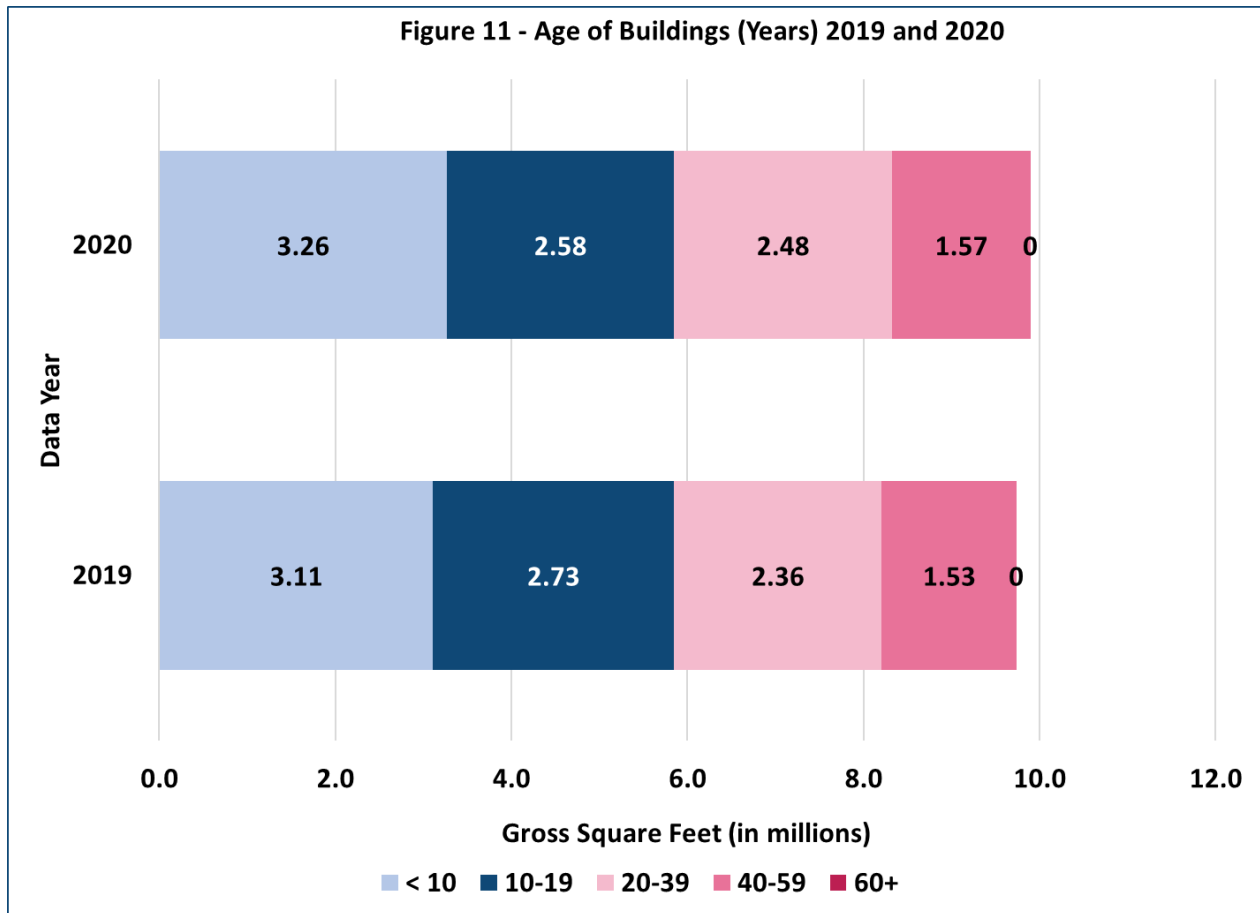


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



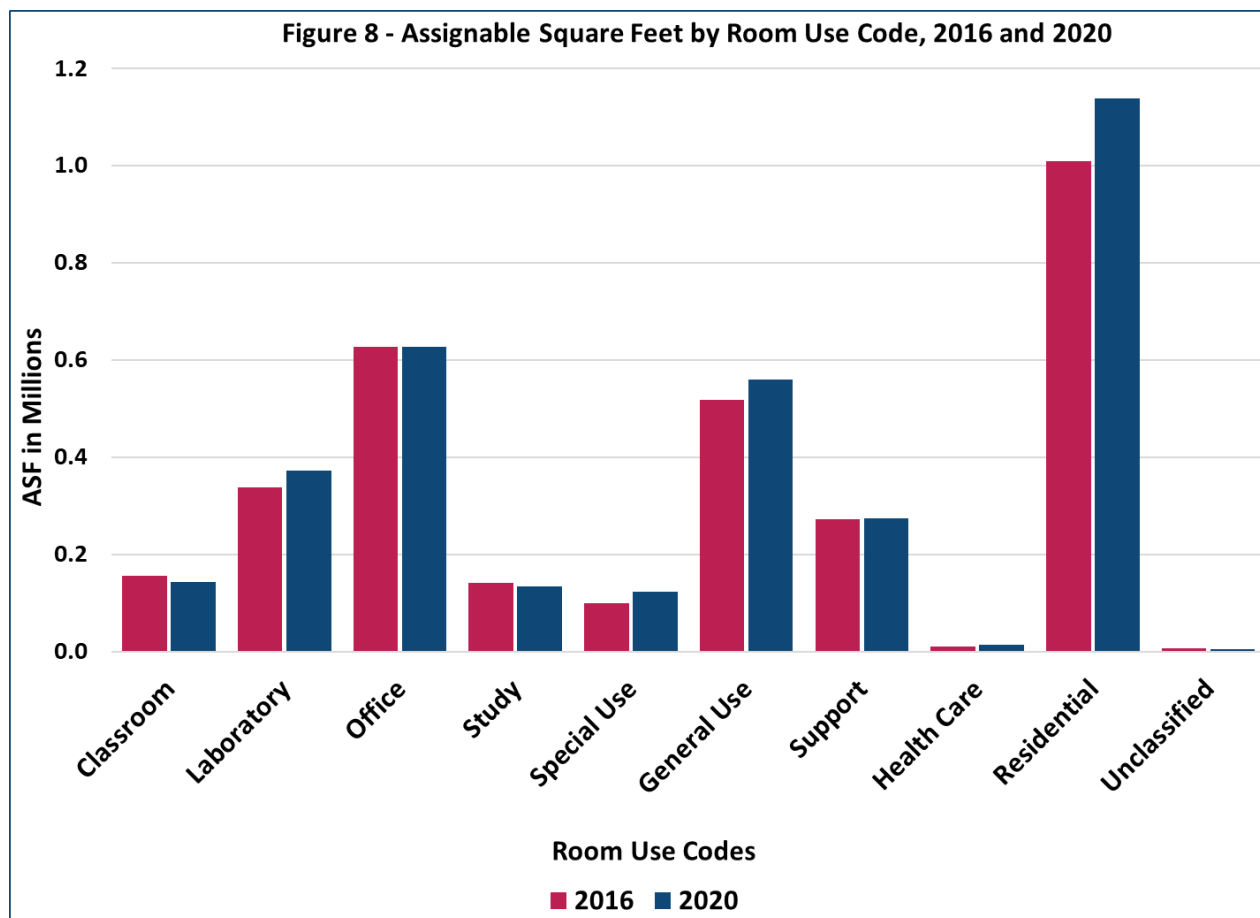


Founded in 1891 in Greensboro, the geographical center of the state, UNCG is one of the original three UNC System institutions. Known in its early years as the North Carolina College for Women, UNCG today is one of the most diverse universities in North Carolina, providing more than 125 areas of study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

Room Space Characteristics

In 2020, the assignable square feet at UNC Greensboro increased from 3,379,163 to 3,388,107, or 0.3% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	702,073	20.72%	21.44%	-0.72%
Research	186,929	5.52%	5.33%	0.19%
Public Service	5,726	0.17%	0.34%	-0.18%
Student Service	1,802,342	53.20%	52.42%	0.78%
Other	691,037	20.40%	20.47%	-0.07%



Building Characteristics

University of North Carolina Greensboro has 6,669,240 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 3,388,107 square feet of assignable space, having increased by 6.6% within the last five years. Since 2019, gross square footage has increased 25,439 SF, or 0.4%.

University of North Carolina Greensboro Building Characteristics	
152 Total Buildings	
63 Appropriated	85 Owned
89 Non-appropriated	16 Leased
<hr/>	<hr/>
152 Total	152 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

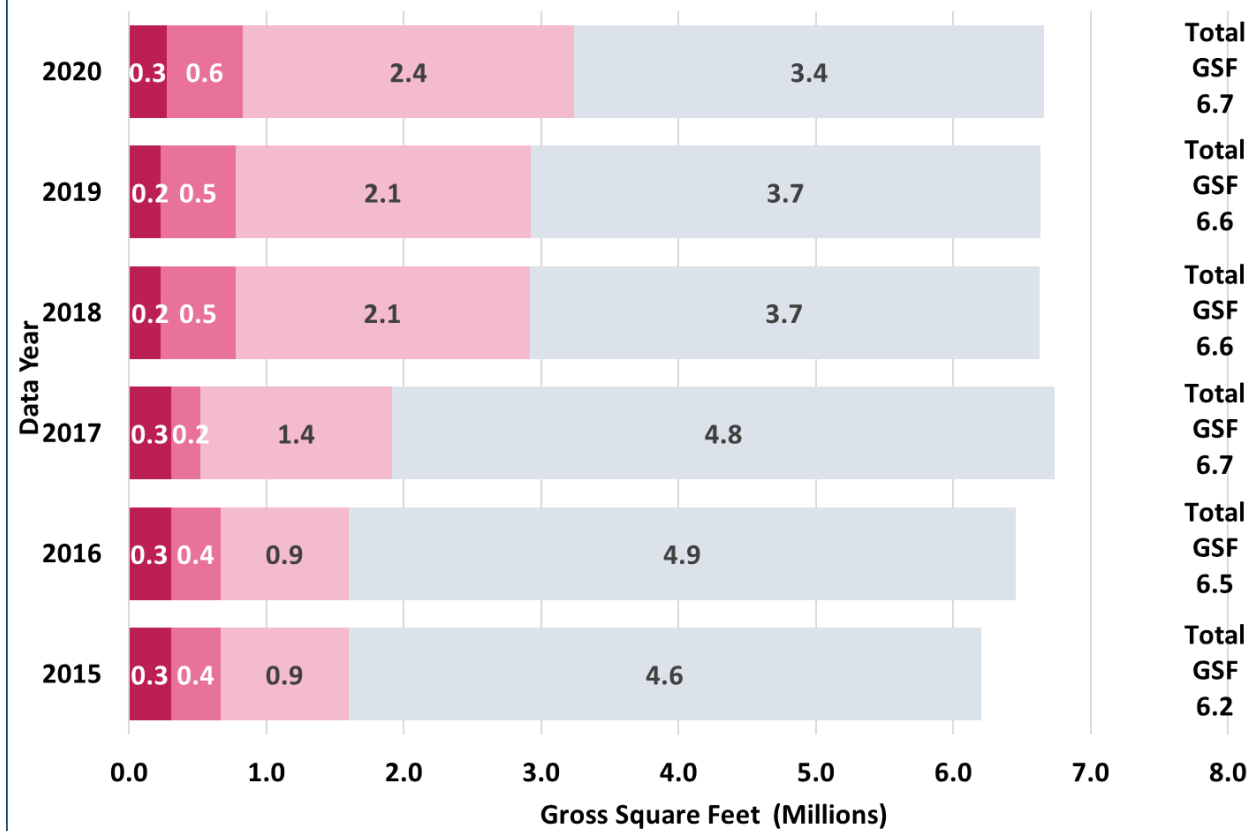
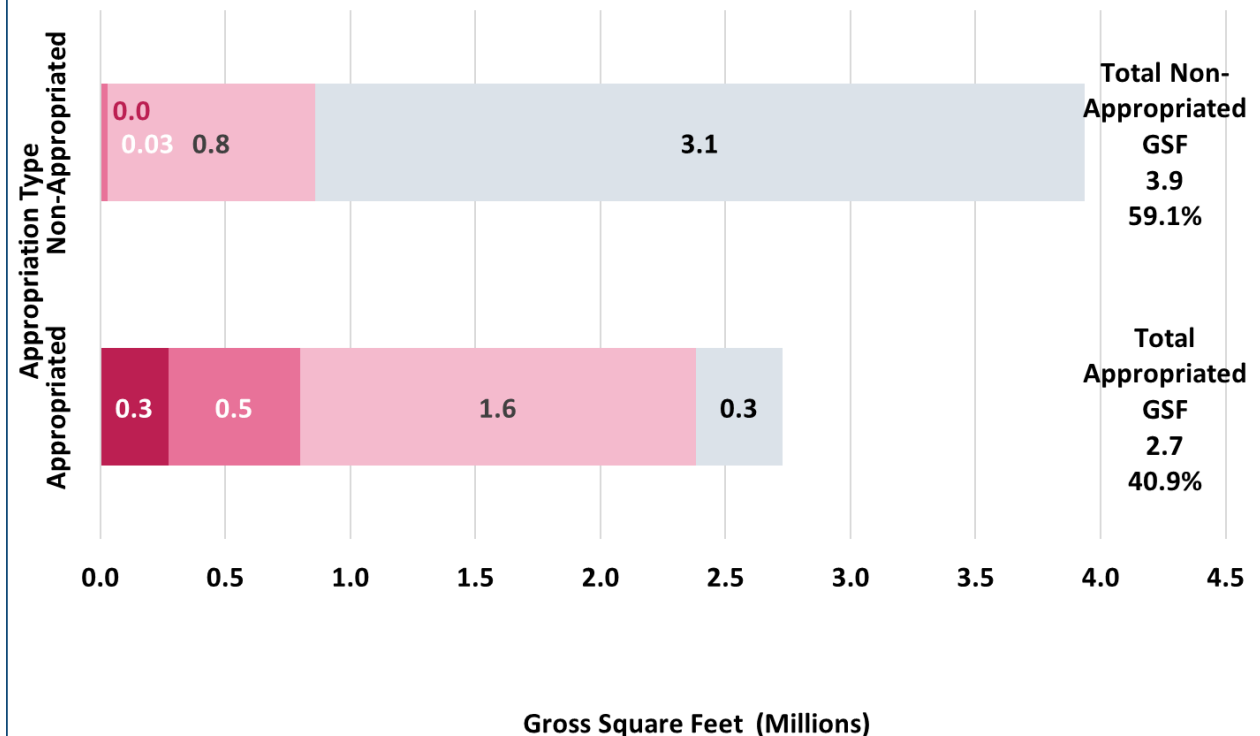
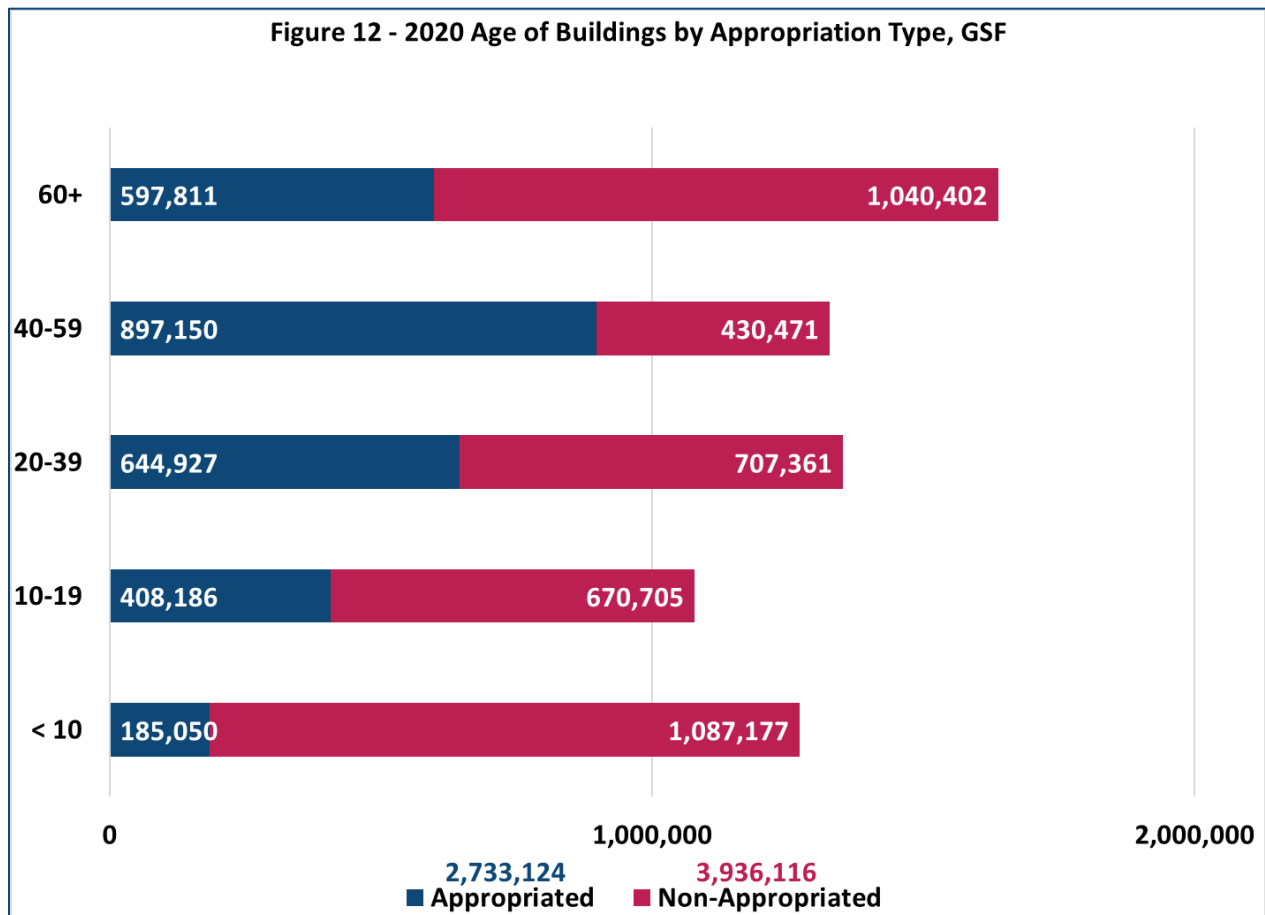
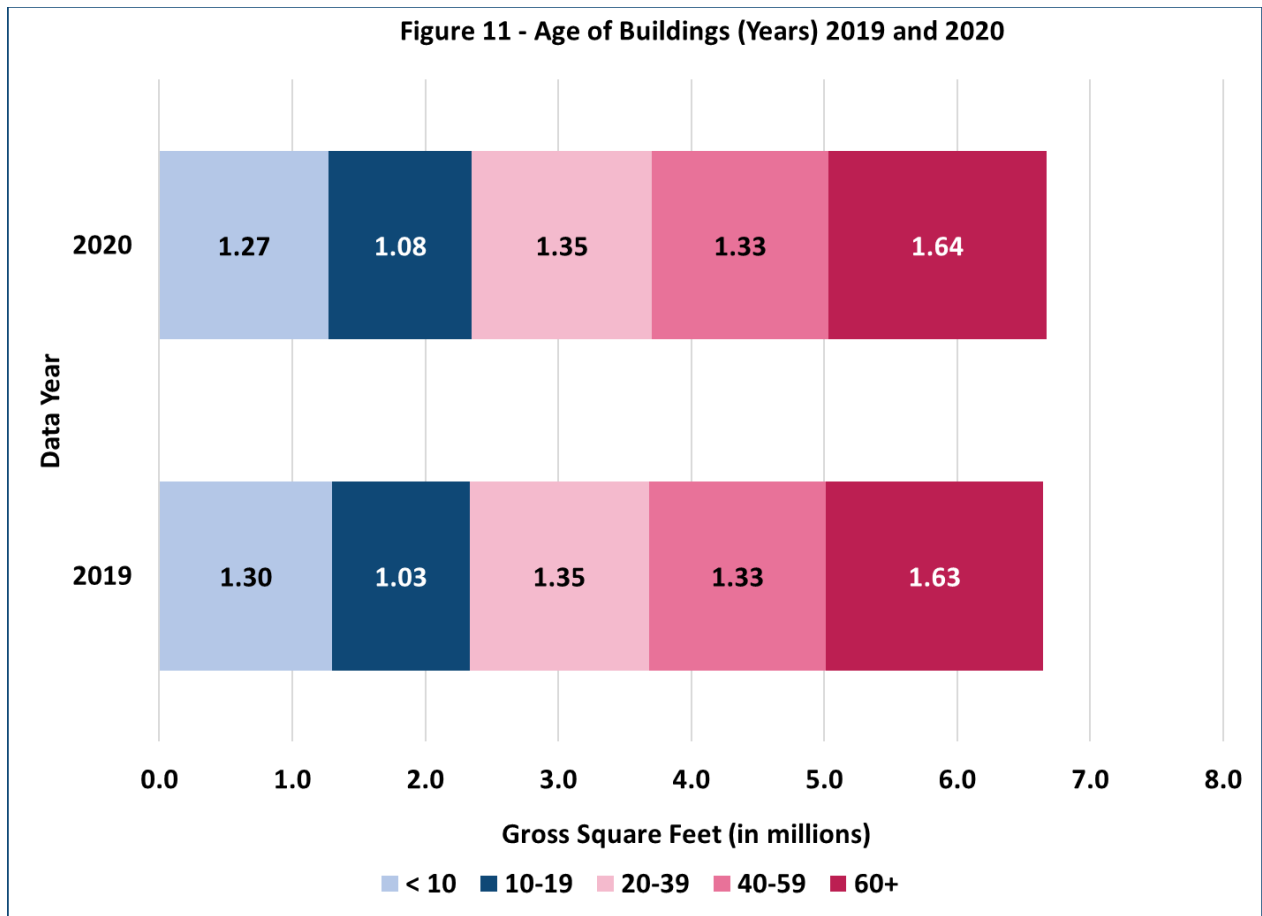


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



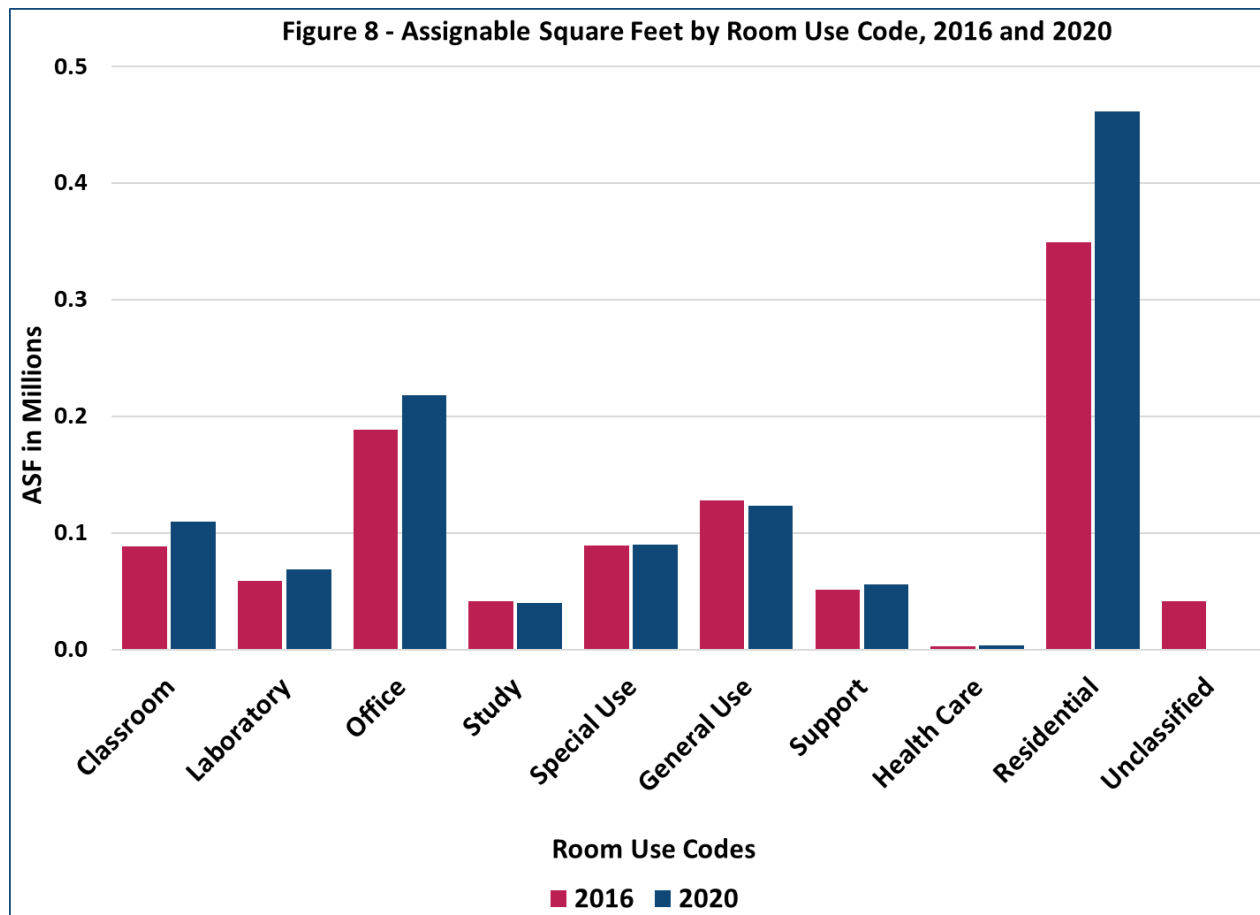


Founded in 1887 to educate American Indian teachers, UNC Pembroke is the nation’s only four-year public institution founded by American Indians for American Indians. Located in Pembroke in southeastern North Carolina, UNCP is one of the most diverse campuses in the South. The figures below focus on room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

Room Space Characteristics

In 2020, the assignable square feet at UNC Pembroke decreased from 1,209,182 to 1,170,530, or -3.2% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	313,981	26.82%	27.34%	-0.52%
Research	556	0.05%	0.19%	-0.14%
Public Service	292	0.02%	0.19%	-0.16%
Student Service	604,943	51.68%	47.99%	3.69%
Other	250,758	21.42%	24.28%	-2.86%



Building Characteristics

University of North Carolina Pembroke has 1,803,081 gross square feet of space comprised of 51 buildings (10 residential, 41 non-residential; 38 appropriated, 13 non-appropriated; 40 owned, 2 leased, 9 under other agreement terms) with 1,170,530 square feet of assignable space, having increased by 12.7% within the last five years. Since 2019, gross square footage has decreased by -2,504 SF, or -0.1%.

University of North Carolina Pembroke Building Characteristics	
51 Total Buildings	
38 Appropriated	40 Owned
13 Non-appropriated	2 Leased
<hr/>	<hr/>
51 Total	51 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

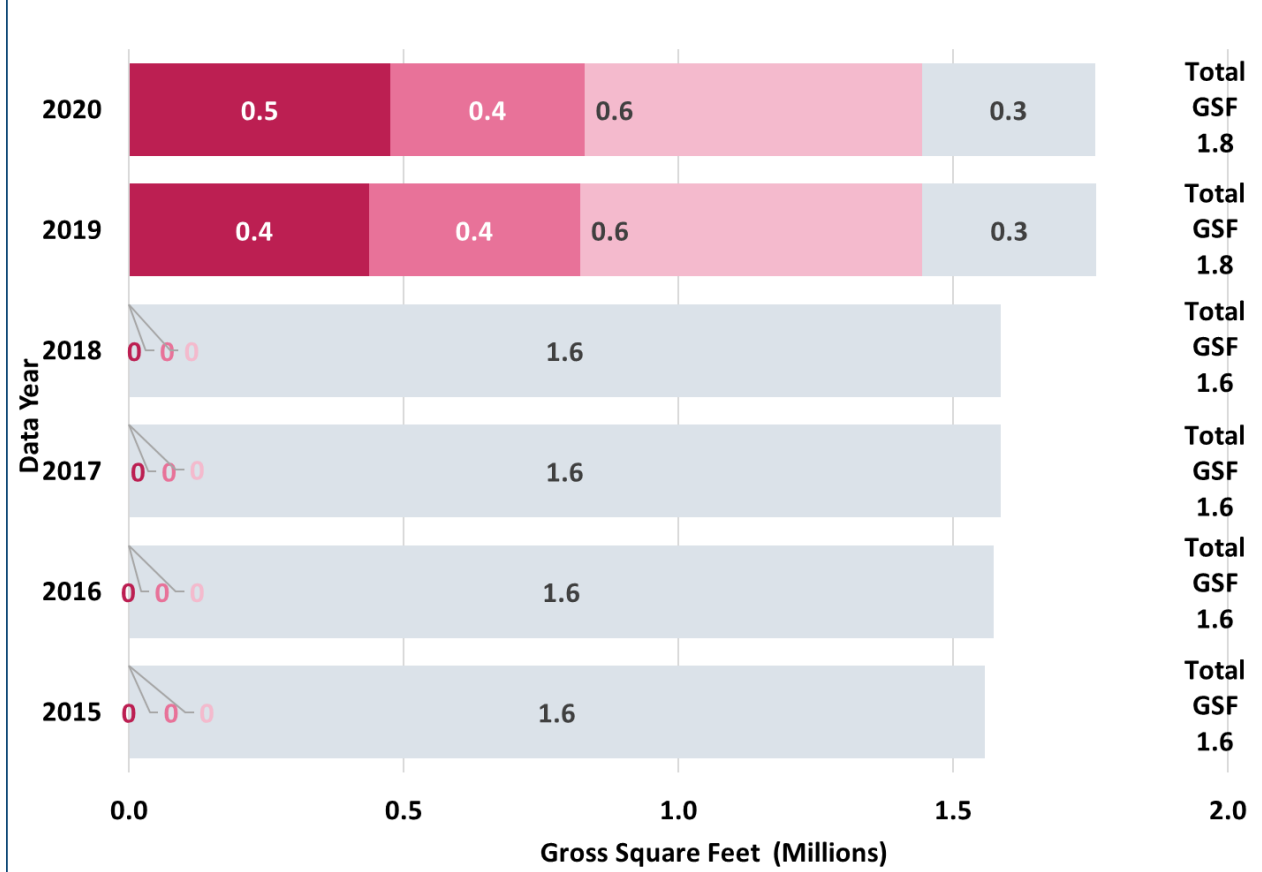
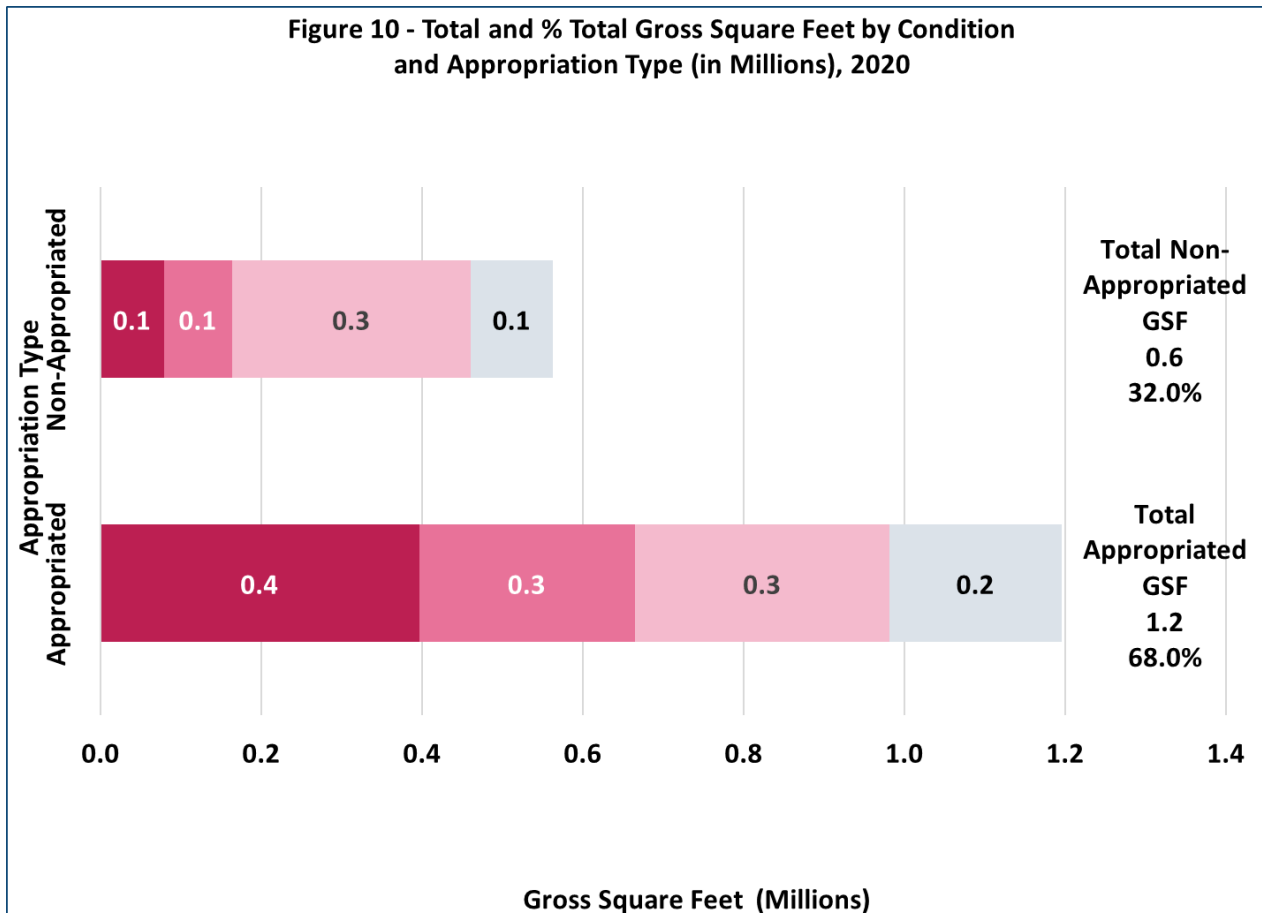
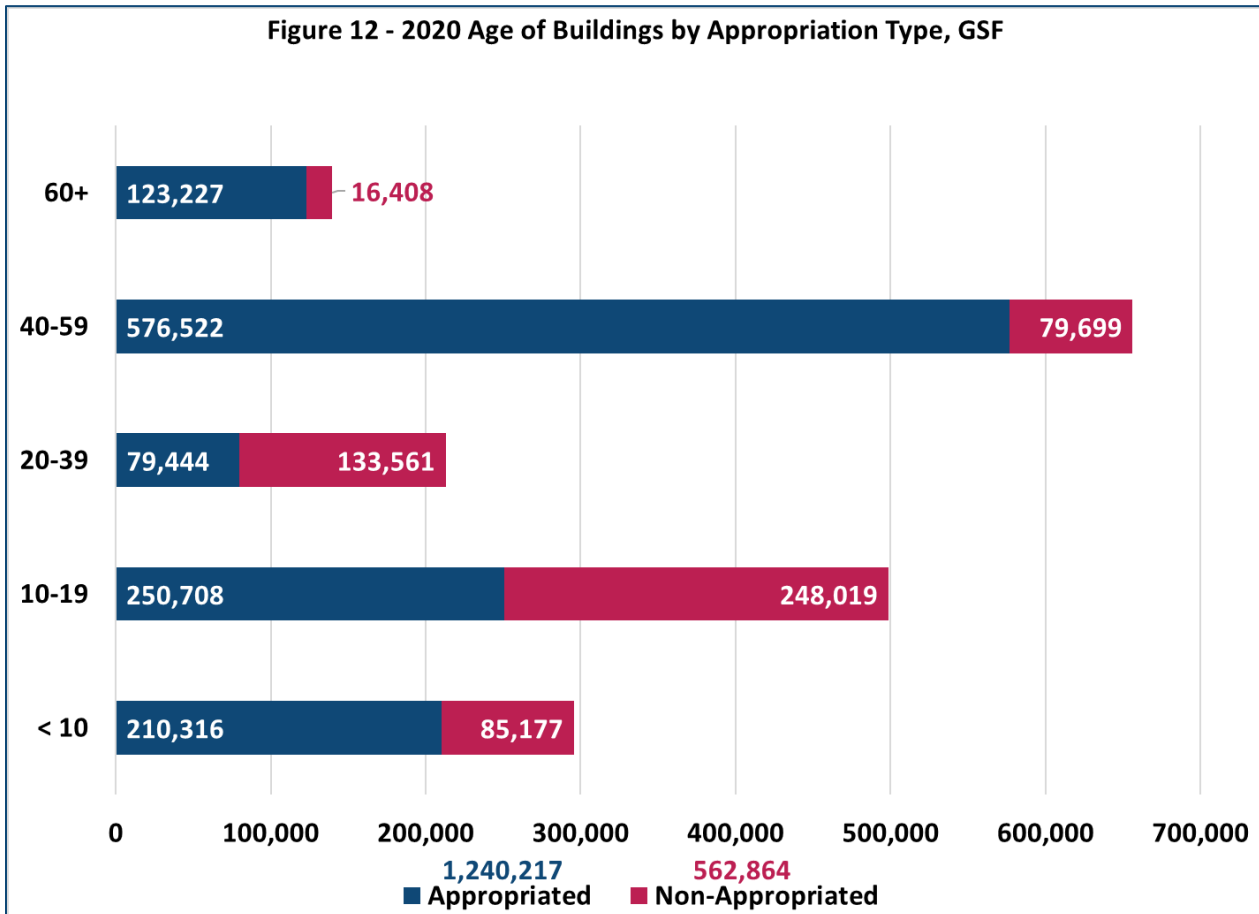
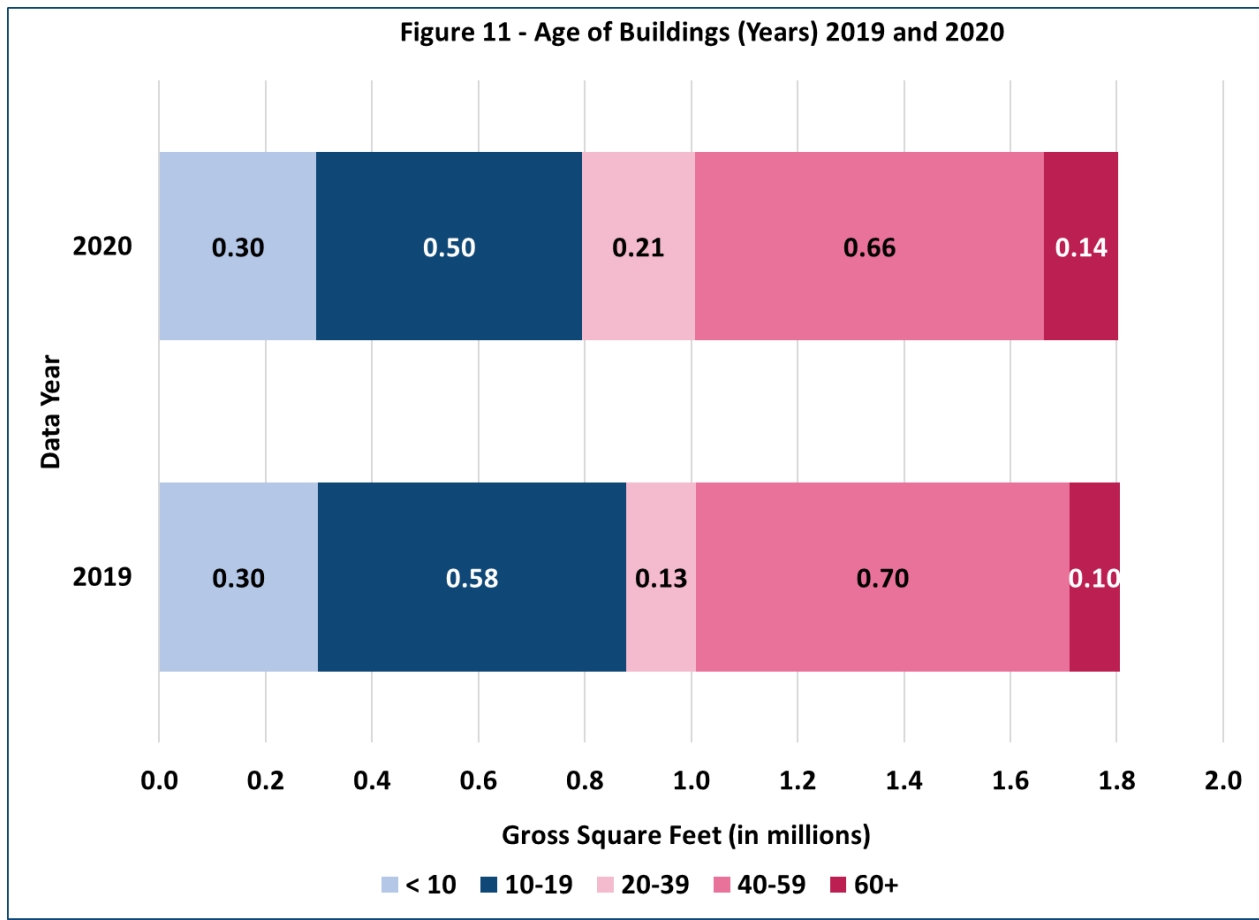


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



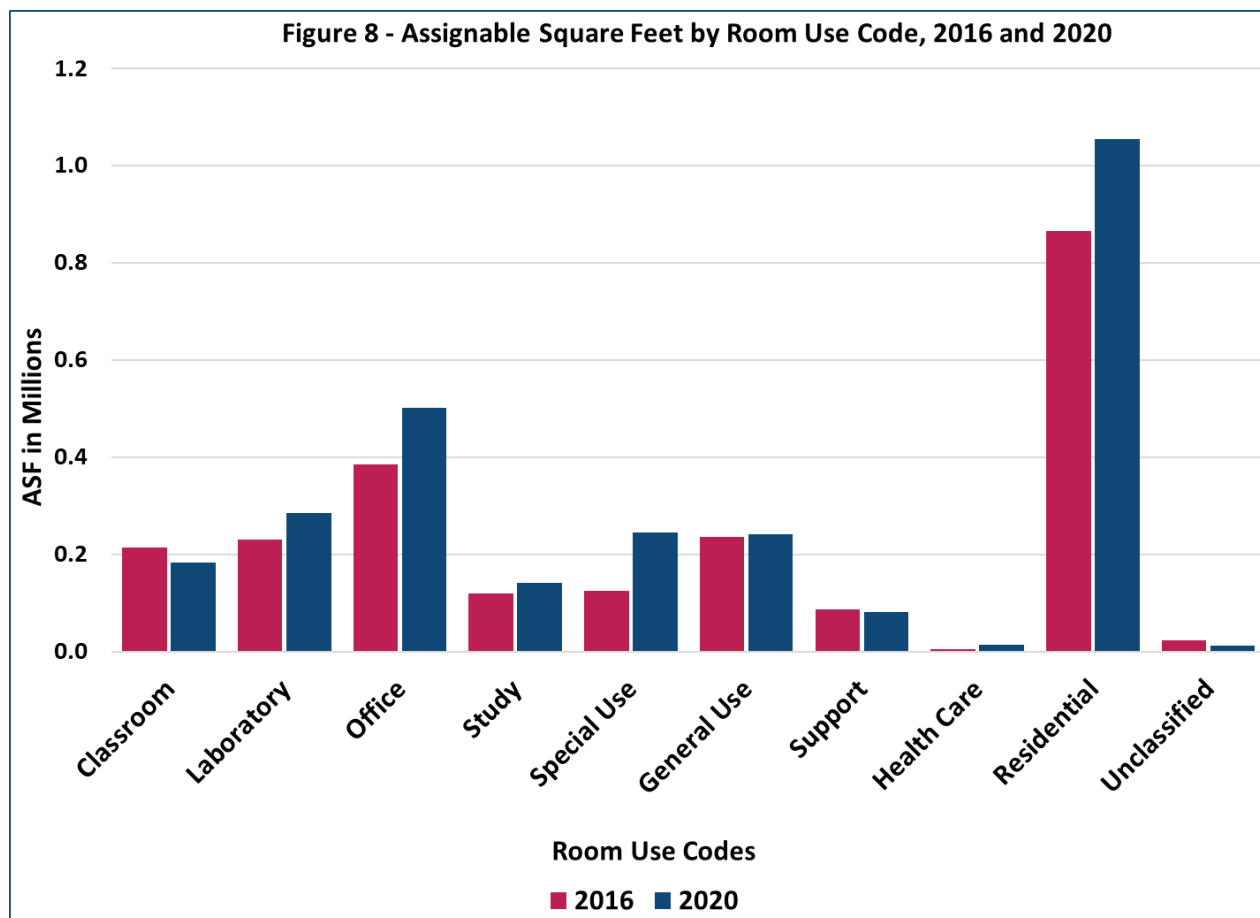


Initially opened in Wilmington as a college center to serve World War II veterans in 1946, UNCW became a four-year college by act of the North Carolina General Assembly in 1963. Widely acknowledged for its world-class faculty and staff and continuously recognized at a national level for scholarly excellence 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.

Room Space Characteristics

In 2020, the assignable square feet at UNC Wilmington increased from 2,533,267 to 2,760,536, or 9.0% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	604,548	21.90%	23.27%	-1.37%
Research	123,501	4.47%	5.12%	-0.65%
Public Service	27,331	0.99%	0.90%	0.09%
Student Service	1,545,006	55.97%	53.84%	2.12%
Other	460,150	16.67%	16.86%	-0.19%



Building Characteristics

University North Carolina Wilmington has 4,769,221 gross square feet of space comprised of 166 buildings (40 residential, 126 non-residential; 71 appropriated, 95 non-appropriated; 129 owned, 9 leased, 28 under other agreement terms) with 2,760,536 square feet of assignable space, having increased by 20.5% within the last five years. Since 2019, gross square footage has increased by 759,710 SF, or 18.9%.

University of North Carolina Wilmington Building Characteristics	
166 Total Buildings	
71 Appropriated	129 Owned
95 Non-appropriated	9 Leased
166 Total	28 Other Agreement
166 Total	166 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

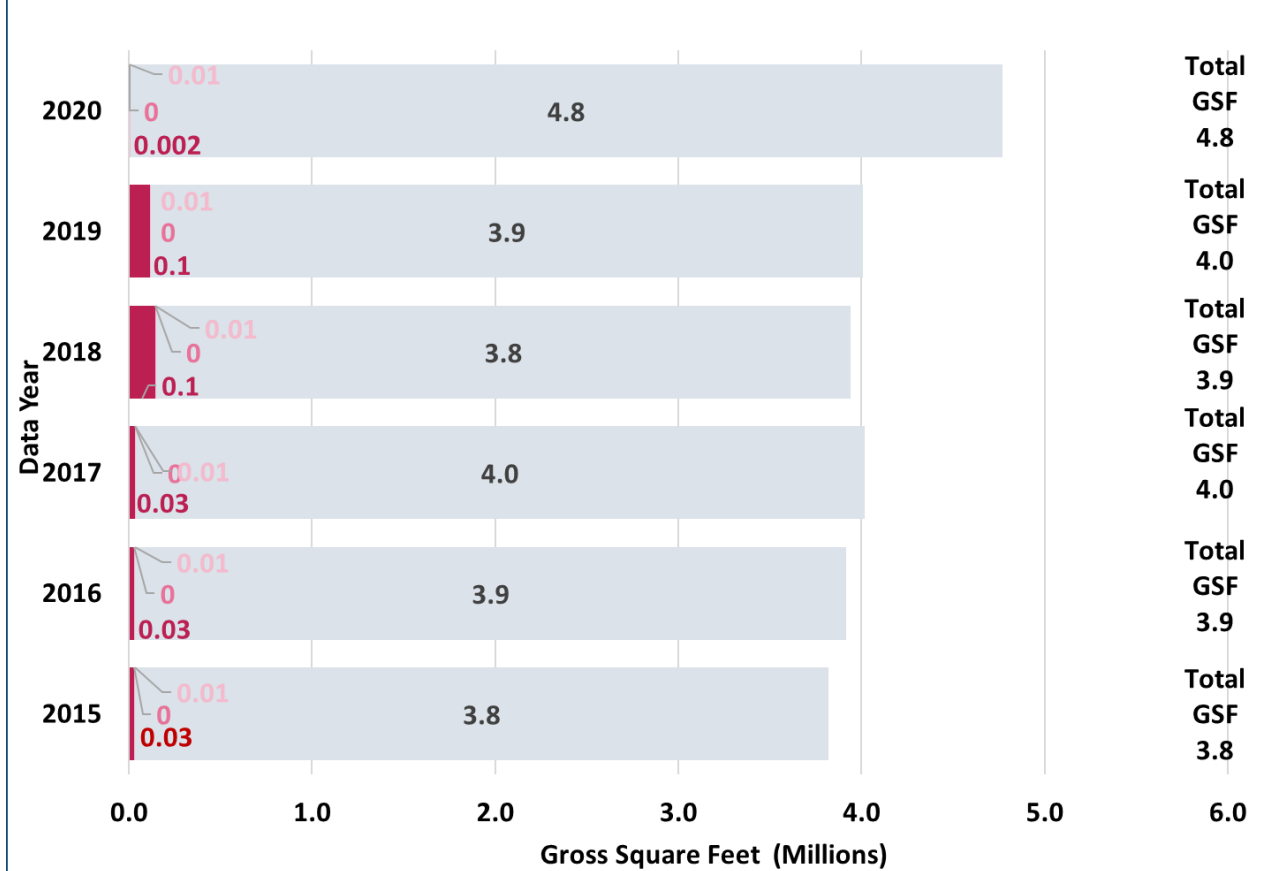
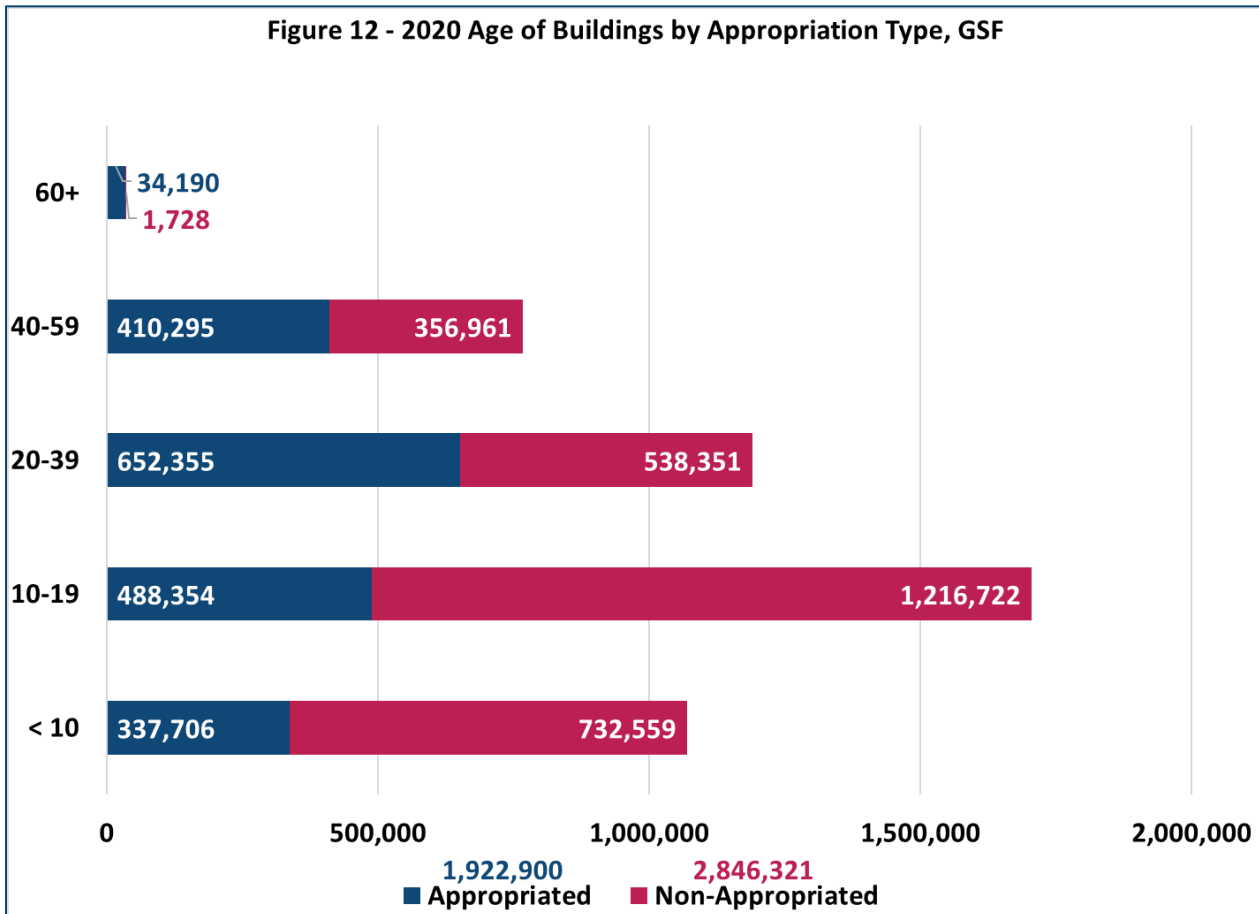
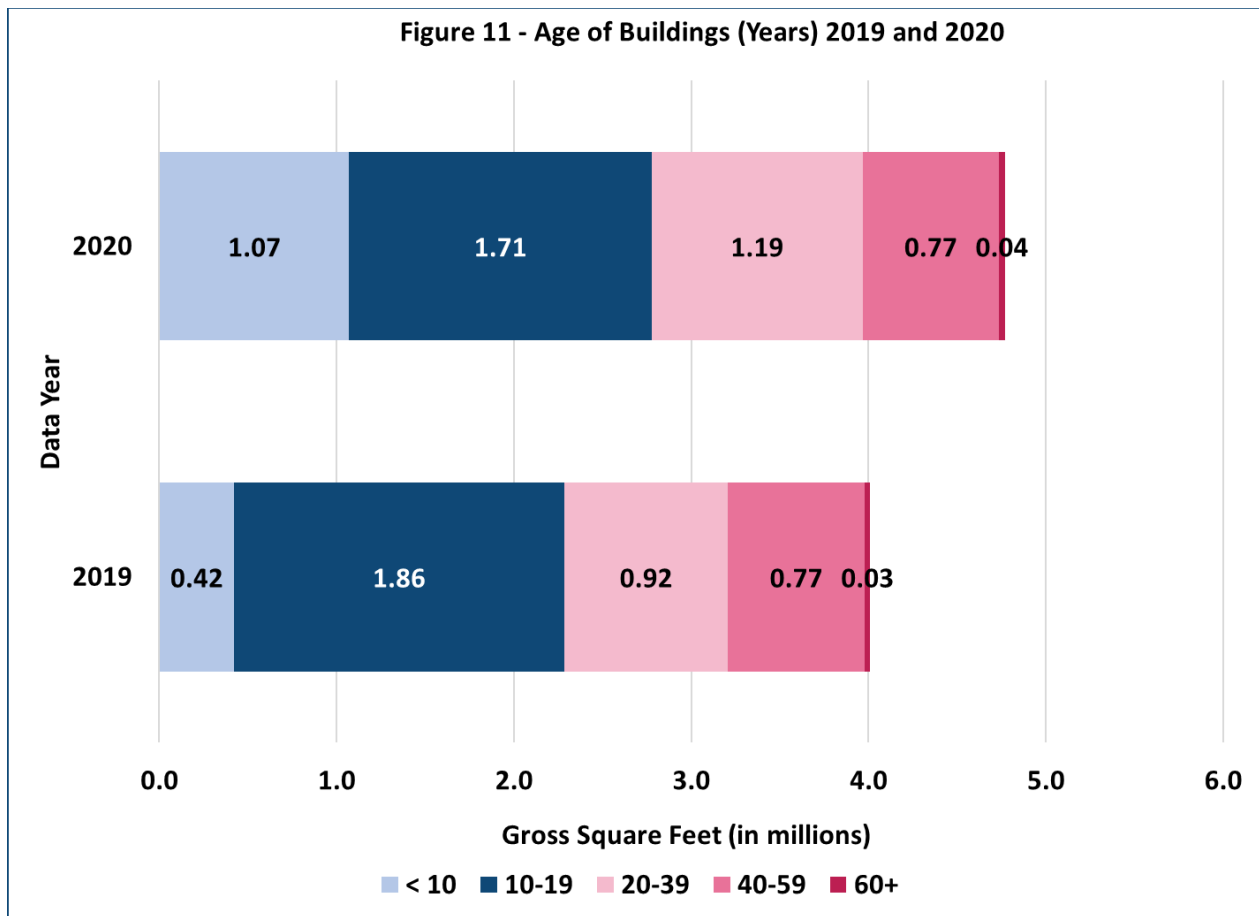


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



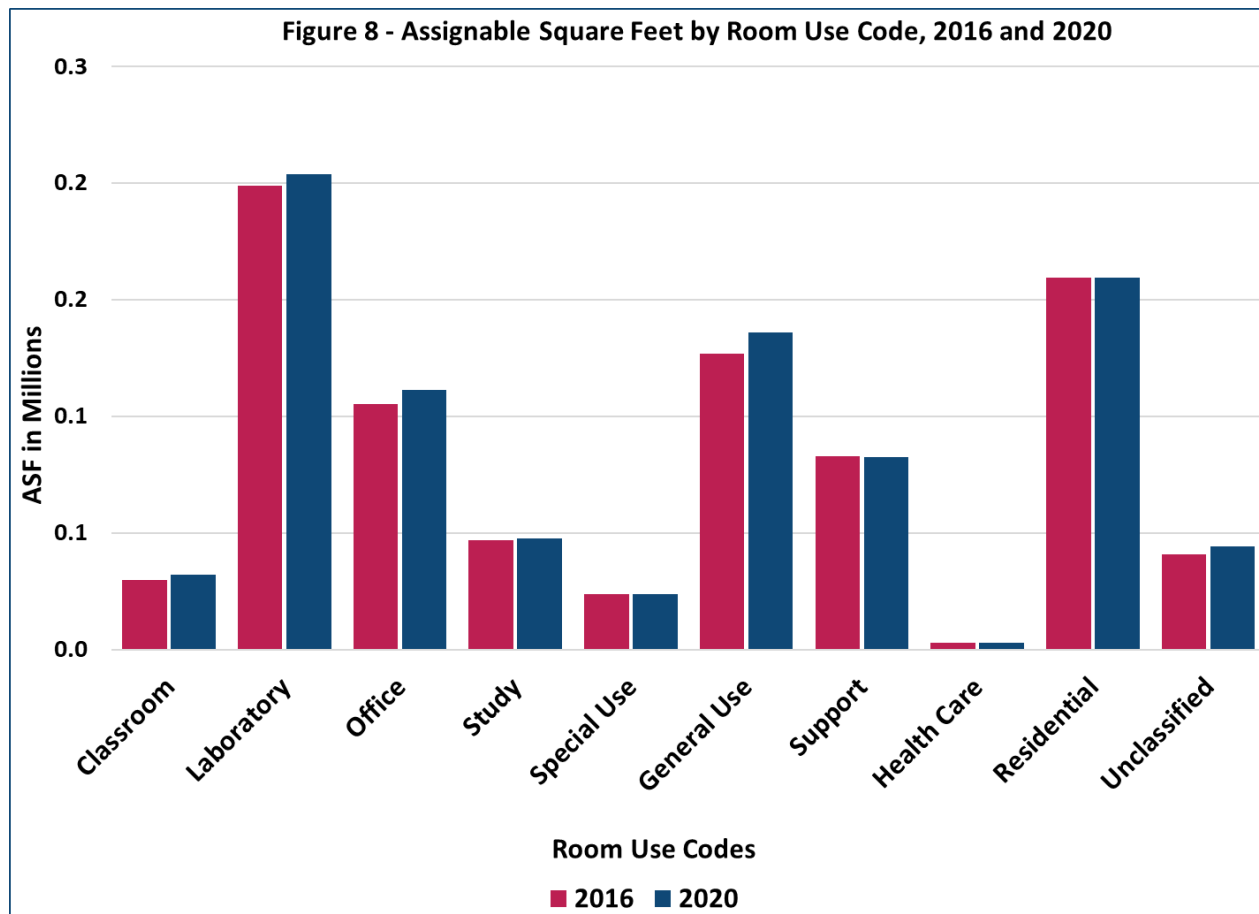


Established by act of the North Carolina General Assembly in 1963, the North Carolina School of the Arts opened in 1965 as America’s first public arts conservatory, located in Winston-Salem as a result of a fund-raising campaign to win the school for the city. The UNC School of the Arts is a top-ranked 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 room space characteristics and building characteristics at the university.

Room Space Characteristics

In 2020, the assignable square feet at UNC School of the Arts increased from 820,449 to 843,788, or 2.8% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	330,088	39.12%	39.32%	-0.20%
Research	0	0.00%	0.00%	0.00%
Public Service	25,042	2.97%	3.07%	-0.10%
Student Service	254,119	30.12%	30.06%	0.06%
Other	234,539	27.80%	27.56%	0.23%



Building Characteristics

University of North Carolina School of the Arts has 1,212,554 gross square feet of space comprised of 65 buildings (19 residential, 46 non-residential; 43 appropriated, 22 non-appropriated; 59 owned, 1 leased, 5 under other agreement terms) with 843,788 square feet of assignable space, decreasing 3.3% within the last five years. Since 2019, gross square footage has remained unchanged.

University of North Carolina School of the Arts Building Characteristics	
65 Total Buildings	
43 Appropriated	59 Owned
22 Non-appropriated	1 Leased
<hr/>	<hr/>
65 Total	65 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

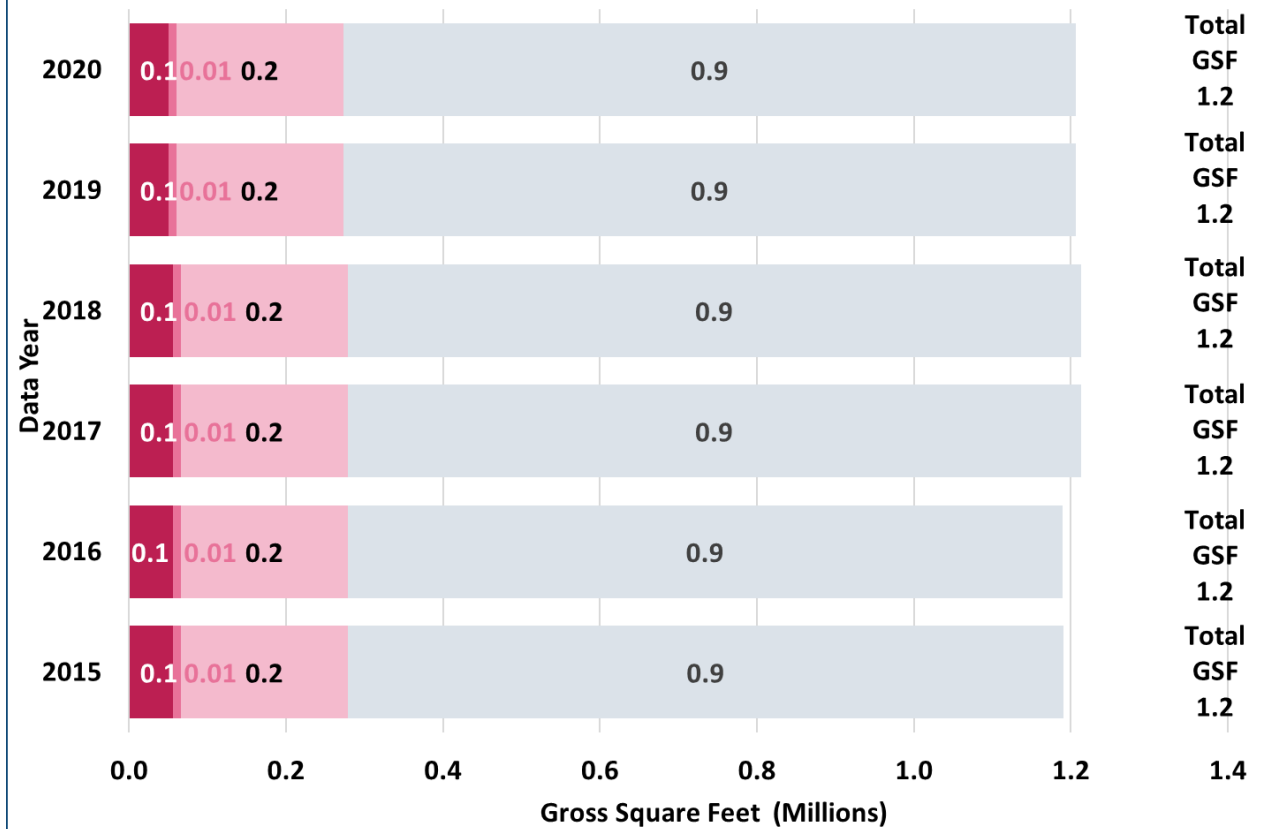
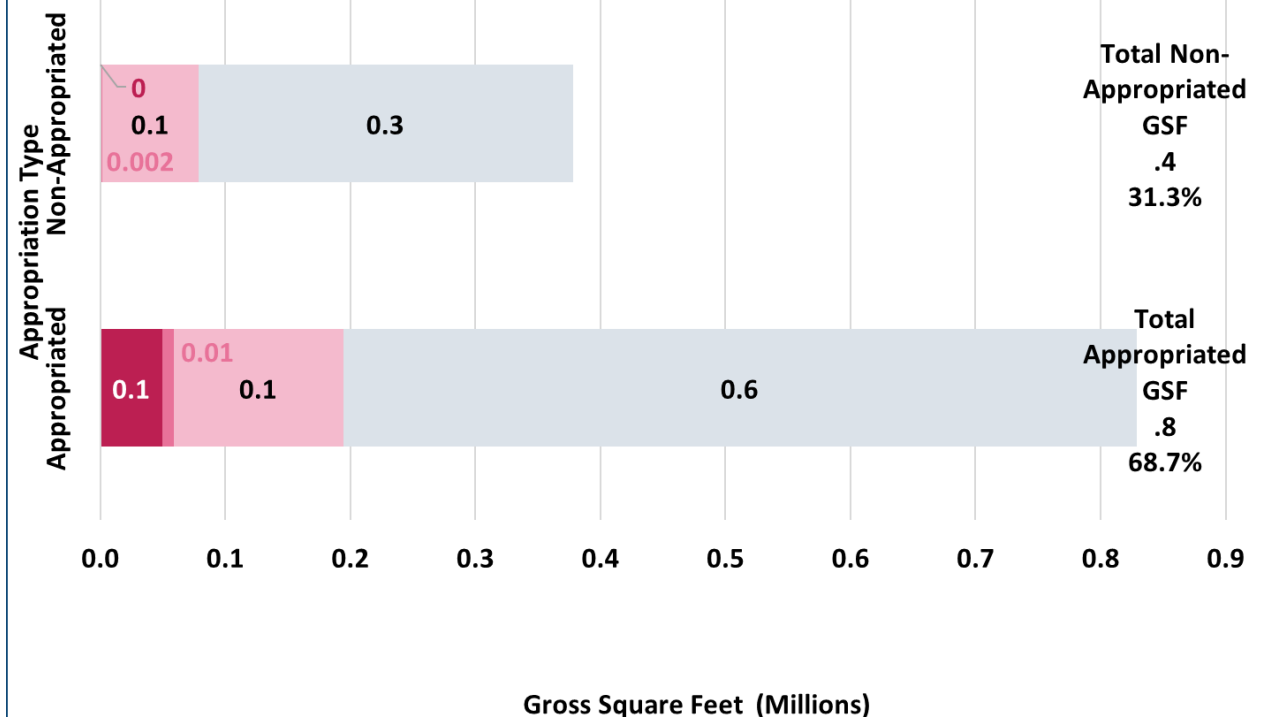
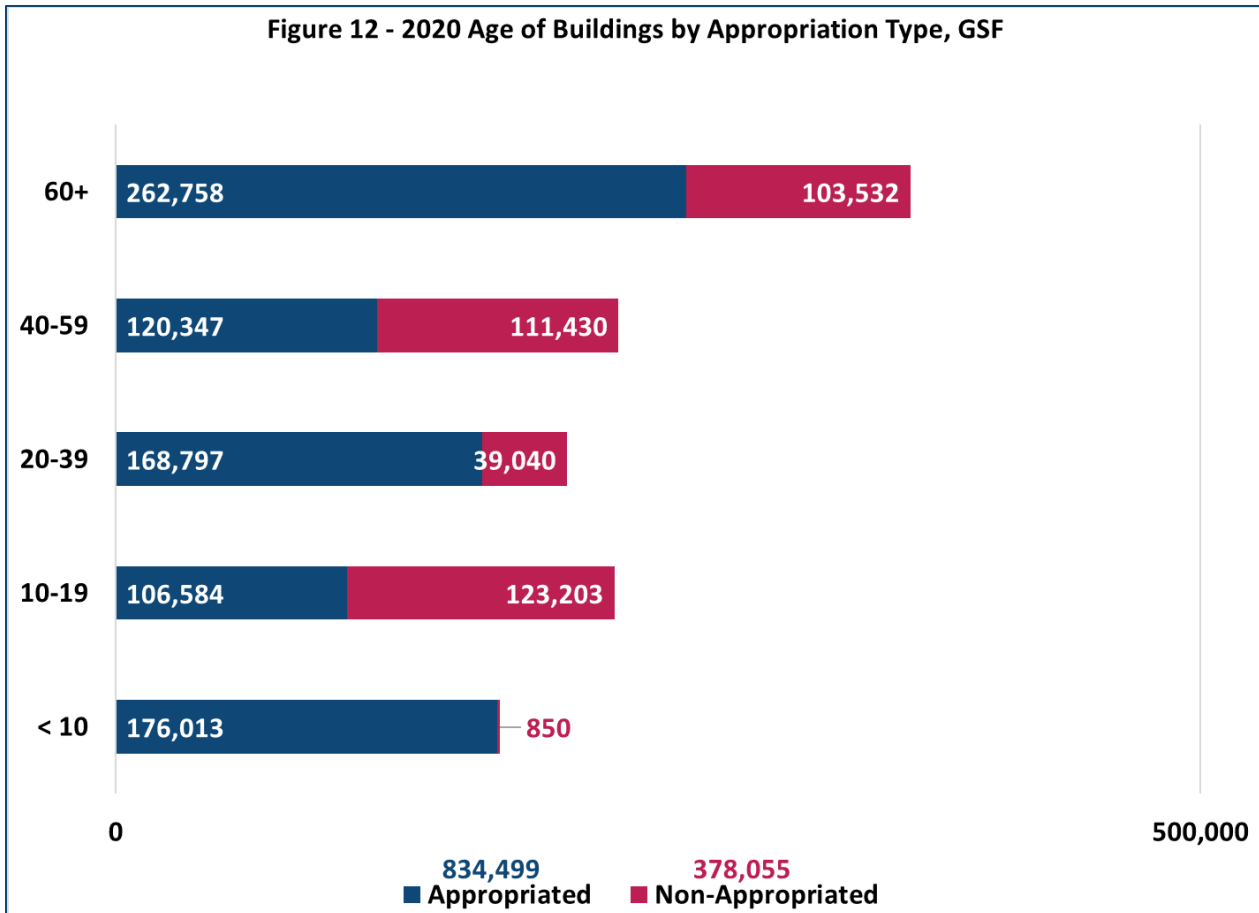
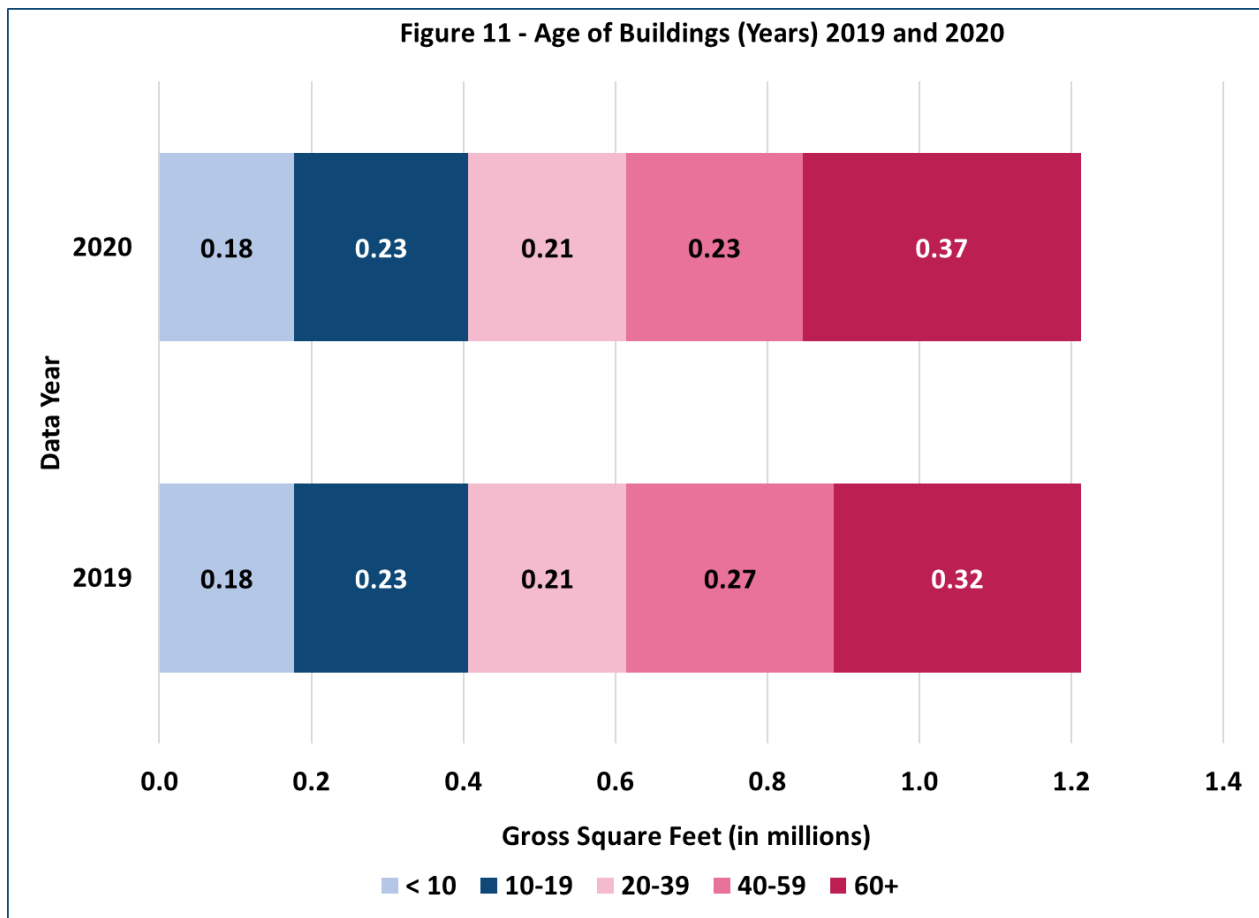


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



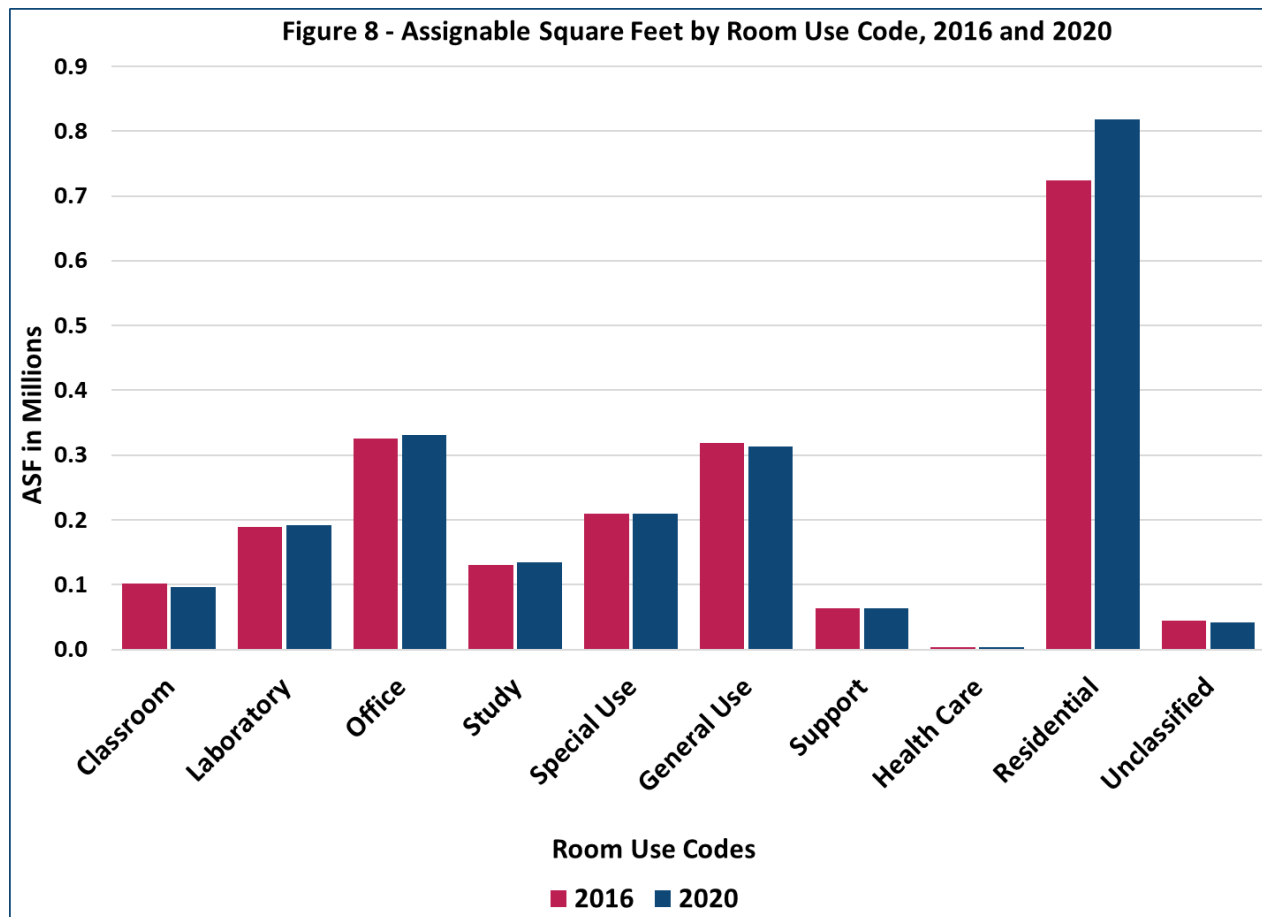


As the UNC System’s westernmost campus, WCU is located just 50 miles west of Asheville in Cullowhee, North Carolina. Originally established as “Cullowhee Academy” in 1889, the university moved to a four-year degree curriculum in 1929 and today is consistently ranked as one of the Top 10 public regional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

Room Space Characteristics

In 2020, the assignable square feet at WCU increased from 2,204,250 to 2,205,786, or 0.1% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	476,605	21.61%	23.01%	-1.41%
Research	31,176	1.41%	1.40%	0.01%
Public Service	4,948	0.22%	0.22%	0.00%
Student Service	1,213,713	55.02%	52.34%	2.68%
Other	479,344	21.73%	23.03%	-1.29%



Building Characteristics

Western Carolina University has 3,480,410 gross square feet of space comprised of 108 buildings (39 residential, 69 non-residential; 55 appropriated, 54 non-appropriated; 84 owned, 2 leased, 22 under other agreement terms) with 2,205,786 square feet of assignable space, having increased by 4.5% within the last five years. Since 2019, gross square footage has decreased - 9,378 SF, or -0.3%.

Western Carolina University Building Characteristics	
108 Total Buildings	
	84 Owned
55 Appropriated	2 Leased
53 Non-appropriated	22 Other Agreement
<hr/> 108 Total	<hr/> 108 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

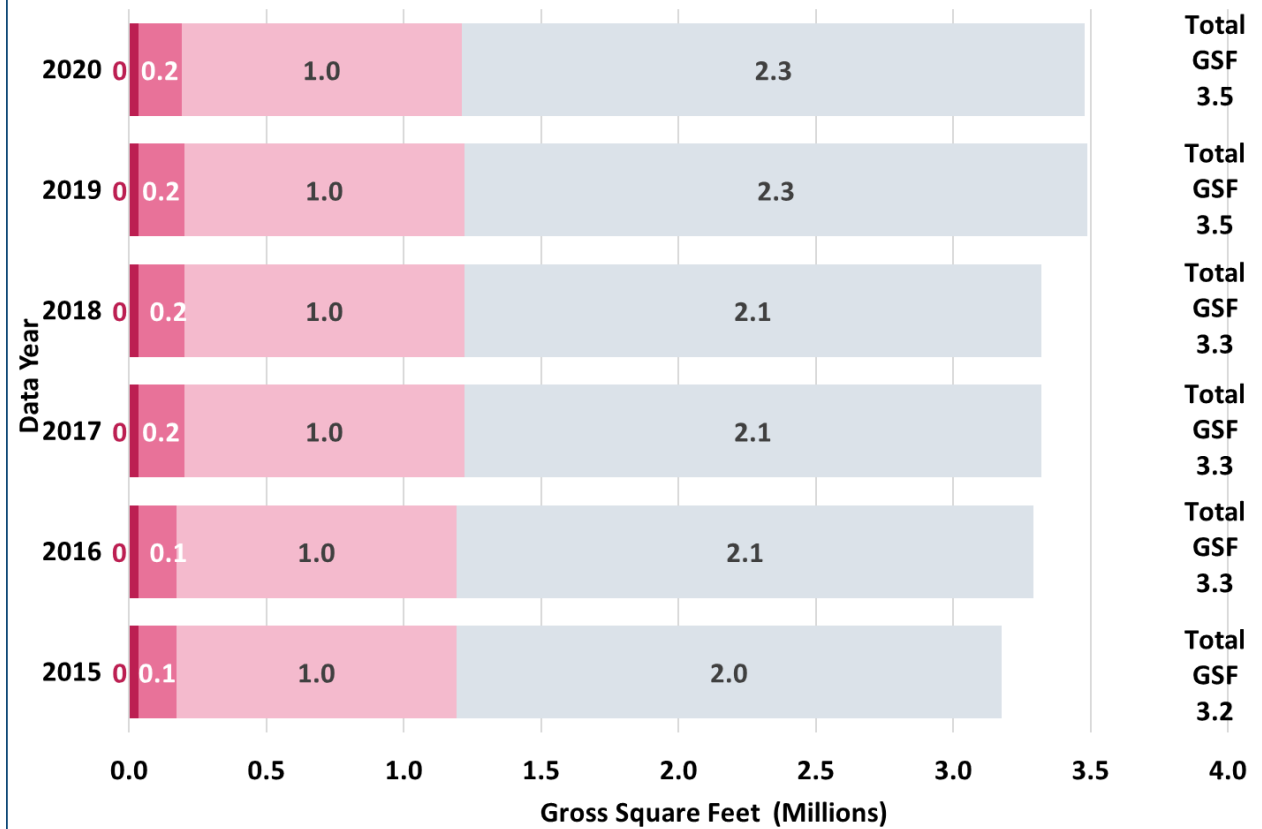
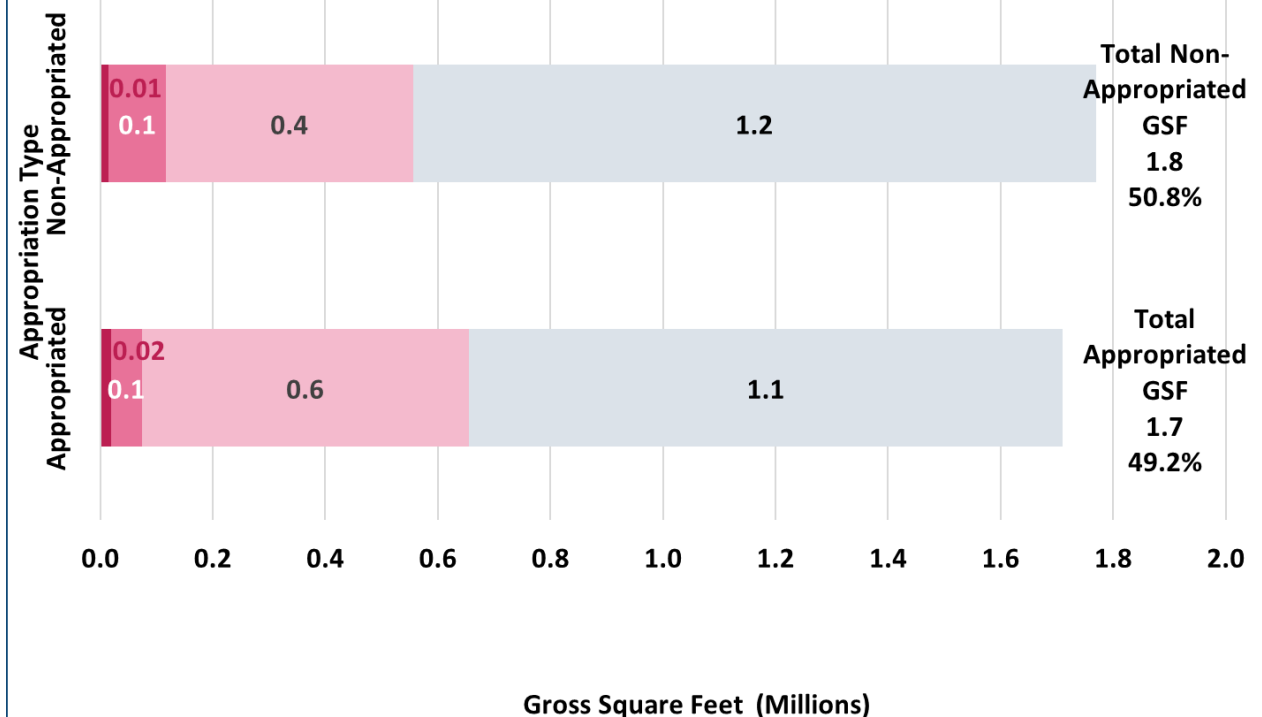
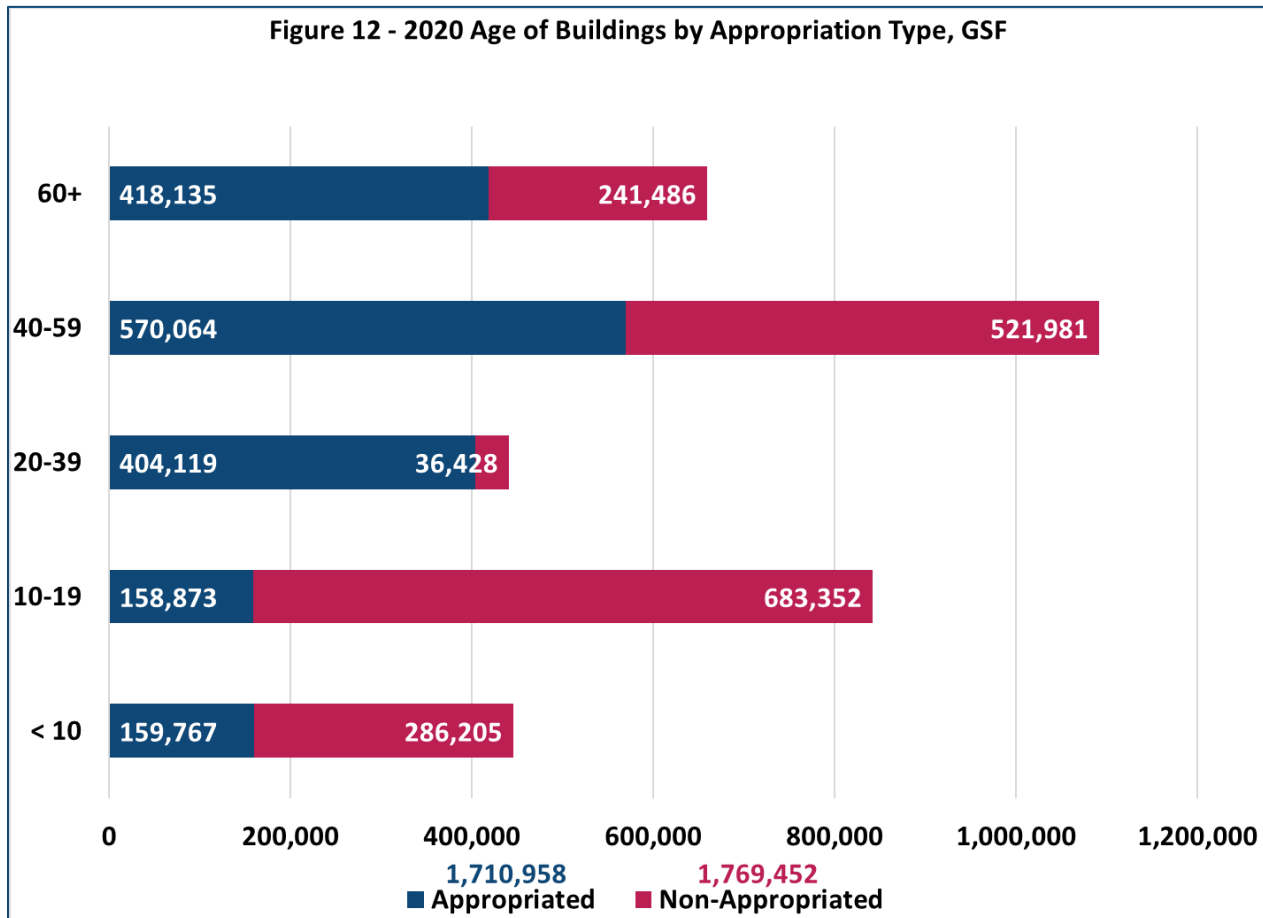
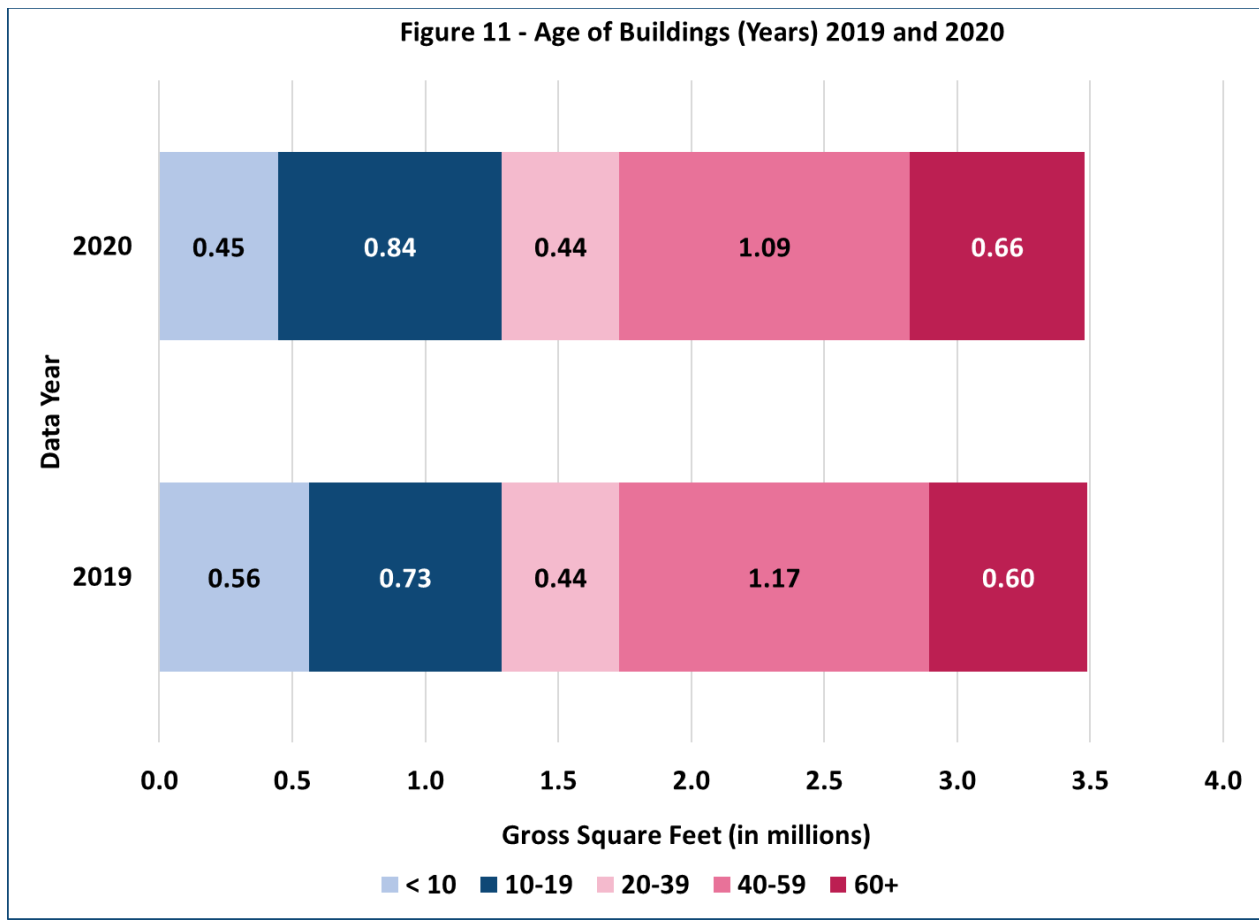


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



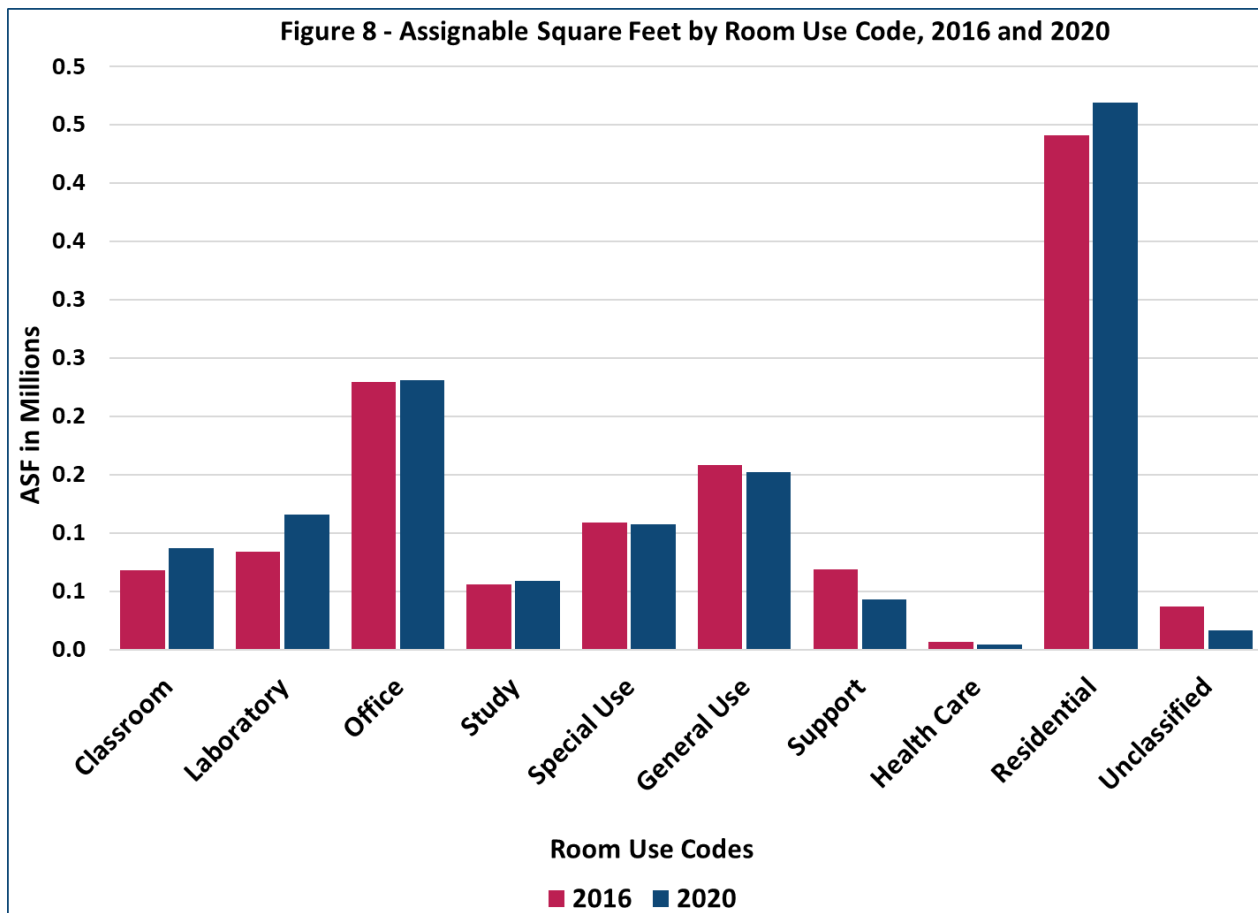


Founded in 1892, WSSU enjoys a distinguished reputation as a historically black constituent institution of the UNC System that offers a rich curriculum rooted in a high-quality, liberal education. The university fosters the creative thinking, analytical problem-solving, and depth of character that graduates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

Room Space Characteristics

In 2020, the assignable square feet at WSSU increased from 1,273,375 to 1,273,375, or 0.9% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2020	% of Total in 2016	% Change
Instruction	309,040	24.06%	20.81%	3.25%
Research	33,825	2.63%	2.78%	-0.15%
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 2019, gross square footage has increased by 39,358 SF, or 2.0%.

Winston-Salem State University Building Characteristics	
50 Total Buildings	
	30 Owned
25 Appropriated	7 Leased
25 Non-appropriated	13 Other Agreement
<hr/>	<hr/>
50 Total	50 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2020

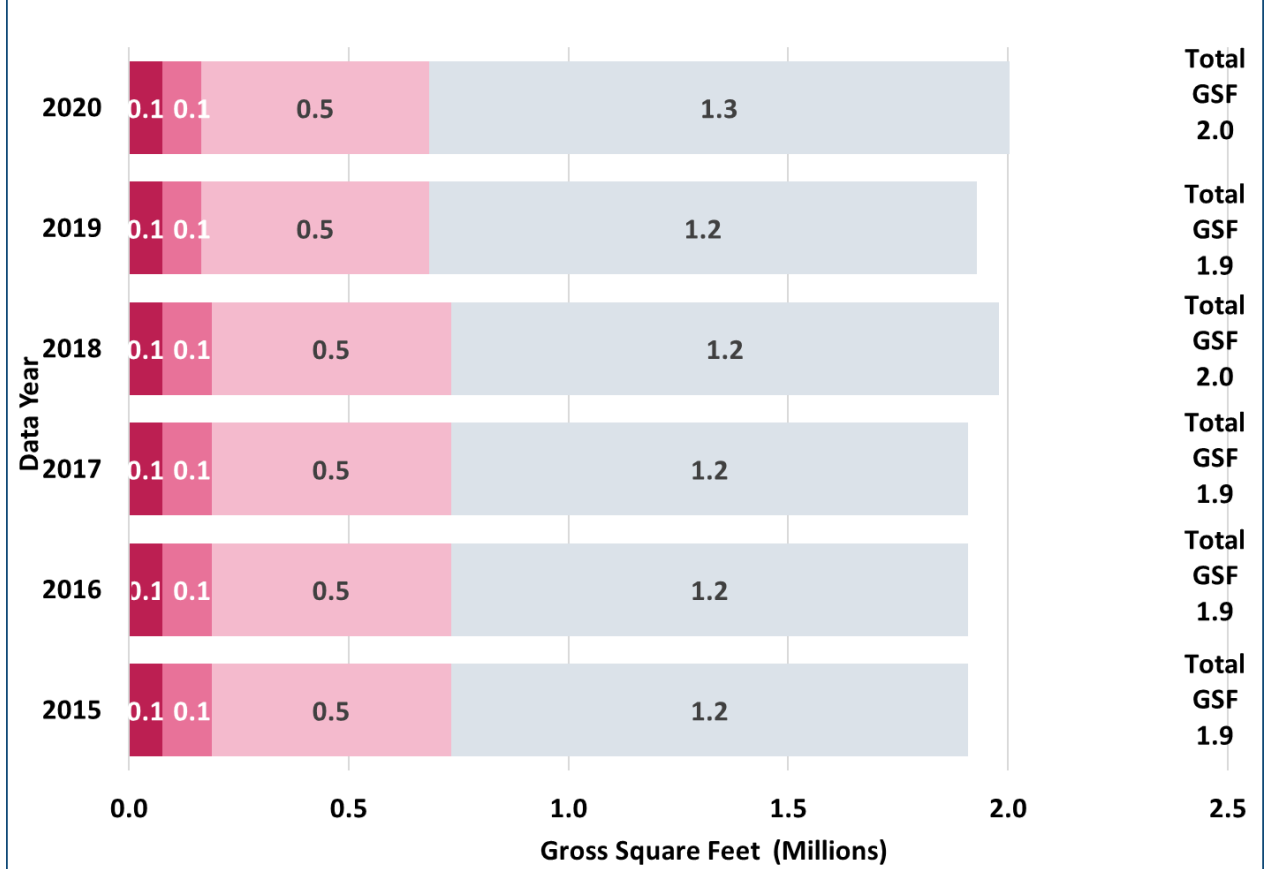
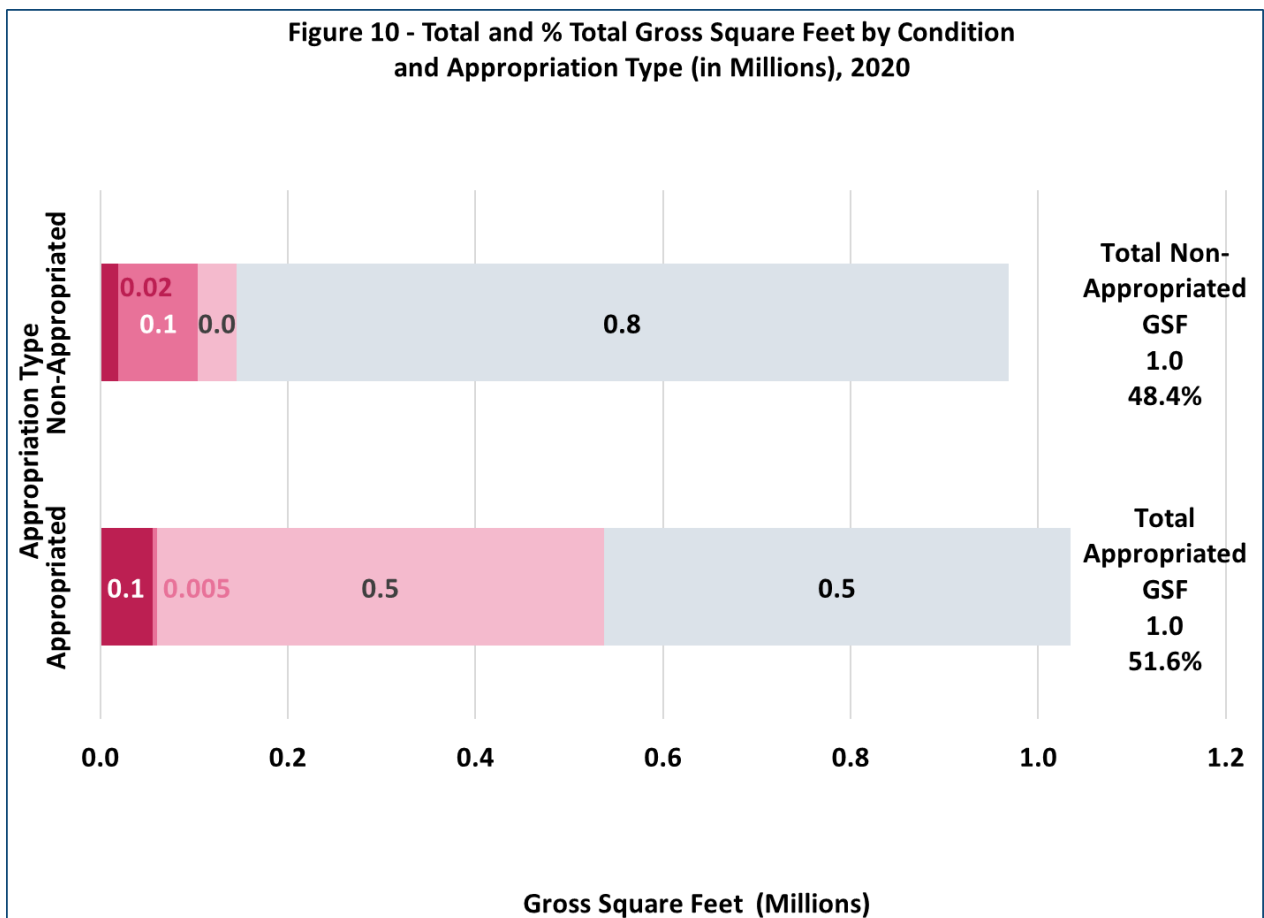
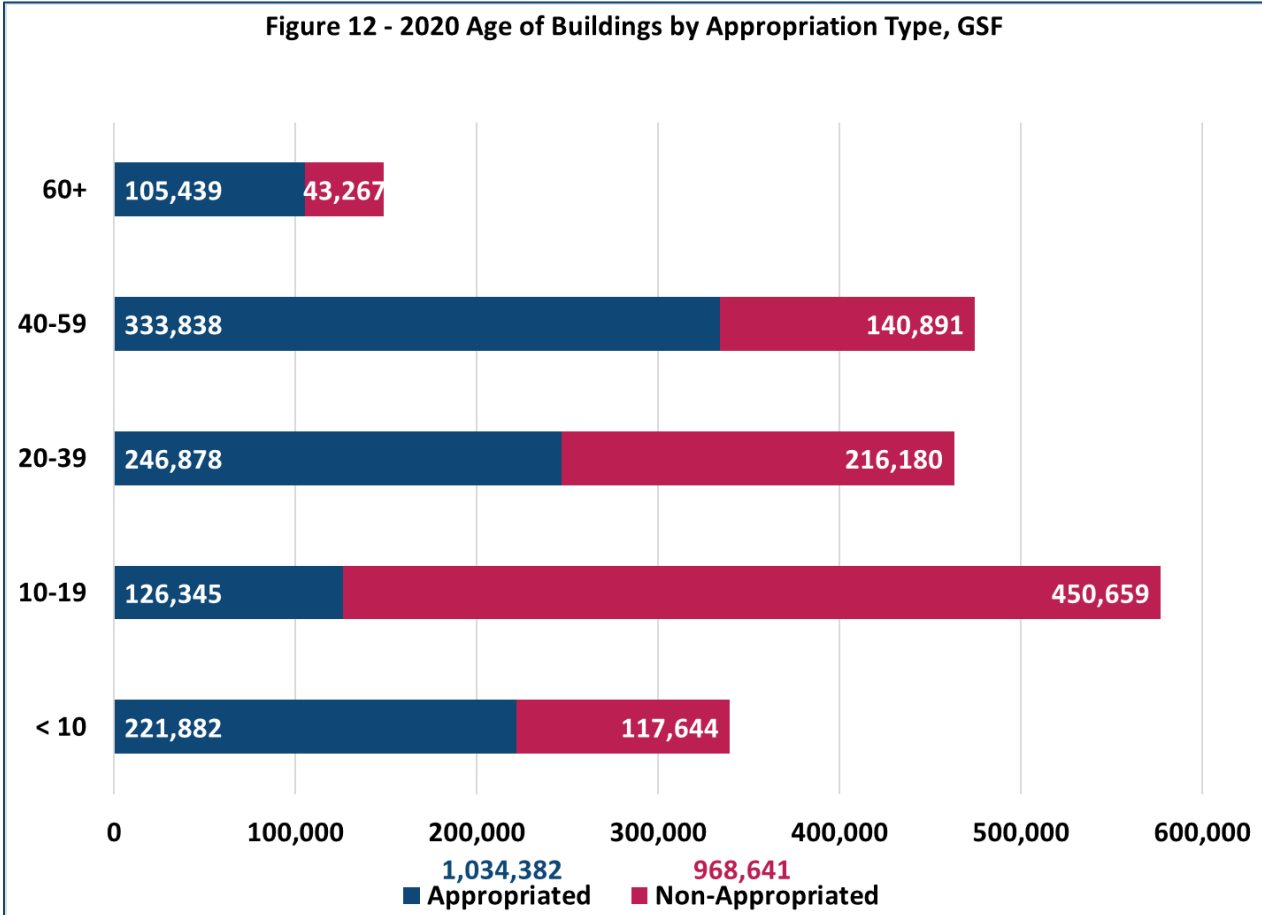
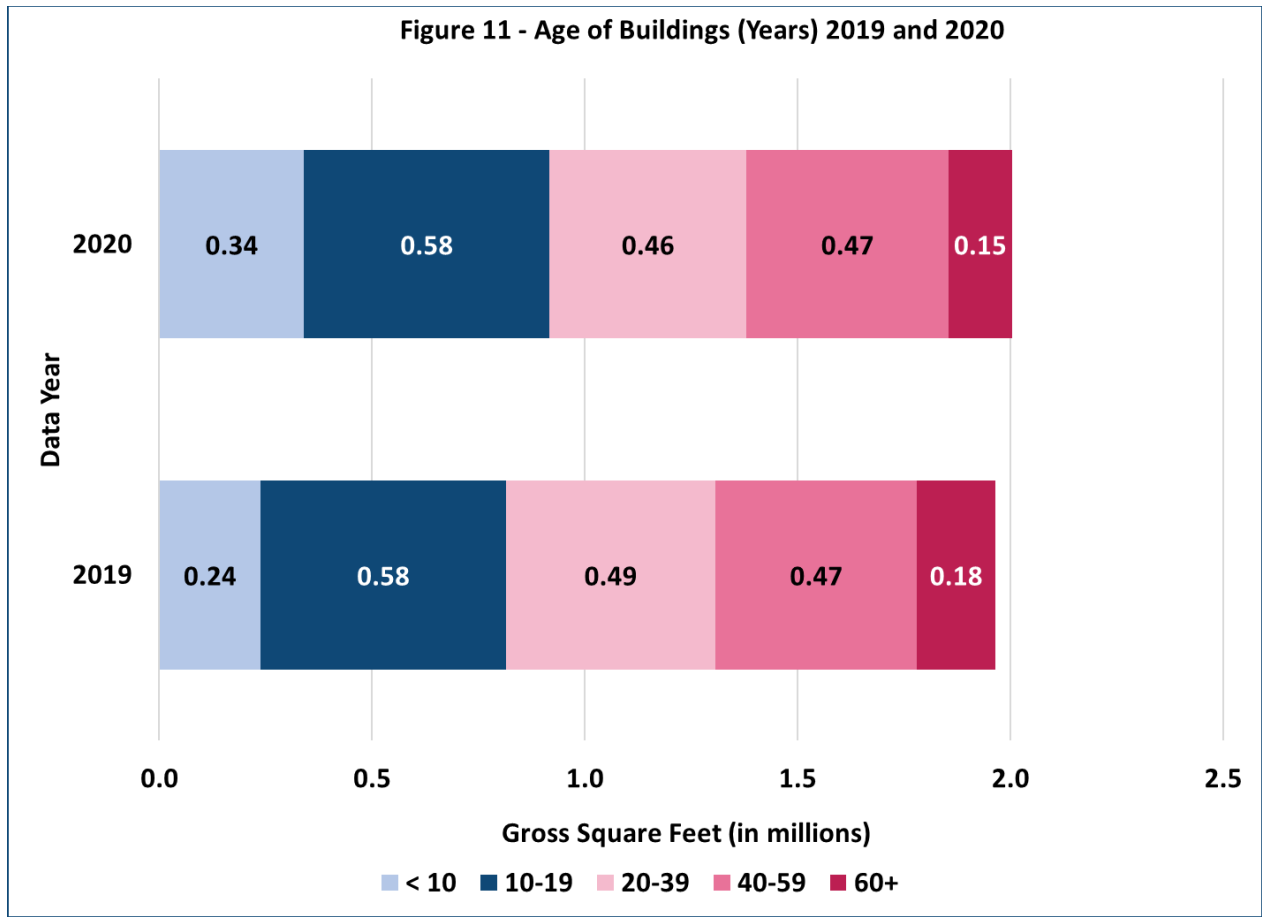


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020



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 8	Assignable Square Feet by Room Use Code, 2020	Table 15
Figure 9	Total Gross Square Feet by Condition Type (in Millions) 2016-2020)	Table 22
Figure 10	Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2020	Table 22 (GSF Only)
Figure 11	Age of Buildings (Years), GSF	Table 21
Figure 12	2020 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