

**2019 FACILITIES INVENTORY
AND UTILIZATION STUDY**
for
The University of North Carolina System
Fifty-Third Edition



Lavern Hamlin Allen Residence Hall, Western Carolina University

September 2021

Levern Hamlin Allen Residence Hall

Western Carolina University

(Cover Page)

Levern Hamlin Allen Hall is the newest addition to Western Carolina University's residence halls, opening in August of 2019. As a part of WCU's historic Upper Campus, Allen Hall sits between Judaculla Residence Hall and Brown Hall. This residence hall houses more than 600 students in a combination of double occupancy and single occupancy suite-style rooms and was designed with both study and community spaces.

There are sixteen small study spaces located throughout the building that offer excellent private or small group gathering spaces. There are eight larger lobby spaces throughout the building that provide gathering space for larger groups, while also welcoming students into spaces throughout the building. The building has five kitchens and kitchen/living room spaces, as well as four laundry rooms.

Allen Hall is named after WCU's first African American student – Levern Hamlin Allen, who attended then-Western Carolina College in the summer of 1957.

The 1950s were an era of change as far as racial equality was concerned, particularly in the South. In its 1954 *Brown v. Board of Education* ruling, the U.S. Supreme Court ruled that segregation in public schools was unconstitutional.

Three years later, Western Carolina College admitted its first African American student, Levern Hamlin Allen, becoming one of North Carolina's first all-white institutions of higher education to integrate.

Allen attended WCC in the summer of 1957 completing three classes for nine credits to meet the North Carolina teacher certification requirements after accepting a job in Charlotte with the Mecklenburg County School System.

Allen drove from Roanoke, Virginia, to Cullowhee in the summer of 1957. Because of the white resistance across the country following the Supreme Court's ruling, Allen was nervous. But under the careful watch of Lillian Hirt, the university's director of publicity, Allen felt at ease. She credits Hirt for making sure WCC's first experience with integration went smoothly.

During her first week of classes, students came up and introduced themselves. Professors were accommodating. Allen later found that people in Sylva already knew who she was. During her time in Cullowhee, Allen kept a journal with pictures, letters, notes, and mementos of her experience, which she later donated to Hunter Library's Special Collections.

Allen's experience exceeded her expectations. Not only did she receive the necessary credits to receive her teaching certificate, but she also left with pleasant memories of the people she encountered.

Allen married and had a successful teaching career both in Charlotte and the Washington, D.C., area. Her association with WCU faded into the history books until 1987 when alumnus Michael Naylor and members of WCU's Ebony Club thought it would be nice to have an African American reunion that included inviting the school's first African American student.

Allen shared her story with the group, as well as her life experiences afterwards. About a year later, WCU Chancellor Myron L. Coulter reached out to Allen to see if she would be interested in serving on the university's Board of Trustees. She served two terms.

In 2006, Allen received another call from WCU. This time it was from WCU Chancellor John Bardo to inform her that she was being awarded an honorary doctorate of humane letters.

On the morning of Nov. 29, 2018, WCU announced it was naming its new 614-bed residence hall after Allen. News quickly spread across campus as African American students were overcome with a sense of pride.

Meanwhile, Allen was still grasping the idea that she was having a building named after her after receiving the news from WCU trustee and alumnus Wardell Townsend.

"It wasn't something that was planned," Allen said. "No organization was behind me. I needed nine hours, so I went. So, if you want to say thank you for doing that and going forward, that's fine. But I don't feel special for doing that. If I opened the doors so that somebody else could come, that's good, too. It was just something I needed and so I went. And now, see where I am. Wow. From a need for nine hours to having a building named after me."

The University of North Carolina

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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

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

Kim Higdon, Space Analyst
Muktha Jost, Vice Provost
Steve Coppola, Provost for Inst. Research
Judy Smith, Dir. Space Management

Master's (Comprehensive) Universities and Colleges I

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

Sheri N. Everts
Darrell T. Allison
Johnson O. Akinleye
Robin G. Cummings
Jose V. Sartarelli
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
Tina Ann Strickland, Academic Space Manager
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 53rd 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 2019 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.

The 2019 Facilities Inventory and Utilization Study is being published in its entirety, online, in a format that can be printed front and back. The 2019 study can be found at <https://www.northcarolina.edu/impact/stats-data-reports/facilities-utilization/>

Katherine Lynn

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

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 School 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 School 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 School 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 2019, the UNC System had approximately
89.4 million gross square feet of space
and 2,997 buildings
including all sixteen campuses and excluding UNC Hospitals.**

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

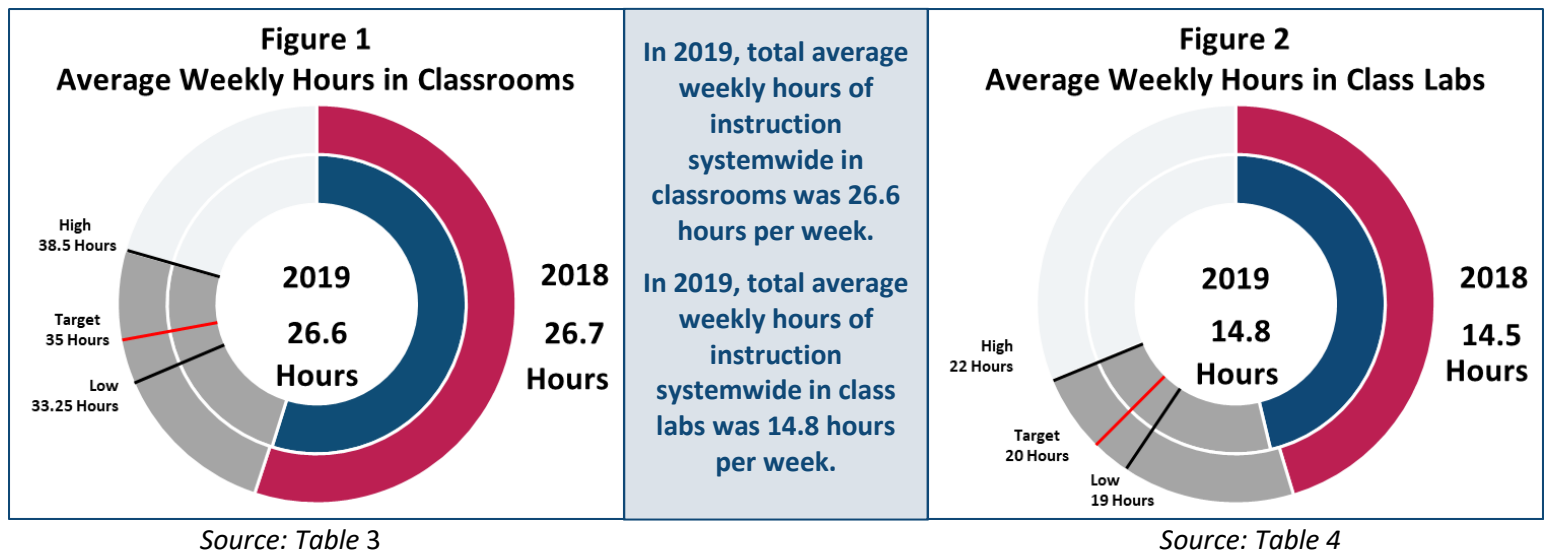
Utilization of Instructional Space

The study looks at several areas to gauge the capacity and utilization of space. This includes two primary measures: the weekly room utilization and the seat fill. The weekly room utilization indicates how often the room is utilized for scheduled classes. The UNC System has set a utilization standard target that each available classroom be scheduled for 35 hours of class instruction per week based on day and evening scheduling, Monday – Friday between 5 a.m. and 11 p.m. **Daytime utilization is based on all class times between and including 5:00 a.m. and 4:59 p.m.; nighttime utilization is based on all other classes.** The average weekly room hours of instruction is calculated by dividing the total room hours of instruction by the total number of rooms. This data is taken from Tables 3 and 4 found on pages 7 and 9 of the study.

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

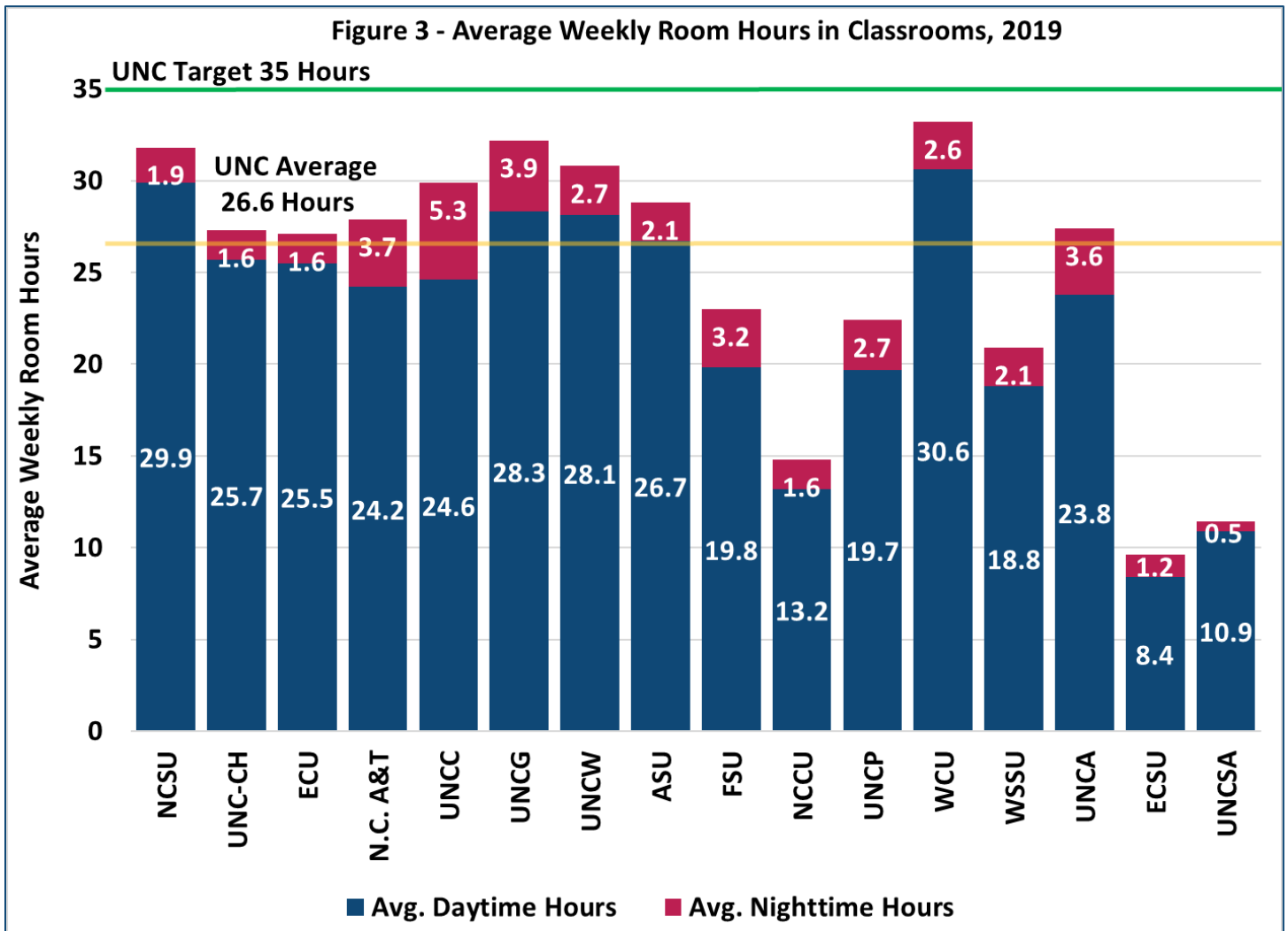
The UNC System standard for class labs is 20 hours per week of scheduled class instruction.

Figures 1 and 2 show the average weekly hours of instruction for classrooms and class labs in 2019.



Figures 1 and 2 indicate a slight decrease in average weekly hours in classrooms, down 0.1 hours per week from 2018, and a slight increase in average weekly hours for class labs, up 0.3 hours per week from 2018.

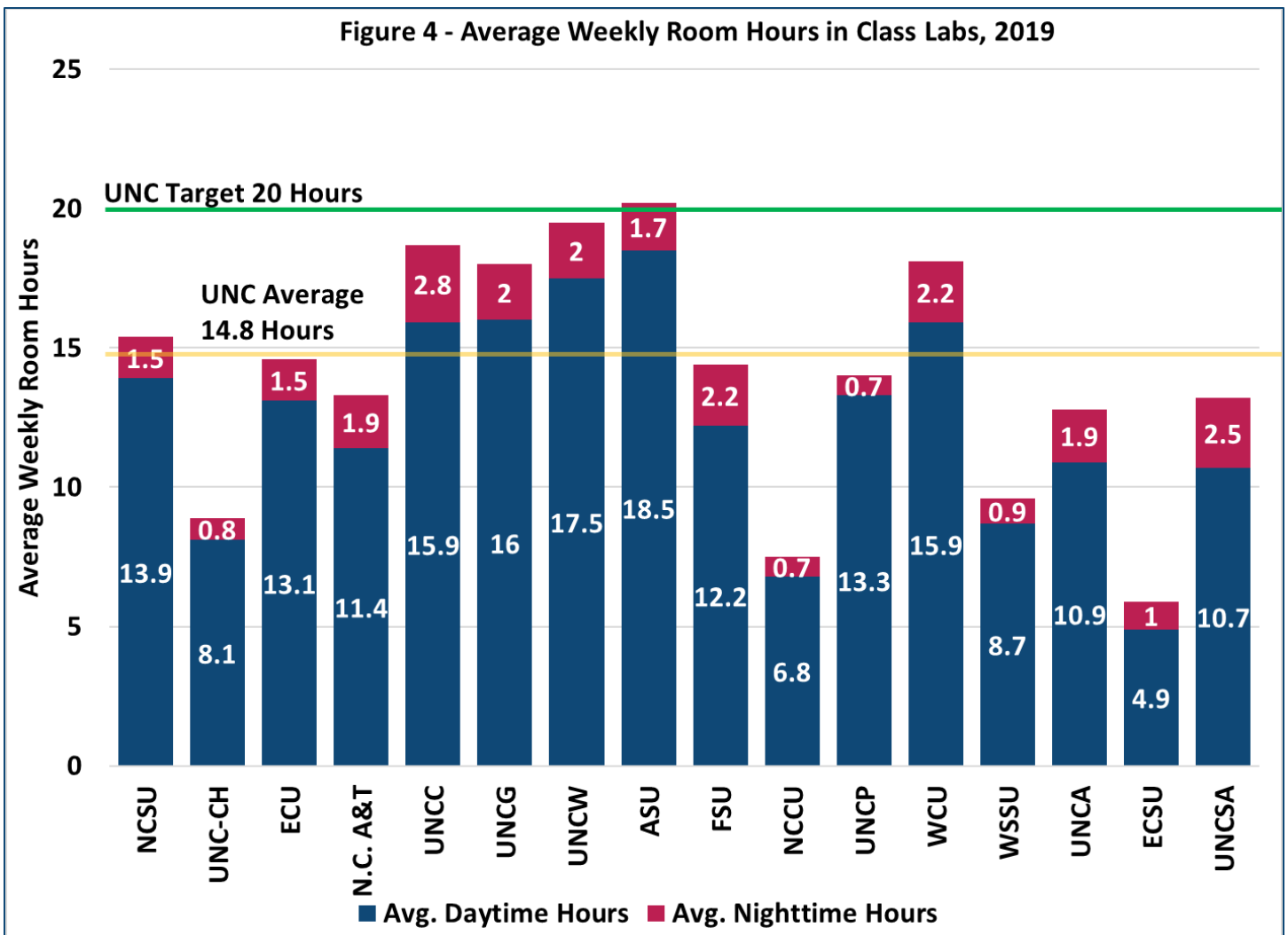
Figure 3 includes a breakdown of average weekly hours for classrooms by institution, and includes additional details on daytime and nighttime room hours.



Source: Table 3

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

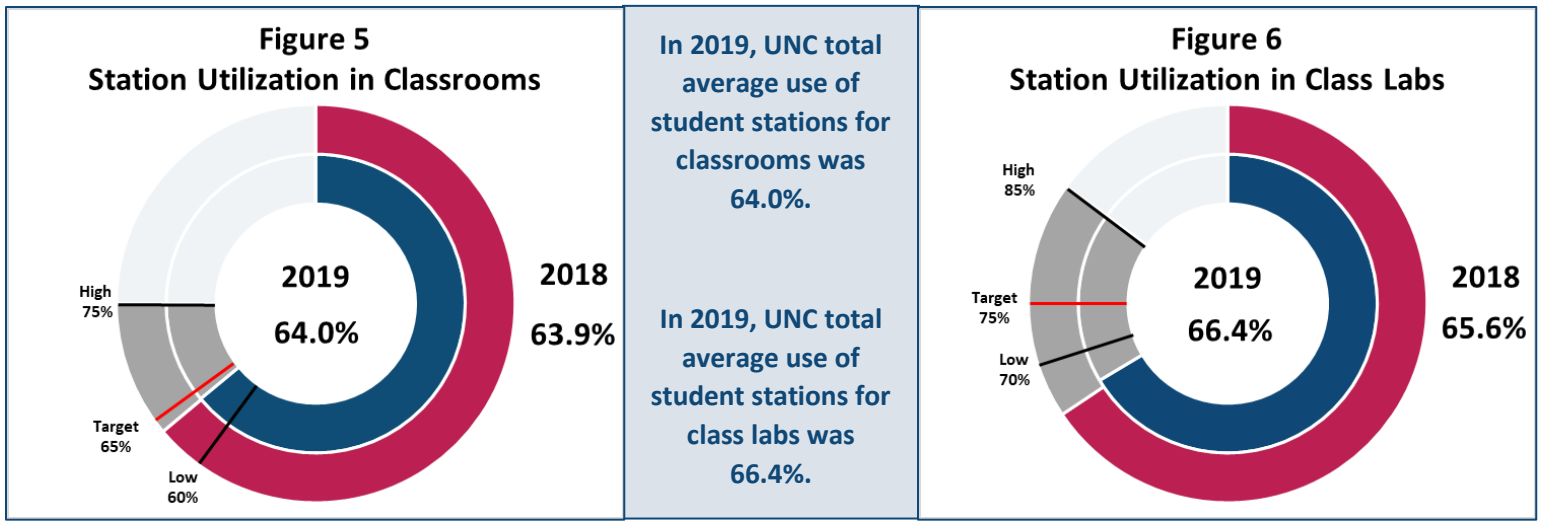
Figure 4 - Average Weekly Room Hours in Class Labs, 2019



Source: Table 4

Average weekly use of student stations is used to indicate the average number of hours each week a student station is used by room. **A student station is defined as a seat in the room.** Average weekly use of student stations is calculated by dividing the total number of student clock hours generated in the room by the total number of student stations in the room. The UNC System standard target for average weekly use of student stations for classrooms is 65%. The UNC System standard for class laboratories is 75%. For additional information on Student Clock Hours, see page 3 of the study.

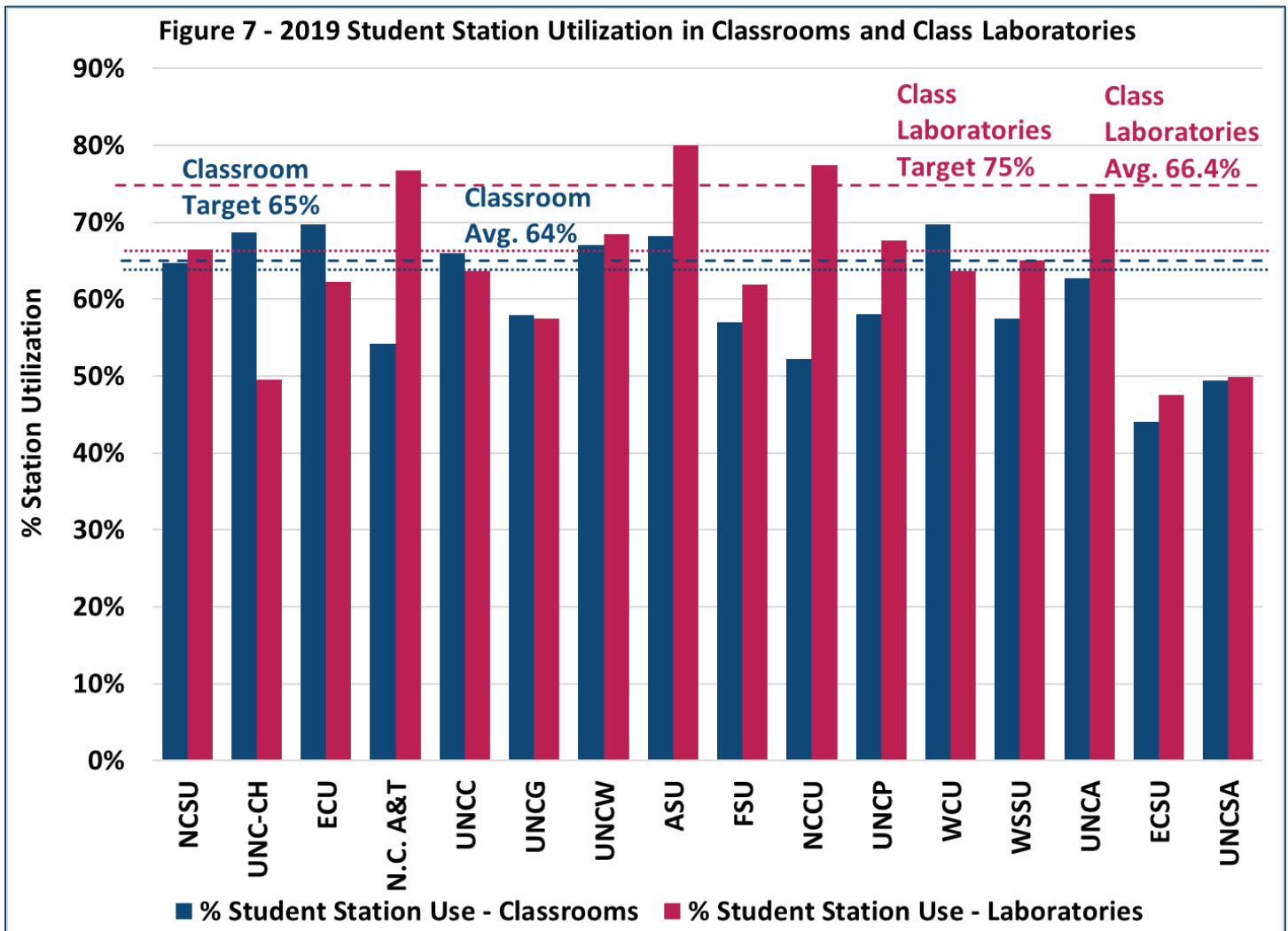
Figures 5 and 6, on the following page, indicate the average student station utilization systemwide for classrooms and class labs. In 2019, the average weekly use of student stations in classrooms was 64% and for class labs was 66.4%. This indicates a slight increased use from 2018 of 0.1% for classrooms and 0.9% for class labs.



Source: Table 7

Source: Table 7

Figure 7 displays use of student stations data by institution for classrooms and class labs. Further details on the utilization of instructional space are available on pages 3-33 of the study.



Source: Table 7

Room Space Characteristics

The study includes information on the assignment and use of each room on every campus. Of the 89.4 million gross square feet in the UNC System, excluding UNC Hospitals, 48.9 million square feet is considered assignable space. Assignable space is defined as space that is assigned to, or available for assignment to, an occupant or specific use. Assignable space excludes building service areas, circulation, mechanical, and structural areas. From 2015 to 2019, the assignable space has increased by 1,692,379 SF or 3.6%.

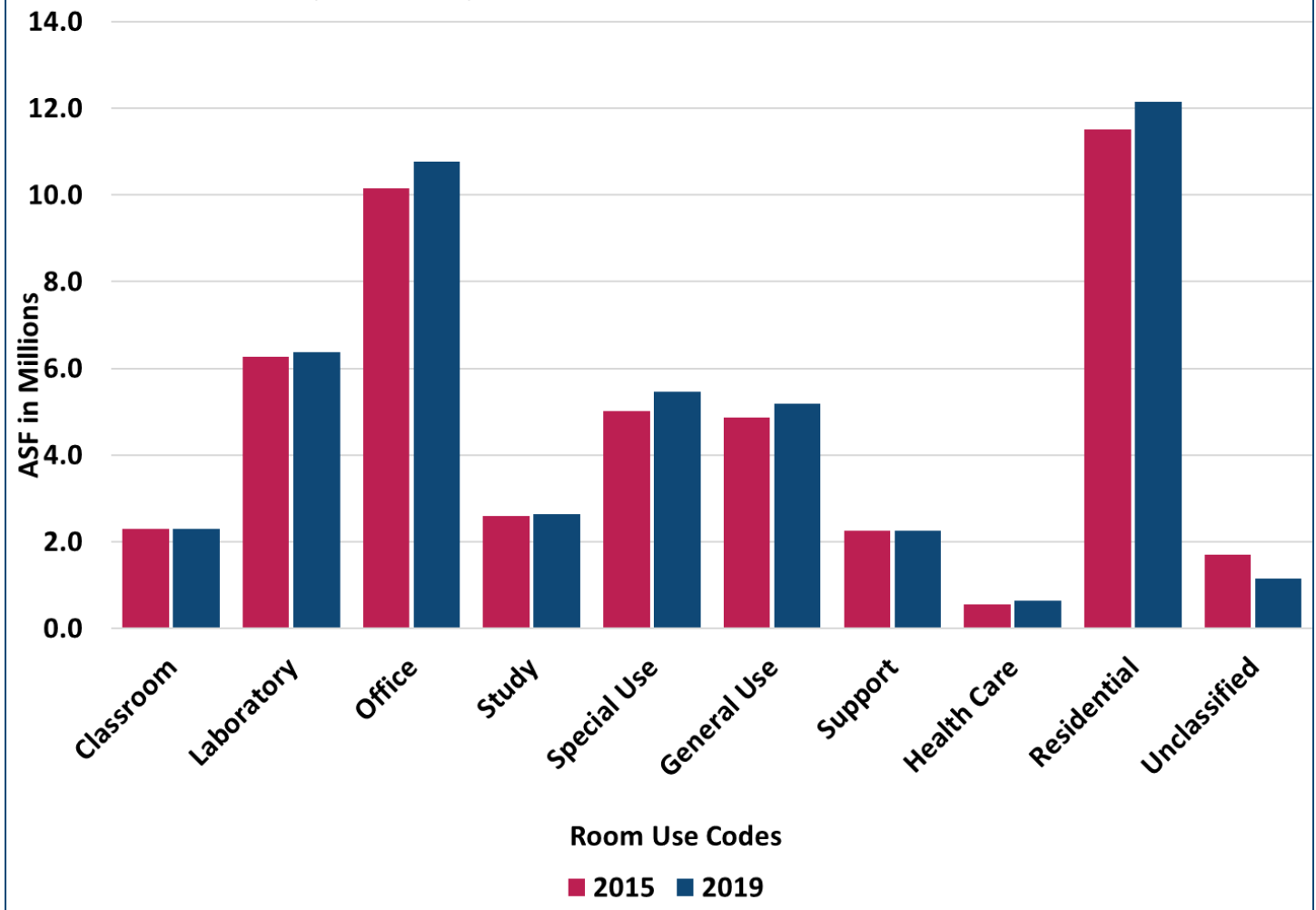
Assignable Space by Program				
Program	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	11,599,169	23.7%	24.1%	-0.4%
Research	5,803,440	11.9%	11.9%	-0.1%
Public Service	1,682,447	3.4%	2.9%	0.5%
Student Service	19,959,184	40.8%	39.7%	1.1%
Other	9,871,214	20.2%	21.3%	-1.2%

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. The student services share, 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 1,209,810 SF, or 6.5% from 2015. The public service share, 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 307,613 SF or 22.4%. All other program areas saw moderate increases in SF over the period: Instruction, 217,065 SF or 1.9%; Research, 161,752 or 2.9%.

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 12.1M SF, or 25% of all space, assigned to this room use code. This represents an increase of 629,304 SF, or 5.5%, since 2015. Office space is the second largest room use category at 10.7M SF, or 22% of all assignable space. Office space has increased by 622,423 SF, or 6.1% since 2015. 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.

Figure 8 - Assignable Square Feet by Room Use Code, 2015 and 2019









Source: Table 15

Building Characteristics

Excluding UNC Hospitals, the UNC System has 89.4 million gross square feet of space comprised of 2,997 buildings and a total estimated replacement value of more than \$27.3B. The building characteristics primarily focus on the physical attributes of the building including ownership, building use, fund type, age, and building condition. The chart below shows the general characteristics of all buildings in the UNC System.

UNC System Building Characteristics	
2,997 Total Buildings	
	2,487 Owned
1,925 Appropriated	157 Leased
1,072 Non-Appropriated	353 Other Agreement
2,997 Total	2,997 Total

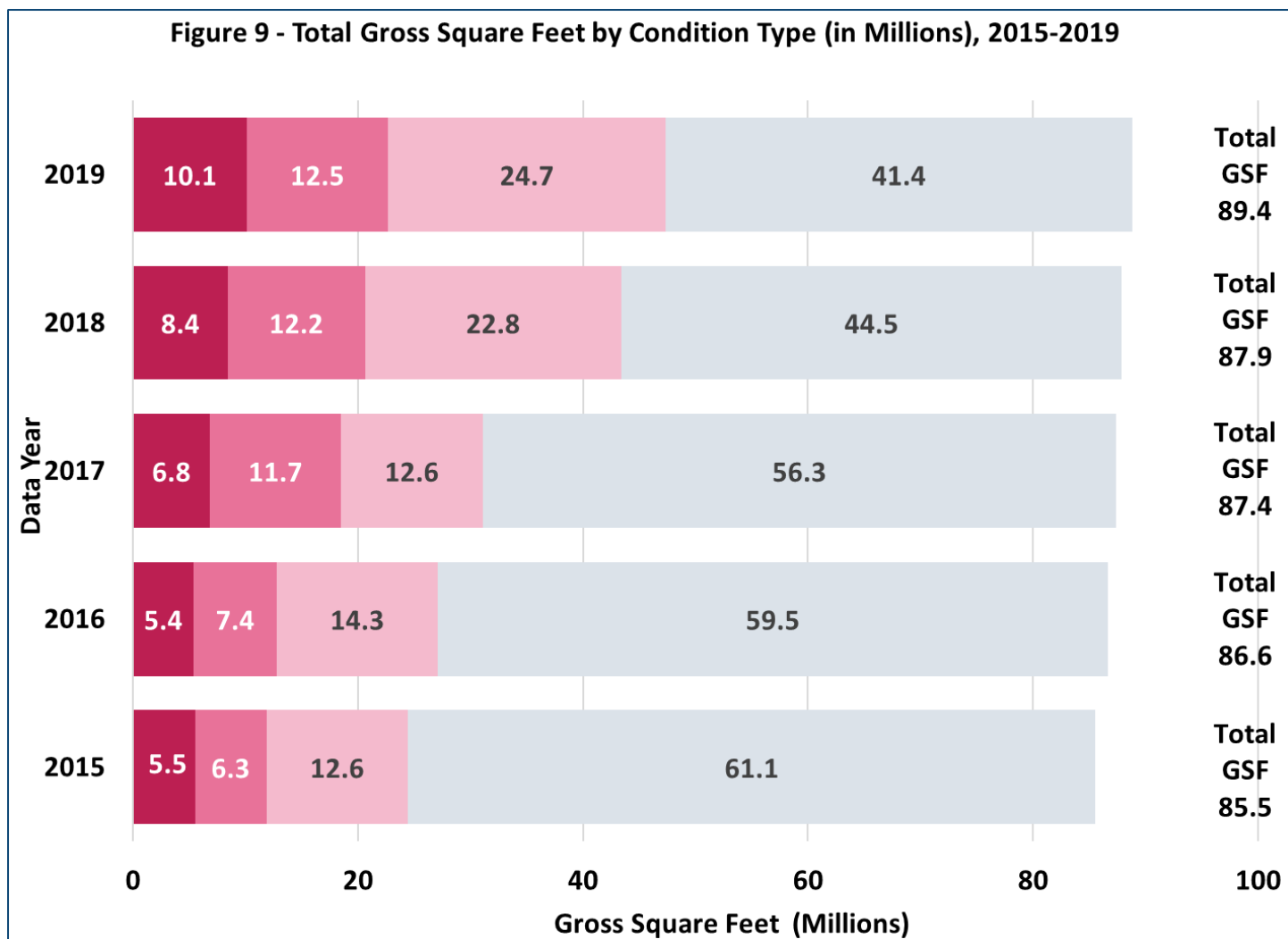
One important building characteristic is building condition. This indicates the extent to which existing facilities are in sound operating order, functioning as originally intended. Building condition categories are listed in the chart below.

 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

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.

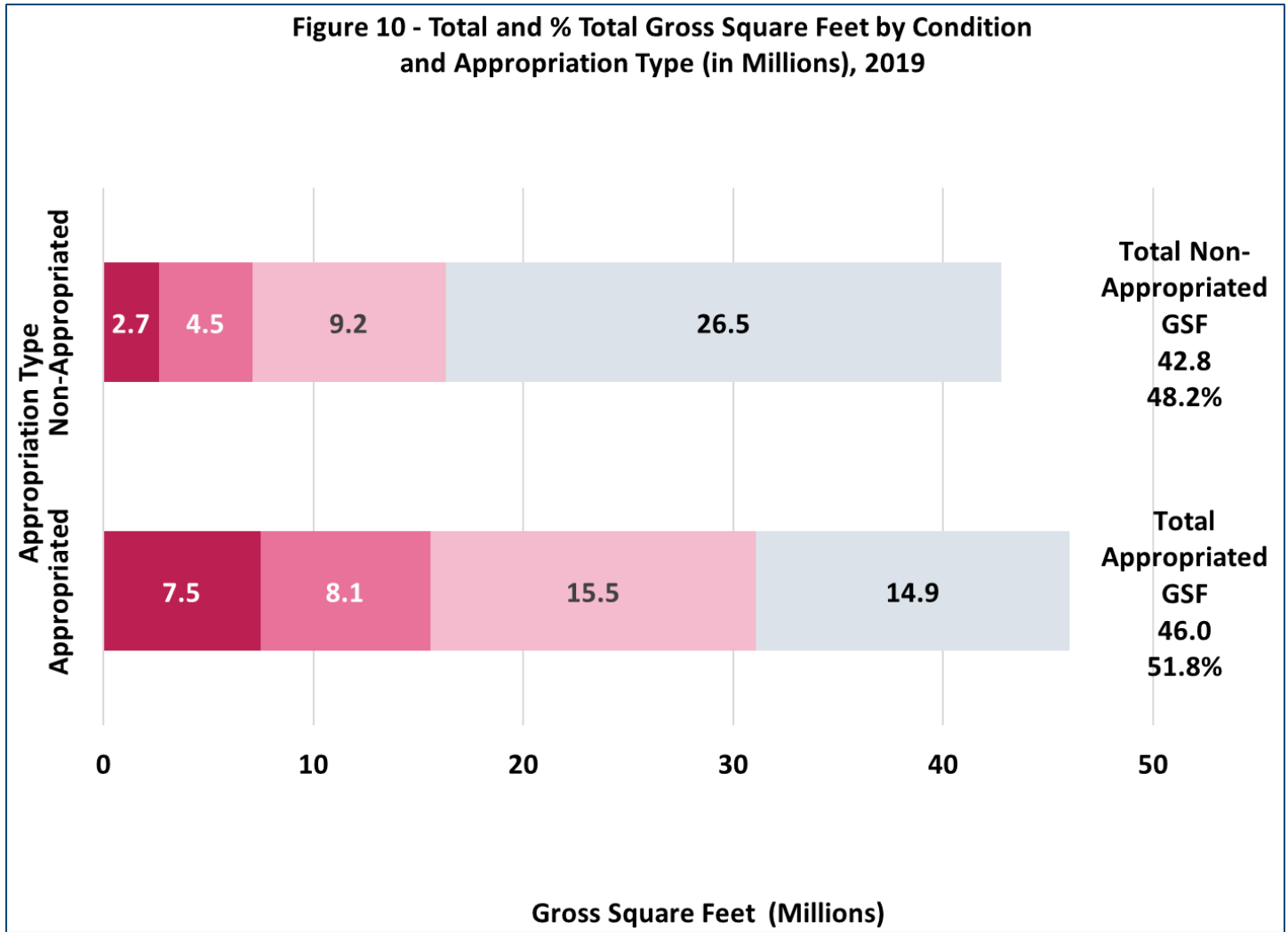
Condition 5 designates facilities that have been identified for demolition, typically because they are unsafe or unsound, while Condition 6 indicates facilities that are no longer in use for reasons other than condition.

Figure 9 illustrates the GSF and condition type from 2015 to 2019. The GSF in Conditions 3 and 4 has increased by 6,212,724 and 4,606,578, or 98% and 84% respectively since 2015, accounting for more than 20% of the 2019 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.



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.

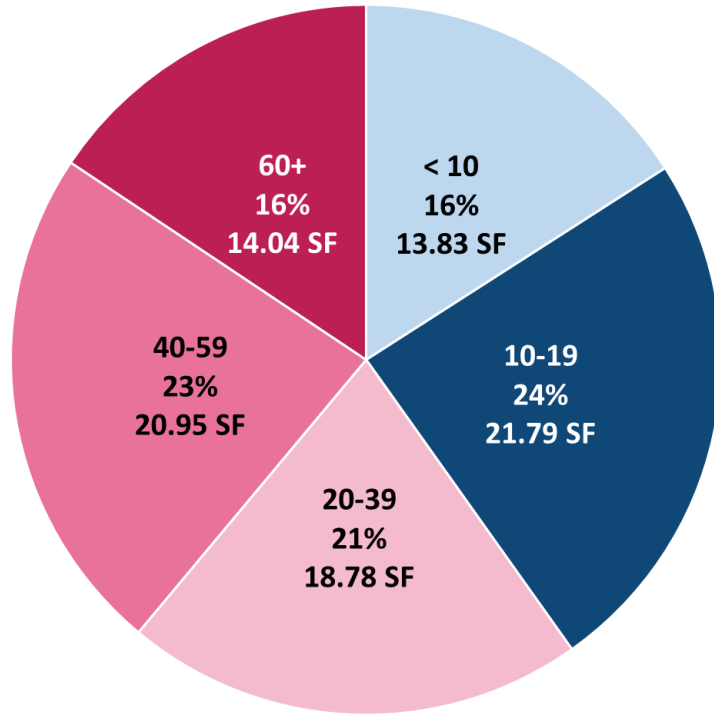


Source: Table 22 (GSF Only)

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 lead 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.

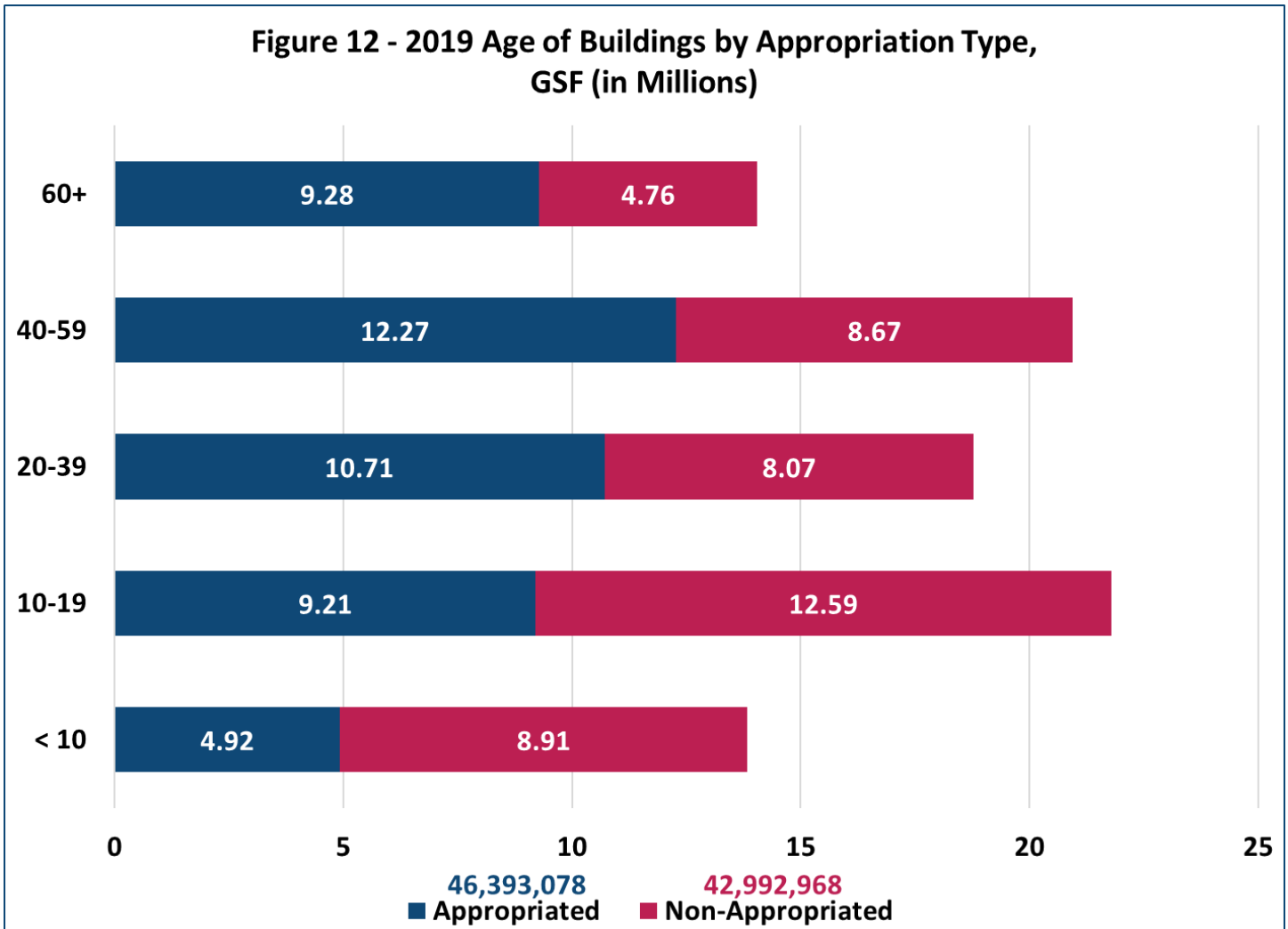
Further details regarding building characteristics, including a breakdown by campus, are on pages 77-83 in the study.

Figure 11 - Age of Buildings (Years), GSF (in Millions)



Source: Table 21

Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF (in Millions)



Source: Table 21 (GSF Only)

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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

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Table 1: Capacity/Enrollment Ratio

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

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

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

Instructional and Library Space

Instructional and library space is defined in terms of program codes (pages 39-40, 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				
			2019	2018	2017	2016	2015
Research Universities I							
NC State	1,677,381	409,066.5	4.10	4.34	4.44	4.46	4.38
NC State Veterinary Med	-	-		-	-	-	-
UNC-Chapel Hill	1,881,395	308,551.0	6.10	6.26	6.17	6.10	6.12
UNC-Chapel Hill Hlth Aff.	-	-		-	-	-	-
Subtotal	3,558,776	717,617.5	4.96	5.17	5.20	5.19	5.14
Doctoral Universities I & II							
East Carolina	1,032,899	269,552.0	3.83	3.77	3.62	3.57	3.78
East Carolina Hlth Aff.	-	-		-	-	-	-
N.C. A&T	720,191	159,699.0	4.51	4.68	4.78	5.17	5.22
UNC Charlotte	1,024,593	345,166.0	2.97	2.87	2.77	2.80	2.84
UNC Greensboro	734,977	196,760.5	3.74	3.52	3.65	3.59	3.76
UNC Wilmington	546,698	177,220.5	3.08	3.04	3.01	3.28	3.06
Subtotal	4,059,358	1,148,398	3.53	3.54	3.50	3.53	3.64
Master's (Comprehensive) Universities & Colleges I							
Appalachian	881,546	271,082.0	3.25	3.37	3.10	3.11	3.11
Fayetteville	283,535	47,585.5	5.96	5.53	6.24	5.78	5.68
NCCU	538,119	81,518.5	6.60	6.15	5.94	5.77	5.79
UNC Pembroke	310,532	64,903.5	4.78	4.67	5.04	4.75	4.76
Western Carolina	548,055	149,874.0	3.66	3.80	3.95	4.01	4.25
Winston-Salem	279,211	57,885.5	4.82	4.49	4.63	4.60	4.90
Subtotal	2,840,998	672,849.0	4.22	3.97	3.97	3.99	4.00
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	250,883	50,299.0	4.99	4.79	4.71	4.73	4.05
Subtotal	250,883	50,299.0	4.99	7.21	7.41	7.75	6.76
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	281,601	21,750.5	12.95	13.16	15.10	17.24	15.39
Subtotal	281,601	21,750.5	12.95	7.21	7.41	7.75	6.76
Schools of Art, Music, & Design							
UNC School of the Arts	335,203	33,711.5	9.94	10.52	10.48	10.37	10.49
Subtotal	335,203	33,711.5	9.94	10.52	10.48	10.37	10.49
Grand Total	11,326,819	2,644,625.5	4.27	4.30	4.28	4.30	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:

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

Academic Facilities

"Academic facilities" is a broader concept than "instructional and library space" (page 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				
			2019	2018	2017	2016	2015
Research Universities I							
NC State	5,949,915	32,121	185	190	196	198	195
<i>NC State Veterinary Med</i>	450,539	398	1,132	1,091	1,083	1,061	1,044
UNC-Chapel Hill	3,779,724	23,104	164	161	160	167	165
<i>UNC-Chapel Hill Hlth Aff.</i>	2,540,926	4,752	535	555	535	545	543
Subtotal	9,729,639	55,225	176	177	180	184	182
Doctoral Universities I & II							
East Carolina	1,718,156	22,701	76	75	72	71	71
<i>East Carolina Hlth Aff.</i>	1,079,065	2,744	393	420	415	412	333
N.C. A&T	1,549,357	11,765	132	137	139	149	150
UNC Charlotte	1,950,743	27,167	72	69	67	70	75
UNC Greensboro	1,472,090	18,184	81	79	83	83	85
UNC Wilmington	1,013,788	15,797	64	64	68	71	70
Subtotal	7,704,134	95,614	81	82	82	84	86
Master's (Comprehensive) Universities & Colleges I							
Appalachian	1,311,153	18,572	71	73	69	70	71
Fayetteville	466,374	5,567	84	86	98	96	99
NCCU	802,766	7,291	110	107	108	108	108
UNC Pembroke	526,125	6,856	77	84	96	95	91
Western Carolina	847,234	11,103	76	79	85	86	91
Winston-Salem	527,426	4,787	110	112	114	112	114
Subtotal	4,481,078	54,176	83	81	83	85	86
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	411,303	3,295	125	118	120	117	115
Subtotal	411,303	3,295	125	118	120	117	115
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	432,615	1,663	260	278	333	322	270
Subtotal	432,615	1,663	260	278	333	322	270
Schools of Art, Music, & Design							
UNC School of the Arts	535,805	1,075	498	515	534	519	558
Subtotal	535,805	1,075	498	515	534	519	558
Grand Total	23,294,574	211,048	110	111	113	115	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				
				2019	2018	2017	2016	2015
Research Universities I								
NC State	7,346.0	29.9	1.9	31.8	31.2	31.1	31.2	30.8
UNC-Chapel Hill	7,640.5	25.7	1.6	27.3	27.6	27.7	27.4	27.2
Subtotal	14,986.5	27.3	1.7	29.0	29.2	29.3	29.1	28.9
Doctoral Universities I & II								
East Carolina	4,909.5	25.5	1.6	27.1	27.2	27.7	27.5	26.1
N.C. A&T	4,232.0	24.2	3.7	27.9	25.4	24.4	23.1	22.6
UNC Charlotte	7,060.5	24.6	5.3	29.9	30.8	34.3	32.4	31.2
UNC Greensboro	4,626.0	28.3	3.9	32.2	31.6	30.5	29.3	28.0
UNC Wilmington	4,407.5	28.1	2.7	30.8	32.2	31.1	26.6	27.0
Subtotal	25,235.5	25.6	3.5	29.1	29.5	29.9	28.2	27.3
Master's (Comprehensive) Universities & Colleges I								
Appalachian	6,095.0	26.7	2.1	28.8	27.2	28.7	29.3	28.9
Fayetteville	1,449.0	19.8	3.2	23.0	25.3	25.6	24.4	25.0
NCCU	2,256.0	13.2	1.6	14.8	16.6	16.8	16.5	16.1
UNC Pembroke	2,396.5	19.7	2.7	22.4	22.8	22.2	22.9	22.1
Western Carolina	3,518.0	30.6	2.6	33.2	32.3	30.9	30.3	29.2
Winston-Salem	1,630.0	18.8	2.1	20.9	22.6	22.2	22.1	23.2
Subtotal	17,344.5	21.9	2.3	24.2	24.4	24.6	24.6	24.3
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	1,594.0	23.8	3.6	27.4	28.3	25.6	27.4	28.1
Subtotal	1,594.0	23.8	3.6	27.4	28.3	25.6	27.4	28.1
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	776.5	8.4	1.2	9.6	10.2	11.3	8.6	8.4
Subtotal	776.5	8.4	1.2	9.6	10.2	11.3	8.6	8.4
Schools of Art, Music, & Design								
UNC School of the Arts	550.0	10.9	0.5	11.4	10.4	10.8	10.7	11.6
Subtotal	550.0	10.9	0.5	11.4	10.4	10.8	10.7	11.6
Grand Total	60,487.0	24.0	2.6	26.6	26.7	26.9	26.2	25.8

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				
				2019	2018	2017	2016	2015
Research Universities I								
NC State	3,259.0	13.9	1.5	15.4	12.7	13.4	13.6	13.3
UNC-Chapel Hill	1,009.0	8.1	0.8	8.9	9.3	9.4	9.9	11.2
Subtotal	4,268.0	12.0	1.3	13.3	11.8	12.2	12.5	12.7
Doctoral Universities I & II								
East Carolina	2,501.0	13.1	1.5	14.6	15.2	15.4	14.6	12.9
N.C. A&T	1,319.5	11.4	1.9	13.3	13.0	13.2	14.6	14.1
UNC Charlotte	2,637.5	15.9	2.8	18.7	20.7	18.9	17.3	19.0
UNC Greensboro	1,693.0	16.0	2.0	18.0	17.5	18.3	20.5	19.0
UNC Wilmington	1,758.5	17.5	2.0	19.5	17.0	18.0	17.8	16.9
Subtotal	9,909.5	14.5	2.0	16.5	16.6	16.6	16.7	16.0
Master's (Comprehensive) Universities & Colleges I								
Appalachian	2,780.5	18.5	1.7	20.2	20.5	21.8	21.9	21.5
Fayetteville	491.0	12.2	2.2	14.4	15.7	12.1	11.7	12.6
NCCU	483.0	6.8	0.7	7.5	8.5	8.9	10.4	8.7
UNC Pembroke	573.5	13.3	0.7	14.0	17.4	14.8	16.4	17.6
Western Carolina	1,551.5	15.9	2.2	18.1	17.7	17.0	16.6	15.0
Winston-Salem	499.0	8.7	0.9	9.6	10.1	9.2	9.1	11.3
Subtotal	6,378.5	13.8	1.5	15.3	16.0	15.4	15.6	15.4
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	461.0	10.9	1.9	12.8	11.8	14.7	12.6	14.6
Subtotal	461.0	10.9	1.9	12.8	11.8	14.7	12.6	14.6
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	378.0	4.9	1.0	5.9	6.7	6.1	4.6	4.6
Subtotal	378.0	4.9	1.0	5.9	6.7	6.1	4.6	4.6
Schools of Art, Music, & Design								
UNC School of the Arts	1,009.0	10.7	2.5	13.2	12.3	13.2	12.7	11.9
Subtotal	1,009.0	10.7	2.5	13.2	12.3	13.2	12.7	11.9
Grand Total	22,404.0	13.1	1.7	14.8	14.5	14.6	14.5	14.4

Table 5: Average Weekly Use of Student Stations in Classrooms

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

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

For the current year, Table 5 reports the total number of classroom student stations and breaks down the average weekly use figure into daytime and nighttime utilizations. (See page 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				
					2019	2018	2017	2016	2015
Research Universities I									
NC State	14,369	304,855.5	20.3	0.9	21.2	20.8	19.9	19.6	19.9
UNC-Chapel Hill	14,491	278,423.0	18.4	0.8	19.2	18.6	18.6	18.4	18.6
Subtotal	28,860	583,278.5	19.2	0.8	20.0	19.7	19.2	19.0	19.3
Doctoral Universities I & II									
East Carolina	9,436	196,439.5	19.9	1.0	20.9	21.7	22.8	22.3	20.4
N.C. A&T	6,997	113,801.5	14.6	1.7	16.3	15.4	14.8	14.1	14.1
UNC Charlotte	13,230	286,693.0	18.7	3.0	21.7	22.1	24.4	22.2	22.4
UNC Greensboro	8,569	150,149.5	16.1	1.4	17.5	18.6	18.4	18.3	17.9
UNC Wilmington	6,242	136,075.5	20.2	1.6	21.8	22.2	21.4	18.3	18.4
Subtotal	44,474	883,159.0	17.7	1.8	19.5	20.3	20.9	19.7	19.2
Master's (Comprehensive) Universities & Colleges I									
Appalachian	8,860	181,661.5	19.4	1.1	20.5	19.3	21.0	21.0	20.8
Fayetteville	2,516	34,896.0	12.4	1.5	13.9	14.8	14.0	14.9	15.1
NCCU	6,397	58,582.0	8.4	0.8	9.2	9.6	10.2	10.0	10.1
UNC Pembroke	3,878	52,556.5	12.5	1.1	13.6	14.5	13.8	14.4	14.4
Western Carolina	4,446	105,192.0	21.7	2.0	23.7	22.3	21.0	21.0	20.2
Winston-Salem	3,245	41,261.5	12.0	0.7	12.7	13.7	13.3	13.2	12.5
Subtotal	29,342	474,149.5	15.0	1.2	16.2	16.1	16.3	16.3	16.1
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	1,995	34,992.5	15.5	2.0	17.5	18.2	16.0	16.1	17.5
Subtotal	1,995	34,992.5	15.5	2.0	17.5	18.2	16.0	16.1	17.5
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	2,998	15,444.5	4.7	0.5	5.2	5.1	4.2	3.5	3.9
Subtotal	2,998	15,444.5	4.7	0.5	5.2	5.1	4.2	3.5	3.9
Schools of Art, Music, & Design									
UNC School of the Arts	1,147	7,327.0	6.2	0.2	6.4	5.9	6.1	6.4	6.8
Subtotal	1,147	7,327.0	6.2	0.2	6.4	5.9	6.1	6.4	6.8
Grand Total	108,816	1,998,351.0	17.0	1.3	18.4	18.4	18.5	17.9	18.0

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					
					2019	2018	2017	2016	2015	
Research Universities I										
NC State	6,055	74,105.5	11.2	1.0	12.2	10.5	11.1	11.1	11.4	
UNC-Chapel Hill	2,873	19,407.0	5.7	1.1	6.8	6.8	6.6	6.8	7.6	
Subtotal	8,928	93,512.5	9.6	1.0	10.6	9.4	9.7	9.8	10.2	
Doctoral Universities I & II										
East Carolina	4,543	51,854.0	10.2	1.2	11.4	11.6	11.4	11.3	10.2	
N.C. A&T	2,370	27,853.5	10.3	1.4	11.7	11.1	11.0	11.2	11.4	
UNC Charlotte	4,064	53,460.5	11.3	1.8	13.1	14.6	13.7	12.3	13.8	
UNC Greensboro	2,945	34,293.5	10.6	1.1	11.7	8.9	13.1	12.8	11.8	
UNC Wilmington	2,268	34,220.0	13.6	1.4	15.0	14.1	15.8	13.7	13.1	
Subtotal	16,190	201,681.5	11.1	1.4	12.5	11.6	12.3	11.9	11.7	
Master's (Comprehensive) Universities & Colleges I										
Appalachian	3,074	53,750.5	15.9	1.6	17.5	17.5	18.2	18.3	17.8	
Fayetteville	940	9,447.5	8.4	1.6	10.0	10.9	8.5	9.0	9.2	
NCCU	1,387	10,010.5	6.7	0.5	7.2	8.4	8.7	10.9	8.6	
UNC Pembroke	896	10,150.5	11.0	0.3	11.3	14.3	11.6	13.8	13.3	
Western Carolina	2,295	32,018.5	12.3	1.6	13.9	13.9	13.6	13.8	12.0	
Winston-Salem	1,179	10,149.0	8.3	0.4	8.7	8.4	7.0	7.0	7.4	
Subtotal	9,771	125,526.5	11.7	1.2	12.9	13.4	13.2	13.2	12.5	
Baccalaureate Colleges: Arts & Sciences Focus										
UNC Asheville	730	7,854.5	9.2	1.5	10.7	10.2	11.5	10.1	10.1	
Subtotal	730	7,854.5	9.2	1.5	10.7	10.2	11.5	10.1	10.1	
Baccalaureate Colleges: Diverse Fields										
Elizabeth City	1,416	6,023.5	3.4	0.9	4.3	3.9	3.6	2.7	3.3	
Subtotal	1,416	6,023.5	3.4	0.9	4.3	3.9	3.6	2.7	3.3	
Schools of Art, Music, & Design										
UNC School of the Arts	1,938	15,201.0	6.4	1.5	7.9	7.4	7.4	7.4	8.1	
Subtotal	1,938	15,201.0	6.4	1.5	7.9	7.4	7.4	7.4	8.1	
Grand Total	38,973	449,799.5	10.3	1.3	11.5	11.1	11.3	11.2	11.1	

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

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

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

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

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

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

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

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

Institution	Classrooms					Laboratories				
	2019	2018	2017	2016	2015	2019	2018	2017	2016	2015
Research Universities I										
NC State	64.7	64.7	63.3	62.7	63.8	78.2	75.5	73.8	71.6	75.9
UNC-Chapel Hill	68.6	66.9	65.5	64.6	66.7	49.5	50.1	51.2	49.6	52.5
Subtotal	66.5	65.8	64.4	63.6	65.1	69.8	67.9	67.5	65.4	68.8
Doctoral Universities I & II										
East Carolina	69.8	70.7	72.6	72.3	70.0	62.3	62.0	59.5	62.7	62.1
N.C. A&T	54.2	54.7	55.3	54.2	56.9	76.7	73.6	71.6	70.6	73.8
UNC Charlotte	66.0	67.1	66.5	65.1	67.8	63.6	65.2	60.9	62.4	64.6
UNC Greensboro	57.9	62.0	61.6	63.3	64.4	57.5	54.2	61.5	52.7	58.2
UNC Wilmington	67.0	63.1	65.4	63.7	64.4	68.5	70.4	75.7	72.1	70.7
Subtotal	63.6	64.6	65.3	64.8	65.7	64.4	63.8	64.1	62.9	64.9
Master's (Comprehensive) Universities & Colleges I										
Appalachian	68.3	67.6	69.3	67.6	68.4	80.0	78.2	77.4	76.8	77.0
Fayetteville	57.0	54.9	52.5	57.5	57.2	62.0	63.6	61.2	65.6	65.3
NCCU	52.2	49.4	51.1	51.4	53.7	77.4	82.9	82.8	83.9	80.5
UNC Pembroke	58.1	61.4	59.5	59.7	62.3	67.6	72.8	66.9	74.7	68.0
Western Carolina	69.7	67.0	66.8	67.1	67.6	63.6	63.0	63.7	65.4	62.7
Winston-Salem	57.5	58.5	57.9	57.3	50.1	65.0	61.6	57.7	58.7	46.5
Subtotal	63.0	61.9	62.1	62.1	62.2	71.2	71.1	70.0	71.8	68.6
Baccalaureate Colleges: Arts & Sciences Focus										
UNC Asheville	62.8	63.3	60.4	57.5	60.3	73.7	66.5	66.0	60.0	59.3
Subtotal	62.8	63.3	60.4	57.5	60.3	73.7	66.5	66.0	60.0	59.3
Baccalaureate Colleges: Diverse Fields										
Elizabeth City	44.1	41.2	35.3	38.3	40.6	47.5	40.9	38.4	43.2	52.2
Subtotal	44.1	41.2	35.3	38.3	40.6	47.5	40.9	38.4	43.2	52.2
Schools of Art, Music, & Design										
UNC School of the Arts	49.5	50.5	50.7	53.2	56.3	49.8	49.6	48.0	48.1	61.6
Subtotal	49.5	50.5	50.7	53.2	56.3	49.8	49.6	48.0	48.1	61.6
Grand Total	64.0	63.9	63.8	63.3	64.3	66.4	65.6	65.1	64.8	66.4

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.

Table 8. Student Clock Hours of Instruction

Institution	2019			2018		
	Classroom	Laboratory	Other	Classroom	Laboratory	Other
Research Universities I						
NC State	304,855.5	74,105.5	30,105.5	298,774.0	68,833.0	24,844.0
UNC-Chapel Hill	278,423.0	19,407.0	10,721.0	272,809.5	19,262.5	9,342.0
Subtotal	583,278.5	93,512.5	40,826.5	571,583.5	88,095.5	34,186.0
Doctoral Universities I & II						
East Carolina	196,439.5	51,854.0	21,258.5	209,314.0	52,921.0	16,752.5
N.C. A&T	113,801.5	27,853.5	18,044.0	108,162.5	26,379.0	19,441.0
UNC Charlotte	286,693.0	53,460.5	5,012.5	294,111.0	48,360.0	7,458.5
UNC Greensboro	150,149.5	34,293.5	12,317.5	160,779.0	32,092.5	14,199.0
UNC Wilmington	136,075.5	34,220.0	6,925.0	132,221.0	30,029.0	9,219.5
Subtotal	883,159.0	201,681.5	63,557.5	904,587.5	189,781.5	67,070.5
Master's (Comprehensive) Universities & Colleges I						
Appalachian	181,661.5	53,750.5	35,670.0	183,397.5	55,138.0	31,280.0
Fayetteville	34,896.0	9,447.5	3,242.0	37,070.5	10,843.5	3,302.0
NCCU	58,582.0	10,010.5	12,926.0	61,556.5	11,688.0	14,278.0
UNC Pembroke	52,556.5	10,150.5	2,196.5	53,218.0	9,853.0	2,573.5
Western Carolina	105,192.0	32,018.5	12,663.5	101,800.5	31,066.0	11,381.0
Winston-Salem	41,261.5	10,149.0	6,475.0	45,185.5	10,168.0	8,238.0
Subtotal	474,149.5	125,526.5	73,173.0	482,228.5	128,756.5	71,052.5
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	34,992.5	7,854.5	7,452.0	36,343.5	7,416.5	8,649.0
Subtotal	34,992.5	7,854.5	7,452.0	36,343.5	7,416.5	8,649.0
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	15,444.5	6,023.5	282.5	15,405.0	5,523.5	472.5
Subtotal	15,444.5	6,023.5	282.5	15,405.0	5,523.5	472.5
Schools of Art, Music, & Design						
UNC School of the Arts	7,327.0	15,201.0	11,183.5	6,782.0	14,278.5	10,810.0
Subtotal	7,327.0	15,201.0	11,183.5	6,782.0	14,278.5	10,810.0
Grand Total	1,998,351.0	449,799.5	196,475.0	2,016,930.0	433,852.0	192,240.5

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

Institution	2017		
	Classroom	Laboratory	Other
Research Universities I			
NC State	286,311.5	72,083.5	17,520.0
UNC-Chapel Hill	270,605.5	19,444.5	9,715.5
Subtotal	556,917.0	91,528.0	27,235.5
Doctoral Universities I & II			
East Carolina	225,004.0	50,544.0	15,153.5
N.C. A&T	102,405.5	25,991.0	21,959.0
UNC Charlotte	296,532.0	52,646.5	4,985.5
UNC Greensboro	162,234.5	31,783.0	11,197.0
UNC Wilmington	140,676.0	34,574.0	5,756.5
Subtotal	926,852.0	195,538.5	59,051.5
Master's (Comprehensive) Universities & Colleges I			
Appalachian	183,664.0	52,735.0	28,074.5
Fayetteville	36,716.0	12,093.0	3,285.5
NCCU	65,240.5	12,101.5	13,184.5
UNC Pembroke	50,482.5	7,984.0	2,352.0
Western Carolina	96,702.0	29,618.0	13,325.5
Winston-Salem	43,457.0	8,488.0	9,624.0
Subtotal	476,262.0	123,019.5	69,846.0
Baccalaureate Colleges: Arts & Sciences Focus			
UNC Asheville	37,479.0	6,626.0	9,107.0
Subtotal	37,479.0	6,626.0	9,107.0
Baccalaureate Colleges: Diverse Fields			
Elizabeth City	12,819.0	5,272.5	553.5
Subtotal	12,819.0	5,272.5	553.5
Schools of Art, Music, & Design			
UNC School of the Arts	7,069.5	14,178.5	10,468.5
Subtotal	7,069.5	14,178.5	10,468.5
Grand Total	2,017,398.5	436,163.0	176,262.0

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Table 9: Space Factors

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

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

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

An alternative formula is:

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

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

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

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

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

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

$$\text{Classroom Space Factor} = \frac{19}{26.6 \times .64} = 1.12$$

Class Laboratories

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

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

Teaching Areas

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

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

Table 9. Space Factors

Institution	Classrooms					Laboratories				
	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				
	2019	2018	2017	2016	2015
Research Universities I					
NC State	1.30	1.40	1.45	1.46	1.44
UNC-Chapel Hill	1.19	1.21	1.22	1.21	1.20
Subtotal	1.25	1.32	1.34	1.35	1.33
Doctoral Universities I & II					
East Carolina	1.32	1.27	1.21	1.23	1.36
N.C. A&T	1.64	1.73	1.80	1.84	1.83
UNC Charlotte	1.19	1.07	1.10	1.14	1.07
UNC Greensboro	1.52	1.47	1.37	1.41	1.46
UNC Wilmington	1.26	1.27	1.26	1.69	1.42
Subtotal	1.34	1.30	1.28	1.37	1.35
Master's (Comprehensive) Universities & Colleges I					
Appalachian	1.35	1.38	1.27	1.27	1.28
Fayetteville	1.94	1.82	2.17	2.04	2.03
NCCU	2.61	2.44	2.32	2.27	2.33
UNC Pembroke	1.93	1.80	1.94	1.83	1.81
Western Carolina	1.37	1.42	1.49	1.48	1.57
Winston-Salem	2.10	1.97	2.10	2.10	2.18
Subtotal	1.67	1.65	1.66	1.64	1.67
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	1.90	1.86	1.85	1.71	1.59
Subtotal	1.90	1.86	1.85	1.71	1.59
Baccalaureate Colleges: Diverse Fields					
Elizabeth City	5.29	5.42	6.38	7.70	6.83
Subtotal	5.29	5.42	6.38	7.70	6.83
Schools of Art, Music, & Design					
UNC School of the Arts	5.10	5.46	5.28	5.22	5.22
Subtotal	5.10	5.46	5.28	5.22	5.22
Grand Total	1.48	1.57	1.57	1.61	1.58

**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	31.8	29.6	27.3	68.6	66.7	64.7	0.9	0.9	0.8
Doctoral Universities I & II	32.2	29.6	27.1	69.8	63.0	54.2	1.2	1.0	0.8
Master's (Comprehensive) Universities I	33.2	23.9	14.8	69.7	60.4	52.2	2.0	1.4	0.9
Baccalaureate Colleges	27.4	18.5	9.6	62.8	53.4	44.1	4.2	2.7	1.2
Schools of Art, Music, & Design*	11.4	11.4	11.4	49.5	49.5	49.5	4.1	4.1	4.1
Grand Total									
State Range	33.2	24.9	9.6	69.7	60.4	44.1	4.2	1.5	0.8
Typical Standard	-	35.0	-	-	65.0	-	-	0.8	-
Class Laboratories									
Research Universities I	15.4	12.2	8.9	78.2	63.8	49.5	5.0	4.2	3.3
Doctoral Universities I & II	19.5	16.8	13.3	76.7	65.7	57.5	4.0	3.2	2.4
Master's (Comprehensive) Universities I	20.1	14.0	7.4	80.0	69.3	62.0	6.0	3.9	2.6
Baccalaureate Colleges	12.8	9.4	5.9	73.7	60.6	47.5	8.2	6.5	4.9
Schools of Art, Music, & Design*	13.2	13.2	13.2	49.8	49.8	49.8	5.6	5.6	5.6
Grand Total									
State Range	20.2	14.0	5.9	80.0	65.2	47.5	8.2	4.1	2.4
Typical Standard	-	20.0	-	-	75.0	-	-	7.2	-

*Only one institution in this category

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Table 11: Space Standards

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

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

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

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

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

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

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

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

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

CLASS (TEACHING) LABORATORY (210) STANDARDS

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

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

RESEARCH/NONCLASS LABORATORY (250/255) STANDARDS

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

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

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

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

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

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

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

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Table 12: Enrollments

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

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

FTE Enrollment

FTE enrollment, as used in this study, is based on 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.

Public Institutions	2019	2018	2017	2016	2015
Research Universities I	55,225	59,872	58,776	57,752	57,171
Doctoral Universities I and II	95,614	82,637	82,278	80,655	78,384
Master's (Comprehensive) Universities & Colleges I	54,176	68,341	66,317	65,162	63,515
Baccalaureate Colleges: Arts & Sciences Focus	3,295	3,489	3,553	3,517	3,585
Baccalaureate Colleges: Diverse Fields	1,663	1,554	1,298	1,292	1,506
Schools of Art, Music, & Design	1,075	1,040	998	1,026	960
Grand Total	211,048	216,933	213,220	209,404	205,121

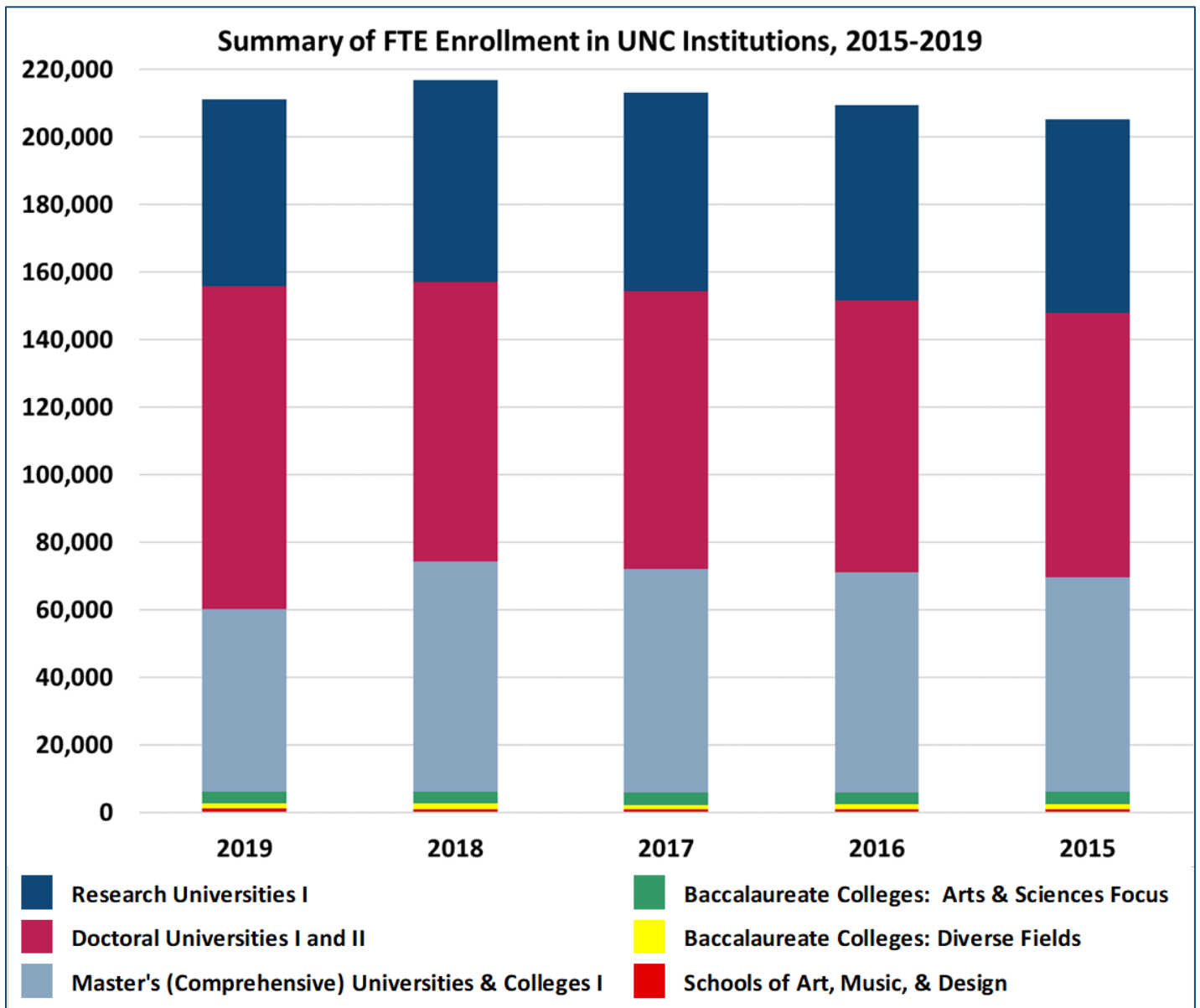


Table 12a. FTE Enrollments by Institution

Institution	2019		2018	2017	2016	2015
	On-Campus	Total	On-Campus	On-Campus	On-Campus	On-Campus
Research Universities I						
NC State	32,121	-	31,513	30,552	29,838	29,897
NC State Veterinary Med	398	-	400	402	393	396
UNC-Chapel Hill	23,104	-	23,326	23,207	22,971	22,273
UNC-Chapel Hill Hlth Aff.	4,752	-	4,633	4,615	4,550	4,605
Subtotal	60,375	-	59,872	58,776	57,752	57,171
Doctoral Universities I & II						
East Carolina	22,701	-	22,958	23,483	23,364	22,737
East Carolina Hlth Aff.	2,744	-	2,754	2,747	2,674	2,561
N.C. A&T	11,765	-	11,346	11,112	10,457	10,148
UNC Charlotte	27,167	-	27,340	26,783	26,275	25,573
UNC Greensboro	18,184	-	18,239	18,153	17,885	17,365
UNC Wilmington	15,797	-	15,157	15,065	14,463	13,780
Subtotal	98,358	-	97,794	97,343	95,118	92,164
Master's (Comprehensive) Universities & Colleges I						
Appalachian	18,572	-	18,394	18,099	17,571	17,269
Fayetteville	5,567	-	5,431	5,345	5,431	5,298
NCCU	7,291	-	7,502	7,471	7,492	7,403
UNC Pembroke	6,856	-	6,354	5,555	5,584	5,711
Western Carolina	11,103	-	10,660	10,031	9,815	9,315
Winston-Salem	4,787	-	4,843	4,751	4,806	4,739
Subtotal	54,176	-	53,184	51,252	50,699	49,735
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	3,295	-	3,489	3,553	3,517	3,585
Subtotal	3,295	-	3,489	3,553	3,517	3,585
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	1,663	-	1,554	1,298	1,292	1,506
Subtotal	1,663	-	1,554	1,298	1,292	1,506
Schools of Art, Music, & Design						
UNC School of the Arts	1,075	(252)	1,040	998	1,026	960
Subtotal	1,075	(252)	1,040	998	1,026	960
Grand Total	218,942	(252)	216,933	213,220	209,404	205,121

2019 UNCSA FTE enrollment including high school students is 1,327.

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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

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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
UNC Wilmington	308,801 GSF
N. C. State University	2,404,410 GSF
N.C. State Veterinary Medicine	186,098 GSF
UNC-Chapel Hill - Health Affairs	1,707,986 GSF
UNC-Chapel Hill - Academic Affairs	1,245,597 GSF
UNC Charlotte	2,704,732 GSF
UNC Greensboro	875,642 GSF
UNC Asheville	136,854 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	61.4%
UNC Wilmington	68.5%
N.C. State University	65.1%
N.C. State Veterinary Medicine	64.3 %
UNC-Chapel Hill Health Affairs	50.3%
UNC-Chapel Hill - Academic Affairs	60.6%
UNC Charlotte	56.5%
UNC Greensboro	58.6%
UNC Asheville	62.8%

Table 13 Net-to-Gross Ratio

Institution	Gross Sq. Ft.	Assignable Sq. Ft.	Net-to-Gross %				
			2019	2018	2017	2016	2015
Research Universities I							
NC State	16,476,420	9,166,469	55.6	55.4	55.5	55.5	55.6
NC State Veterinary Med	907,537	464,066	51.1	50.5	50.3	49.7	49.6
UNC-Chapel Hill	13,341,200	7,329,279	54.9	55.1	55.2	54.9	55.0
UNC-Chapel Hill Hlth Aff.	7,008,411	2,665,140	38.0	38.1	38.3	40.1	40.3
Subtotal	37,733,568	19,624,954	52.0	52.0	52.1	52.4	52.5
Doctoral Universities I & II							
East Carolina	5,848,094	3,478,085	59.5	64.5	65.2	66.3	65.5
East Carolina Hlth Aff.	1,915,626	1,086,016	56.7	61.4	61.3	58.1	52.8
N.C. A&T	3,404,024	2,359,182	69.3	69.2	69.8	69.7	69.3
UNC Charlotte	9,736,474	3,970,294	40.8	41.7	42.0	40.5	41.8
UNC Greensboro	6,643,801	3,379,163	50.9	50.7	50.7	49.4	49.1
UNC Wilmington	4,009,511	2,533,267	63.2	63.4	62.5	58.5	59.5
Subtotal	31,557,530	16,806,007	53.3	54.7	54.6	53.5	53.4
Master's (Comprehensive) Universities & Colleges I							
Appalachian	4,964,520	2,812,406	56.7	56.4	56.5	56.6	57.3
Fayetteville	1,472,197	919,639	62.5	62.5	61.1	61.1	61.2
NCCU	2,194,489	1,404,771	64.0	64.7	64.8	64.8	64.8
UNC Pembroke	1,805,585	1,209,182	67.0	65.9	65.9	66.0	65.9
Western Carolina	3,489,788	2,204,250	63.2	63.4	63.8	64.1	63.9
Winston-Salem	1,963,665	1,273,375	64.8	64.6	64.7	64.7	64.7
Subtotal	15,890,244	9,823,623	61.8	61.7	61.7	61.9	62.0
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	1,691,062	975,657	57.7	57.7	57.4	57.7	57.7
Subtotal	1,691,062	975,657	57.7	57.7	57.4	57.7	57.7
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	1,301,088	864,764	66.5	66.5	66.5	67.2	67.2
Subtotal	1,301,088	864,764	66.5	66.5	66.5	67.2	67.2
Schools of Art, Music, & Design							
UNC School of the Arts	1,212,554	820,449	67.7	67.7	67.4	68.7	68.9
Subtotal	1,212,554	820,449	67.7	67.7	67.4	68.7	68.9
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	91,885,295	50,273,757	54.7	55.1	62.0	55.0	57.1

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.

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	9,166,469	19.0	27.7	4.9	6.7
NC State Veterinary Med	464,066	21.0	34.4	28.5	7.0
UNC-Chapel Hill	7,329,279	22.2	7.6	0.6	11.1
UNC-Chapel Hill Hlth Aff.	2,665,140	22.8	49.2	10.1	8.1
Subtotal	19,624,954	20.8	23.3	4.5	8.5
Doctoral Universities I & II					
East Carolina	3,478,085	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	3,970,294	22.2	7.8	1.5	10.4
UNC Greensboro	3,379,163	20.6	5.4	0.2	9.0
UNC Wilmington	2,533,267	19.2	4.9	0.8	8.5
Subtotal	16,806,007	24.0	6.5	3.8	9.2
Master's (Comprehensive) Universities & Colleges I					
Appalachian	2,812,406	31.2	0.6	2.7	5.5
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	1,209,182	24.0	0.2	0.1	8.4
Western Carolina	2,204,250	21.7	1.3	0.2	9.3
Winston-Salem	1,273,375	20.1	2.7	0.3	7.5
Subtotal	9,823,623	27.4	1.3	1.0	7.8
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	975,657	22.2	1.4	1.1	9.2
Subtotal	975,657	22.2	1.4	1.1	9.2
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	820,449	39.6	0.0	3.1	8.6
Subtotal	820,449	39.6	0.0	3.1	8.6
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	50,273,757	23.1	11.6	5.6	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	31.8	5.4	1.5	1.5	1.5
NC State Veterinary Med	1.5	1.5	4.4	0.7	1.1
UNC-Chapel Hill	46.5	6.1	2.9	0.8	2.1
UNC-Chapel Hill Hlth Aff.	0.3	2.8	0.2	1.9	4.5
Subtotal	32.3	5.2	1.9	1.3	2.1
Doctoral Universities I & II					
East Carolina	46.0	7.2	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	49.9	4.7	1.5	0.0	2.2
UNC Greensboro	53.5	7.5	2.2	1.5	0.2
UNC Wilmington	54.1	5.3	0.8	2.1	4.3
Subtotal	44.9	6.6	1.8	1.1	2.1
Master's (Comprehensive) Universities & Colleges I					
Appalachian	50.7	4.9	1.6	0.3	2.5
Fayetteville	41.1	4.6	1.4	1.3	11.9
NCCU	37.5	6.3	0.6	1.3	5.7
UNC Pembroke	55.6	7.7	1.6	0.0	2.3
Western Carolina	55.0	6.5	2.7	1.4	1.8
Winston-Salem	54.9	9.1	1.7	0.7	2.9
Subtotal	50.0	6.3	1.7	0.8	3.7
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	52.5	4.7	4.3	1.4	3.2
Subtotal	52.5	4.7	4.3	1.4	3.2
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	29.9	10.9	2.7	0.3	5.0
Subtotal	29.9	10.9	2.7	0.3	5.0
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	39.7	6.1	1.9	1.1	2.7

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

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

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

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

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

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

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

Institution	General Academic Instruction 11	Vocational Technical Instruction 12	Preparatory Remedial Instruction 13	General Studies 14	Occupational Related Instruction 15	Social Roles Instruction 16	Home & Family Life 17
Research Universities I							
NC State	18.8	0.0	0.0	0.2	0.0	0.0	0.0
NC State Veterinary Med	21.0	0.0	0.0	0.0	0.0	0.0	0.0
UNC-Chapel Hill	21.5	0.0	0.0	0.5	0.3	0.0	0.0
UNC-Chapel Hill Hlth Aff.	22.6	0.0	0.0	0.1	0.1	0.0	0.0
Subtotal	20.4	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	21.9	0.0	0.0	0.2	0.0	0.0	0.0
UNC Greensboro	20.6	0.0	0.0	0.0	0.0	0.0	0.0
UNC Wilmington	19.2	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	23.9	0.0	0.0	0.1	0.0	0.0	0.0
Master's (Comprehensive) Universities & Colleges I							
Appalachian	31.2	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	23.2	0.0	0.5	0.3	0.1	0.0	0.0
Western Carolina	21.5	0.0	0.0	0.1	0.0	0.0	0.0
Winston-Salem	19.9	0.0	0.2	0.0	0.0	0.0	0.0
Subtotal	27.2	0.0	0.1	0.1	0.0	0.0	0.0
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	21.8	0.0	0.0	0.2	0.0	0.0	0.0
Subtotal	21.8	0.0	0.0	0.2	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	39.6	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	39.6	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	22.9	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	6.9	20.9	0.0	0.0	2.1	2.8	0.0
NC State Veterinary Med	0.0	0.0	34.4	16.8	11.7	0.0	0.1	0.0
UNC-Chapel Hill	0.0	0.6	7.0	0.0	0.1	0.4	0.0	0.1
UNC-Chapel Hill Hlth Aff.	0.0	1.5	47.7	4.5	5.2	0.4	0.0	0.0
Subtotal	0.0	3.6	19.7	1.0	1.0	1.2	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	2.7	5.0	0.0	0.0	1.5	0.0	0.0
UNC Greensboro	0.0	0.0	5.4	0.1	0.0	0.1	0.0	0.0
UNC Wilmington	0.0	4.5	0.4	0.0	0.1	0.6	0.0	0.0
Subtotal	0.0	1.9	4.6	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	2.3	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	0.2	0.0	0.0	0.1	0.0	0.0
Western Carolina	0.1	0.7	0.6	0.0	0.0	0.2	0.0	0.0
Winston-Salem	0.0	1.2	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	0.4	1.0	0.0	0.0	1.1	0.0	0.0
Subtotal	0.1	0.4	1.0	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	3.1	0.0	0.0
Subtotal	0.0	0.0	0.0	0.0	0.0	3.1	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	2.2	9.4	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	3.6	0.2	0.4	0.6	0.0	1.8	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	8.5	0.5	0.1	0.4	0.1	1.4	0.0	0.2
UNC-Chapel Hill Hlth Aff.	2.1	0.0	0.0	0.1	1.6	4.3	0.0	0.0
Subtotal	5.2	0.3	0.2	0.5	0.3	2.0	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	5.2	0.2	0.2	0.5	0.0	4.3	0.0	0.0
UNC Greensboro	3.6	0.8	0.4	0.2	0.4	3.5	0.0	0.0
UNC Wilmington	4.6	0.2	0.1	0.4	0.0	3.1	0.0	0.1
Subtotal	4.8	0.4	0.2	0.3	0.7	2.9	0.0	0.0
Master's (Comprehensive) Universities & Colleges I								
Appalachian	3.7	0.0	0.0	0.4	0.1	1.2	0.1	0.0
Fayetteville	7.2	0.0	0.5	0.7	0.7	1.4	0.0	0.0
NCCU	4.5	0.3	0.1	0.4	0.6	1.9	0.0	0.2
UNC Pembroke	2.9	0.6	0.1	0.3	0.1	4.4	0.0	0.0
Western Carolina	5.4	0.8	0.1	0.1	0.6	2.2	0.0	0.1
Winston-Salem	3.4	1.0	0.2	0.4	0.1	2.5	0.0	0.0
Subtotal	4.4	0.4	0.1	0.3	0.3	2.1	0.0	0.1
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	6.5	0.3	0.5	1.0	0.5	0.3	0.0	0.1
Subtotal	6.5	0.3	0.5	1.0	0.5	0.3	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	6.7	0.2	0.0	0.0	0.1	1.5	0.0	0.0
Subtotal	6.7	0.2	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	4.8	0.3	0.2	0.4	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	2.0	0.3	0.1	23.2	5.4
NC State Veterinary Med	0.0	0.0	0.0	0.0	1.5	0.0
UNC-Chapel Hill	0.6	3.0	0.3	0.1	31.9	10.1
UNC-Chapel Hill Hlth Aff.	0.1	0.0	0.0	0.0	0.2	0.0
Subtotal	0.4	2.1	0.3	0.1	22.8	6.3
Doctoral Universities I & II						
East Carolina	1.6	8.1	0.1	0.1	30.3	5.3
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	0.8	5.1	0.3	0.1	39.3	3.6
UNC Greensboro	0.1	5.2	0.3	0.0	44.4	2.8
UNC Wilmington	0.7	7.7	0.2	0.0	40.4	4.6
Subtotal	0.7	5.7	0.2	0.1	34.0	3.7
Master's (Comprehensive) Universities & Colleges I						
Appalachian	0.1	11.0	0.3	0.3	33.5	5.0
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	0.3	4.8	0.2	0.3	47.8	1.8
Western Carolina	0.3	9.3	0.6	0.1	41.5	3.0
Winston-Salem	1.4	8.3	0.3	0.1	41.2	3.2
Subtotal	0.5	8.0	0.5	0.2	37.0	3.4
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.1	8.3	0.3	0.2	36.1	6.8
Subtotal	0.1	8.3	0.3	0.2	36.1	6.8
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	0.1	7.9	0.2	0.3	21.0	0.0
Subtotal	0.1	7.9	0.2	0.3	21.0	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	4.7	0.3	0.1	29.2	4.5

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	0.6	0.3	1.0	0.1	0.0	0.0
UNC Greensboro	0.7	0.1	0.8	0.0	0.7	0.5
UNC Wilmington	0.5	0.4	0.2	0.1	0.2	0.0
Subtotal	0.6	0.3	0.8	0.1	0.3	0.2
Master's (Comprehensive) Universities & Colleges I						
Appalachian	0.5	0.5	0.9	0.0	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	0.9	0.5	0.1	0.1	0.1
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.6	0.0	2.0	0.2	2.0	0.0
Subtotal	0.6	0.0	2.0	0.2	2.0	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	1.2	0.2	0.0	0.7
Subtotal	0.5	0.5	1.2	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	0.5	0.3	0.6	0.1	0.4	0.3

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

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

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

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

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

Institution	Institutional Administration							
	Exec. Mgmt 61	Fin. Mgmt 62	Gen Ad Log Svc 63	Admin Comp 64	Fac/Stf Aux. Svcs 65	P.R. Devel. 66	Stud't Admiss 67	Stud't Records 68
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	0.5	0.0	0.0	0.0
UNC-Chapel Hill	0.4	0.7	2.3	1.4	0.3	0.9	0.2	0.0
UNC-Chapel Hill Hlth Aff.	0.1	0.8	1.6	0.1	0.1	0.0	0.0	0.0
Subtotal	0.3	0.5	2.1	1.0	0.5	0.7	0.1	0.0
Doctoral Universities I & II								
East Carolina	1.5	2.3	1.8	0.8	0.3	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	0.4	1.6	0.6	0.2	0.9	0.3	0.1
UNC Greensboro	0.4	0.2	3.9	1.0	0.8	0.7	0.2	0.1
UNC Wilmington	0.6	0.4	2.5	0.7	0.1	0.4	0.3	0.3
Subtotal	0.7	0.9	3.1	0.8	0.3	0.5	0.2	0.1
Master's (Comprehensive) Universities & Colleges I								
Appalachian	0.3	0.4	2.1	0.4	0.5	0.7	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	1.3	0.5	4.0	0.1	1.0	0.5	0.2	0.2
Western Carolina	0.5	0.4	0.7	0.6	2.9	0.8	0.3	0.3
Winston-Salem	0.7	1.0	4.4	0.5	1.7	0.5	0.2	0.1
Subtotal	0.6	0.5	2.4	0.4	1.3	0.6	0.2	0.2
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	1.2	0.5	0.7	0.0	0.9	0.7	0.5	0.1
Subtotal	1.2	0.5	0.7	0.0	0.9	0.7	0.5	0.1
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	0.4	0.2	6.4	0.4	1.8	1.2	0.3	0.3
Subtotal	0.4	0.2	6.4	0.4	1.8	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	2.6	0.8	0.6	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	0.4	1.1
NC State Veterinary Med	0.0	0.7	1.1	0.0
UNC-Chapel Hill	0.3	0.5	1.5	0.6
UNC-Chapel Hill Hlth Aff.	1.0	1.0	2.1	2.4
Subtotal	0.3	1.0	1.0	1.1
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	1.6
UNC Greensboro	0.0	1.5	0.0	0.1
UNC Wilmington	0.5	1.6	0.0	4.3
Subtotal	0.1	0.9	0.2	2.0
Master's (Comprehensive) Universities & Colleges I				
Appalachian	0.1	0.2	0.0	2.5
Fayetteville	0.3	1.0	4.6	7.3
NCCU	0.1	1.2	1.1	4.6
UNC Pembroke	0.0	0.0	2.3	0.0
Western Carolina	0.4	1.0	0.1	1.7
Winston-Salem	0.5	0.2	0.9	2.1
Subtotal	0.2	0.6	1.0	2.7
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0.0	1.4	0.0	3.2
Subtotal	0.0	1.4	0.0	3.2
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	2.6	2.4
Subtotal	0.3	0.0	2.6	2.4
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	0.9	1.8

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Table 15: Assignable Area by Room Code

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

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

The 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 Norm (%)	All UNC Institutions 2019 (%)
Classroom (Series 100)	8.0	4.6
Laboratory (Series 200)	14.5	12.7
Office (Series 300)	13.0	22.2
Study (Series 400)	6.8	5.2
Special Use (Series 500)	8.9	10.9
General Use (Series 600)	12.0	10.4
Support (Series 700)	6.5	4.6
Health Care (Series 800)	1.4	2.7
Residential (Series 900)	26.7	24.2
Unclassified (Series 000)	2.2	2.4

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	9,166,469	260,934	2.8	1,604,477	17.5	1,957,869	21.4	366,952	4.0
NC State Veterinary Med	464,066	7,757	1.7	99,938	21.5	97,779	21.1	10,739	2.3
UNC-Chapel Hill	7,329,279	271,777	3.7	607,911	8.3	1,674,362	22.8	636,792	8.7
UNC-Chapel Hill Hlth Aff.	2,665,140	81,598	3.1	825,669	31.0	1,099,539	41.3	68,326	2.6
Subtotal	19,624,954	622,066	3.2	3,137,995	16.0	4,829,549	24.6	1,082,809	5.5
Doctoral Universities I & II									
East Carolina	3,478,085	172,343	5.0	376,863	10.8	806,199	23.2	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	3,970,294	248,996	6.3	544,510	13.7	948,619	23.9	230,353	5.8
UNC Greensboro	3,379,163	151,112	4.5	362,645	10.7	621,486	18.4	135,710	4.0
UNC Wilmington	2,533,267	136,783	5.4	238,861	9.4	452,854	17.9	125,918	5.0
Subtotal	16,806,007	895,622	5.3	2,037,336	12.1	3,719,169	22.1	897,694	5.3
Master's (Comprehensive) Universities & Colleges I									
Appalachian	2,812,406	186,777	6.6	281,715	10.0	575,877	20.5	99,445	3.5
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	1,209,182	89,083	7.4	64,890	5.4	201,547	16.7	34,409	2.8
Western Carolina	2,204,250	97,476	4.4	192,502	8.7	330,730	15.0	135,067	6.1
Winston-Salem	1,273,375	67,253	5.3	82,341	6.5	223,904	17.6	57,226	4.5
Subtotal	9,823,623	621,113	6.3	827,666	8.4	1,844,075	18.8	498,309	5.1
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	975,657	44,694	4.6	108,876	11.2	158,835	16.3	67,123	6.9
Subtotal	975,657	44,694	4.6	108,876	11.2	158,835	16.3	67,123	6.9
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	864,764	74,884	8.7	66,849	7.7	117,493	13.6	38,667	4.5
Subtotal	864,764	74,884	8.7	66,849	7.7	117,493	13.6	38,667	4.5
Schools of Art, Music, & Design									
UNC School of the Arts	820,449	30,266	3.7	202,581	24.7	103,917	12.7	46,744	5.7
Subtotal	820,449	30,266	3.7	202,581	24.7	103,917	12.7	46,744	5.7
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	50,273,757	2,298,571	4.6	6,392,132	12.7	11,144,859	22.2	2,634,590	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	1,731,810	18.9	777,819	8.5	432,332	4.7	28,864	0.3
NC State Veterinary Med	78,917	17.0	14,769	3.2	27,844	6.0	121,394	26.2
UNC-Chapel Hill	849,385	11.6	851,134	11.6	460,828	6.3	22,120	0.3
UNC-Chapel Hill Hlth Aff.	219,088	8.2	92,697	3.5	36,567	1.4	159,410	6.0
Subtotal	2,879,200	14.7	1,736,419	8.8	957,571	4.9	331,788	1.7
Doctoral Universities I & II								
East Carolina	366,752	10.5	395,327	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	224,907	5.7	365,950	9.2	63,425	1.6	7,806	0.2
UNC Greensboro	126,481	3.7	556,243	16.5	272,002	8.0	12,469	0.4
UNC Wilmington	242,235	9.6	235,898	9.3	80,180	3.2	7,876	0.3
Subtotal	1,363,560	8.1	1,879,446	11.2	830,300	4.9	277,390	1.7
Master's (Comprehensive) Universities & Colleges I								
Appalachian	396,816	14.1	362,752	12.9	84,067	3.0	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	90,680	7.5	124,270	10.3	52,996	4.4	2,408	0.2
Western Carolina	209,981	9.5	313,051	14.2	63,144	2.9	3,246	0.1
Winston-Salem	107,068	8.4	157,076	12.3	68,757	5.4	4,228	0.3
Subtotal	1,003,698	10.2	1,229,662	12.5	314,040	3.2	26,739	0.3
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	107,638	11.0	115,264	11.8	43,026	4.4	3,088	0.3
Subtotal	107,638	11.0	115,264	11.8	43,026	4.4	3,088	0.3
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	91,449	10.6	94,300	10.9	16,713	1.9	1,574	0.2
Subtotal	91,449	10.6	94,300	10.9	16,713	1.9	1,574	0.2
Schools of Art, Music, & Design								
UNC School of the Arts	23,826	2.9	127,227	15.5	82,832	10.1	3,073	0.4
Subtotal	23,826	2.9	127,227	15.5	82,832	10.1	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	5,501,864	10.9	5,244,612	10.4	2,329,975	4.6	1,380,177	2.7

Table 15. (Continued) Assignable Area by Room Codes

Institution	Residential Facilities 900		Unclassified Facilities 000	
	ASF	%	ASF	%
Research Universities I				
NC State	1,875,252	20.5	130,160	1.4
NC State Veterinary Med	0	0.0	4,929	1.1
UNC-Chapel Hill	1,854,597	25.3	100,373	1.4
UNC-Chapel Hill Hlth Aff.	431	0.0	81,815	3.1
Subtotal	3,730,280	19.0	317,277	1.6
Doctoral Universities I & II				
East Carolina	836,522	24.1	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	1,258,768	31.7	76,960	1.9
UNC Greensboro	1,136,910	33.6	4,105	0.1
UNC Wilmington	903,020	35.6	109,642	4.3
Subtotal	4,560,559	27.1	344,931	2.1
Master's (Comprehensive) Universities & Colleges I				
Appalachian	742,414	26.4	70,810	2.5
Fayetteville	220,894	24.0	106,442	11.6
NCCU	324,984	23.1	79,303	5.6
UNC Pembroke	521,945	43.2	26,954	2.2
Western Carolina	818,267	37.1	40,786	1.9
Winston-Salem	468,920	36.8	36,602	2.9
Subtotal	3,097,424	31.5	360,897	3.7
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	296,237	30.4	30,876	3.2
Subtotal	296,237	30.4	30,876	3.2
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	19.4	40,682	5.0
Subtotal	159,301	19.4	40,682	5.0
Teaching Hospitals				
UNC Hospitals	3,785	0.3	41,893	3.1
Subtotal	3,785	0.3	41,893	3.1
Grand Total	12,150,943	24.2	1,196,034	2.4

Room Use Codes

100 Classroom Facilities

110 Classroom
115 Classroom Service

200 Laboratory Facilities

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

300 Office Facilities

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

400 Study Facilities

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

500 Special Use Facilities

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

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

600 General Use Facilities

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

700 Support Facilities

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

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

800 Health Care Facilities

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

900 Residential Facilities

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

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

935 Sleep/Study Service

950 Apartment

950X Apartment Equipped for Mobility
Impaired

955 Apartment Service

970 House

000 Unclassified Facilities

010 Elevator

011 Men's Toilet Equipped for
Mobility Impaired

012 Women's Toilet Equipped for
Mobility Impaired

013 Unisex Toilet Equipped for
Mobility Impaired

050 Inactive Area

060 Alteration or Conversion Area

070 Unfinished Area

Table 16: Assignable Square Feet Per Student Station for Classrooms

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

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

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

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

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

Table 16. Assignable Area Per Student Station for Classrooms

Institution	Number of Rooms	No. of Student Stations	Avg. Stu Sta Per Room	Total Assignable Sq. Ft.	Sq. Ft. Per Student Station				
					2019	2018	2017	2016	2015
Research Universities I									
NC State	231	14,369	62	249,126	17	17	17	17	17
NC State Veterinary Med	5	401	80	7,343	18	18	18	18	18
UNC-Chapel Hill	280	14,491	52	257,811	18	18	17	17	17
UNC-Chapel Hill Hlth Aff.	88	4,291	49	79,070	18	18	18	18	19
Subtotal	604	33,552	56	593,350	18	18	17	17	18
Doctoral Universities I & II									
East Carolina	181	9,436	52	165,118	17	18	18	17	17
East Carolina Hlth Aff.	41	2,138	52	41,543	19	19	19	20	22
N.C. A&T	152	6,997	46	137,354	20	20	20	20	20
UNC Charlotte	236	13,230	56	241,287	18	18	19	18	18
UNC Greensboro	144	8,569	60	144,652	17	17	17	17	17
UNC Wilmington	143	6,242	44	130,625	21	21	20	26	20
Subtotal	897	46,612	52	860,579	18	18	18	18	18
Master's (Comprehensive) Universities & Colleges I									
Appalachian	212	8,860	42	179,784	20	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	107	3,878	36	84,988	22	23	23	23	23
Western Carolina	106	4,446	42	90,847	20	20	20	21	21
Winston-Salem	78	3,245	42	64,623	20	20	20	20	20
Subtotal	718	29,342	41	590,101	20	20	20	21	20
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	58	1,995	34	43,329	22	22	21	21	22
Subtotal	58	1,995	34	43,329	22	22	21	21	22
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	48	1,147	24	30,062	26	26	26	26	24
Subtotal	48	1,147	24	30,062	26	26	26	26	24
Grand Total	2,406	115,646	48	2,181,642	19	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				
					2019	2018	2017	2016	2015
Research Universities I									
NC State	217	6,020	28	243,747	40	41	42	41	41
NC State Veterinary Med	8	236	30	11,184	47	48	48	48	51
UNC-Chapel Hill	113	2,873	25	97,852	34	34	33	33	33
UNC-Chapel Hill Hlth Aff.	101	1,419	14	58,500	41	41	40	40	40
Subtotal	439	10,548	24	411,283	39	39	39	39	39
Doctoral Universities I & II									
East Carolina	174	4,584	26	162,767	36	36	36	36	38
East Carolina Hlth Aff.	0	0	-	0	-	43	42	42	42
N.C. A&T	99	2,370	24	95,207	40	40	40	40	40
UNC Charlotte	139	4,004	29	162,468	41	38	41	40	39
UNC Greensboro	93	2,775	30	135,767	49	38	48	48	48
UNC Wilmington	90	2,268	25	83,772	37	39	40	38	38
Subtotal	595	16,001	27	639,981	40	38	41	40	41
Master's (Comprehensive) Universities & Colleges I									
Appalachian	138	3,074	22	137,126	45	44	44	44	44
Fayetteville	34	940	28	35,737	38	37	37	37	37
NCCU	65	1,387	21	59,580	43	43	43	43	43
UNC Pembroke	41	896	22	35,797	40	42	42	42	42
Western Carolina	87	2,309	27	96,806	42	43	44	44	44
Winston-Salem	52	1,179	23	43,496	37	36	36	36	36
Subtotal	417	9,785	23	408,542	42	41	41	41	41
Baccalaureate Colleges: Arts & Sciences Focus									
UNC Asheville	36	730	20	38,283	52	52	55	41	41
Subtotal	36	730	20	38,283	52	52	55	41	41
Baccalaureate Colleges: Diverse Fields									
Elizabeth City	64	1,416	22	49,386	35	35	35	34	34
Subtotal	64	1,416	22	49,386	35	35	35	34	34
Schools of Art, Music, & Design									
UNC School of the Arts	76	1,938	26	84,934	44	44	43	43	50
Subtotal	76	1,938	26	84,934	44	44	43	43	50
Grand Total	1,627	40,418	25	1,632,409	40	40	41	40	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

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Table 18: Ownership of Buildings

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

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

Ownership for institutions of the University of North Carolina System represents ownership by the State of North Carolina.

The sums of the percentages for each institution should in theory add to exactly 100.0, but in some cases they do not due to rounding.

Table 18. Ownership of Buildings

Institution	1 Owned		2 Institution Amortization		3 Holding Co. Amortization	
	GSF	%	GSF	%	GSF	%
Research Universities I						
NC State ***	12,785,333	77.6	3,012,870	18.3	-	-
NC State Veterinary Med	656,899	72.4	229,495	25.3	-	-
UNC-Chapel Hill ***	13,093,601	98.1	-	-	68,760	0.5
UNC-Chapel Hill Health Aff.**	6,072,413	86.6	537,875	7.7	128,275	1.8
Subtotal	32,608,246	86.4	3,780,240	10.0	197,035	0.5
Doctoral Universities I & II						
East Carolina	5,628,034	96.2	-	-	4,107	0.1
East Carolina Hlth Aff.	1,590,564	83.0	-	-	-	-
N.C. A&T	3,257,680	95.7	-	-	-	-
UNC Charlotte	4,880,326	50.1	4,718,149	48.5	137,999	1.4
UNC-Greensboro**	2,903,922	72.4	324,386	8.1	738,804	18.4
UNC Wilmington	3,995,089	60.1	2,512,536	37.8	33,312	0.5
Subtotal	22,255,615	70.5	7,555,071	23.9	914,222	2.9
Master's (Comprehensive) Universities & Colleges I						
Appalachian	3,446,139	69.4	1,511,371	30.4	-	-
Fayetteville	1,193,794	81.1	191,904	13.0	86,499	5.9
NCCU	2,060,197	93.9	134,292	6.1	-	-
UNC Pembroke	1,357,965	75.2	-	-	89,078	4.9
Western Carolina	2,190,930	62.8	839,064	24.0	431,581	12.4
Winston-Salem	1,290,782	65.7	156,808	8.0	441,407	22.5
Subtotal	11,539,807	72.6	2,833,439	17.8	1,048,565	6.6
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	1,256,934	74.3	407,238	24.1	-	-
Subtotal	1,256,934	74.3	407,238	24.1	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	-	-	-	-
Subtotal	2,434,713	97.4	0	0.0	0	0.0
Grand Total	72,224,450	78.6	14,719,714	16.0	2,385,940	2.6

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

Table 18. (Continued) Ownership of Buildings

Institution	4		5		Other		Total Gross Sq. Ft.
	Leased or Rented		Nominal Rate				
	GSF	%	GSF	%	GSF	%	
Research Universities I							
NC State ***	465,018	2.8	210,831	1.3	2,368	0.01	16,476,420
NC State Veterinary Med	21,143	2.3	-	-	-	-	907,537
UNC-Chapel Hill ***	156,003	1.2	12,549	0.1	10,287	0.1	13,341,200
UNC-Chapel Hill Health Aff.**	269,848	3.9	-	-	-	-	7,008,411
Subtotal	912,012	2.4	223,380	0.6	12,655	0.0	37,733,568
Doctoral Universities I & II							
East Carolina	82,001	1.4	38,492	0.7	95,460	1.6	5,848,094
East Carolina Hlth Aff.	280,113	14.6	3,593	0.2	41,356	2.2	1,915,626
N.C. A&T	54,007	1.6	-	-	92,337	2.7	3,404,024
UNC Charlotte	-	-	-	-	-	-	9,736,474
UNC-Greensboro**	42,399	1.1	-	-	-	-	4,009,511
UNC Wilmington	53,048	0.8	4,893	-	44,923	-	6,643,801
Subtotal	511,568	1.6	46,978	0.1	274,076	0.9	31,557,530
Master's (Comprehensive) Universities & Colleges I							
Appalachian	7,010	0.1	-	-	-	-	4,964,520
Fayetteville	-	-	-	-	-	-	1,472,197
NCCU	-	-	-	-	-	-	2,194,489
UNC Pembroke	358,542	19.9	-	-	-	-	1,805,585
Western Carolina	28,213	0.8	-	-	-	-	3,489,788
Winston-Salem	74,668	3.8	-	-	-	-	1,963,665
Subtotal	468,433	2.9	0	0.0	0	0.0	15,890,244
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	26,890	1.6	-	-	-	-	1,691,062
Subtotal	26,890	1.6	0	0.0	0	0.0	1,691,062
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	-	-	-	-	-	-	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	-	-	6,721	0.3	2,499,249
Subtotal	57,815	2.3	0	0.0	6,721	0.3	2,499,249
Grand Total	1,979,478	2.2	281,411	0.3	294,302	0.3	91,885,295

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

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Tables 19 & 20: Capital Investment in Buildings

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

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

From 1972-83, the replacement value factors were derived from building cost data reported for the Atlanta region in the Engineering News Record. From 1984-1987, the Dodge Building Cost Indexes for U. S. and Canadian Cities, published by McGraw-Hill Cost Information Systems, was used to determine the replacement value factors. Since 1987, due to a lapse in the publishing of the Dodge publication, the R. S. Means Construction Cost Indexes report, which follows a calculation methodology like the Dodge report, has been used to construct this index. Factors calculated from the Means publication are derived by computing an average of the construction cost increases for Asheville, Charlotte, Durham, Fayetteville, Greensboro, Raleigh, Wilmington, and Winston-Salem. The following are the factors that have been used to increase the estimated replacement values each year. The construction cost factor reported by R.S. Means reflected a negative multiplier for the 2009 building replacement costs. This decrease in building values reflected the devaluation of property both nationally and across North Carolina during the economic downturn. Property values have recovered, and this continued upward trend is reflected in the 2019 factor applied to the estimated replacement values for the current year.

Annual Year Increase	Annual Year Increase	Annual Year Increase
2002 2.00%	2008 7.60%	2014 3.90%
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%

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, 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	963	\$981,035,043	\$4,463,197,934	13,329,379
NC State Veterinary Med	48	108,029,370	369,887,801	907,537
UNC-Chapel Hill	290	1,446,052,769	3,632,348,575	9,884,313
UNC-Chapel Hill Hlth Aff.	104	853,531,302	2,197,793,405	7,007,169
Subtotal	1,405	\$3,388,648,484	\$10,663,227,715	31,128,398
Doctoral Universities I and II				
East Carolina	152	\$451,201,605	\$1,477,081,677	4,529,092
East Carolina Hlth Aff.	55	284,171,320	634,567,044	1,915,626
NC A&T	108	290,908,077	1,009,017,878	2,816,397
UNC Charlotte	84	796,444,682	1,682,166,877	7,517,770
UNC Greensboro	119	391,749,092	1,959,504,549	4,457,606
UNC Wilmington	123	380,403,181	746,207,288	2,821,224
Subtotal	641	\$2,594,877,957	\$7,508,545,313	24,057,715
Master's (Comprehensive) Universities & Colleges I				
Appalachian	70	\$464,926,708	\$1,088,344,606	3,632,234
Fayetteville	41	110,938,819	282,664,161	1,120,153
NC Central	46	173,952,332	651,781,971	1,544,077
UNC Pembroke	44	124,369,333	354,909,165	1,109,808
Western Carolina	70	176,398,764	516,073,597	2,117,061
Winston-Salem	36	108,806,279	301,373,507	1,193,223
Subtotal	307	\$1,159,392,235	\$3,195,147,007	10,716,556
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	31	\$136,269,920	\$398,371,902	1,160,584
Subtotal	31	\$136,269,920	\$398,371,902	1,160,584
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	38	\$86,457,915	\$272,068,737	853,073
Subtotal	38	\$86,457,915	\$272,068,737	853,073
Schools of Art, Music, & Design				
UNC School of the Arts	46	\$97,021,127	\$258,904,284	992,472
Subtotal	46	\$97,021,127	\$258,904,284	992,472
Teaching Hospitals				
UNC Hospitals	30	\$151,744,106	\$1,036,111,492	2,499,249
Subtotal	30	\$151,744,106	\$1,036,111,492	2,499,249
Grand Total	2,498	7,614,411,744	23,332,376,450	71,408,047

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	147	\$229,507,522	\$767,678,569	3,147,041
NC State Veterinary Med	0	0	0	0
UNC-Chapel Hill	80	222,609,671	691,139,872	3,456,887
UNC-Chapel Hill Hlth Aff.	1	31,500	194,142	1,242
Subtotal	228	\$452,148,693	\$1,459,012,583	6,605,170
Doctoral Universities I and II				
East Carolina	18	\$103,507,000	\$322,669,475	1,319,002
East Carolina Hlth Aff.	0	0	0	0
NC A&T	14	29,173,424	155,398,566	587,627
UNC Charlotte	35	290,469,444	490,351,341	2,218,704
UNC Greensboro	31	170,219,604	846,934,937	2,186,195
UNC Wilmington	38	137,354,966	262,888,128	1,188,287
Subtotal	136	\$730,724,438	\$2,078,242,447	7,499,815
Master's (Comprehensive) Universities & Colleges I				
Appalachian	22	\$99,753,503	\$283,033,952	1,332,286
Fayetteville	9	27,407,381	68,442,403	352,044
NC Central	11	60,463,229	209,547,908	650,412
UNC Pembroke	14	39,709,198	130,869,241	695,777
Western Carolina	39	172,372,555	324,294,034	1,372,727
Winston-Salem	16	92,316,235	170,576,159	770,442
Subtotal	111	\$492,022,101	\$1,186,763,697	5,173,688
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	21	\$86,308,807	\$168,404,598	530,478
Subtotal	21	\$86,308,807	\$168,404,598	530,478
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	14	\$34,818,578	\$81,552,882	448,015
Subtotal	14	\$34,818,578	\$81,552,882	448,015
Schools of Art, Music, & Design				
UNC School of the Arts	19	\$10,995,657	\$37,132,376	220,082
Subtotal	19	\$10,995,657	\$37,132,376	220,082
Teaching Hospitals				
UNC Hospitals	-	-	-	-
Subtotal	0	\$10,995,657	\$0	0
Grand Total	529	1,818,013,931	5,011,108,583	20,477,248

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Table 21: Age of Buildings

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

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

Table 21. Age of Buildings

Institution	Total Gross Square Feet	Pre-1900 GSF	100-119 Years (1900-1919) GSF	80-99 Years (1920-1939) GSF	60-79 Years (1940-1959) GSF	40-59 Years (1960-1979) GSF
Research Universities I						
NC State	16,476,420	73,189	352,723	1,309,945	2,049,664	4,231,778
NC State Veterinary Med	907,537	-	-	25,128	14,591	24,055
UNC-Chapel Hill	13,341,200	135,435	544,431	1,365,194	986,806	2,508,028
UNC-Chapel Hill Hlth Aff.	7,008,411	-	-	121,141	278,075	2,057,976
Subtotal	37,733,568	208,624	897,154	2,821,408	3,329,136	8,821,837
Doctoral Universities I & II						
East Carolina	5,848,094	-	278,478	460,301	818,876	1,886,742
East Carolina Hlth Aff.	1,915,626	1,275	-	10,443	-	52,943
N.C. A&T	3,404,024	-	-	285,597	583,360	682,915
UNC Charlotte	9,736,474	-	-	-	-	1,529,318
UNC Greensboro	6,643,801	36,292	260,462	805,642	526,651	1,334,136
UNC Wilmington	4,009,511	-	26,858	6,794	-	769,522
Subtotal	31,557,530	37,567	565,798	1,568,777	1,928,887	6,255,576
Master's (Comprehensive) Universities & Colleges I						
Appalachian	4,964,520	-	-	172,638	269,953	1,567,207
Fayetteville	1,472,197	-	-	152,902	79,409	471,402
NCCU	2,194,489	-	-	211,561	361,235	457,912
UNC Pembroke	1,805,585	-	-	-	95,036	701,398
Western Carolina	3,489,788	2,563	-	234,586	358,595	1,165,300
Winston-Salem	1,963,665	-	12,516	115,677	54,636	474,729
Subtotal	15,890,244	2,563	12,516	887,364	1,218,864	4,837,948
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	1,691,062	-	-	4,249	-	432,098
Subtotal	1,691,062	0	0	4,249	0	432,098
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	1,301,088	-	14,571	117,878	98,237	324,895
Subtotal	1,301,088	0	14,571	117,878	98,237	324,895
Schools of Art, Music, & Design						
UNC School of the Arts	1,212,554	-	18,391	179,560	126,980	273,136
Subtotal	1,212,554	0	18,391	179,560	126,980	273,136
Teaching Hospitals						
UNC Hospitals	2,499,249	-	-	-	379,460	398,842
Subtotal	2,499,249	0	0	0	379,460	398,842
Grand Total	91,885,295	248,754	1,508,430	5,579,236	7,081,564	21,344,332

Table 21. (Continued) Age of Buildings

Institution	20-39 Years (1980-1999) GSF	15-19 Years (2000-2004) GSF	10-14 Years (2005-2009) GSF	5-9 Years (2010-2014) GSF	Less than 5 Years (2015-2019) GSF
Research Universities I					
NC State	3,191,993	1,936,445	1,247,544	1,742,275	340,864
NC State Veterinary Med	387,062	933	286,117	131,077	38,574
UNC-Chapel Hill	2,844,567	785,305	3,012,778	882,588	276,068
UNC-Chapel Hill Hlth Aff.	1,738,153	1,353,069	746,025	686,910	27,062
Subtotal	8,161,775	4,075,752	5,292,464	3,442,850	682,568
Doctoral Universities I & II					
East Carolina	648,063	345,899	251,962	197,767	960,006
East Carolina Hlth Aff.	761,262	18,329	607,838	408,227	55,309
N.C. A&T	606,145	368,235	503,514	173,765	200,493
UNC Charlotte	2,363,680	817,744	1,916,761	2,625,347	483,624
UNC Greensboro	1,348,700	535,036	497,234	785,045	514,603
UNC Wilmington	923,680	505,081	1,357,269	227,489	192,818
Subtotal	6,651,530	2,590,324	5,134,578	4,417,640	2,406,853
Master's (Comprehensive) Universities & Colleges I					
Appalachian	952,378	631,754	699,239	468,264	203,087
Fayetteville	443,005	10,585	118,836	196,058	-
NCCU	480,732	135,972	318,817	228,260	-
UNC Pembroke	130,877	409,900	170,931	210,316	87,127
Western Carolina	440,547	373,097	353,219	275,676	286,205
Winston-Salem	491,672	222,007	354,997	167,431	70,000
Subtotal	2,939,211	1,783,315	2,016,039	1,546,005	646,419
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	581,382	182,407	145,659	227,212	118,055
Subtotal	581,382	182,407	145,659	227,212	118,055
Baccalaureate Colleges: Diverse Fields					
Elizabeth City	233,845	163,108	179,678	168,876	-
Subtotal	233,845	163,108	179,678	168,876	0
Schools of Art, Music, & Design					
UNC School of the Arts	207,837	207,973	21,814	124,683	52,180
Subtotal	207,837	207,973	21,814	124,683	52,180
Teaching Hospitals					
UNC Hospitals	786,894	485,000	449,053	-	-
Subtotal	786,894	485,000	449,053	0	0
Grand Total	19,562,474	9,487,879	13,239,285	9,927,266	3,906,075

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Table 22: Condition of Buildings

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

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

FCAP: Facilities Maintenance and Repair Needs

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

BUILDING CONDITION CODES (Building Inventory File)

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

- 1 - Satisfactory** - Suitable for continued use with normal maintenance.
- 2 - Remodeling A** - Requires restoration to present acceptable standards without major room use changes, alterations, or modernizations. The approximate cost of "Remodeling A" is not greater than 25% of the estimated replacement cost of the building.
- 3 - Remodeling B** - Requires major updating and/or modernization of the building. The approximate cost of "Remodeling B" is greater than 25%, but not greater than 50% of the estimated replacement cost of the building.
- 4 - Remodeling C** - Requires major remodeling of the building. The approximate cost of "Remodeling C" is greater than 50% of the replacement cost of the building.
- 5 - Demolition** - Should be demolished or abandoned because the building is unsafe or structurally unsound, irrespective of the need for the space or the availability of funds for a replacement. This category takes precedence over categories 1-4. If a building is scheduled for demolition, its condition code is recorded as "5-Demolition," regardless of its condition.
- 6 - Termination** - Planned termination or relinquishment of occupancy of the building for reasons other than unsafe or structural unsoundness, such as abandonment of temporary units or vacating of leased space. This category takes precedence over categories 1-4. If a building is scheduled for termination, its condition code is recorded as "6-Termination," regardless of its condition.

Table 22. Condition of Buildings: Gross Square Footage

Institution	Satisfactory		Remodeling A		Remodeling B		Remodeling C	
	GSF	%	GSF	%	GSF	%	GSF	%
Research Universities I								
NC State	6,678,274	40.5	3,830,197	23.2	4,321,311	26.2	1,520,964	9.2
NC State Veterinary Med	355,266	39.1	107,555	11.9	444,716	49.0	-	-
UNC-Chapel Hill	2,771,632	20.8	5,998,273	45.0	2,922,067	21.9	1,618,611	12.1
UNC-Chapel Hill Hlth Aff.	1,372,508	19.6	4,201,596	60.0	829,055	11.8	479,054	6.8
Subtotal	11,177,680	29.6	14,137,621	37.5	8,517,149	22.6	3,618,629	9.6
Doctoral Universities I & II								
East Carolina	2,492,686	42.6	1,031,825	17.6	523,570	9.0	1,789,481	30.6
East Carolina Hlth Aff.	1,292,541	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	6,999,444	71.9	1,169,374	12.0	749,196	7.7	818,460	8.4
UNC Greensboro	3,714,723	55.9	2,147,401	32.3	543,366	8.2	232,263	3.5
UNC Wilmington	3,891,144	97.0	5,066	0.1	-	-	113,301	2.8
Subtotal	20,292,504	64.3	4,584,251	14.5	2,253,273	7.1	4,410,922	14.0
Master's (Comprehensive) Universities & Colleges I								
Appalachian	1,668,447	33.6	2,201,727	44.3	246,283	5.0	774,144	15.6
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	316,451	17.5	623,414	34.5	384,363	21.3	436,533	24.2
Western Carolina	2,267,905	65.0	1,021,286	29.3	165,783	4.8	34,814	1.0
Winston-Salem	1,246,545	63.5	517,748	26.4	89,733	4.6	75,516	3.8
Subtotal	7,663,099	48.2	5,026,486	31.6	1,447,899	9.1	1,491,596	9.4
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	496,533	29.4	520,833	30.8	230,278	13.6	443,418	26.2
Subtotal	496,533	29.4	520,833	30.8	230,278	13.6	443,418	26.2
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	-	-	-	-	-	-
Subtotal	2,499,249	100	0	0.0	0	0.0	0	0.0
Grand Total	43,916,928	47.8	24,707,728	26.9	12,544,404	13.7	10,122,684	11.0

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

Institution	Demolition		Termination		Total Gross Square Feet
	GSF	%	GSF	%	
Research Universities I					
NC State	121,412	0.7	4,262	0.03	16,476,420
NC State Veterinary Med	-	-	-	-	907,537
UNC-Chapel Hill	30,617	0.2	-	-	13,341,200
UNC-Chapel Hill Hlth Aff.	126,198	1.8	-	-	7,008,411
Subtotal	278,227	0.7	4,262	0.01	37,733,568
Doctoral Universities I & II					
East Carolina	10,385	0.2	147	0.0	5,848,094
East Carolina Hlth Aff.	-	-	-	-	1,915,626
N.C. A&T	-	-	-	-	3,404,024
UNC Charlotte	-	-	-	-	9,736,474
UNC Greensboro	6,048	0.1	-	-	6,643,801
UNC Wilmington	-	-	-	-	4,009,511
Subtotal	16,433	0.1	147	0.0	31,557,530
Master's (Comprehensive) Universities & Colleges I					
Appalachian	45,707	0.9	28,212	0.6	4,964,520
Fayetteville	96,894	6.6	-	-	1,472,197
NCCU	11,404	0.5	-	-	2,194,489
UNC Pembroke	43,144	0.5	1,680	0.1	1,805,585
Western Carolina	-	-	-	-	3,489,788
Winston-Salem	34,123	1.7	-	-	1,963,665
Subtotal	231,272	1.5	29,892	0.2	15,890,244
Baccalaureate Colleges: Arts & Sciences Focus					
UNC Asheville	-	-	-	-	1,691,062
Subtotal	0	0.0	0	0.0	1,691,062
Baccalaureate Colleges: Diverse Fields					
Elizabeth City	27,490	2.1	-	-	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	-	-	1,212,554
Subtotal	5,828	0.5	0	0.0	1,212,554
Teaching Hospitals					
UNC Hospitals	-	-	-	-	2,499,249
Subtotal	0	0.0	0	0.0	2,499,249
Grand Total	559,250	0.6	34,301	0.04	91,885,295

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Table 23: Estimated Cost to Renovate or Replace Unsatisfactory Facilities

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

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

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

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

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

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

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

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

RELATIVE INCREASES IN CONSTRUCTION COSTS

Since building cost represents an institution's capital investment in a facility, only buildings that are owned by the institution (i.e., those falling under ownership categories 1-3 on page 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 \$308 per gross square foot. Table 13 indicates that the average net-to-gross ratio is .546. This means that new construction costs are approximately \$564 per

assignable square foot. Thus, every assignable square foot created through a renovation can be viewed as saving the institution \$564 in new construction costs.

$$\text{CONSTRUCTION COST/ASF} = \frac{\text{CONSTRUCTION COST/GSF}}{\text{NET-TO-GROSS RATIO}}$$
$$\text{CONSTRUCTION COST/ASF} = \frac{\$308}{.546} = \$564$$

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 both tables. The tables accurately reflect the number of buildings with non-residential space and the number with residential space, but the sum will exceed the total number of buildings on the campuses which have combination buildings. Other data are distributed between the two tables based on the ratio of the assignable square feet in the category to the total assignable square feet in the building. Thus, campus totals may be determined accurately by summing the appropriate data in the two tables, with the exception noted.

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	1,110	\$1,210,542,565	\$5,230,876,503	529	9,798,146	\$1,245,210,566
NC State Veterinary Med	48	108,029,370	369,887,801	39	552,271	88,006,394
UNC-Chapel Hill	370	1,668,662,440	4,323,488,447	243	10,569,568	1,097,109,342
UNC-Chapel Hill Hlth Aff.	105	853,562,802	2,197,987,547	83	5,635,903	530,105,564
Subtotal	1,633	\$3,840,797,177	\$12,122,240,298	894	26,555,888	\$2,960,431,867
Doctoral Universities I & II						
East Carolina	170	\$554,708,605	\$1,799,751,152	97	3,355,408	\$477,226,135
East Carolina Hlth Aff.	55	284,171,320	634,567,044	18	623,085	107,722,673
NC A&T	122	320,081,501	1,164,416,444	43	1,502,058	307,518,595
UNC Charlotte	119	1,086,914,126	2,172,518,218	39	2,737,030	347,883,039
UNC Greensboro	150	561,968,696	2,806,439,486	63	2,929,078	369,461,272
UNC Wilmington	161	517,758,147	1,009,095,416	3	118,367	33,255,275
Subtotal	777	\$3,325,602,395	\$9,586,787,760	263	11,265,026	\$1,643,066,989
Master's (Comprehensive) Universities & Colleges I						
Appalachian	92	\$564,680,211	\$1,371,378,558	52	3,296,073	\$333,520,319
Fayetteville	50	138,346,200	351,106,564	47	1,275,592	103,189,948
NC Central	57	234,415,561	861,329,879	13	227,343	27,493,491
UNC Pembroke	58	164,078,531	485,778,406	49	1,489,134	186,555,092
Western Carolina	109	348,771,319	840,367,631	44	1,221,883	57,329,500
Winston-Salem	52	201,122,514	471,949,666	23	717,120	46,785,464
Subtotal	418	\$1,651,414,336	\$4,381,910,704	228	8,227,145	\$754,873,814
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	52	\$222,578,727	\$566,776,500	31	1,194,529	\$178,154,141
Subtotal	52	\$222,578,727	\$566,776,500	31	1,194,529	\$178,154,141
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	52	\$121,276,493	\$353,621,619	20	447,166	\$42,769,194
Subtotal	52	\$121,276,493	\$353,621,619	20	447,166	\$42,769,194
Schools of Art, Music, & Design						
UNC School of the Arts	65	\$108,016,784	\$296,036,660	20	278,613	\$14,486,984
Subtotal	65	\$108,016,784	\$296,036,660	20	278,613	\$14,486,984
Teaching Hospitals						
UNC Hospitals	30	\$151,744,106	\$1,036,111,492	-	-	-
Subtotal	30	\$151,744,106	\$1,036,111,492	0	0	\$0
Grand Total	3,027	\$9,421,430,018	\$28,343,485,033	1,456	47,968,367	\$5,593,782,989

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Table 24: Accessible Area as a Percentage of Assignable

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

One of the groups protected by both pieces of legislation is the people who are confined to 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 the handicapped. Although program accessibility can be partially achieved through changes other than facilities modifications, the amount of assignable space that is accessible to the mobility impaired 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., confined to a wheelchair or other 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				
			2019	2018	2017	2016	2015
Research Universities I							
NC State	9,166,469	7,463,539	81.4	83.4	80.7	81.5	81.2
NC State Veterinary Med	464,066	429,362	92.5	93.4	88.8	88.3	88.4
UNC-Chapel Hill	7,329,279	7,287,254	99.4	99.5	99.7	100	99.7
UNC-Chapel Hill Hlth Aff.	2,665,140	2,647,808	99.3	99.4	99.5	100	99.7
Subtotal	19,624,954	17,827,963	90.8	91.8	90.5	91.1	90.8
Doctoral Universities I & II							
East Carolina	3,478,085	2,990,832	86.0	86.4	86.1	83.4	83.3
East Carolina Hlth Aff.	1,086,016	843,117	77.6	76.3	79.1	76.1	94.3
N.C. A&T	2,359,182	2,089,772	88.6	88.6	88.1	87.4	89.4
UNC Charlotte	3,970,294	3,843,243	96.8	97.7	95.9	97.4	96.2
UNC Greensboro	3,379,163	2,675,212	79.2	79.8	80.6	88	87.5
UNC Wilmington	2,533,267	2,462,073	97.2	95.8	96.1	98.9	98.9
Subtotal	16,806,007	14,904,249	88.7	88.8	88.6	89.9	91.1
Master's (Comprehensive) Universities & Colleges I							
Appalachian	2,812,406	2,399,569	85.3	85.1	84.4	84	84.2
Fayetteville	919,639	777,177	84.5	84.5	84.2	84.3	84.3
NCCU	1,404,771	1,282,397	91.3	90.9	90.5	90.5	90.5
UNC Pembroke	1,209,182	1,112,253	92.0	91	91	90.9	90.8
Western Carolina	2,204,250	1,688,426	76.6	75.5	75.4	75.3	74.3
Winston-Salem	1,273,375	1,138,567	89.4	87.5	87.1	87.1	87.1
Subtotal	9,823,623	8,398,389	85.5	84.8	84.4	84.3	84.2
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	975,657	74,121	7.6	7.6	-	96.9	96.9
Subtotal	975,657	74,121	7.6	7.6	0.0	96.9	96.9
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	864,764	746,170	86.3	86.3	86.3	81.8	81.8
Subtotal	864,764	746,170	86.3	86.3	86.3	81.8	81.8
Schools of Art, Music, & Design							
UNC School of the Arts	820,449	740,147	90.2	90.2	90.1	90.1	90.1
Subtotal	820,449	740,147	90.2	90.2	90.1	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	50,273,757	43,885,222	87.3	87.6	86.9	89.2	89.4

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 handicapped persons. For example, the financial aid program at a college or university would be considered accessible if a handicapped student 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 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	7,463,539	90.6	77.5	67.1	97.1	78.8
NC State Veterinary Med	429,362	88.8	93.3	95.8	94.7	100
UNC-Chapel Hill	7,287,254	99.3	98.9	99.7	99.7	99.9
UNC-Chapel Hill Hlth Aff.	2,647,808	99.1	99.8	98.2	99.3	97.3
Subtotal	17,827,963	95.3	87.1	82.4	98.6	90.2
Doctoral Universities I & II						
East Carolina	2,990,832	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	3,843,243	96.6	99.3	100	99.2	96.4
UNC Greensboro	2,675,212	82.3	86.1	78.6	83.0	78.0
UNC Wilmington	2,462,073	99.4	99.0	99.3	99.7	97.6
Subtotal	14,904,249	92.4	91.0	69.2	94.4	90.1
Master's (Comprehensive) Universities & Colleges I						
Appalachian	2,399,569	90.9	69.5	32.7	100	82.6
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	1,112,253	96.3	100	100	98.7	91.6
Western Carolina	1,688,426	94.1	91.3	100	95.5	66.2
Winston-Salem	1,138,567	89.8	100	87.9	97.0	92.0
Subtotal	8,398,389	92.7	93.4	45.8	97.5	80.9
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	74,121	5.0	0.0	0.0	0.0	12.3
Subtotal	74,121	5.0	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	740,147	93.1	-	100	93.6	84.2
Subtotal	740,147	93.1	-	100	93.6	84.2
Teaching Hospitals						
UNC Hospitals	1,194,183	100	100	85.3	-	-
Subtotal	1,194,183	100	100	85.3	-	-
Grand Total	43,885,222	91.8	87.8	79.2	94.7	85.8

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	84.8	85.8	93.6	39.0
NC State Veterinary Med	90.9	98.1	100	0.0
UNC-Chapel Hill	98.4	100	99.7	92.7
UNC-Chapel Hill Hlth Aff.	98.6	99.7	100	98.5
Subtotal	91.7	94.8	96.4	75.7
Doctoral Universities I & II				
East Carolina	65.7	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	95.2	91.0	-	94.1
UNC Greensboro	87.5	66.0	16.9	25.4
UNC Wilmington	96.2	100	67.1	89.9
Subtotal	87.7	64.4	65.9	53.7
Master's (Comprehensive) Universities & Colleges I				
Appalachian	82.7	88.9	100	100
Fayetteville	96.8	100	88.0	94.8
NCCU	80.4	79.0	99.4	88.2
UNC Pembroke	98.7	99.9	-	3.2
Western Carolina	54.8	98.5	100	100
Winston-Salem	74.2	95.7	100	50.0
Subtotal	77.7	94.8	98.0	83.4
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0.0	0.0	0.0	0.4
Subtotal	0.0	0.0	0.0	0.4
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	88.1	96.6	100	92.0
Subtotal	88.1	96.6	100	92.0
Teaching Hospitals				
UNC Hospitals	100	98.5	100	100
Subtotal	100	98.5	100	100
Grand Total	86.2	81.1	84.1	70.7

**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	90.5	-	-	100	-	-	-
NC State Veterinary Med	88.8	-	-	-	-	-	-
UNC-Chapel Hill	99.3	-	-	99.9	99.8	-	-
UNC-Chapel Hill Hlth Aff.	99.1	-	100	99.9	100	-	-
Subtotal	95.2	-	100	99.9	99.8	-	-
Doctoral Universities I & II							
East Carolina	93.2	-	100	-	-	-	-
East Carolina Hlth Aff.	86.0	-	-	-	100	-	-
N.C. A&T	93.2	-	-	-	-	-	-
UNC Charlotte	96.5	-	-	100	-	-	-
UNC Greensboro	82.4	-	0.0	-	-	-	-
UNC Wilmington	99.4	-	-	100	-	-	-
Subtotal	92.4	-	28.6	100	100	-	-
Master's (Comprehensive) Universities & Colleges I							
Appalachian	90.9	-	-	-	-	-	-
Fayetteville	100	-	-	100	-	-	-
NCCU	90.2	-	-	-	-	-	-
UNC Pembroke	96.2	-	100	94.2	100	-	-
Western Carolina	94.1	-	-	100	-	-	-
Winston-Salem	89.8	-	100	-	-	-	-
Subtotal	92.7	-	100	97.9	100	-	-
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	5.1	-	-	0.0	-	-	-
Subtotal	5.1	-	-	0.0	-	-	-
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	86.4	-	-	100	-	-	-
Subtotal	86.4	-	-	100	-	-	-
Schools of Art, Music, & Design							
UNC School of the Arts	93.1	-	-	-	-	-	-
Subtotal	93.1	-	-	-	-	-	-
Teaching Hospitals							
UNC Hospitals	100	-	-	100	-	-	-
Subtotal	100	-	-	100	-	-	-
Grand Total	91.7	-	88.7	96.9	99.9	-	-

**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	-	65.5	81.5	-
NC State Veterinary Med	-	-	93.3	94.7
UNC-Chapel Hill	-	99.7	98.9	100
UNC-Chapel Hill Hlth Aff.	-	96.7	99.9	97.2
Subtotal	-	69.2	90.4	96.2
Doctoral Universities I & II				
East Carolina	-	15.7	91.7	-
East Carolina Hlth Aff.	-	100	97.2	65.0
N.C. A&T	-	98.5	77.7	-
UNC Charlotte	-	100	98.9	-
UNC Greensboro	-	-	86.1	100
UNC Wilmington	-	98.9	100	100
Subtotal	-	90.1	91.4	65.4
Master's (Comprehensive) Universities & Colleges I				
Appalachian	-	100	60.5	100
Fayetteville	-	-	100	-
NCCU	-	99.0	96.4	-
UNC Pembroke	-	-	100	-
Western Carolina	100	83.7	100	-
Winston-Salem	-	100	100	-
Subtotal	100	94.8	92.4	100
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	-
Subtotal	-	-	100	-
Schools of Art, Music, & Design				
UNC School of the Arts	-	-	-	-
Subtotal	-	-	-	-
Teaching Hospitals				
UNC Hospitals	-	-	100	79.7
Subtotal	-	-	100	79.7
Grand Total	55.8	76.4	90.4	78.5

**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	-	89.4	50.7	100
NC State Veterinary Med	97.5	-	100	-
UNC-Chapel Hill	100	99.6	100	99.9
UNC-Chapel Hill Hlth Aff.	98.9	99.9	100	-
Subtotal	98.6	91.1	51.4	99.9
Doctoral Universities I & II				
East Carolina	67.0	100	-	96.6
East Carolina Hlth Aff.	57.8	100	-	-
N.C. A&T	-	98.1	93.3	100
UNC Charlotte	-	100	-	-
UNC Greensboro	-	46.3	-	-
UNC Wilmington	100	99.2	-	-
Subtotal	58.7	98.5	93.3	98.0
Master's (Comprehensive) Universities & Colleges I				
Appalachian	-	20.5	-	-
Fayetteville	-	100	-	100
NCCU	-	100	-	94.7
UNC Pembroke	-	100	-	-
Western Carolina	100	100	-	100
Winston-Salem	-	86.4	-	100
Subtotal	100	33.5	-	95.4
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	-	0.0	-	-
Subtotal	-	0.0	-	-
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	-	100	-	100
Subtotal	-	100	-	100
Schools of Art, Music, & Design				
UNC School of the Arts	-	100	-	-
Subtotal	-	100	-	-
Teaching Hospitals				
UNC Hospitals	89.1	-	-	-
Subtotal	89.1	-	-	-
Grand Total	85.2	81.4	53.8	98.3

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	99.3	84.4	100	87.6
NC State Veterinary Med	100	-	100	4.0
UNC-Chapel Hill	100	100	100	100
UNC-Chapel Hill Hlth Aff.	99.9	100	98.6	100
Subtotal	99.8	94.7	100	90.8
Doctoral Universities I & II				
East Carolina	95.3	100	99.2	8.9
East Carolina Hlth Aff.	99.5	0.0	100	-
N.C. A&T	100	100	100	100
UNC Charlotte	99.4	98.8	98.1	99.9
UNC Greensboro	84.9	99.6	31.3	37.9
UNC Wilmington	99.6	100	100	99.8
Subtotal	96.4	95.3	69.6	83.8
Master's (Comprehensive) Universities & Colleges I				
Appalachian	100	-	-	100
Fayetteville	100	100	100	100
NCCU	99.3	100	100	100
UNC Pembroke	99.6	100	100	100
Western Carolina	100	82.7	57.6	18.4
Winston-Salem	100	92.9	100	100
Subtotal	99.9	90.5	93.5	94.4
Baccalaureate Colleges: Arts & Sciences Focus				
UNC Asheville	0	0.0	0.0	0
Subtotal	0.0	0.0	0.0	0.0
Baccalaureate Colleges: Diverse Fields				
Elizabeth City	100	100	-	100
Subtotal	100	100	-	100
Schools of Art, Music, & Design				
UNC School of the Arts	100	100	100	42.2
Subtotal	100	100	100	42.2
Teaching Hospitals				
UNC Hospitals	-	-	-	-
Subtotal	-	-	-	-
Grand Total	96.1	92.0	83.5	85.1

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	65.7	97.0	100	100
NC State Veterinary Med	100	98.8	-	-
UNC-Chapel Hill	100	97.9	100	99.8
UNC-Chapel Hill Hlth Aff.	99.7	98.9	100	100
Subtotal	97.5	97.9	100	99.8
Doctoral Universities I & II				
East Carolina	100	89.4	-	-
East Carolina Hlth Aff.	100	100	-	-
N.C. A&T	95.2	87.3	-	-
UNC Charlotte	-	98.8	-	-
UNC Greensboro	97.0	83.9	-	100
UNC Wilmington	100	99.8	100	100
Subtotal	95.7	93.2	100	100
Master's (Comprehensive) Universities & Colleges I				
Appalachian	100	100	100	-
Fayetteville	100	100	-	-
NCCU	59.1	93.4	-	100
UNC Pembroke	20.4	99.4	-	100
Western Carolina	100	92.8	-	100
Winston-Salem	100	93.9	-	-
Subtotal	87.4	96.3	100	100
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	-	-
Subtotal	87.5	100	-	-
Schools of Art, Music, & Design				
UNC School of the Arts	100	65.6	-	-
Subtotal	100	65.6	-	-
Teaching Hospitals				
UNC Hospitals	-	-	-	-
Subtotal	-	-	-	-
Grand Total	92.6	94.9	100.0	97.9

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	99.0	92.3	99.3	100	72.0	99.0
NC State Veterinary Med	-	-	-	-	100	-
UNC-Chapel Hill	99.9	99.9	100	98.8	99.9	100
UNC-Chapel Hill Hlth Aff.	100	100	100	0.0	99.9	-
Subtotal	99.6	96.5	99.6	98.4	86.6	99.6
Doctoral Universities I & II						
East Carolina	93.7	86.4	70.5	100	99.9	83.7
East Carolina Hlth Aff.	-	-	-	-	51.9	-
N.C. A&T	77.8	92.5	100	100	79.0	69.0
UNC Charlotte	99.5	98.0	78.8	100	96.2	97.9
UNC Greensboro	93.8	61.6	99.2	-	83.4	16.6
UNC Wilmington	99.3	100	100	100	96.8	100
Subtotal	95.1	87.7	90.0	100	91.9	77.6
Master's (Comprehensive) Universities & Colleges I						
Appalachian	100	99.4	100	97.0	73.9	100
Fayetteville	100	43.7	100	100	63.5	98.2
NCCU	100	94.0	85.1	100	94.5	80.7
UNC Pembroke	100	81.9	100	100	92.0	100
Western Carolina	100	98.6	100	100	55.9	94.4
Winston-Salem	77.1	100	100	100	90.1	100
Subtotal	90.8	93.2	96.4	98.9	76.2	96.5
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	100	100	100	86.8	95.1
Subtotal	100	100	100	100	86.8	95.1
Schools of Art, Music, & Design						
UNC School of the Arts	100	92.0	100	100	81.9	-
Subtotal	100	92.0	100	100	81.9	-
Teaching Hospitals						
UNC Hospitals	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-
Grand Total	95.3	88.4	94.2	95.6	84.4	90.2

**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	100	100	82.7	71.2
NC State Veterinary Med	-	-	99.4	100	92.2	100
UNC-Chapel Hill	99.9	100	100	99.8	99.9	99.9
UNC-Chapel Hill Hlth Aff.	-	-	100	99.6	100	100
Subtotal	99.0	100	99.9	99.9	94.9	85.1
Doctoral Universities I & II						
East Carolina	91.5	61.6	9.2	90.1	-	60.3
East Carolina Hlth Aff.	-	0.0	100	87.6	100	0.0
N.C. A&T	31.0	100	87.7	70.2	8.1	100
UNC Charlotte	89.5	79.1	97.3	97.0	16.9	65.6
UNC Greensboro	97.5	100	95.0	56.9	54.2	36.2
UNC Wilmington	98.1	100	100	100	100	100
Subtotal	81.6	85.4	63.9	90.0	68.9	44.4
Master's (Comprehensive) Universities & Colleges I						
Appalachian	100	97.3	81.8	-	100	-
Fayetteville	100	100	100	100	100	100
NCCU	82.4	57.2	82.5	100	100	100
UNC Pembroke	100	99.7	100	100	100	100
Western Carolina	100	100	88.8	100	100	100
Winston-Salem	100	93.2	98.8	96.5	100	100
Subtotal	98.2	97.4	87.5	98.6	100	100
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	100	100	-	100	-
Subtotal	100	100	100	-	100	-
Schools of Art, Music, & Design						
UNC School of the Arts	44.6	82.5	100	100	-	100
Subtotal	44.6	82.5	100	100	-	100
Teaching Hospitals						
UNC Hospitals	-	-	100	94.3	-	-
Subtotal	-	-	100	94.3	-	-
Grand Total	88.0	94.0	76.6	93.3	78.7	76.1

**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	98.0	98.8	59.7	56.0	97.0
NC State Veterinary Med	-	100	100	31.6	100	-
UNC-Chapel Hill	99.9	100	99.9	100	100	89.4
UNC-Chapel Hill Hlth Aff.	85.3	99.9	98.5	100	99.6	100
Subtotal	99.5	99.6	99.3	80.9	66.7	93.2
Doctoral Universities I & II						
East Carolina	78.2	29.3	79.7	96.3	96.3	88.3
East Carolina Hlth Aff.	100	75.0	91.7	100	-	100
N.C. A&T	100	100	99.9	94.3	100	100
UNC Charlotte	96.1	76.2	93.9	98.9	100	100
UNC Greensboro	99.8	98.1	94.7	92.6	42.6	76.0
UNC Wilmington	86.1	100	96.4	99.6	100	95.4
Subtotal	87.3	54.8	95.0	96.1	69.6	91.8
Master's (Comprehensive) Universities & Colleges I						
Appalachian	100	90.8	81.0	100	91.7	81.3
Fayetteville	98.0	100	100	78.4	98.4	69.4
NCCU	100	100	63.9	97.2	100	100
UNC Pembroke	97.1	98.4	100	53.6	100	100
Western Carolina	78.1	100	100	98.8	7.2	80.4
Winston-Salem	90.4	69.9	78.2	97.5	51.5	63.3
Subtotal	94.0	90.1	83.8	96.6	45.0	82.3
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	100	98.8	100	16.9	100
Subtotal	100	100	98.8	100	16.9	100
Schools of Art, Music, & Design						
UNC School of the Arts	72.7	100	93.7	100	100	35.8
Subtotal	72.7	100	93.7	100	100	35.8
Teaching Hospitals						
UNC Hospitals	100	100	100	100	100	100
Subtotal	100	100	100	100	100	100
Grand Total	88.4	78.2	94.0	88.9	57.4	86.7

**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	-	78.4	93.9	75.7	25.8
NC State Veterinary Med	-	-	-	100	0.0	-
UNC-Chapel Hill	99.9	100	100	99.6	90.7	97.2
UNC-Chapel Hill Hlth Aff.	100	100	100	100	96.8	100
Subtotal	100	100	98.8	95.8	87.5	64.3
Doctoral Universities I & II						
East Carolina	60.3	77.5	-	100	100	1.6
East Carolina Hlth Aff.	-	100	-	-	100	-
N.C. A&T	100	100	100	100	65.7	97.2
UNC Charlotte	100	100	-	-	96.9	93.0
UNC Greensboro	97.3	100	-	16.9	100	0.0
UNC Wilmington	100	100	36.0	77.2	0.0	90.9
Subtotal	94.3	96.7	61.5	66.5	90.9	50.2
Master's (Comprehensive) Universities & Colleges I						
Appalachian	85.4	17.0	100	100	100	100
Fayetteville	100	100	45.5	100	86.5	100
NCCU	29.5	100	100	99.4	85.4	88.8
UNC Pembroke	100	100	-	-	3.2	-
Western Carolina	100	100	100	100	100	100
Winston-Salem	100	100	100	100	7.8	67.7
Subtotal	83.1	72.1	93.4	99.8	54.7	94.1
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0.0	0.0	0.0	0.0	36.0	0.0
Subtotal	0.0	0.0	0.0	0.0	36.0	0.0
Baccalaureate Colleges: Diverse Fields						
Elizabeth City	100	100	-	-	65.8	55.9
Subtotal	100	100	-	-	65.8	55.9
Schools of Art, Music, & Design						
UNC School of the Arts	100	100	100	-	84.6	100
Subtotal	100	100	100	-	84.6	100
Teaching Hospitals						
UNC Hospitals	-	-	-	100	100	100
Subtotal	-	-	-	100	100	100
Grand Total	88.8	83.9	88.9	83.0	76.9	67.7

Table 26: Accessible Area by Room Codes

Table 26 indicates for each of the ten summary room codes the amount and percentage of assignable area that is accessible to mobility-impaired persons. 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	7,463,539	260,186	99.7	1,545,424	96.3	1,901,359	97.1
NC State Veterinary Med	429,362	7,596	97.9	95,386	95.4	96,762	99.0
UNC-Chapel Hill	7,287,254	271,473	99.9	601,738	99.0	1,651,066	98.6
UNC-Chapel Hill Hlth Aff.	2,647,808	81,494	99.9	825,214	99.9	1,088,054	99.0
Subtotal	17,827,963	620,749	99.8	3,067,762	97.8	4,737,241	98.1
Doctoral Universities I & II							
East Carolina	2,990,832	162,694	94.4	350,728	93.1	694,356	86.1
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	3,843,243	222,782	89.5	542,293	99.6	927,665	97.8
UNC Greensboro	2,675,212	144,614	95.7	288,451	79.5	518,758	83.5
UNC Wilmington	2,462,073	134,632	98.4	237,471	99.4	448,413	99.0
Subtotal	14,904,249	839,763	93.8	1,893,468	92.9	3,361,891	90.4
Master's (Comprehensive) Universities & Colleges I							
Appalachian	2,399,569	173,241	92.8	246,677	87.6	524,028	91.0
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	1,112,253	87,771	98.5	64,700	99.7	192,798	95.7
Western Carolina	1,688,426	91,890	94.3	186,740	97.0	320,349	96.9
Winston-Salem	1,138,567	56,253	83.6	73,566	89.3	200,113	89.4
Subtotal	8,398,389	572,884	92.2	763,979	92.3	1,698,378	92.1
Baccalaureate Colleges: Arts & Sciences Focus							
UNC Asheville	74,121	0	-	10,084	9.3	1,048	0.7
Subtotal	74,121	0	-	10,084	9.3	1,048	0.7
Baccalaureate Colleges: Diverse Fields							
Elizabeth City	746,170	63,905	85.3	54,791	82.0	107,432	91.4
Subtotal	746,170	63,905	85.3	54,791	82.0	107,432	91.4
Schools of Art, Music, & Design							
UNC School of the Arts	740,147	17,530	57.9	194,611	96.1	89,527	86.2
Subtotal	740,147	17,530	57.9	194,611	96.1	89,527	86.2
Teaching Hospitals							
UNC Hospitals	1,194,183	9,926	100.0	10,829	100.0	334,517	90.0
Subtotal	1,194,183	9,926	100.0	10,829	100.0	334,517	90.0
Grand Total	43,885,222	2,124,757	92.4	5,995,524	93.8	10,330,034	92.7

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	358,091	97.6	1,026,375	59.3	745,984	95.9	310,027	71.7
NC State Veterinary Med	10,739	100.0	62,277	78.9	14,769	100.0	25,158	90.4
UNC-Chapel Hill	636,614	100.0	848,189	99.9	850,423	99.9	460,809	100.0
UNC-Chapel Hill Hlth Aff.	68,326	100.0	214,692	98.0	92,671	100.0	36,528	99.9
Subtotal	1,073,770	99.2	2,151,533	74.7	1,703,847	98.1	832,522	86.9
Doctoral Universities I & II								
East Carolina	189,181	98.0	312,323	85.2	383,168	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	230,353	100.0	218,920	97.3	349,831	95.6	59,560	93.9
UNC Greensboro	110,255	81.2	38,136	30.2	380,466	68.4	232,888	85.6
UNC Wilmington	125,548	99.7	242,235	100.0	235,556	99.9	79,380	99.0
Subtotal	857,727	95.5	1,115,001	81.8	1,637,456	87.1	649,530	78.2
Master's (Comprehensive) Universities & Colleges I								
Appalachian	95,322	95.9	339,945	85.7	330,259	91.0	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	34,333	99.8	88,348	97.4	114,384	92.0	51,967	98.1
Western Carolina	134,957	99.9	190,347	90.6	300,892	96.1	61,376	97.2
Winston-Salem	55,810	97.5	107,020	100.0	154,249	98.2	63,047	91.7
Subtotal	486,556	97.6	913,868	91.1	1,126,335	91.6	283,508	90.3
Baccalaureate Colleges: Arts & Sciences Focus								
UNC Asheville	0	-	0	-	0	-	0	-
Subtotal	0	-	0	-	0	-	0	-
Baccalaureate Colleges: Diverse Fields								
Elizabeth City	35,571	92.0	87,210	95.4	87,286	92.6	16,453	98.4
Subtotal	35,571	92.0	87,210	95.4	87,286	92.6	16,453	98.4
Schools of Art, Music, & Design								
UNC School of the Arts	46,744	100.0	23,826	100.0	120,434	94.7	78,639	94.9
Subtotal	46,744	100.0	23,826	100.0	120,434	94.7	78,639	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	2,503,265	95.0	4,323,931	78.6	4,729,183	90.2	1,944,814	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	28,492	98.7	1,239,414	66.1	48,187	37.0
NC State Veterinary Med	116,675	96.1	0	-	0	-
UNC-Chapel Hill	22,090	99.9	1,852,136	99.9	92,716	92.4
UNC-Chapel Hill Hlth Aff.	158,708	99.6	431	100.0	81,690	99.8
Subtotal	325,965	98.2	3,091,981	82.9	222,593	70.2
Doctoral Universities I & II						
East Carolina	6,194	83.1	836,396	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	5,696	73.0	1,214,222	96.5	71,921	93.5
UNC Greensboro	9,168	73.5	952,476	83.8	0	0.0
UNC Wilmington	7,876	100.0	852,410	94.4	98,552	89.9
Subtotal	199,607	72.0	4,170,210	91.4	179,596	52.1
Master's (Comprehensive) Universities & Colleges I						
Appalachian	11,733	100.0	529,648	71.3	70,810	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	2,408	100.0	475,544	91.1	0	0.0
Western Carolina	3,246	100.0	357,843	43.7	40,786	100.0
Winston-Salem	3,213	76.0	407,335	86.9	17,961	49.1
Subtotal	25,237	94.4	2,227,110	71.9	300,534	83.3
Baccalaureate Colleges: Arts & Sciences Focus						
UNC Asheville	0	-	62,857	21.2	132	0.4
Subtotal	0	-	62,857	21.2	132	0.4
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	37,421	92.0
Subtotal	1,259	41.0	130,156	81.7	37,421	92.0
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	1,173,498	85.0	9,925,333	81.7	834,883	69.8

Institutional Index

Institutional Index					
Institution	Level *	FICE Code	County	City	Congr. Dist.**
Appalachian State University	3	002906	Watauga	Boone 28608	05
East Carolina University	2	002923	Pitt	Greenville 27858	01, 03
ECU-Health Affairs	2		Pitt	Greenville 27858	01, 03
Elizabeth City State University		002929	Pasquotank	Elizabeth City 27909	01
Fayetteville State University	3	002928	Cumberland	Fayetteville 28301	02, 07, 08
N. C. A&T State University	2	002905	Guilford	Greensboro 27411	06, 12, 13
N. C. Central University	3	002950	Durham	Durham 27707	04
N. C. State University	1	002972	Wake	Raleigh 27695	02, 04, 13
NCSU Veterinary School	1		Wake	Raleigh 27695	02, 04, 13
UNC Asheville		002907	Buncombe	Asheville 28804	11
UNC-Chapel Hill	1	002974	Orange	Chapel Hill 27599	04
UNC Charlotte	2	002975	Mecklenburg	Charlotte 28223	08, 09, 12
UNC Greensboro	2	002976	Guilford	Greensboro 27402	06, 12, 13
UNC-CH Health Affairs	1		Orange	Chapel Hill 27599	04
UNC School of the Arts		003981	Forsyth	Winston-Salem 27117	05, 12
UNC Pembroke	3	002954	Robeson	Pembroke 28372	07
UNC Wilmington	2	002984	New Hanover	Wilmington 28403	07
Western Carolina University	3	002981	Jackson	Cullowhee 28723	11
Winston-Salem State University	3	002986	Forsyth	Winston-Salem 27110	05, 12

* 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.

** Based on 2010 census.

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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

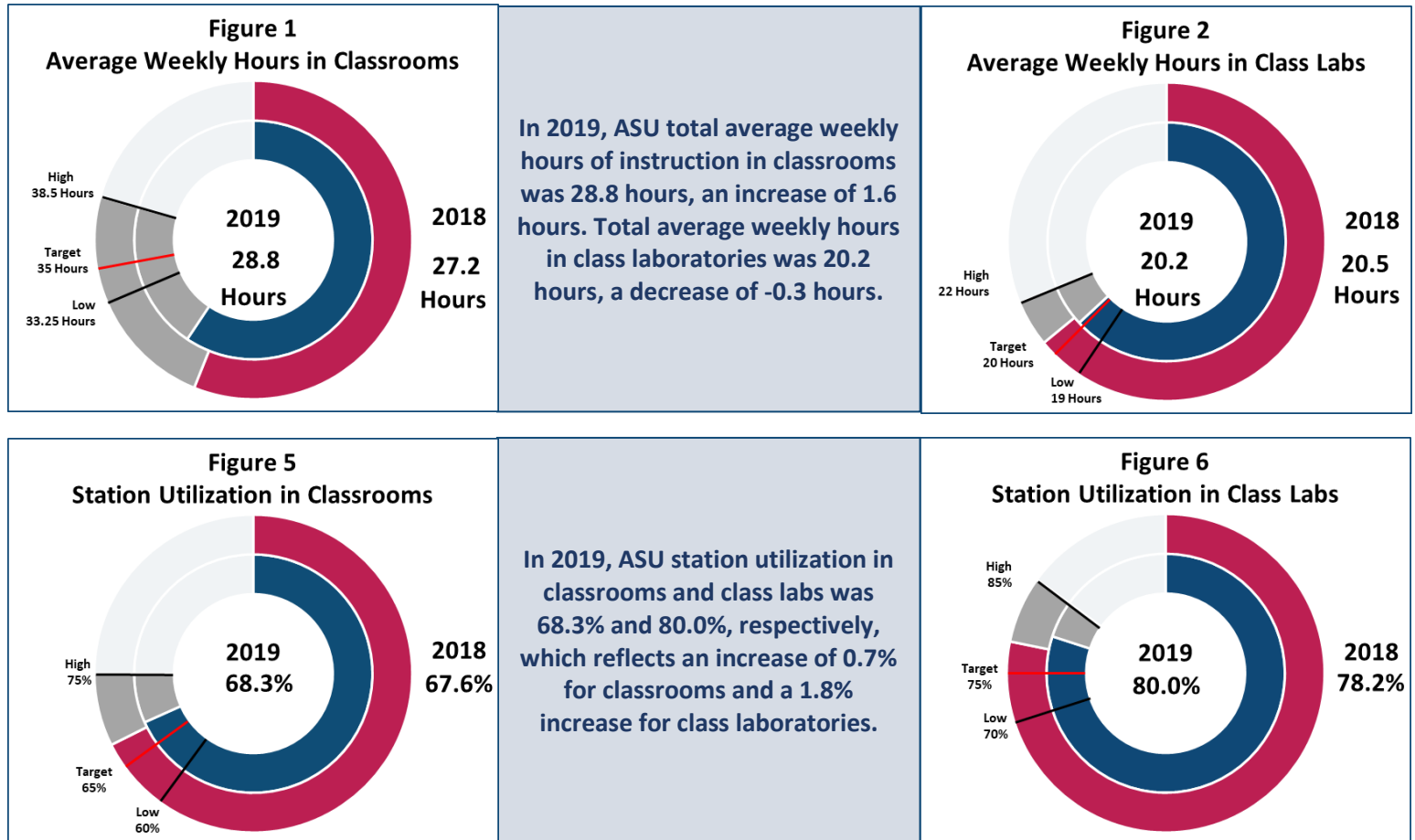
The appendices provide additional perspective on utilization of instructional space, room space characteristics, and building characteristics by institution, extending the information presented in the Executive Summary down to the campus level. For ease of comparison, figures are numbered consistently 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

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

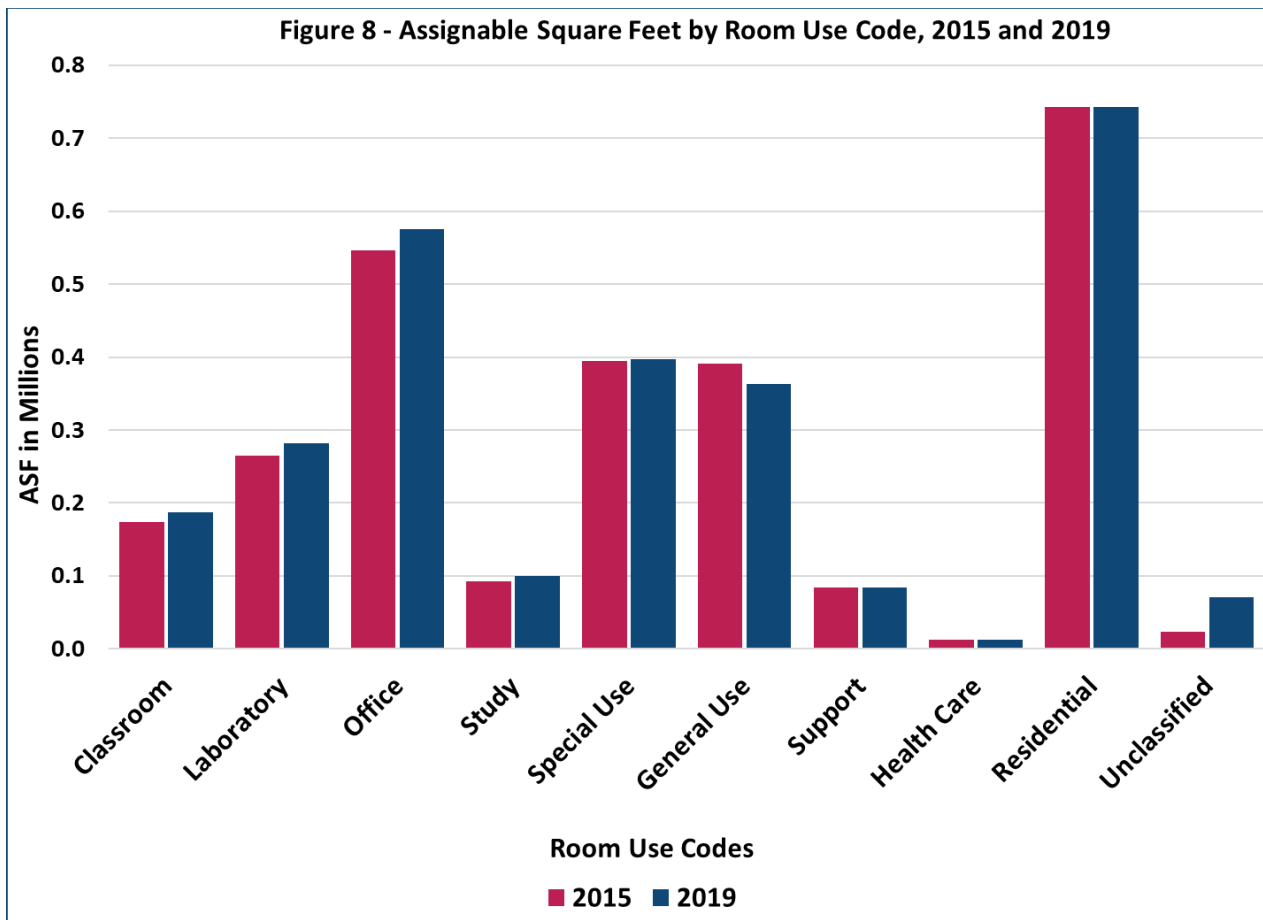
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at ASU increased from 2,797,594 to 2,812,406, or 3.3% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	878,590	31.2%	29.3%	1.9%
Research	15,969	0.6%	0.6%	0.0%
Public Service	76,727	2.7%	2.8%	-0.1%
Student Service	1,424,717	50.7%	51.6%	-0.9%
Other	416,403	14.8%	15.7%	-0.9%



Building Characteristics

Appalachian State University has 4,964,520 gross square feet of space comprised of 92 buildings (22 residential, 70 non-residential; 45 appropriated, 47 non-appropriated; 66 owned, 1 leased, 25 under other agreement terms) with 2,812,406 square feet of assignable space, having increased by 3.3% with in the last five years. Since 2018, gross square footage has remained unchanged.

Appalachian State University Building Characteristics	
92 Total Buildings	
	66 Owned
45 Appropriated	1 Leased
47 Non-appropriated	25 Other Agreement
<hr/> 92 Total	<hr/> 92 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

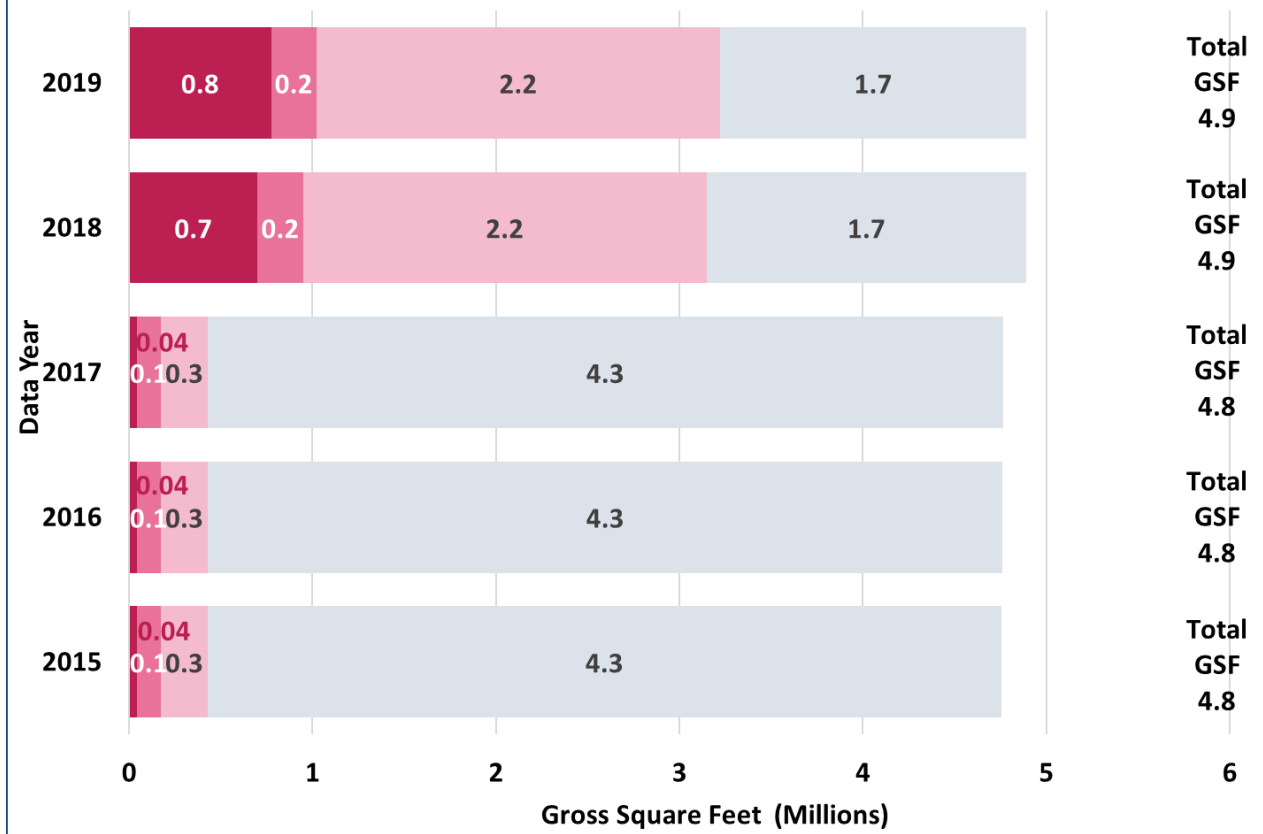


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019

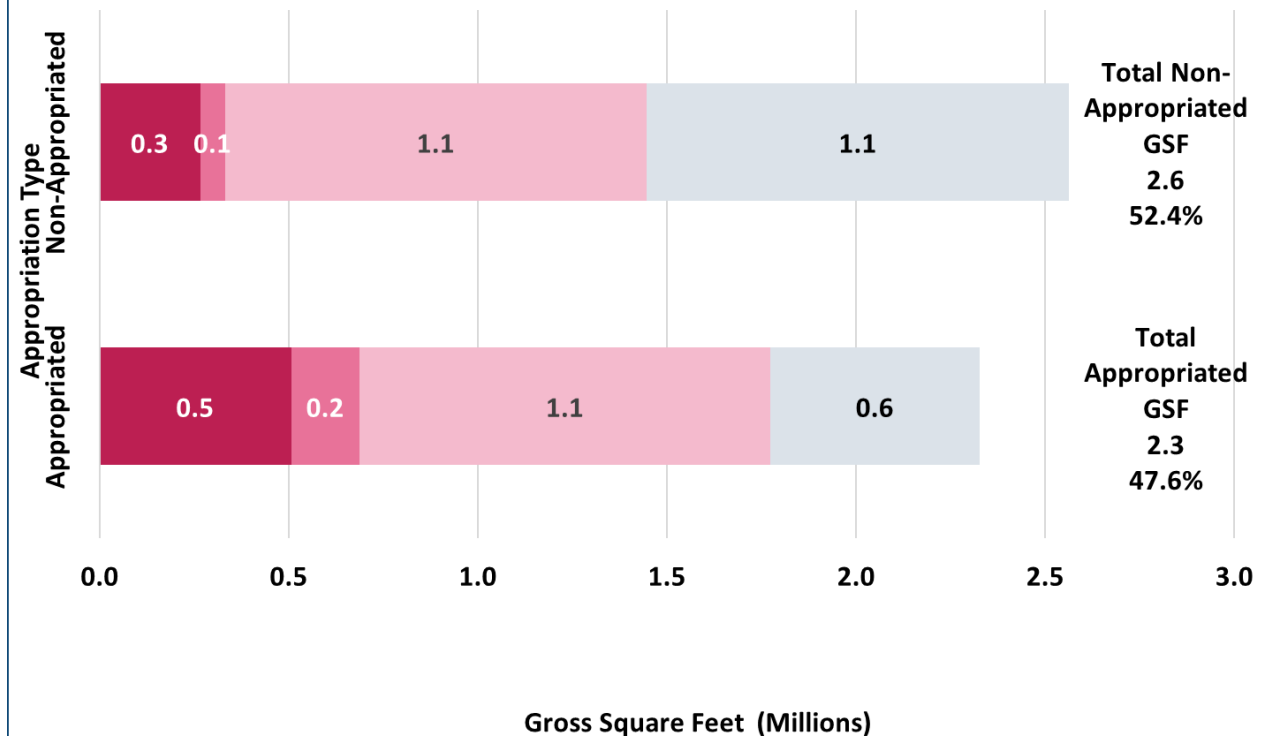


Figure 11 - Age of Buildings (Years), GSF

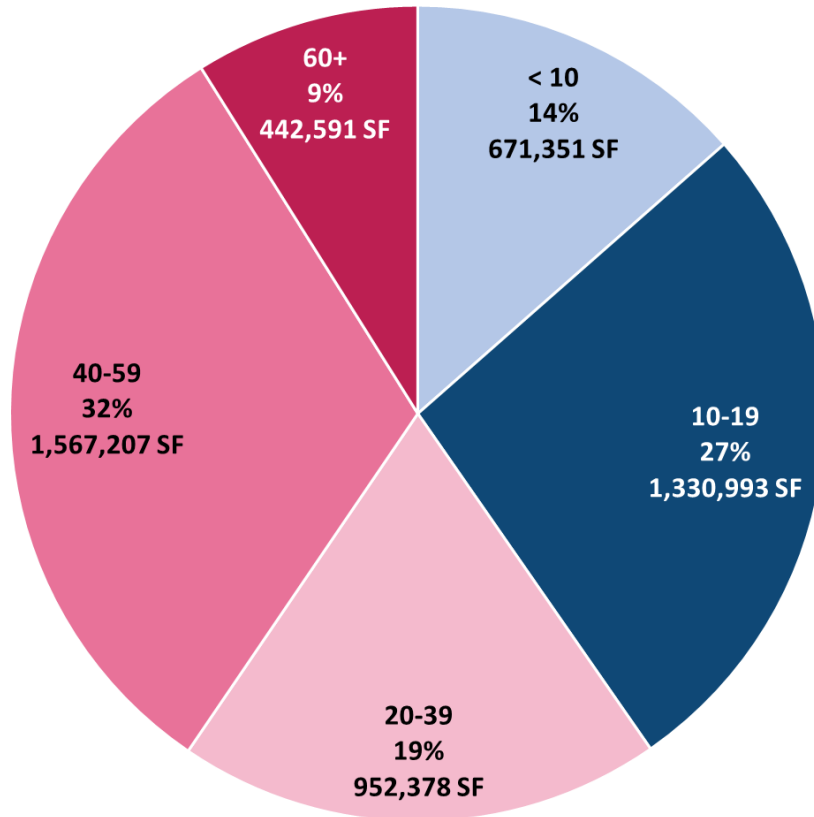
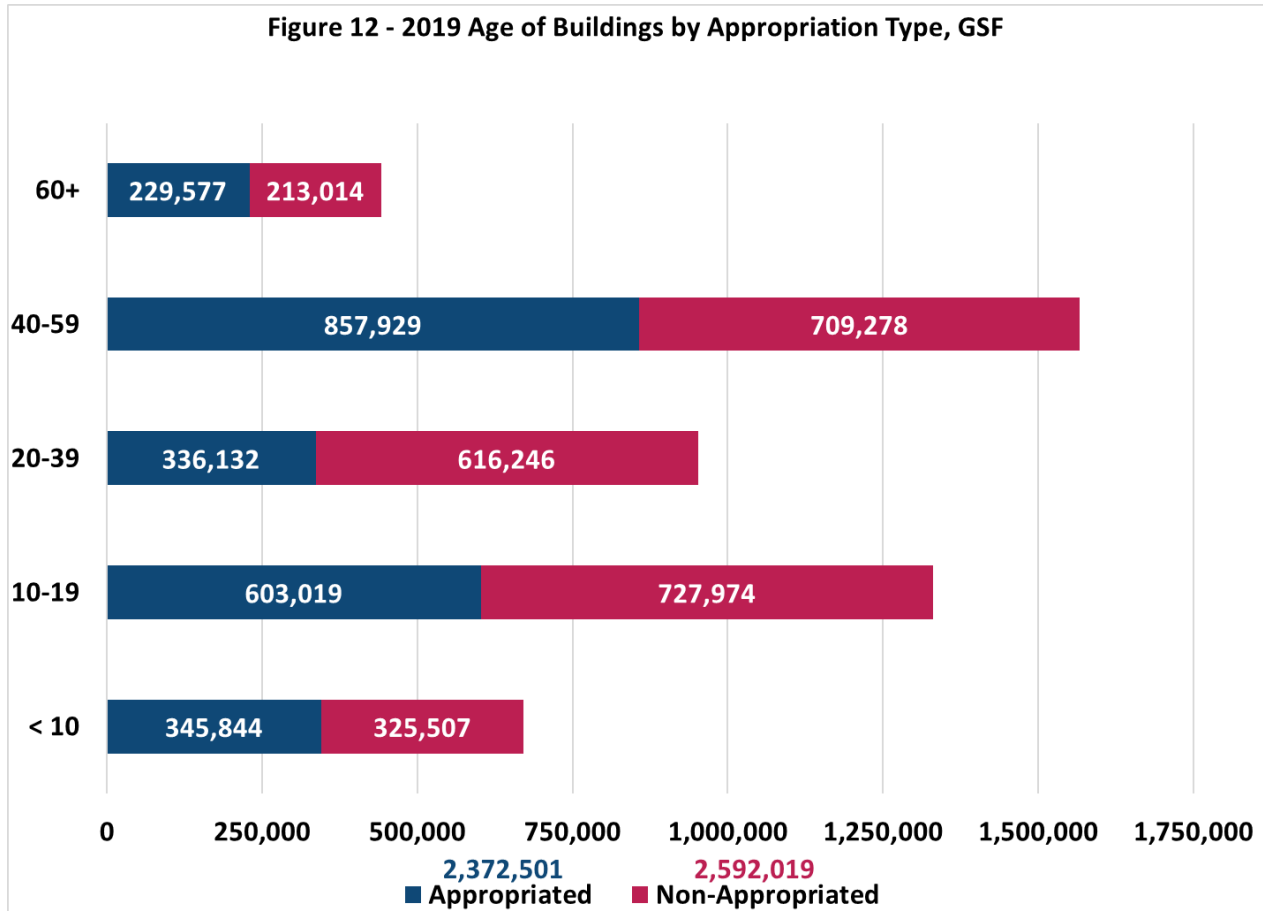


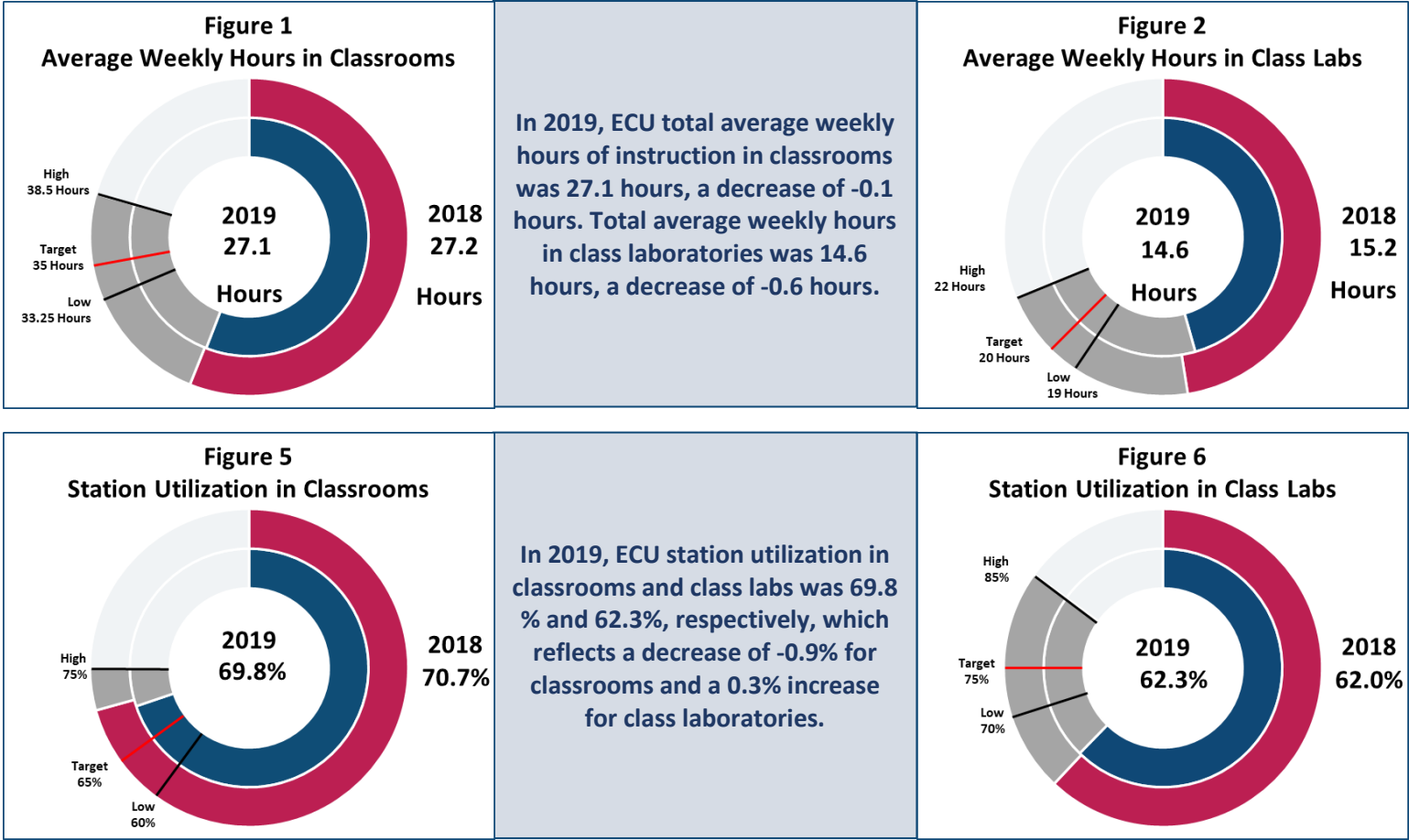
Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



East Carolina University Summary

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

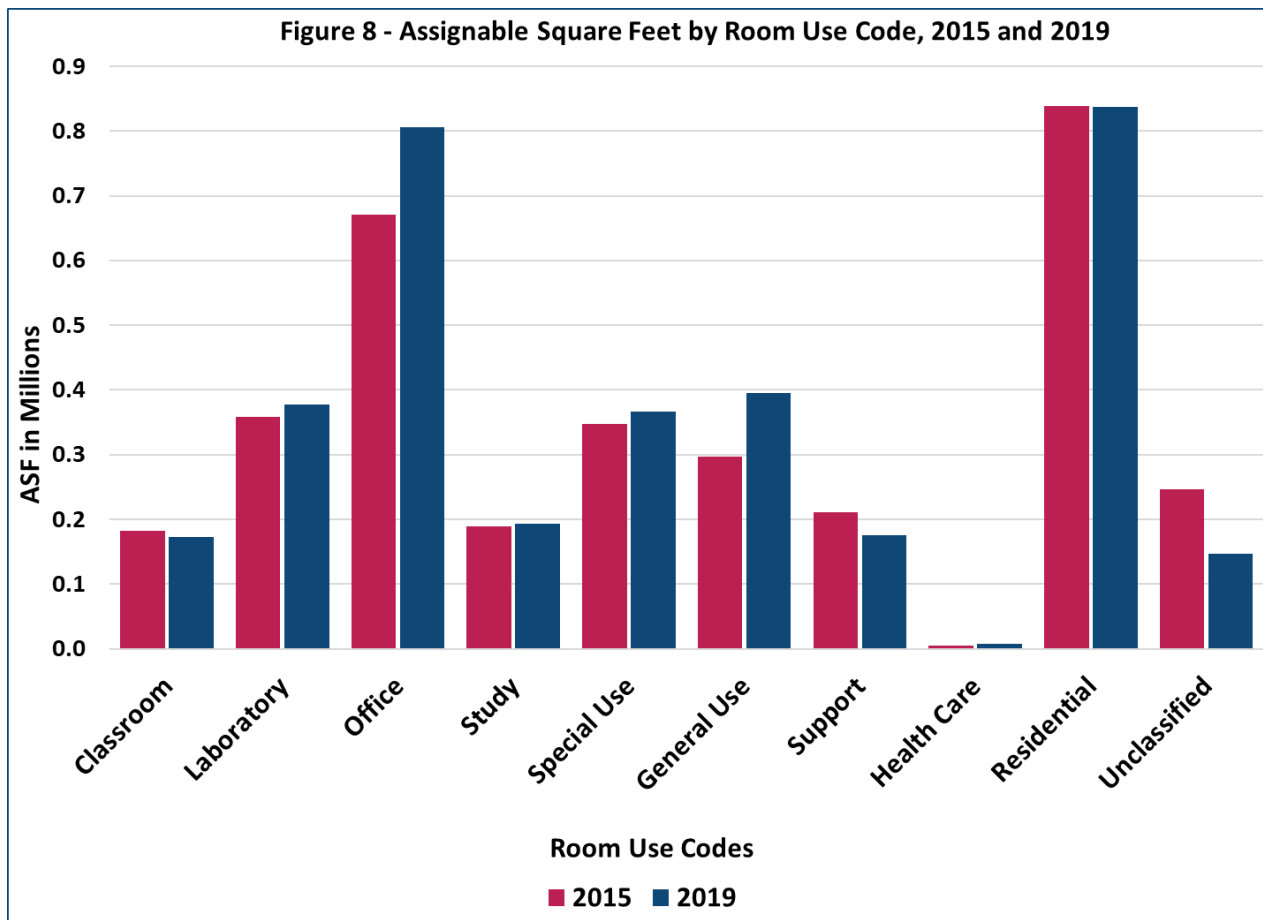
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at ECU decreased from 3,487,796 to 3,478,085, or -0.3% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	1,008,122	29.0%	29.4%	-0.4%
Research	108,538	3.1%	2.9%	0.2%
Public Service	9,669	0.3%	0.6%	-0.3%
Student Service	1,598,527	46.0%	42.1%	3.8%
Other	753,229	21.7%	25.0%	-3.3%



Building Characteristics

East Carolina University has 5,848,094 gross square feet of space comprised of 170 buildings (18 residential, 152 non-residential; 103 appropriated, 67 non-appropriated; 143 owned, 14 leased, 13 under other agreement terms) with 3,478,085 square feet of assignable space, having increased by 3.9% within the last five years. Since 2018, gross square footage has increased 440,009 SF, or 8.1%.

East Carolina University Building Characteristics	
170 Total Buildings	
	143 Owned
103 Appropriated	14 Leased
67 Non-appropriated	13 Other Agreement
170 Total	170 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

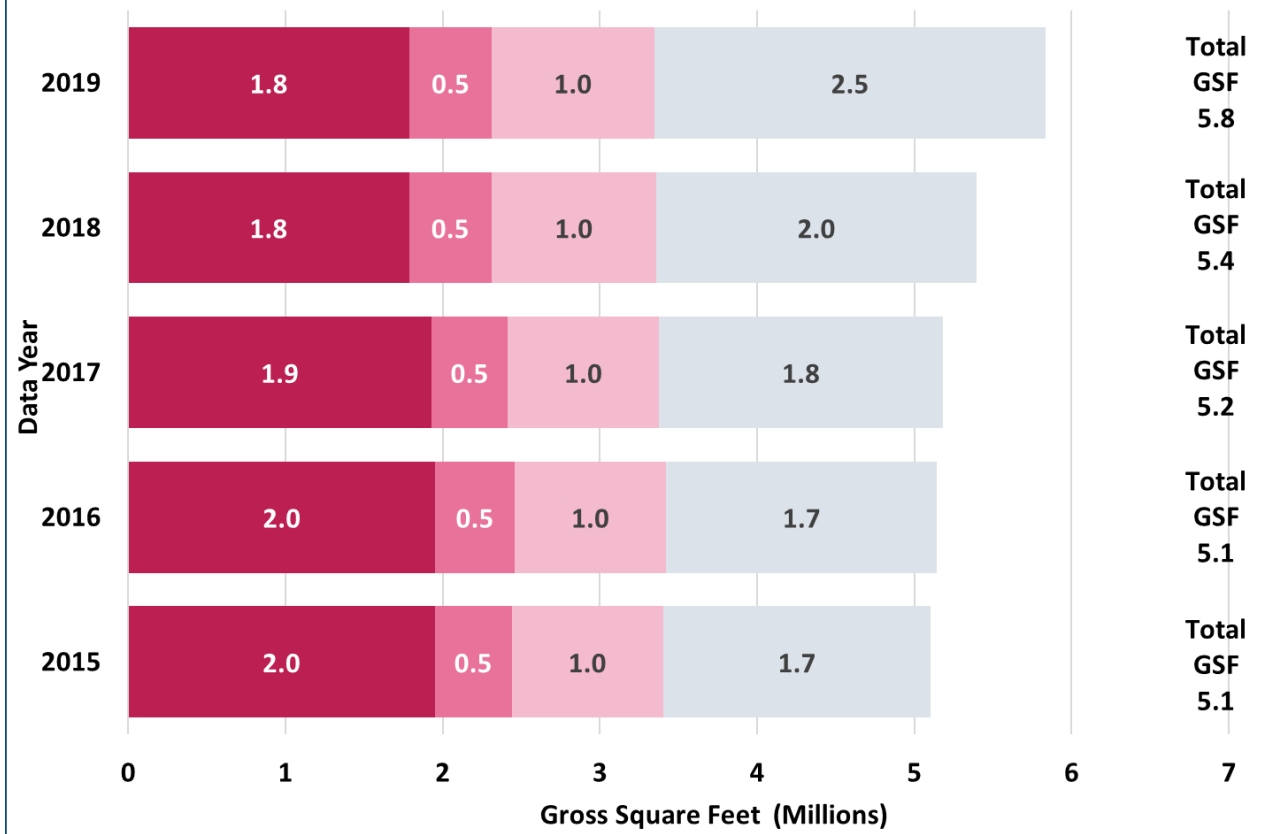


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019

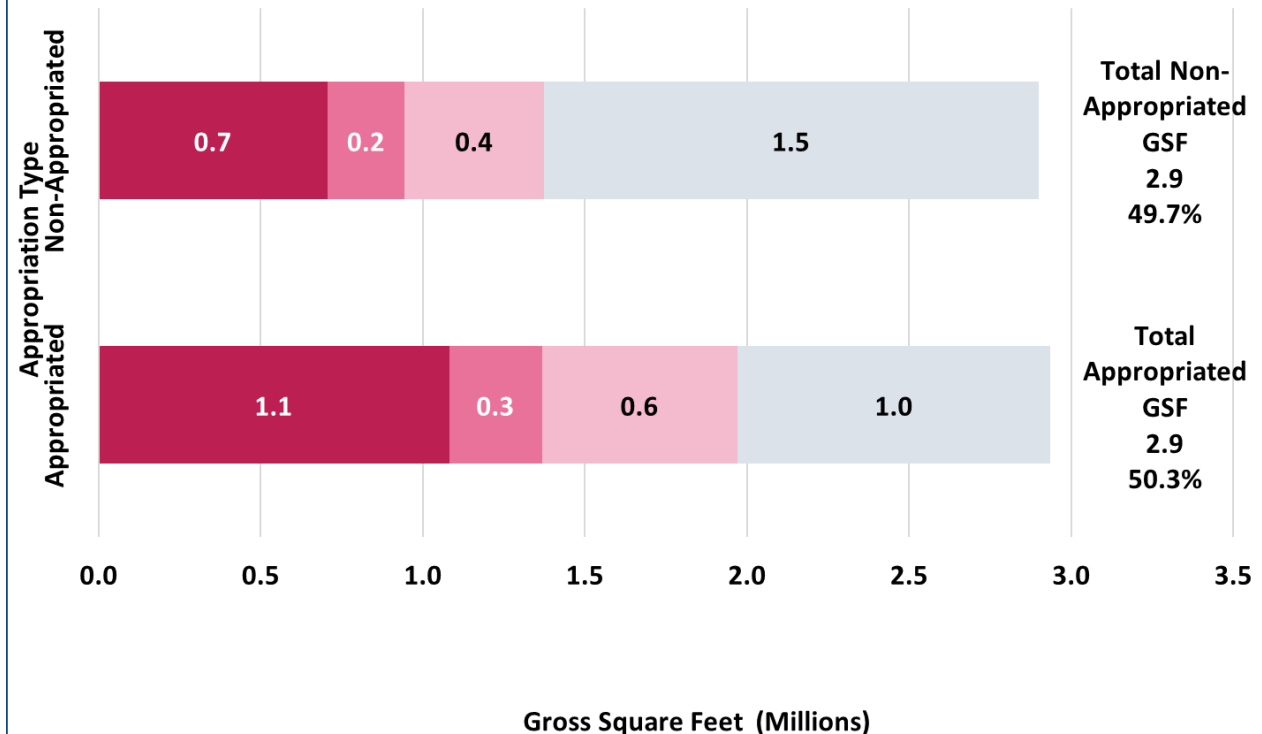


Figure 11 - Age of Buildings (Years), GSF

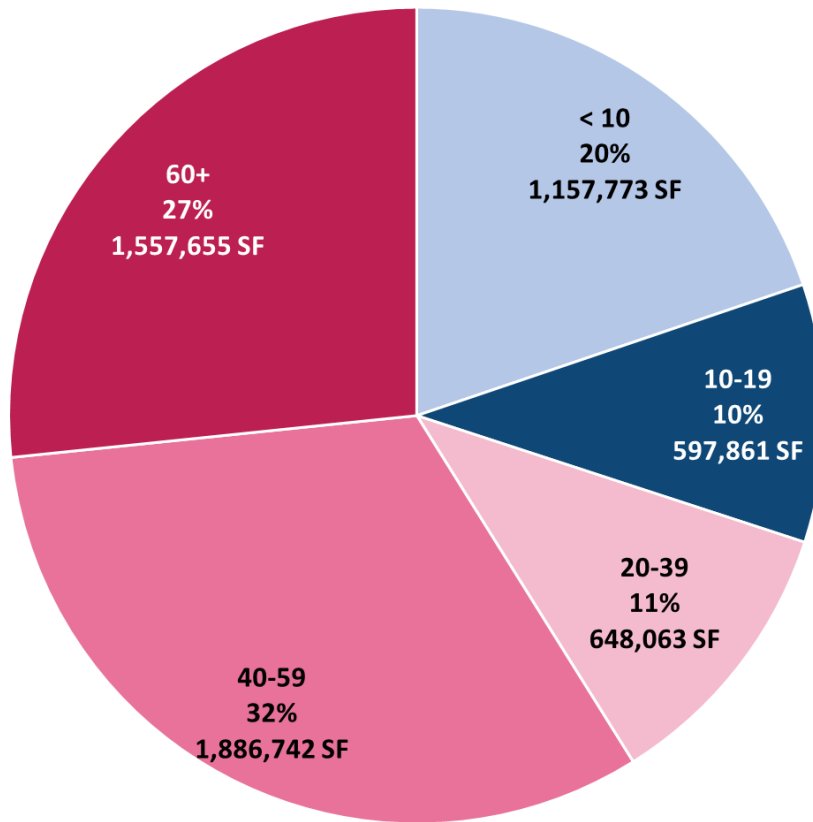
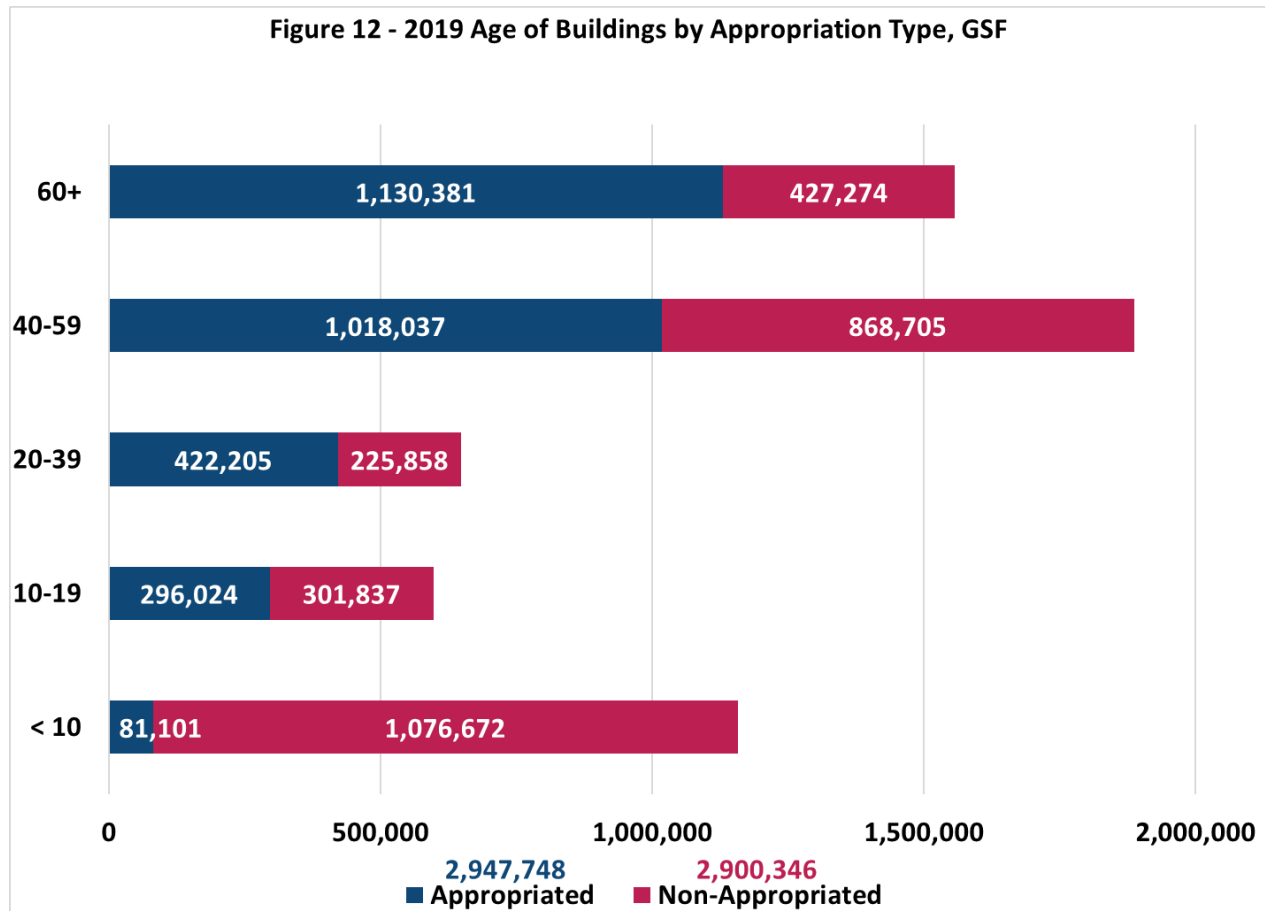


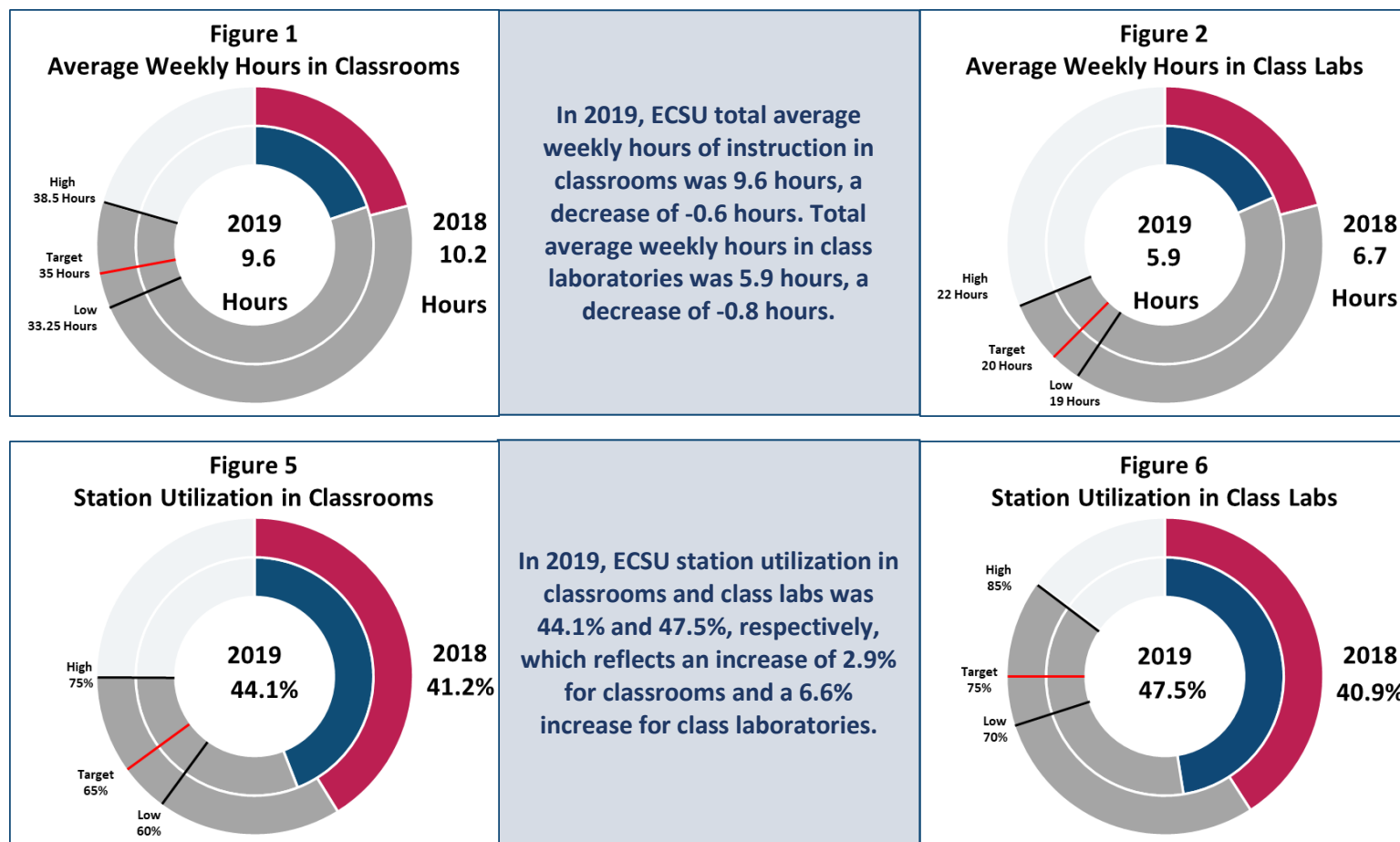
Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



Elizabeth City State University Summary

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

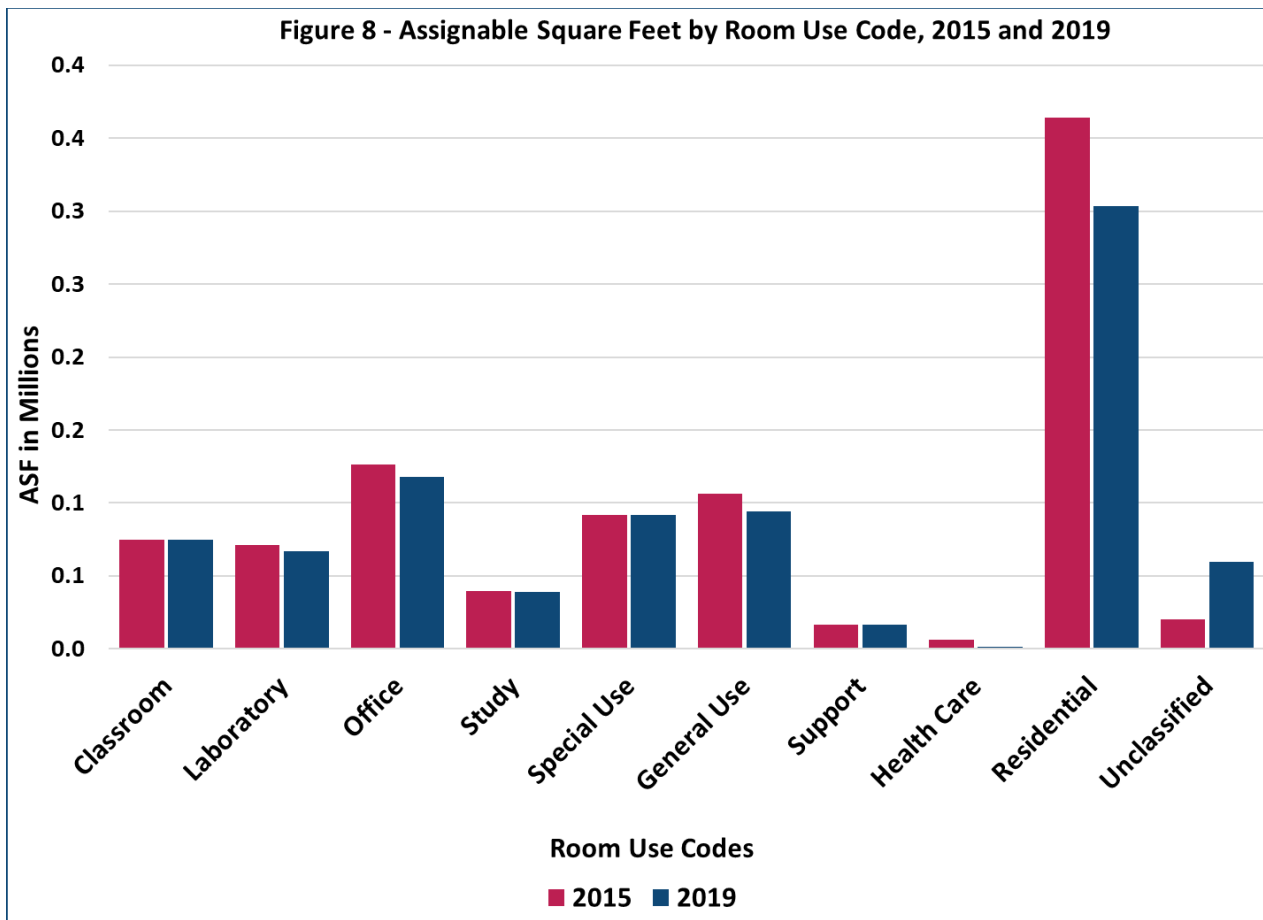
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at ECSU remained at 864,764 compared to the previous year.

Program	Assignable Space by Program			
	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	263,126	30.4%	30.2%	0.2%
Research	2,774	0.3%	0.3%	0.0%
Public Service	18,787	2.2%	2.1%	0.1%
Student Service	398,958	46.1%	53.8%	-7.7%
Other	181,119	20.9%	13.6%	7.3%



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 2018, 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
<hr/> 52 Total	<hr/> 52 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

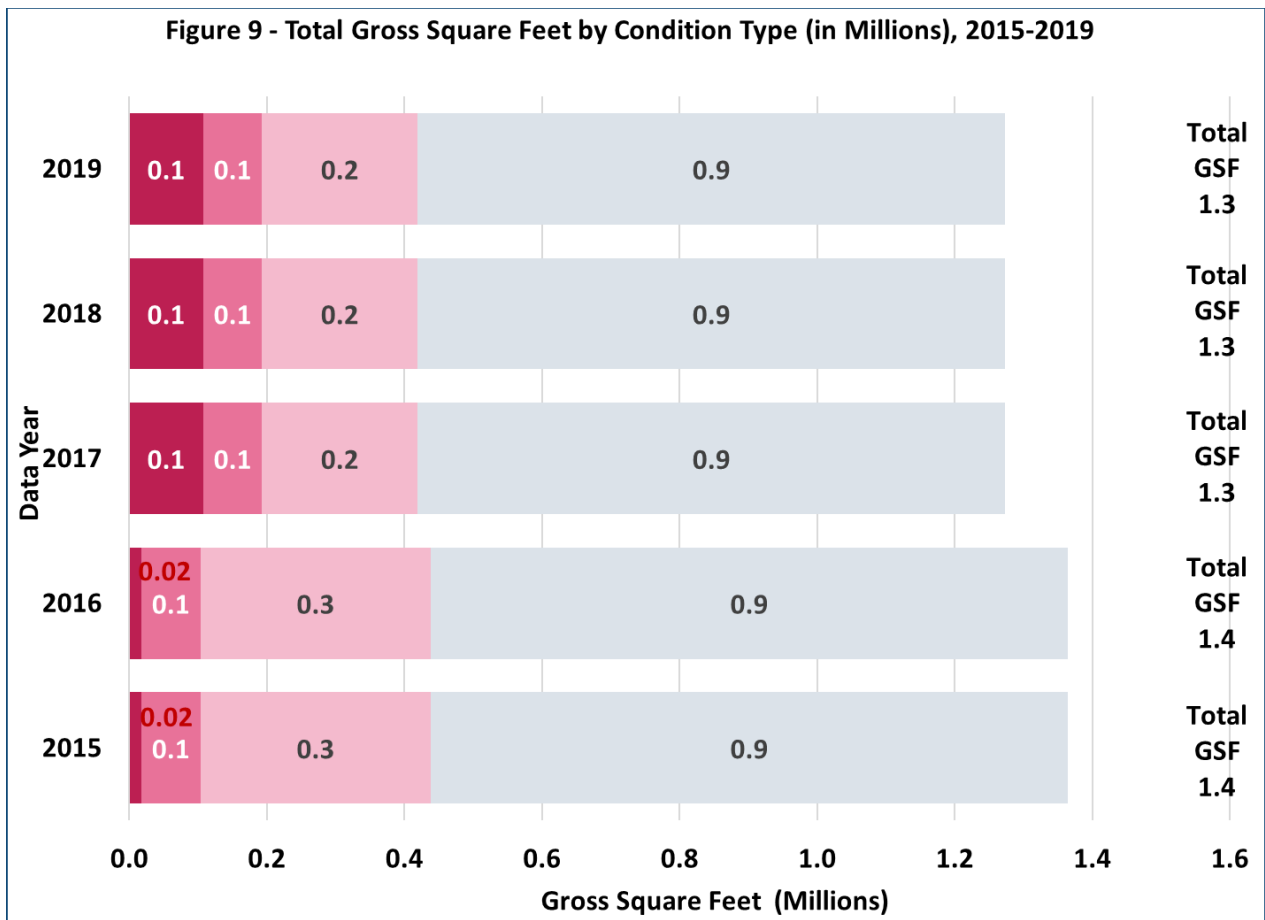


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019

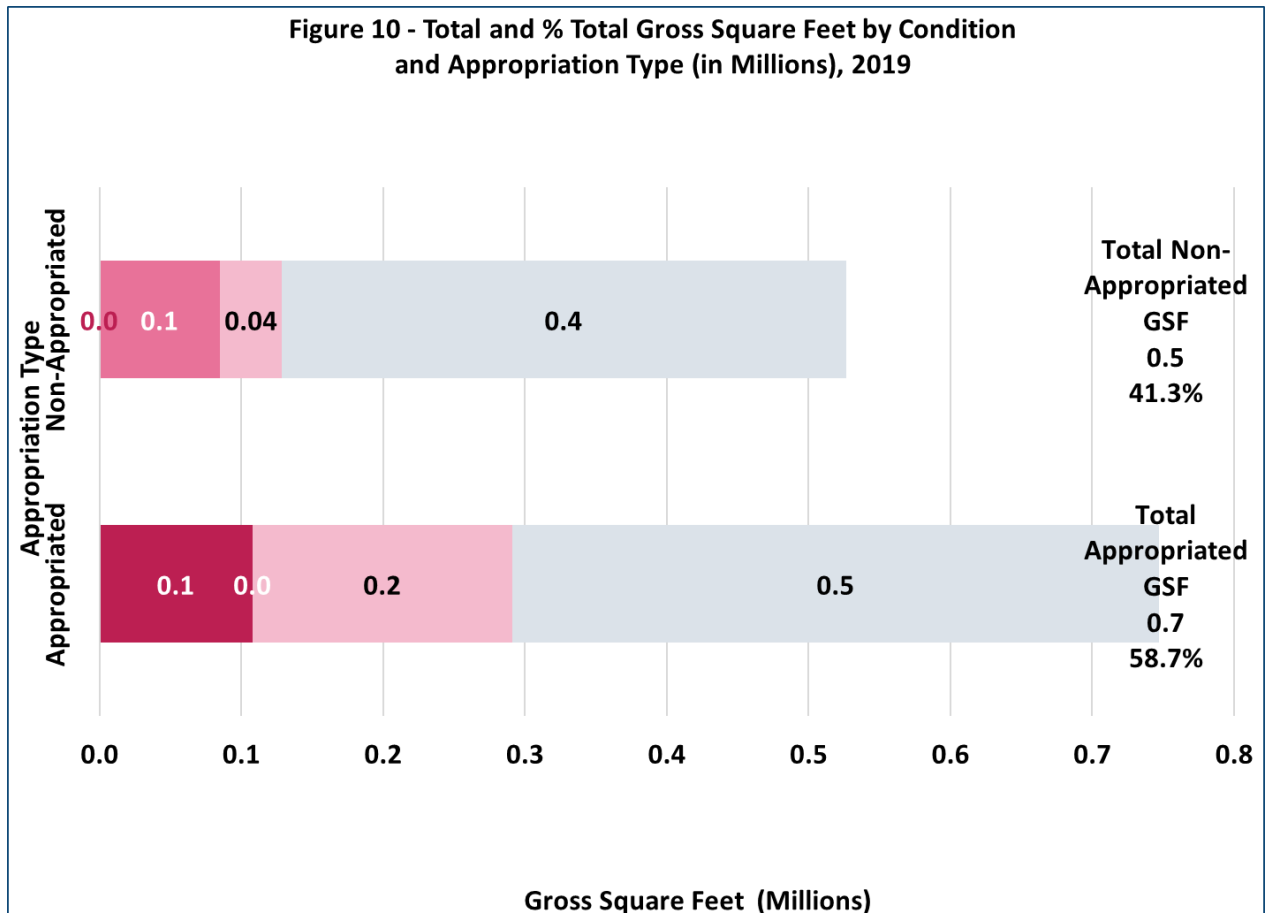


Figure 11 - Age of Buildings (Years), GSF

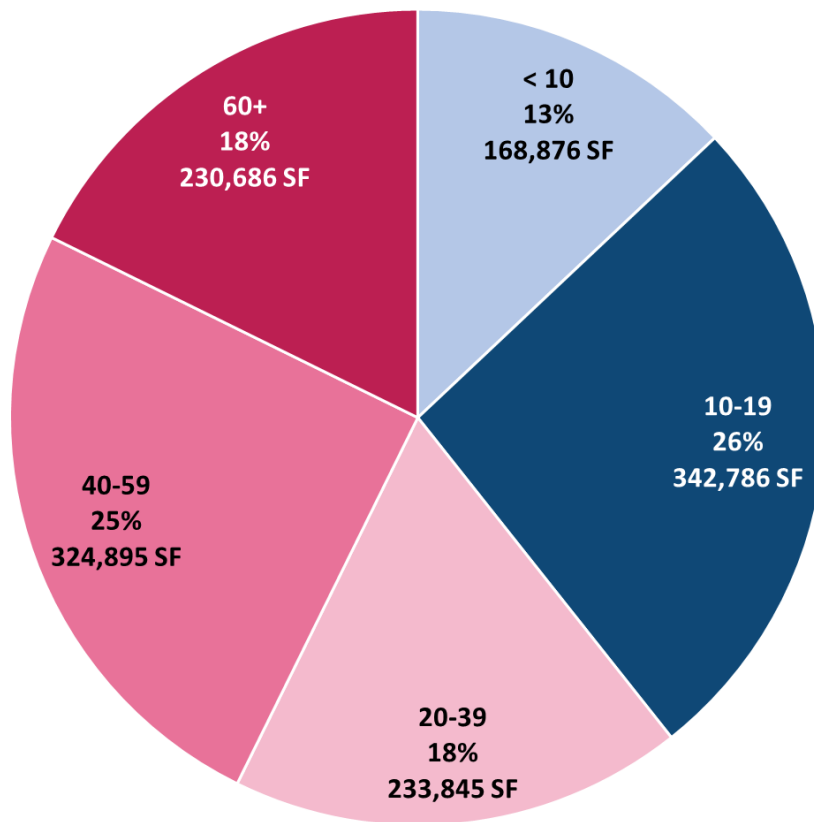
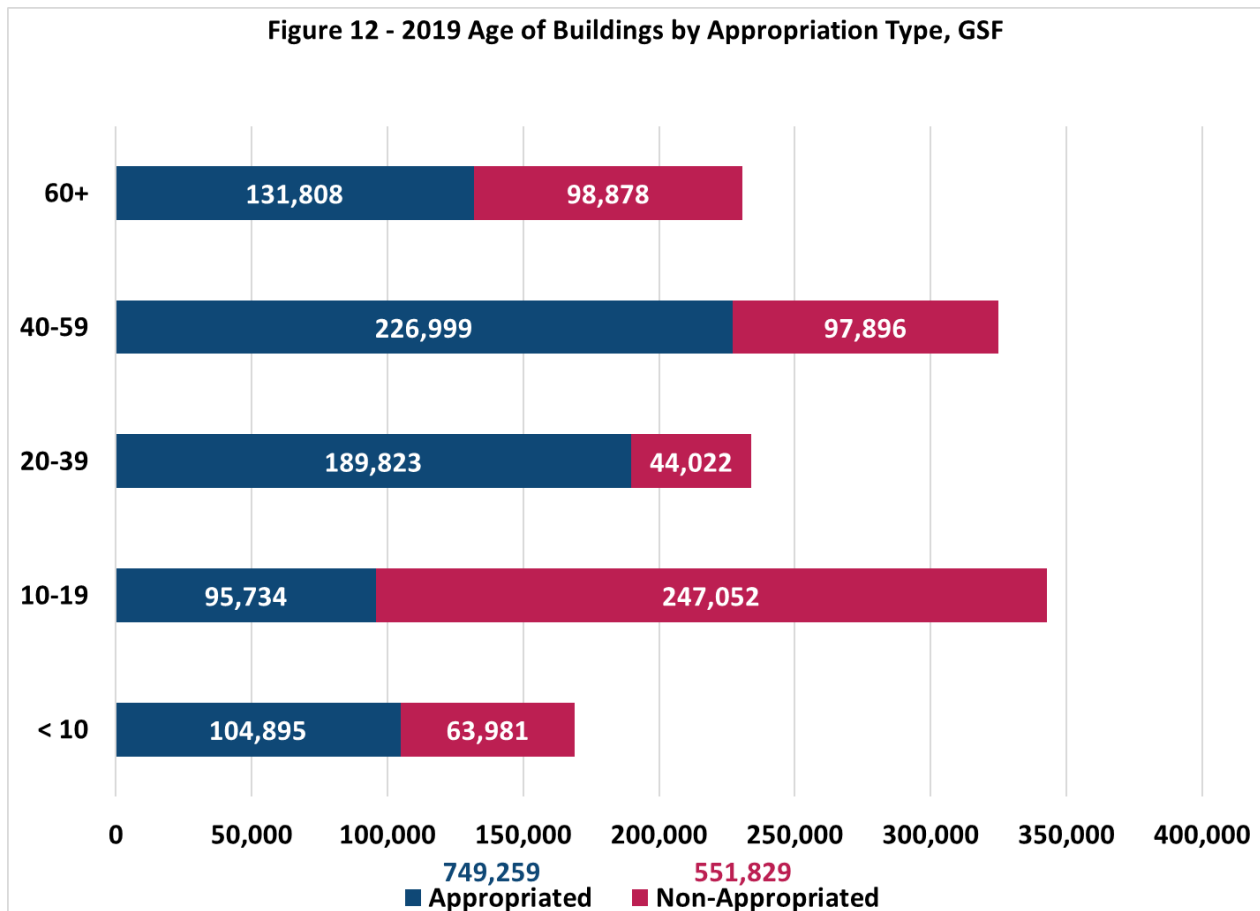


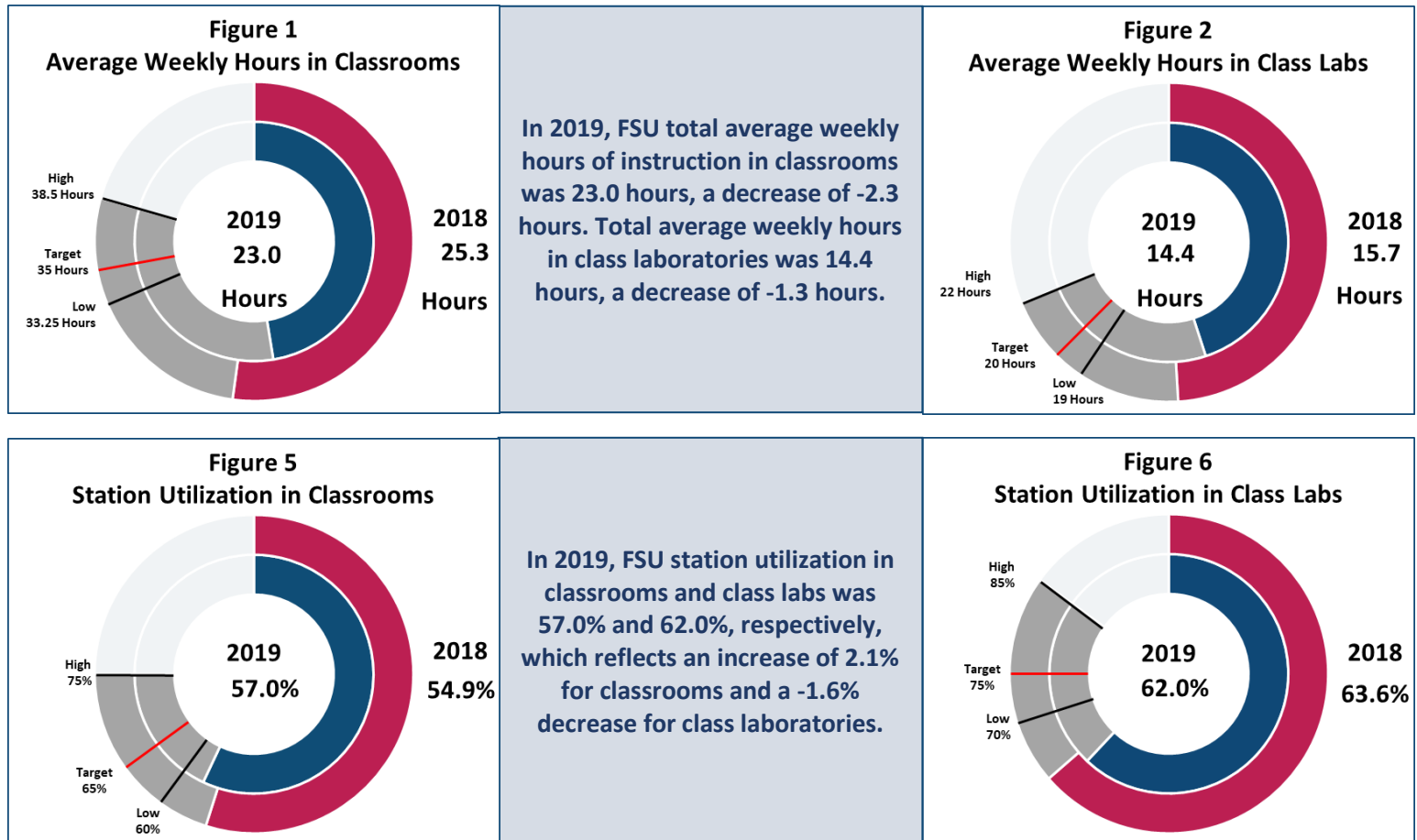
Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



Fayetteville State University Summary

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

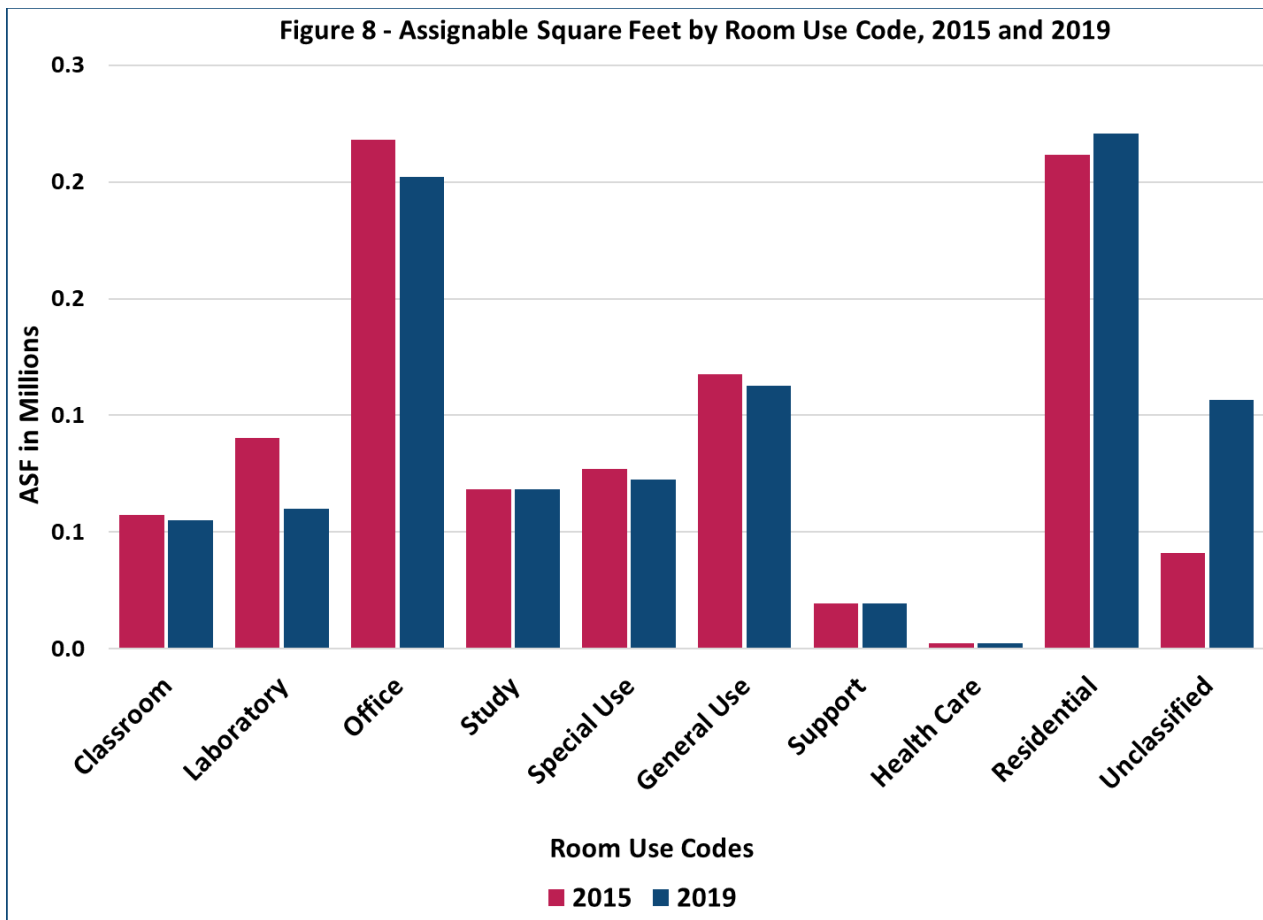
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at FSU increased from 919,527 to 919,639, or 0.01% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	258,420	28.1%	33.8%	-5.7%
Research	9,263	1.0%	1.8%	-0.8%
Public Service	1,013	0.1%	0.1%	0.0%
Student Service	378,209	41.1%	40.8%	0.3%
Other	272,734	29.7%	23.1%	6.6%



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 1.8% within the last five years. Since 2018, 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
<u>50 Total</u>	<u>50 Total</u>

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

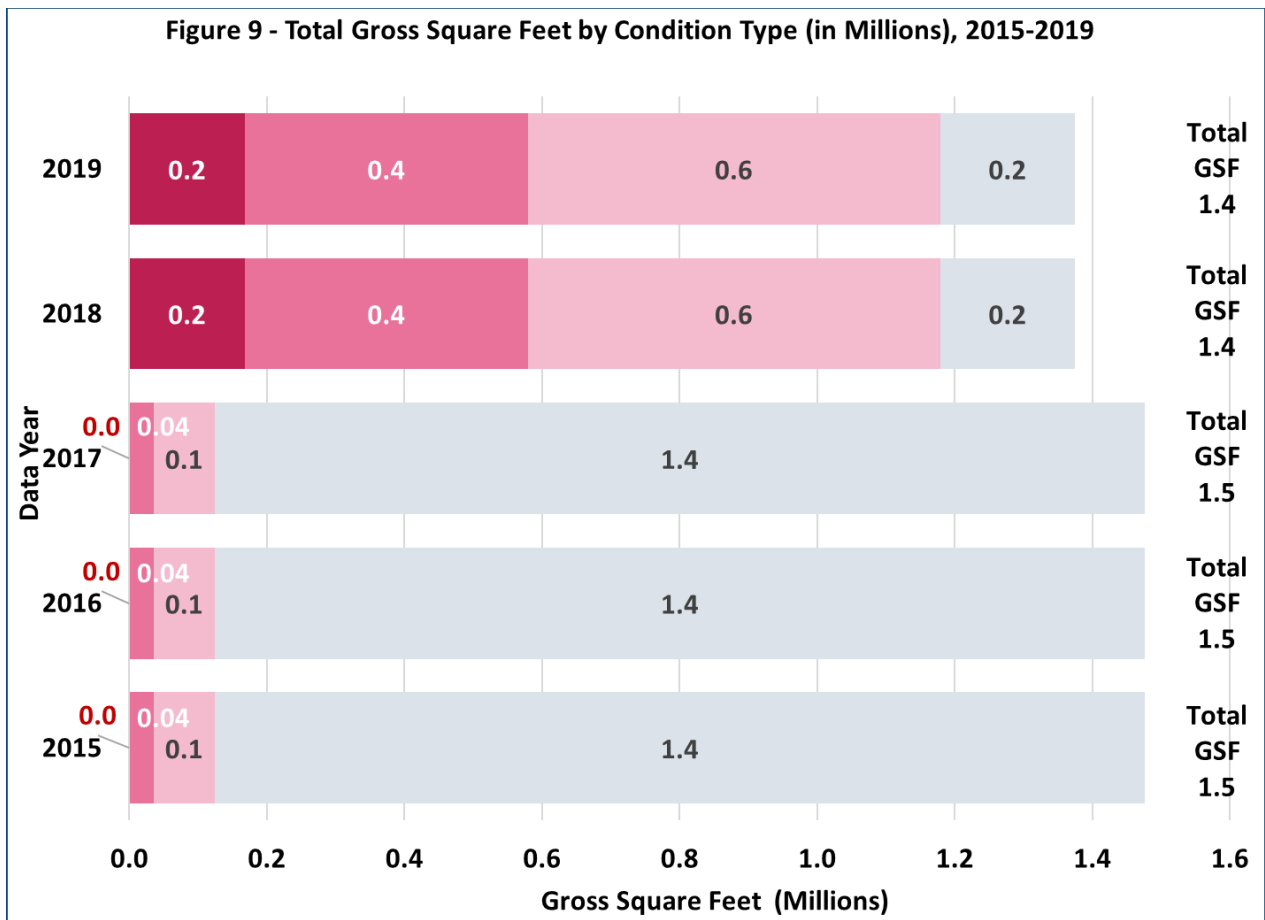
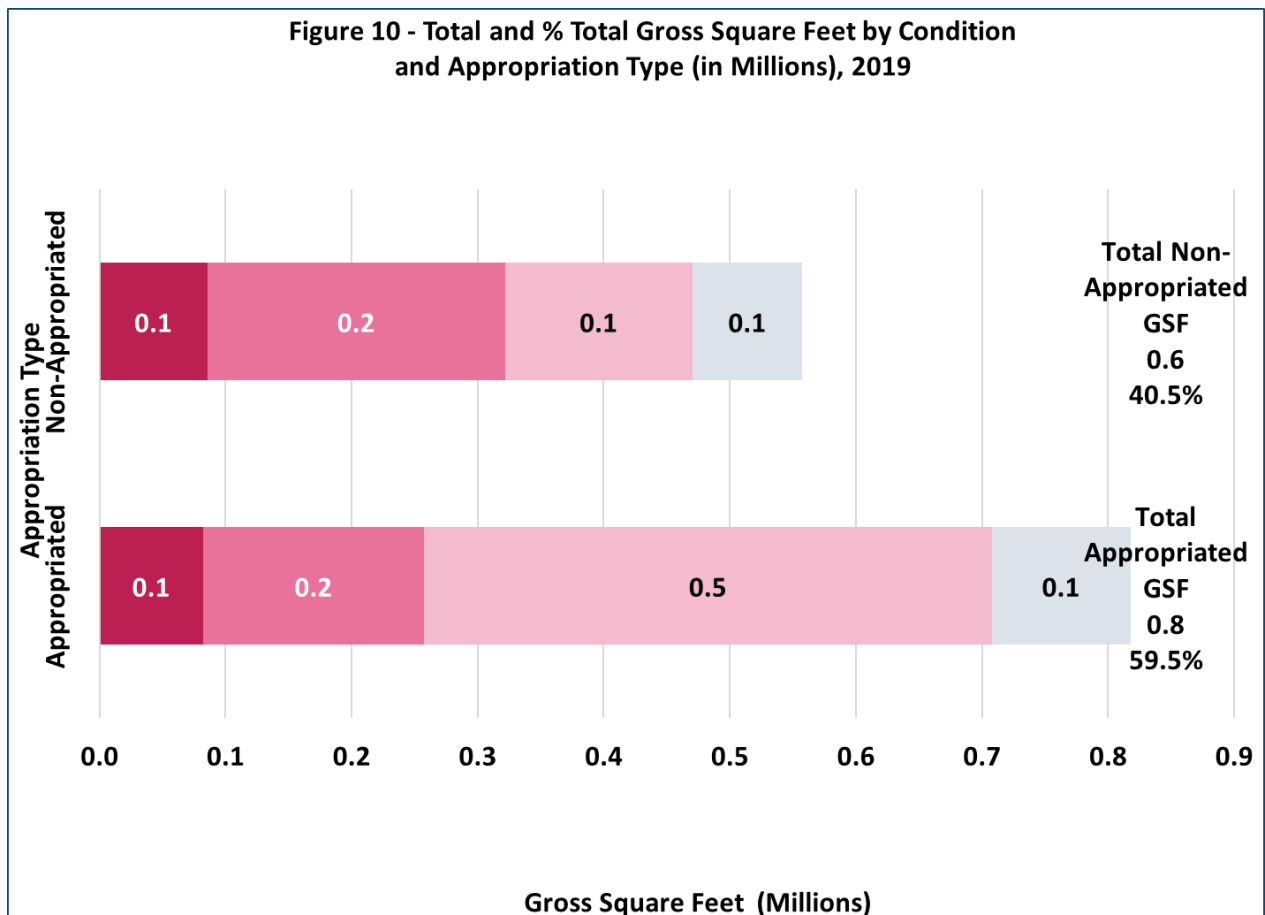


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019



Fayetteville State University Summary

Figure 11 - Age of Buildings (Years), GSF

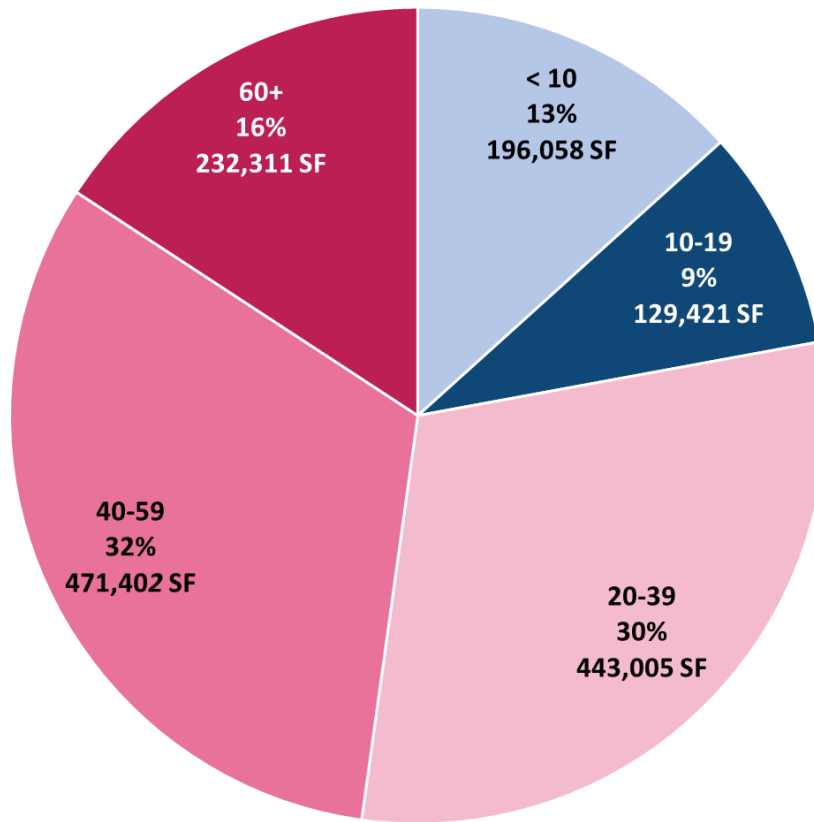
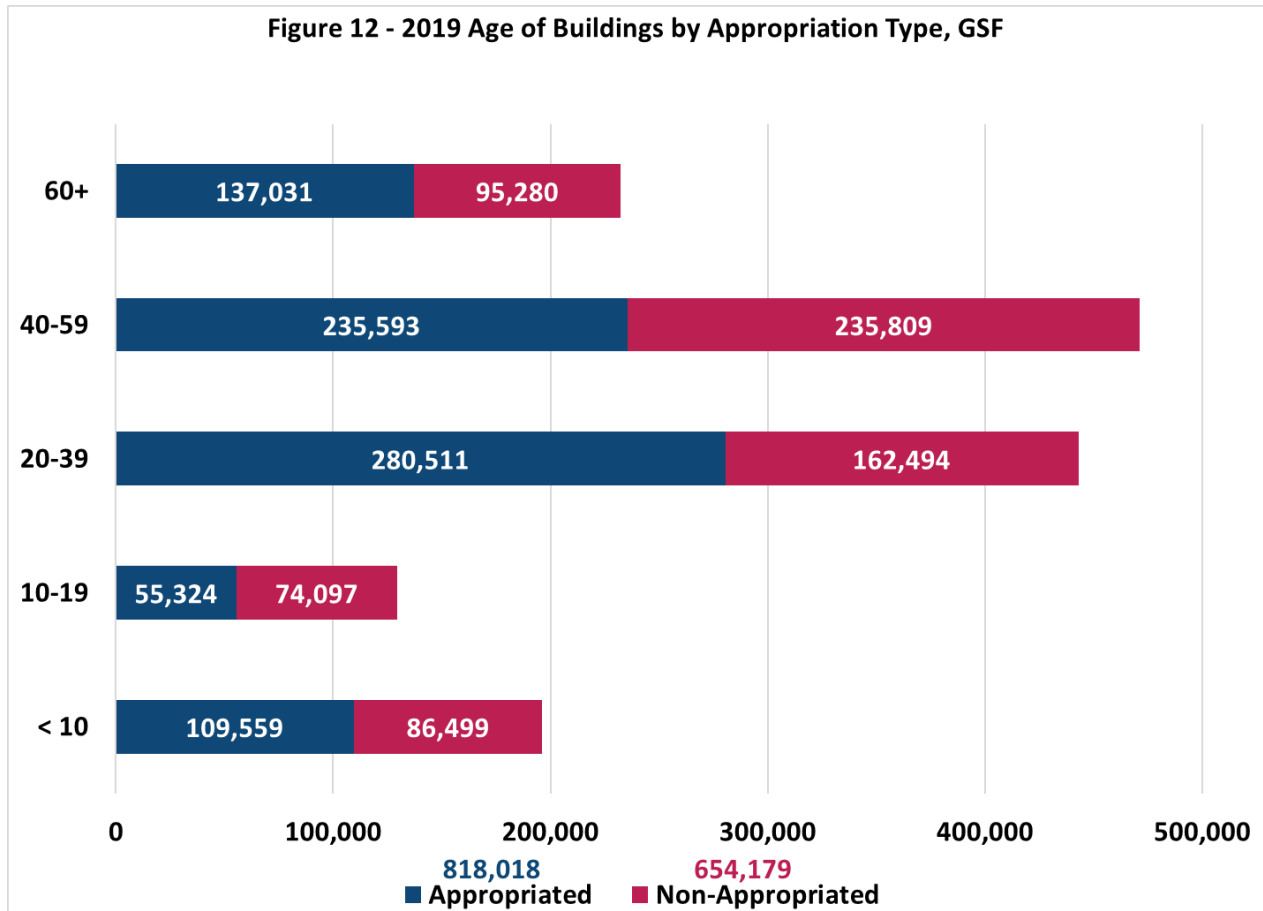
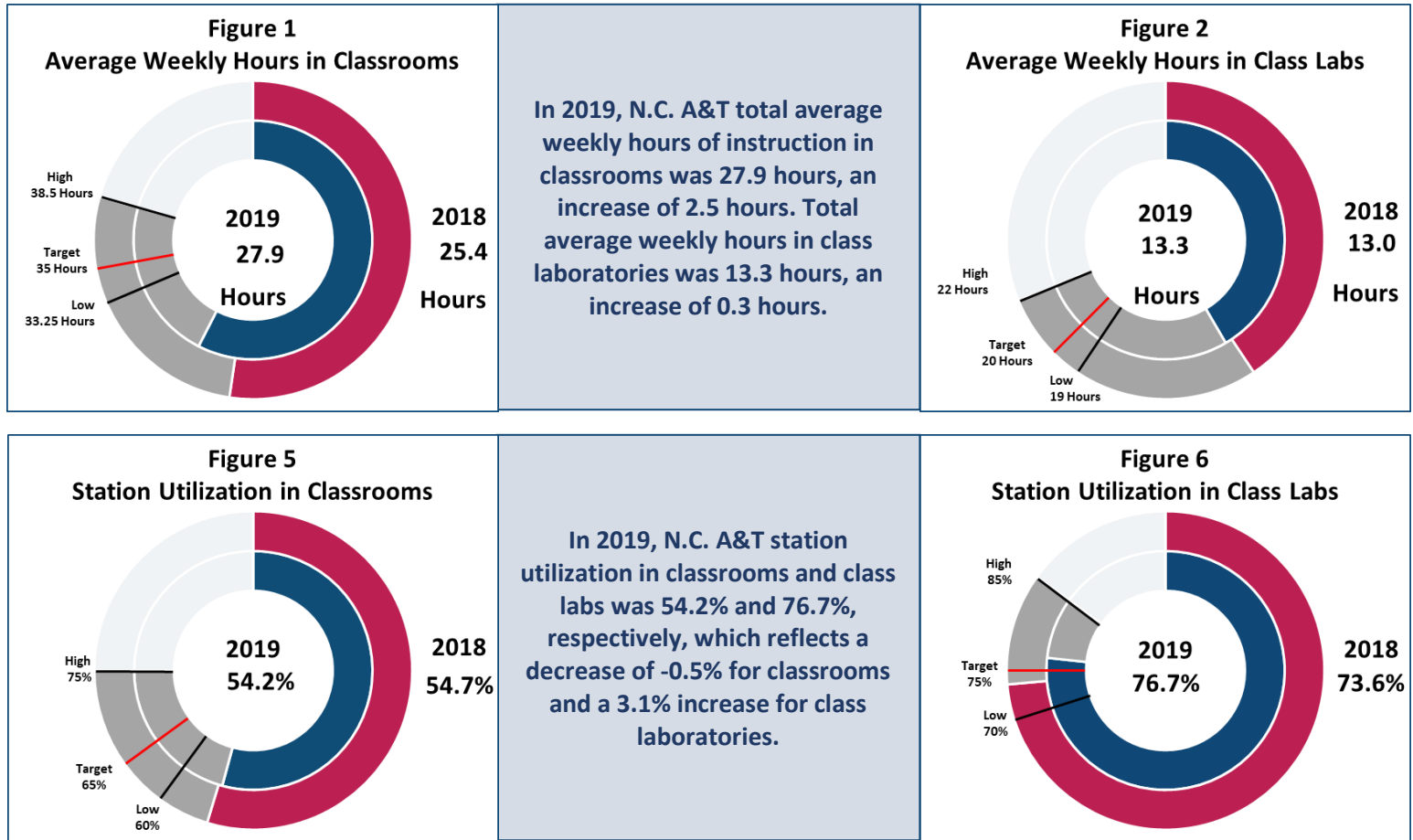


Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



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

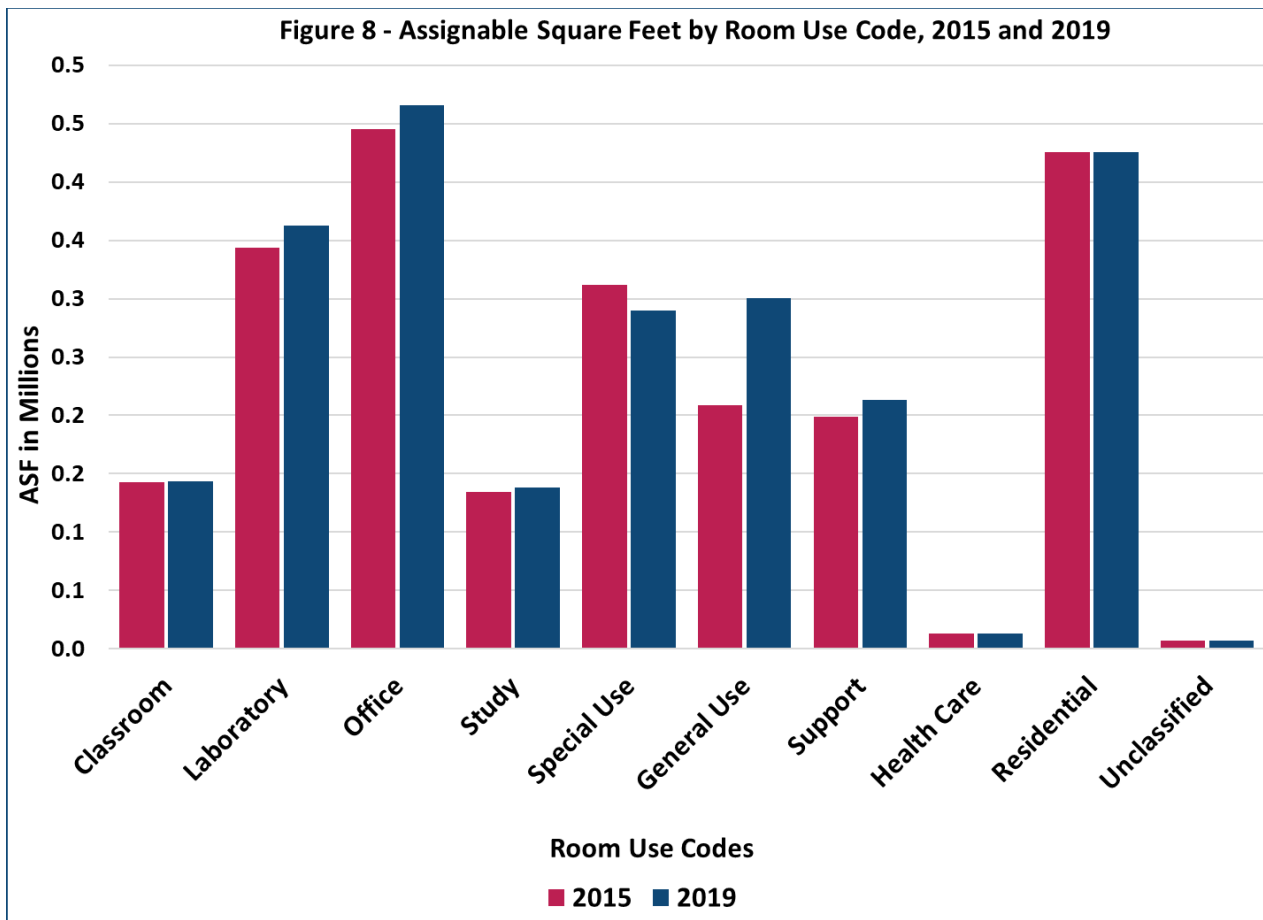
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at N.C. A&T increased from 2,356,324 to 2,359,182, or 0.1% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	731,880	31.0%	32.6%	-1.5%
Research	180,217	7.6%	8.0%	-0.4%
Public Service	24,419	1.0%	1.1%	-0.1%
Student Service	793,311	33.6%	31.4%	2.3%
Other	629,355	26.7%	65.6%	-38.9%



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 5.8% within the last five years. Since 2018, 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), 2015-2019

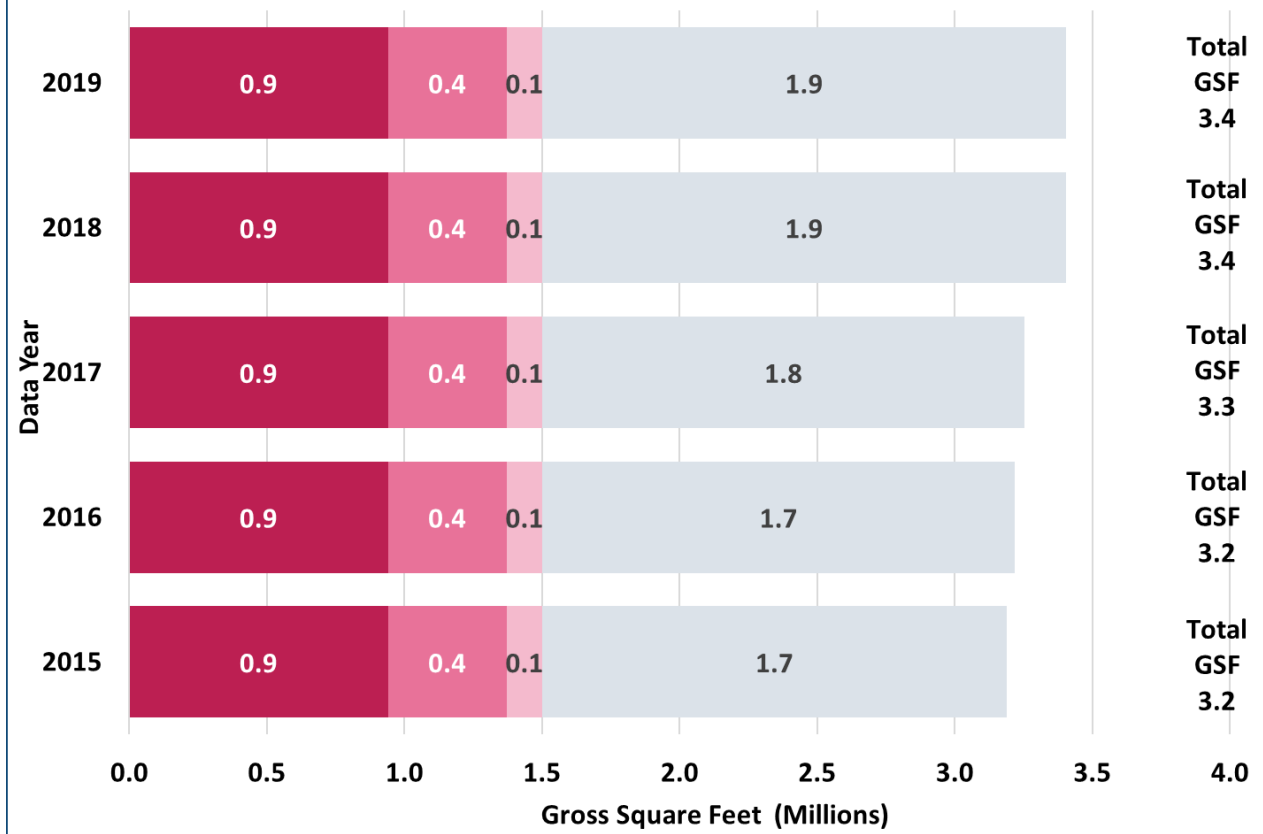


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019

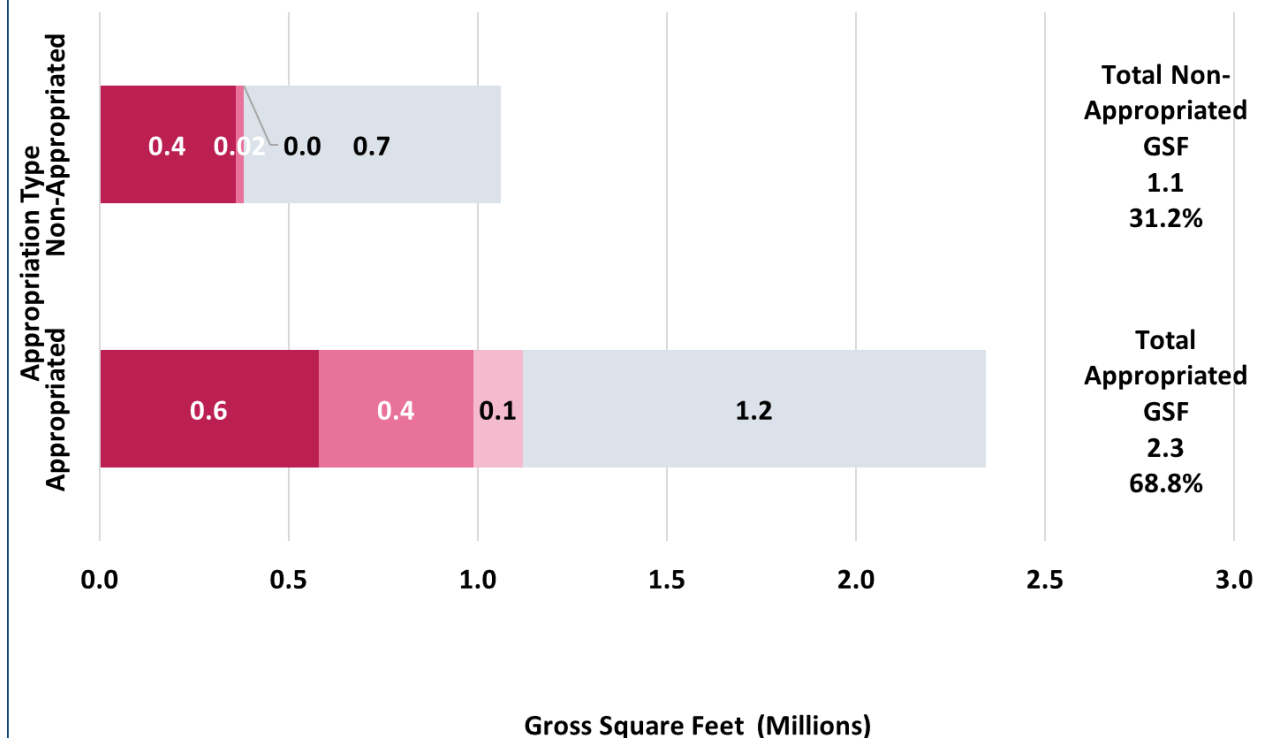


Figure 11 - Age of Buildings (Years), GSF

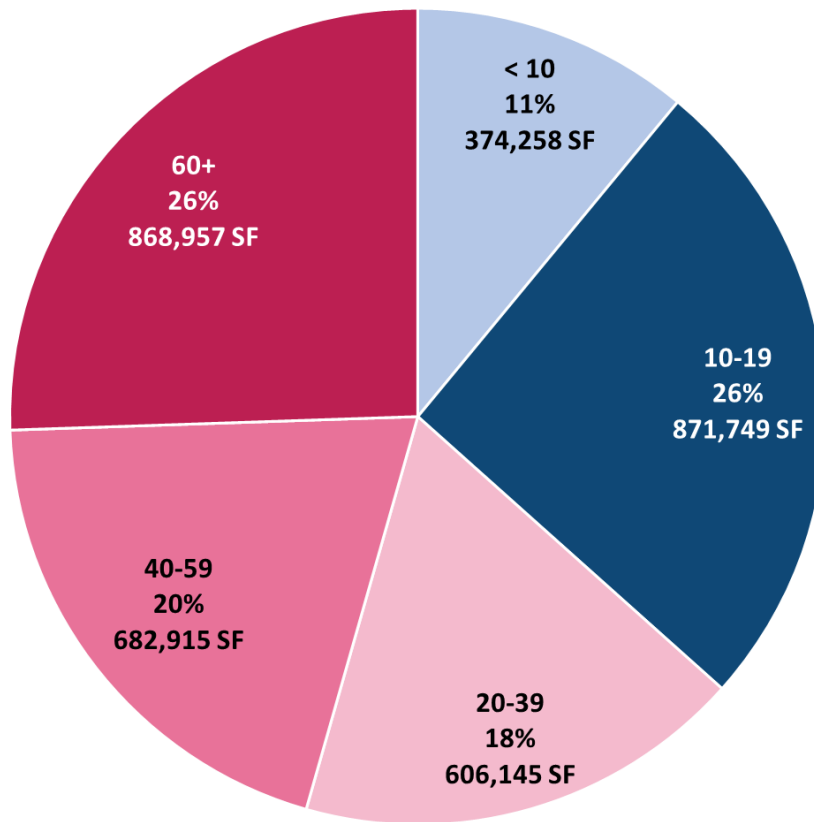
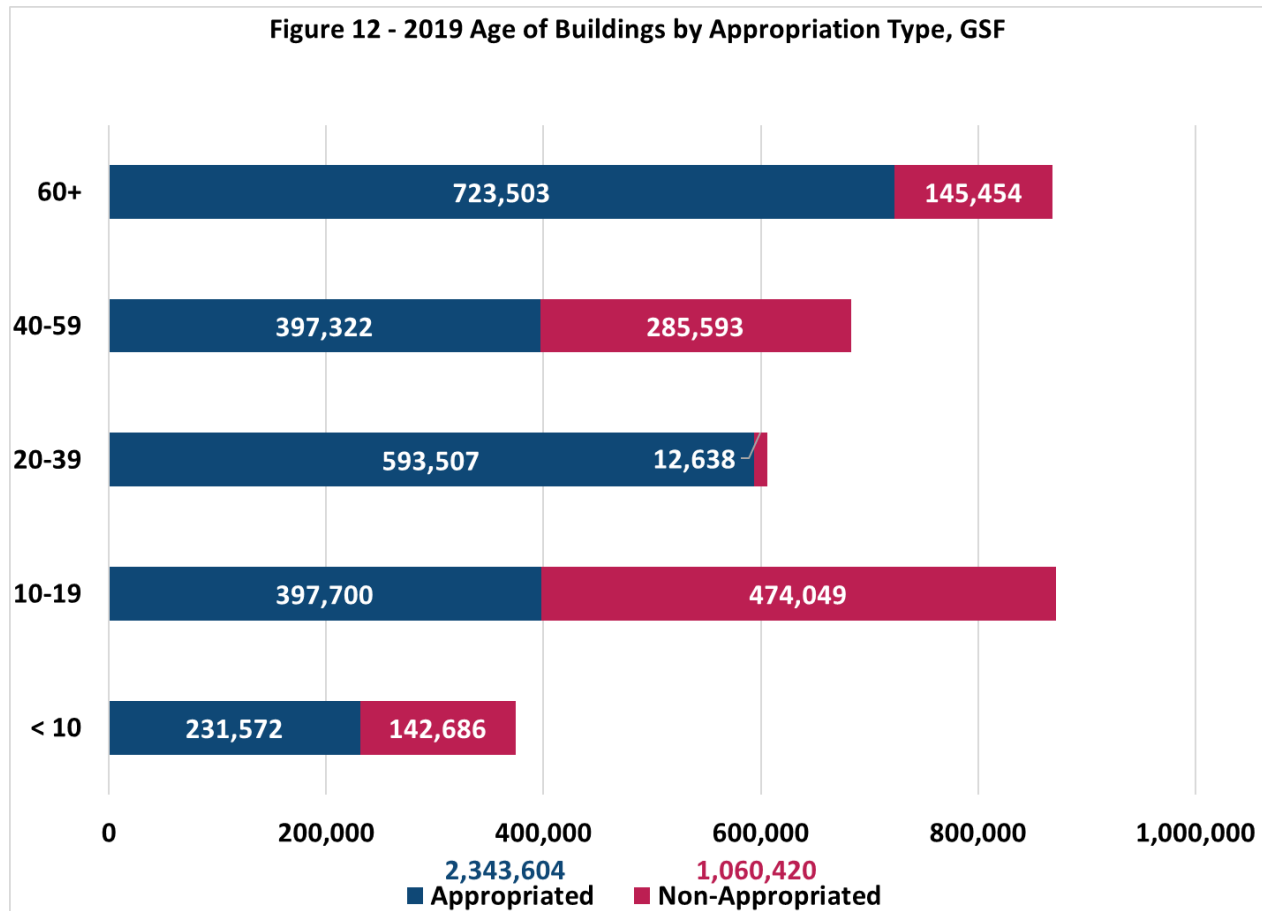
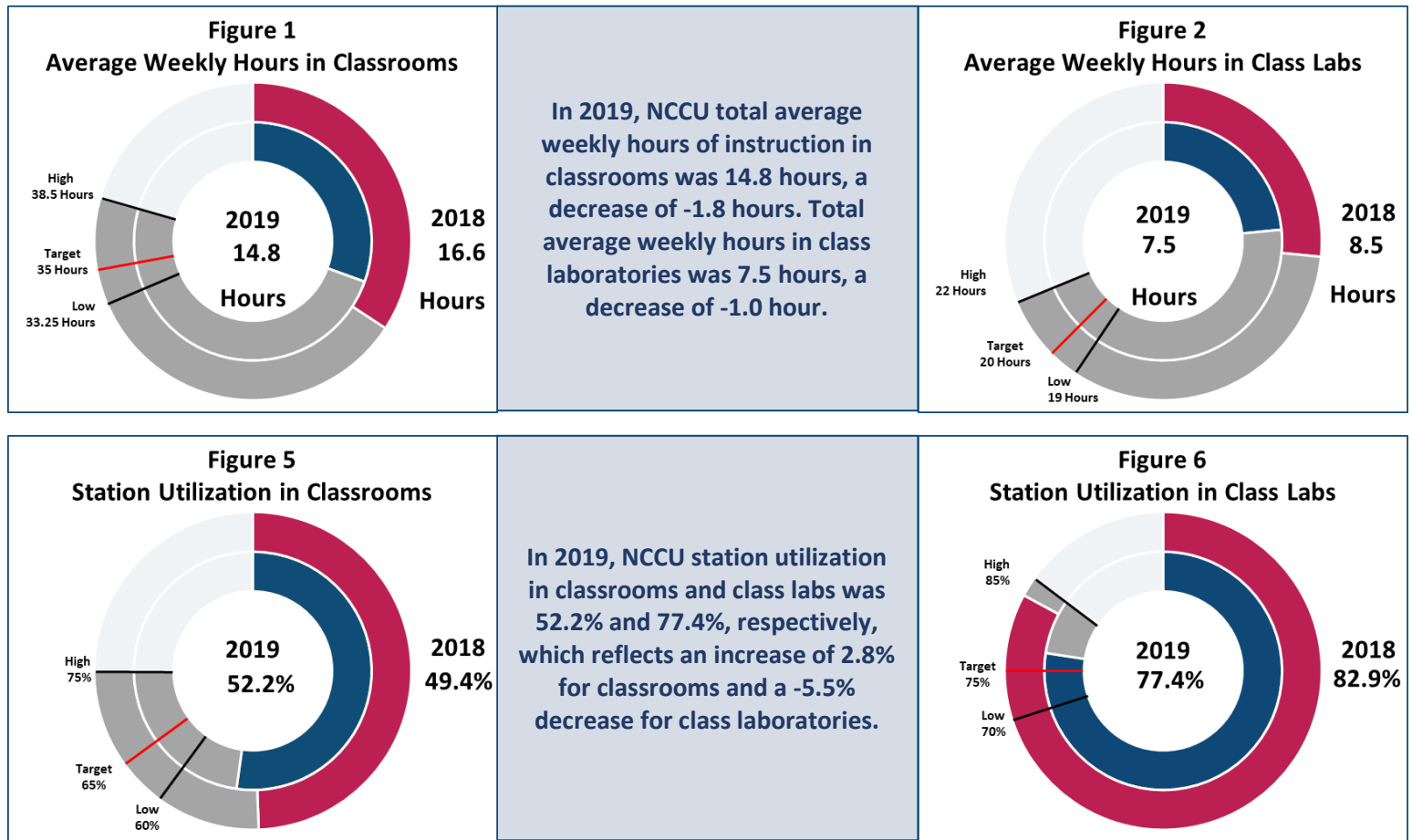


Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



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

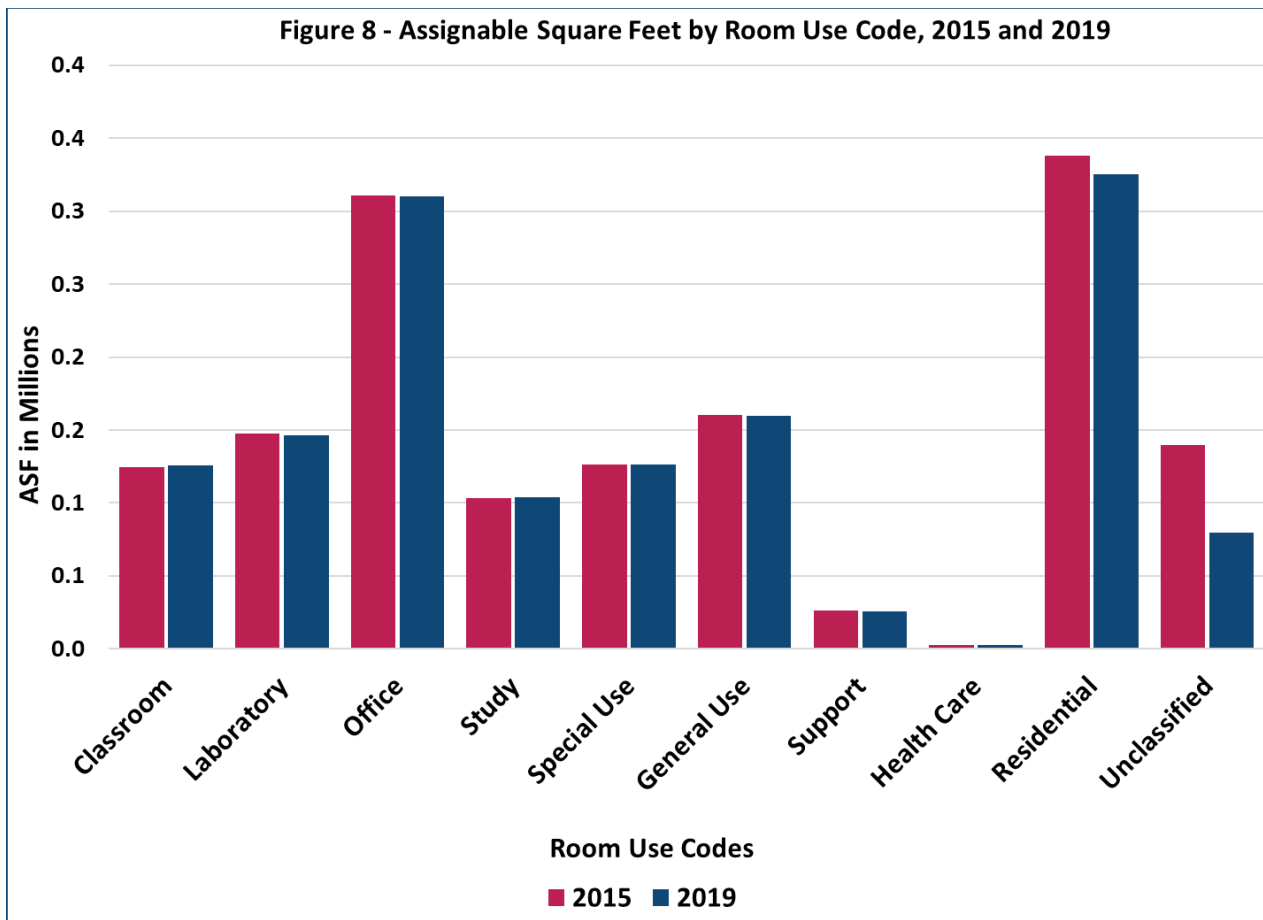
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at NCCU decreased from 1,469,937 to 1,404,771, or -4.4% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	530,589	37.8%	35.4%	2.4%
Research	32,962	2.3%	2.2%	0.1%
Public Service	8,275	0.6%	0.6%	0.0%
Student Service	526,135	37.5%	36.5%	1.0%
Other	306,810	21.8%	40.9%	-19.1%



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 -5.0% within the last five years. Since 2018, gross square footage has decreased by 77,938 SF, or 3.4%.

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), 2015-2019

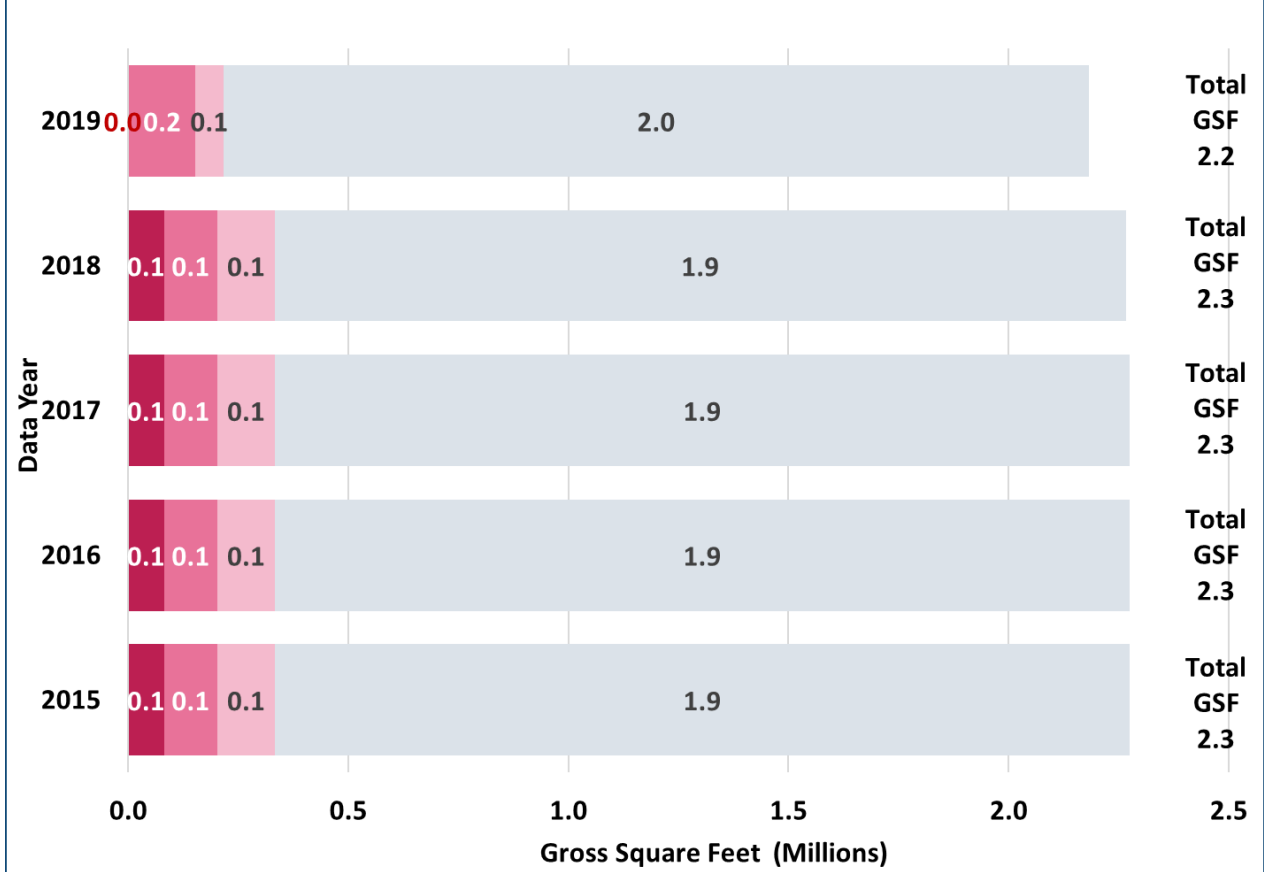
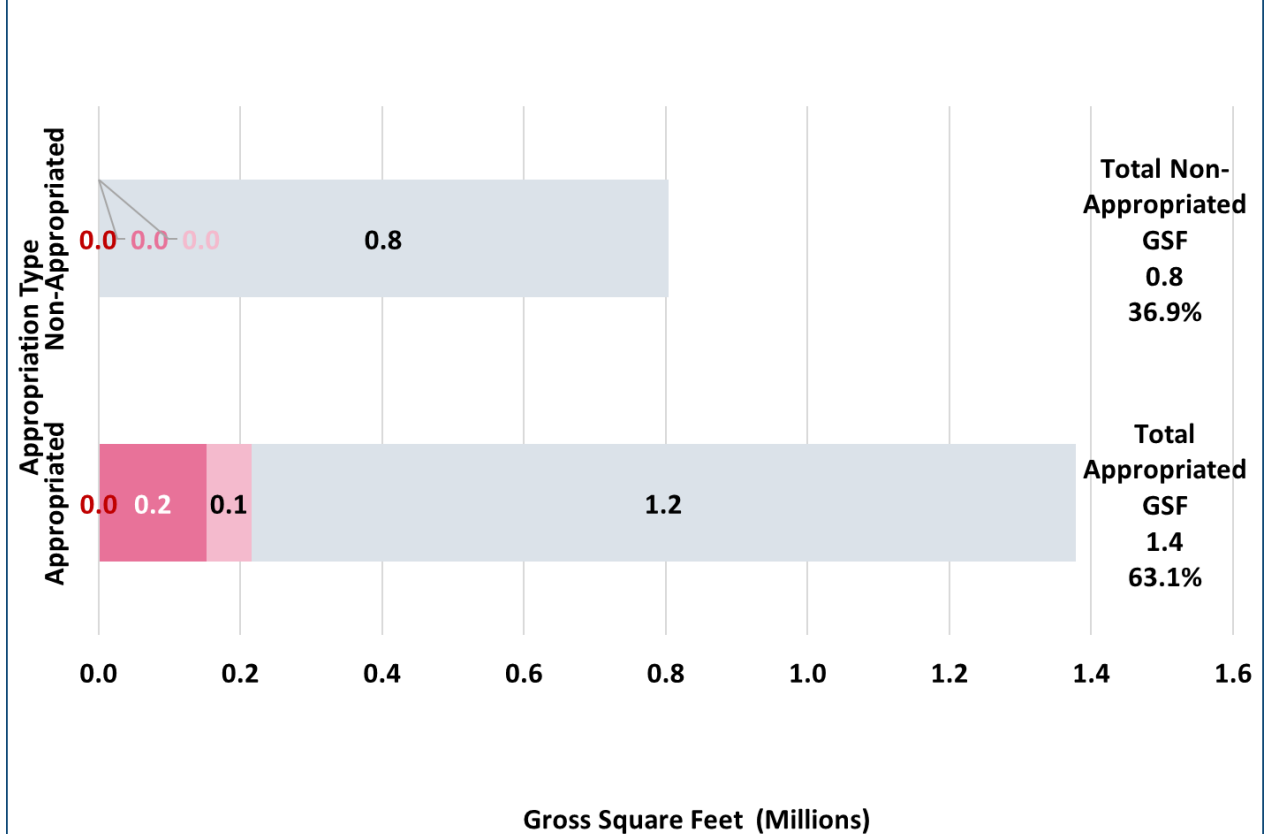


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019



North Carolina Central University Summary

Figure 11 - Age of Buildings (Years), GSF

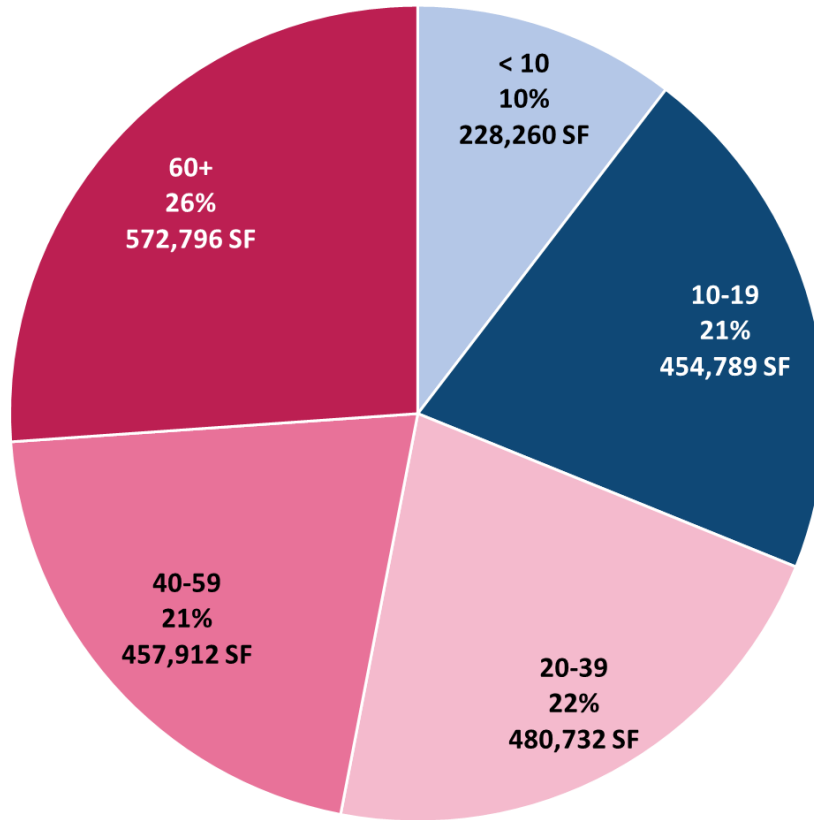
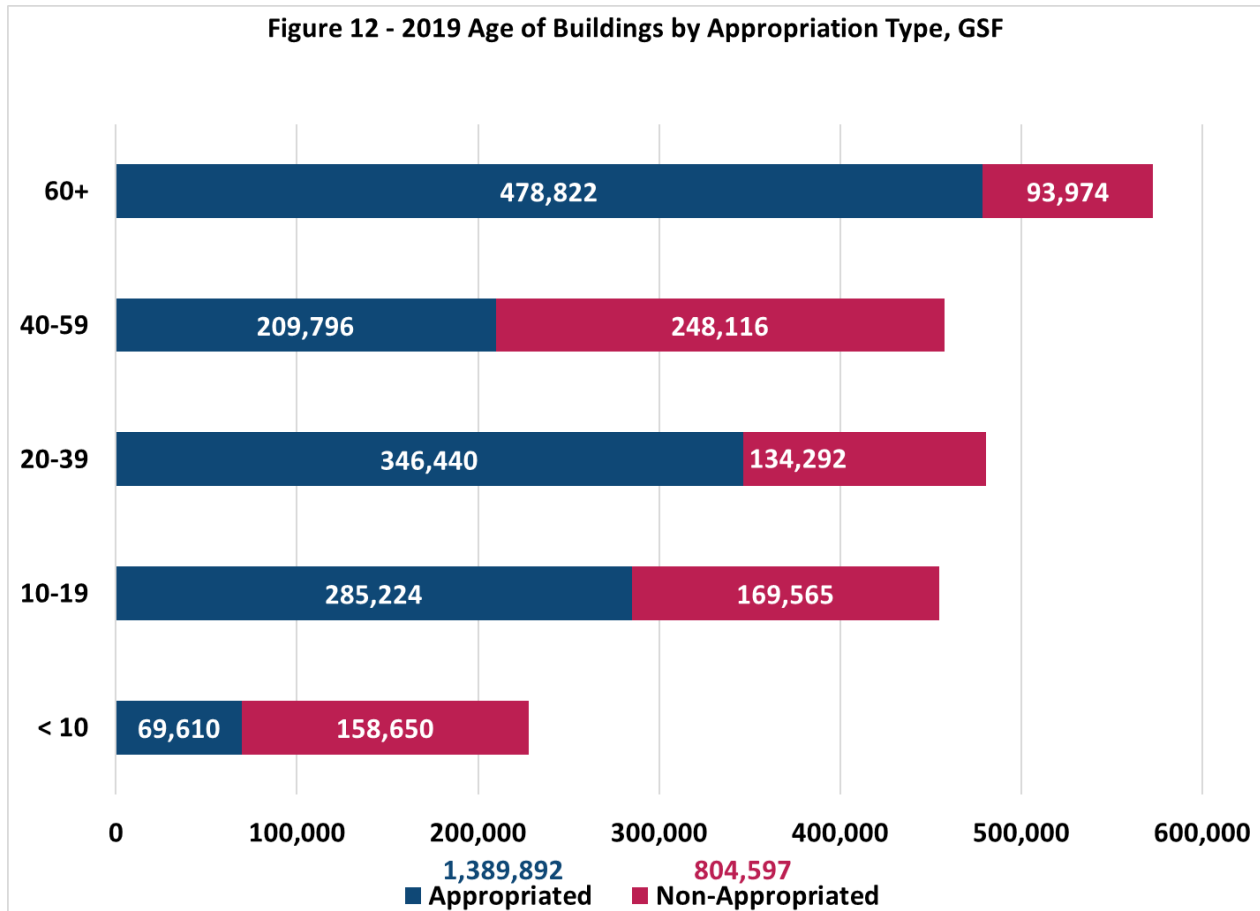


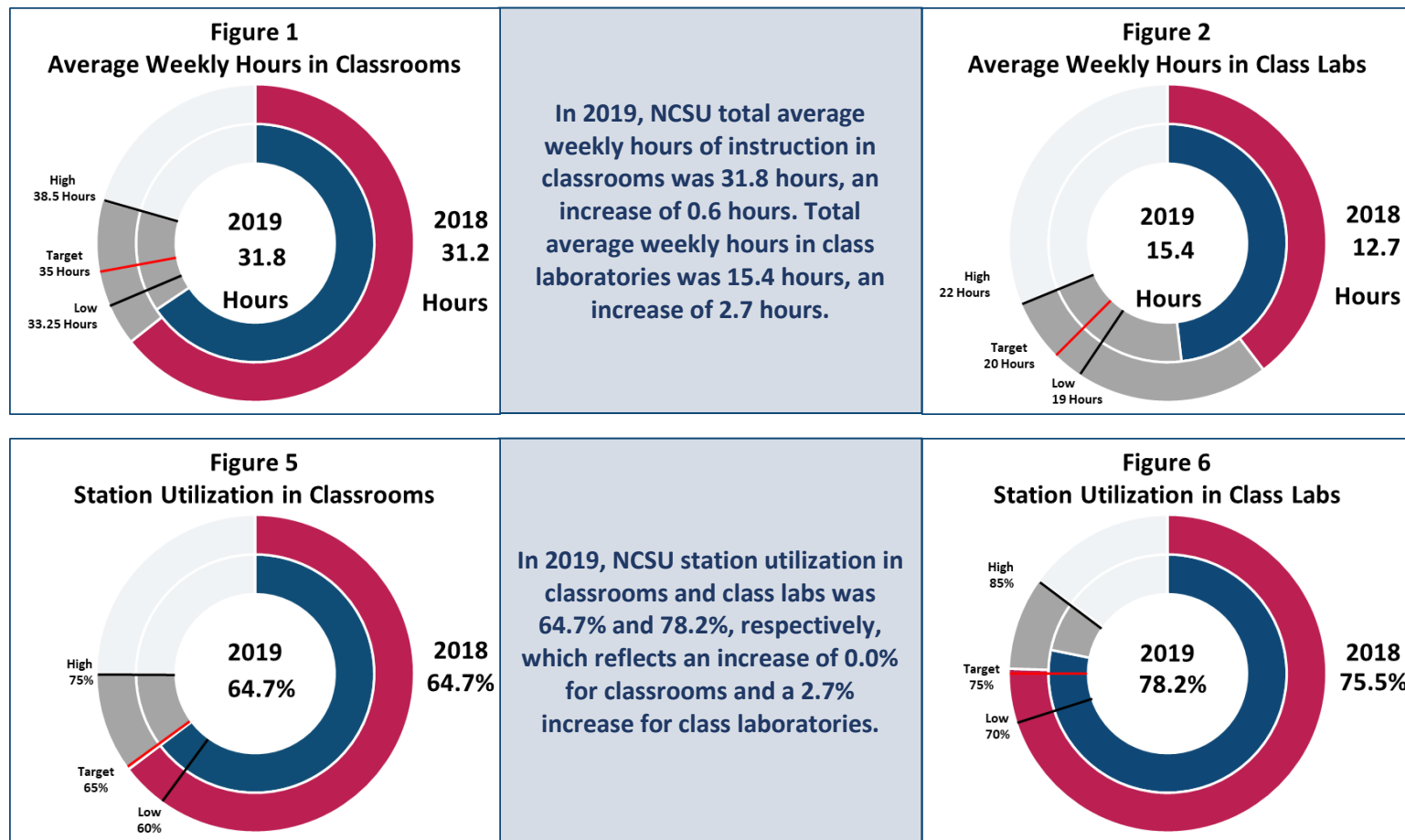
Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



North Carolina State University Summary

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

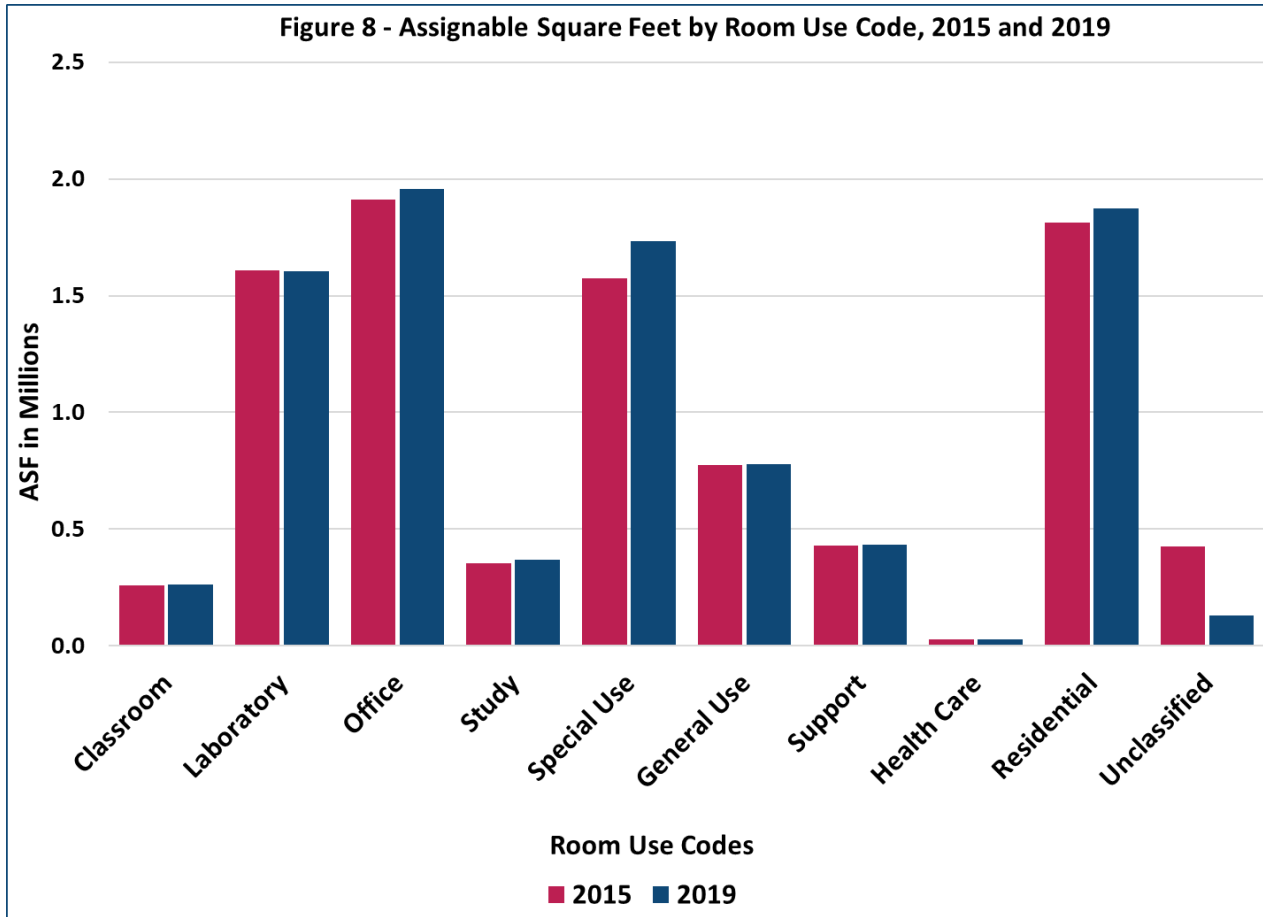
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at NCSU increased from 9,142,141 to 9,166,469, or 0.3% from the previous year.

Program	Assignable Space by Program			
	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	1,741,442	19.0%	18.4%	0.6%
Research	2,542,688	27.7%	27.5%	0.3%
Public Service	445,525	4.9%	4.0%	0.9%
Student Service	2,913,361	31.8%	30.3%	1.5%
Other	1,523,453	16.6%	19.8%	-3.2%



Building Characteristics

North Carolina State University has 16,476,420 gross square feet of space comprised of 1,110 buildings (963 residential, 147 non-residential; 905 appropriated, 205 non-appropriated; 960 owned, 36 leased, 114 under other agreement terms) with 9,166,469 square feet of assignable space, having decreased by -0.1% within the last five years. Since 2018, gross square footage has decreased by 36,841 SF, or .2%.

North Carolina State University Building Characteristics	
1,110 Total Buildings	
	960 Owned
905 Appropriated	36 Leased
205 Non-appropriated	114 Other Agreement
1,110 Total	1,110 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

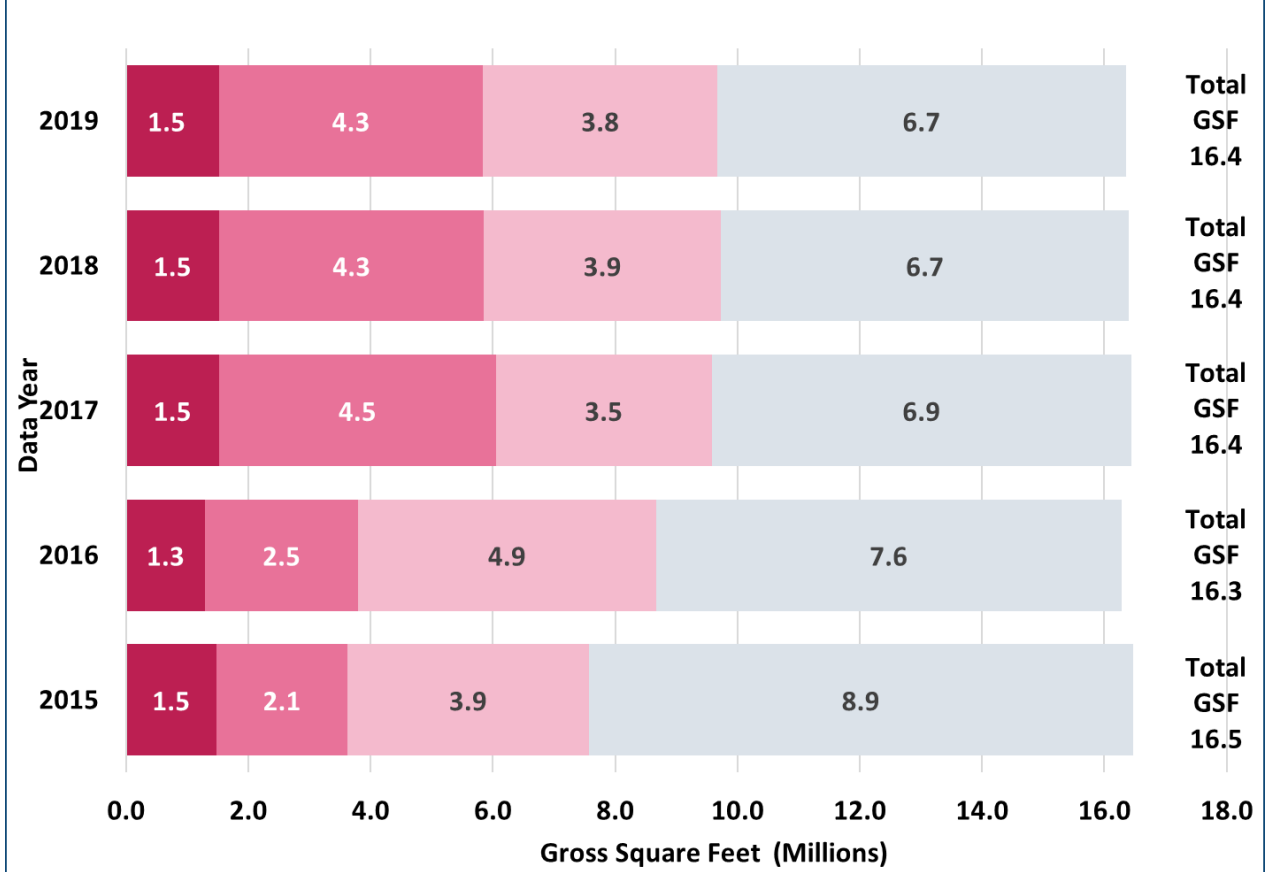
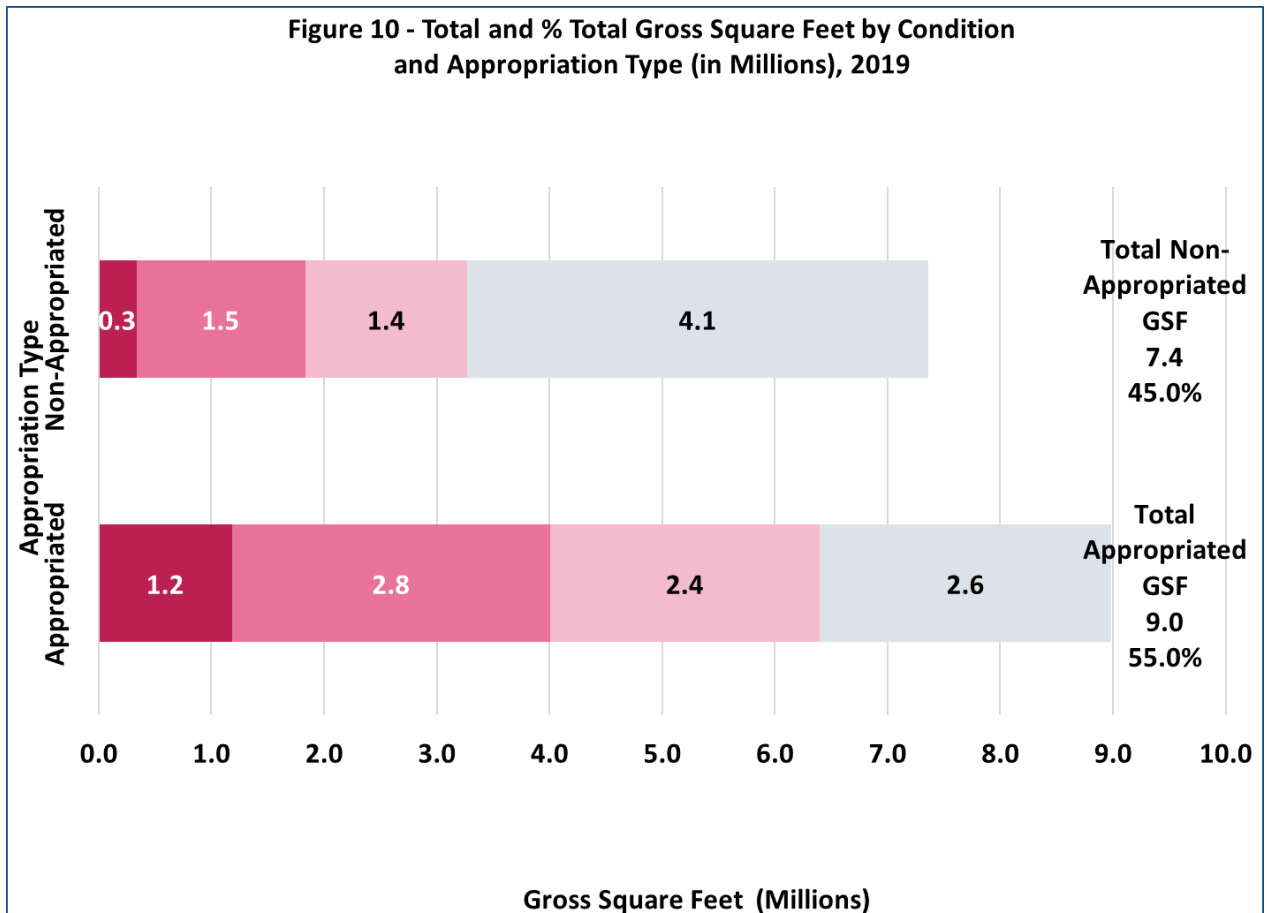


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019



North Carolina State University Summary

Figure 11 - Age of Buildings (Years), GSF

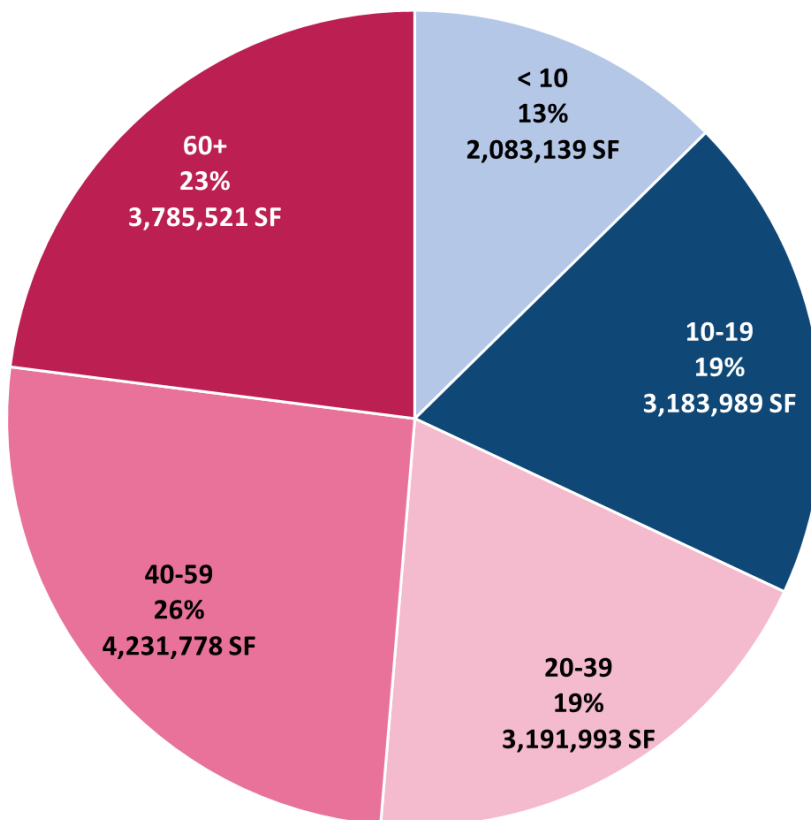
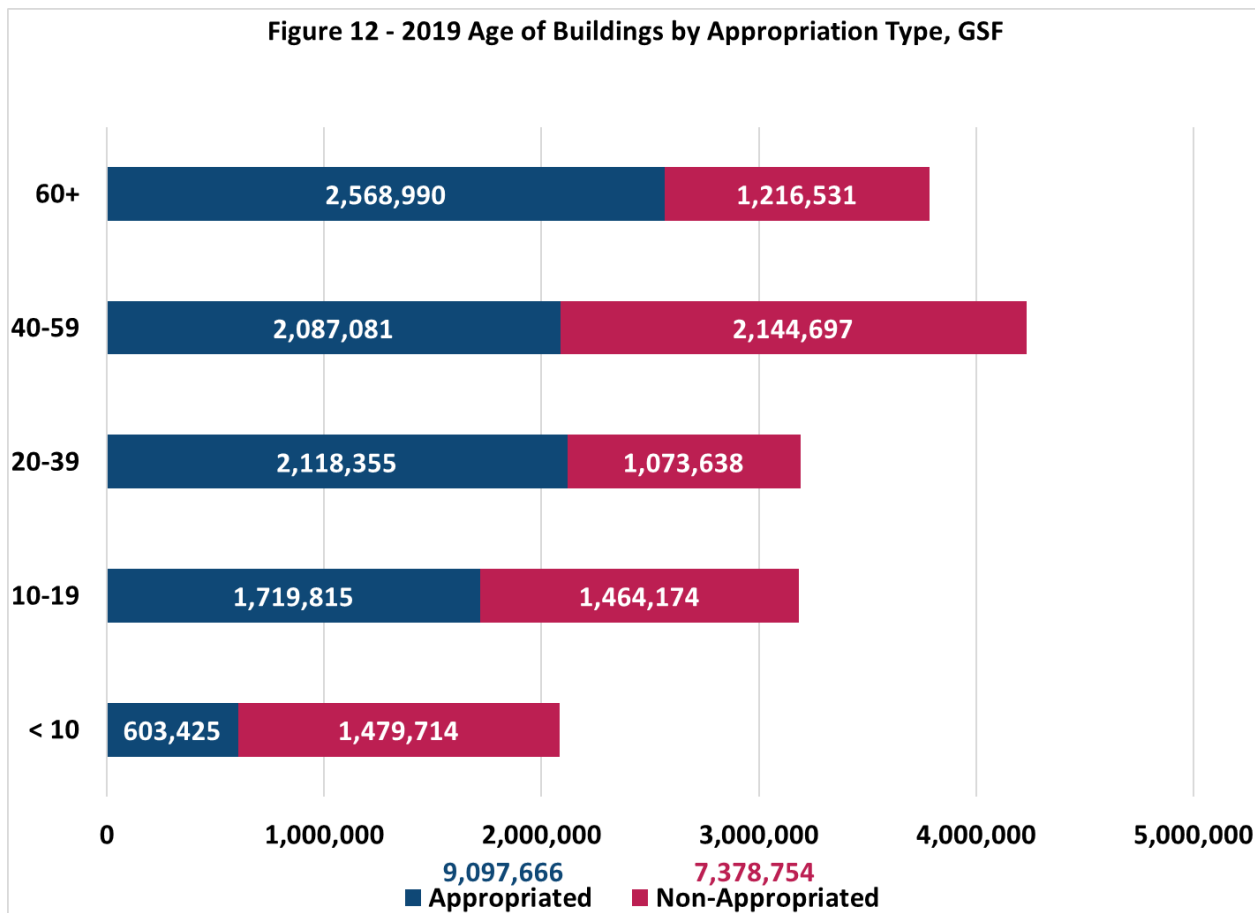


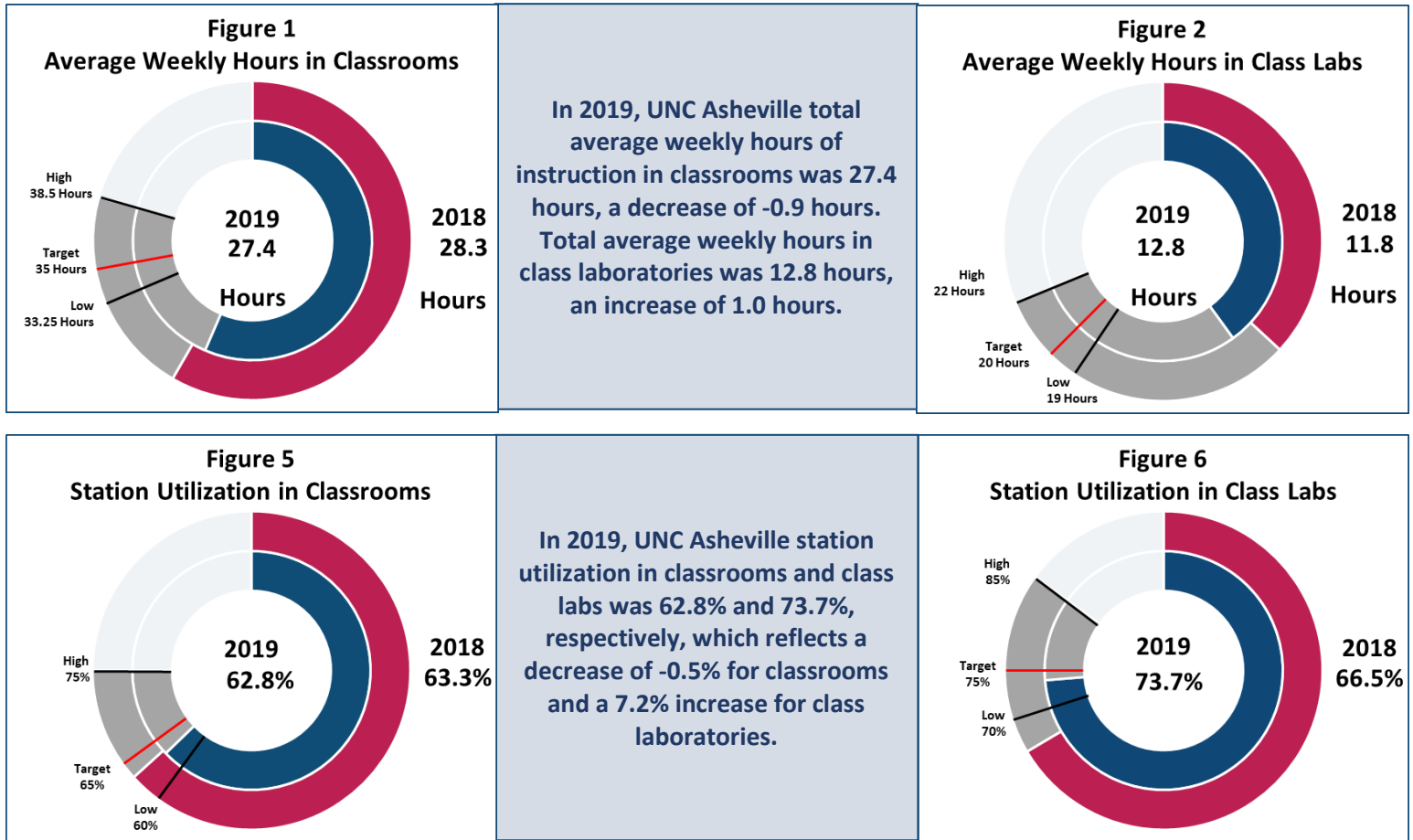
Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



University of North Carolina Asheville Summary

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

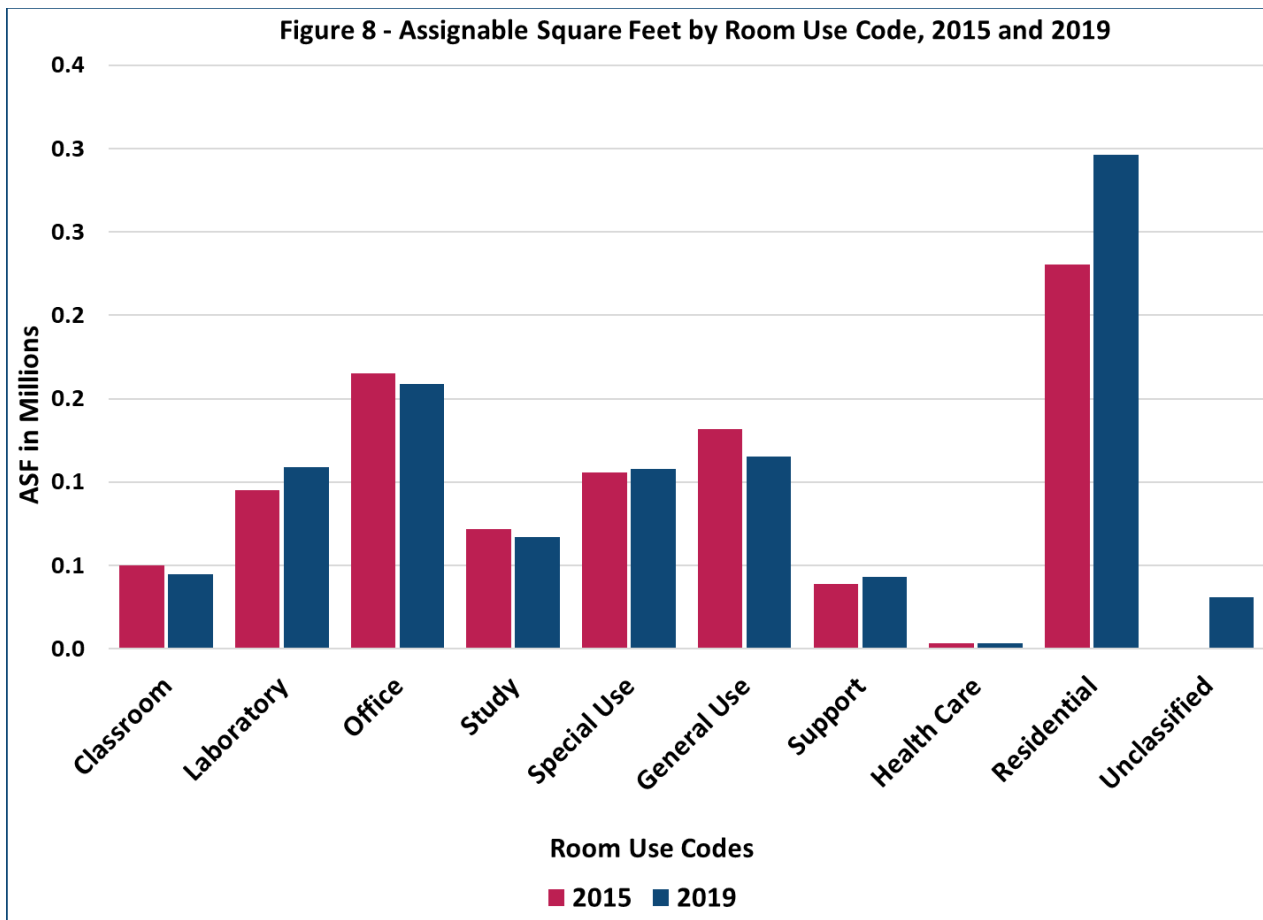
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at UNC Asheville remained at 975,657.

Program	Assignable Space by Program			
	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	216,245	22.2%	24.0%	-1.8%
Research	13,691	1.4%	1.7%	-0.3%
Public Service	10,514	1.1%	1.2%	-0.1%
Student Service	512,287	52.5%	52.0%	0.5%
Other	222,920	22.8%	21.1%	1.8%



Building Characteristics

University of North Carolina Asheville has 1,691,062 gross square feet of space comprised of 52 buildings (21 residential, 31 non-residential; 24 appropriated, 28 non-appropriated; 36 owned, 2 leased, 14 under other agreement terms) with 975,657 square feet of assignable space, having increased by 9.4% within the last five years. Since 2018, gross square footage has remained unchanged.

University of North Carolina Asheville Building Characteristics	
52 Total Buildings	
	36 Owned
24 Appropriated	2 Leased
28 Non-appropriated	14 Other Agreement
<hr/> 52 Total	<hr/> 52 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

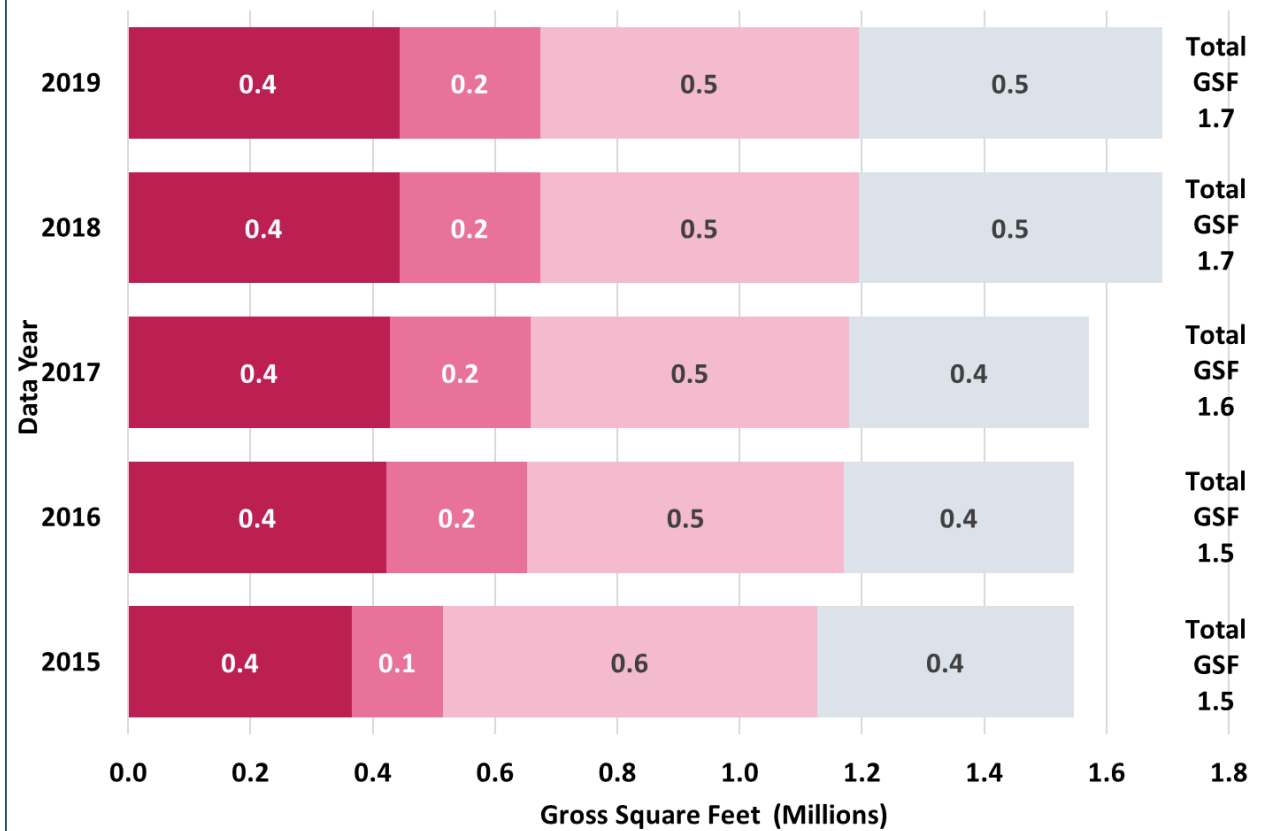
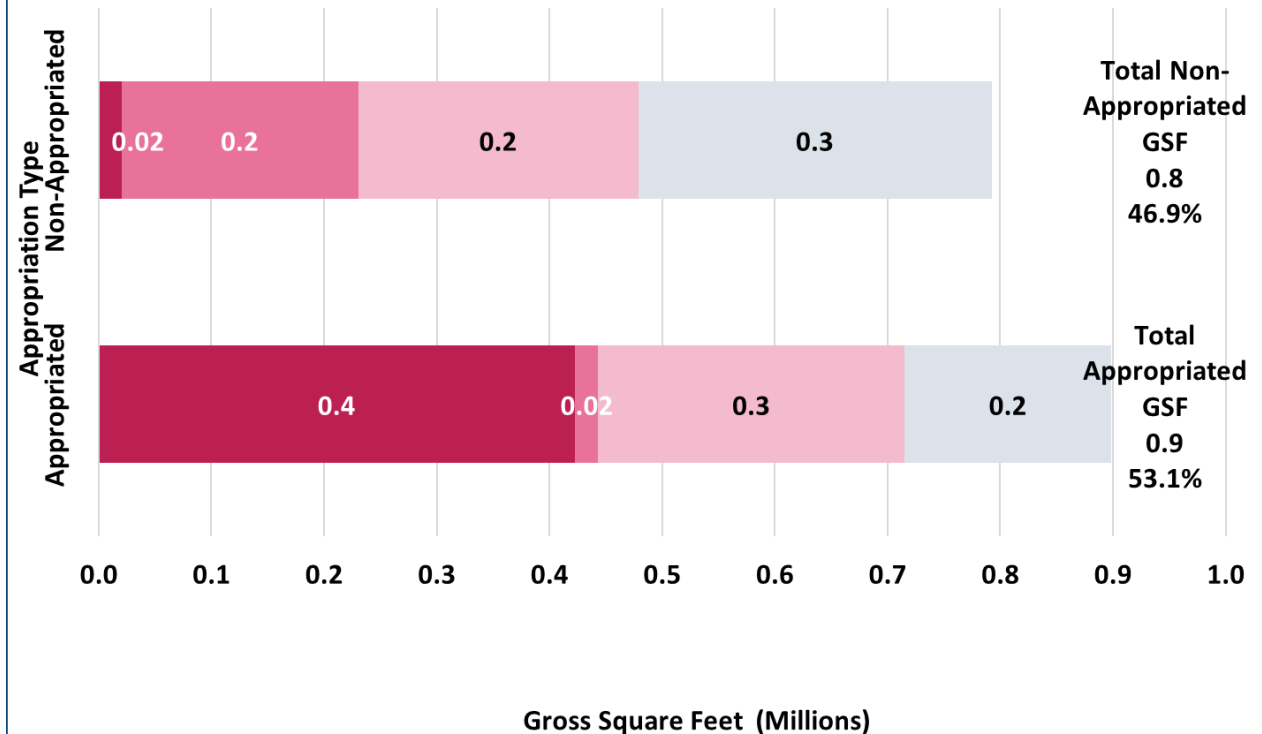


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019



University of North Carolina Asheville Summary

Figure 11 - Age of Buildings (Years), GSF

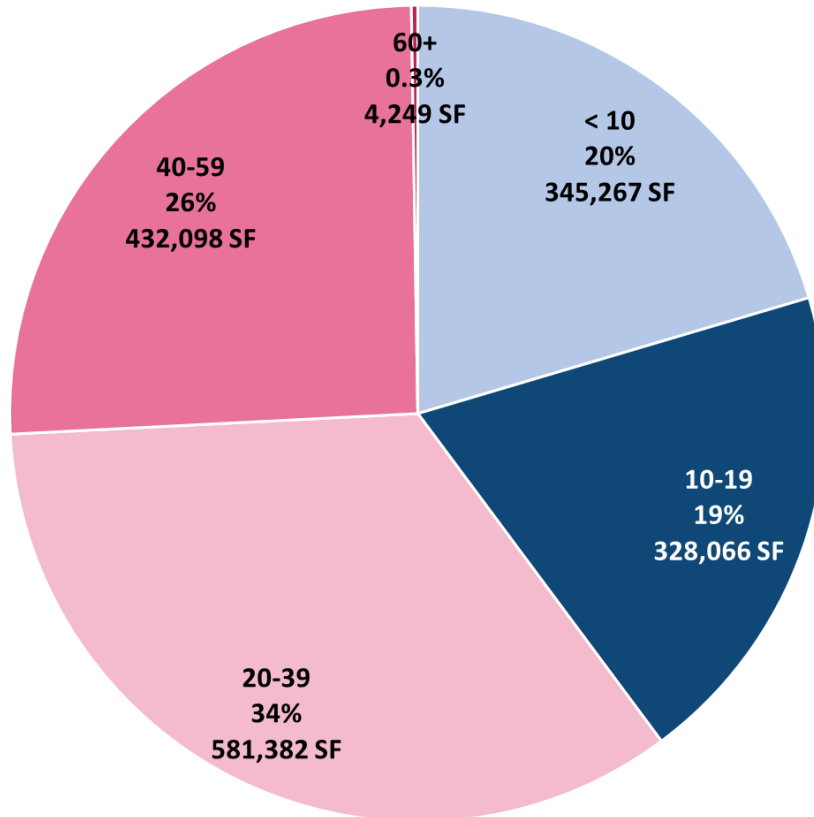
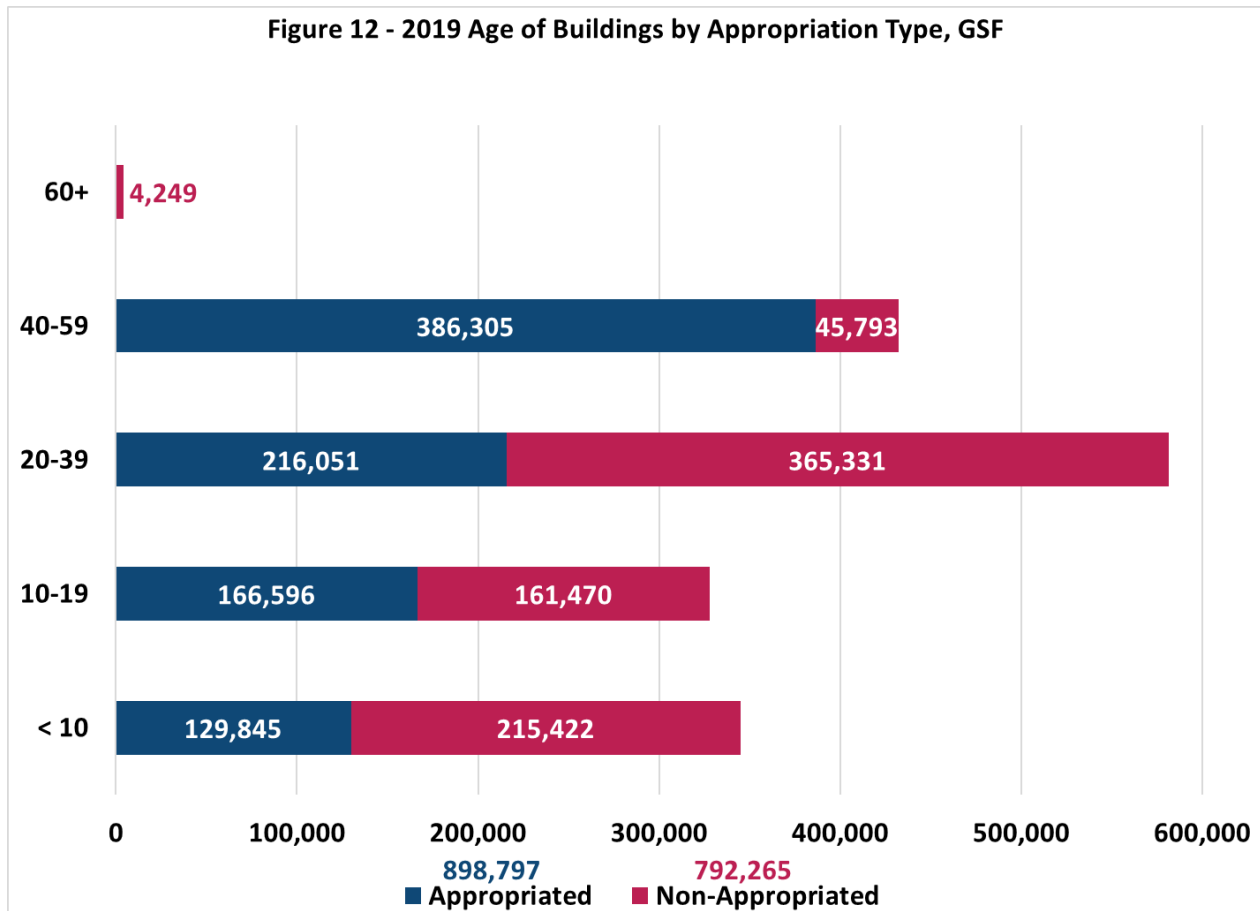
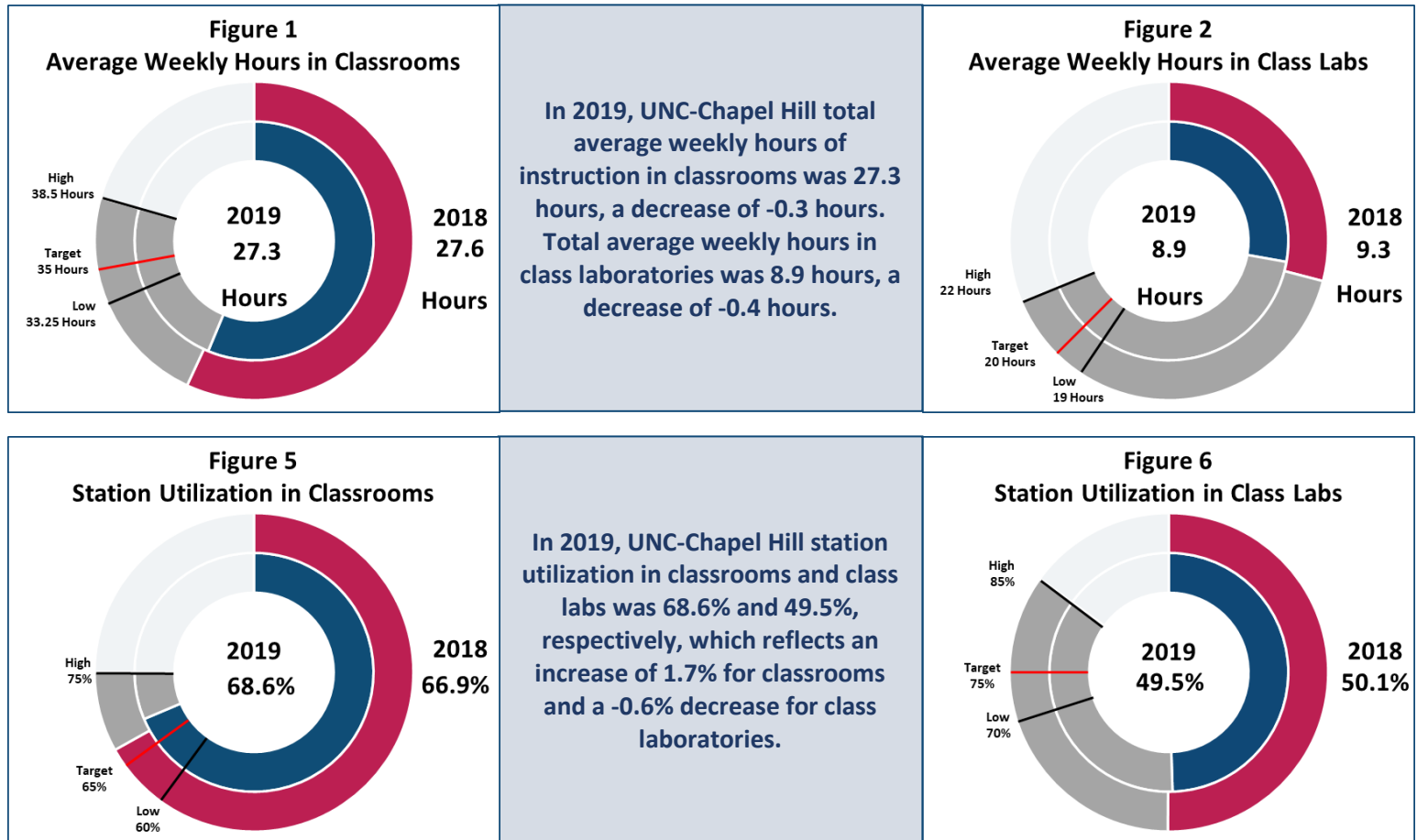


Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



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

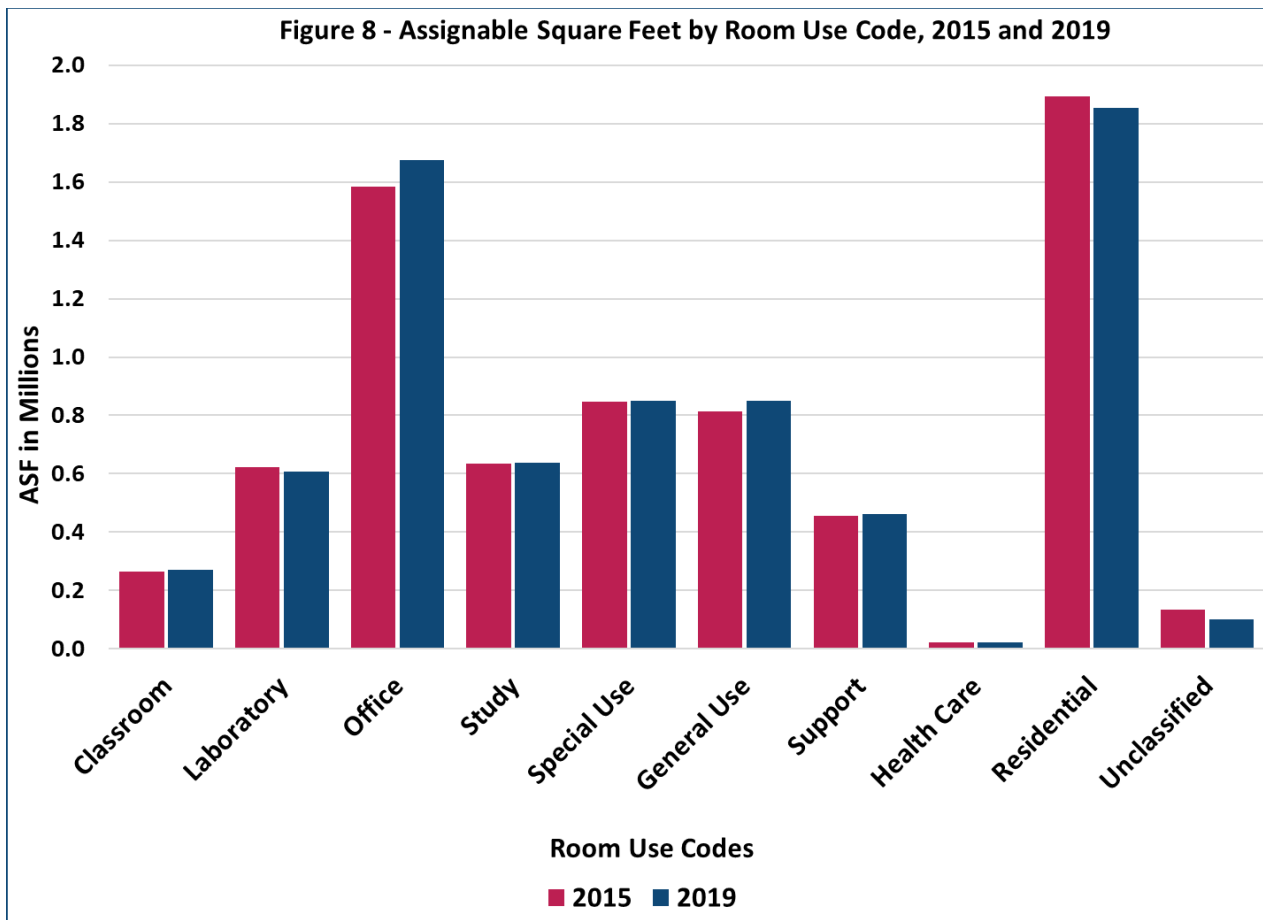
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at UNC-Chapel Hill decreased from 7,372,784 to 7,329,279, or -0.6% from the previous year.

Program	Assignable Space by Program			
	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	1,630,498	22.2%	21.4%	0.9%
Research	556,173	7.6%	7.3%	0.2%
Public Service	45,918	0.6%	0.6%	0.0%
Student Service	3,409,802	46.5%	47.8%	-1.2%
Other	1,686,888	23.0%	22.9%	0.1%



Building Characteristics

The University of North Carolina at Chapel Hill has 13,341,200 gross square feet of space comprised of 370 buildings (290 residential, 80 non-residential; 164 appropriated, 206 non-appropriated; 350 owned, 17 leased, 3 under other agreement terms) with 7,329,279 square feet of assignable space, having increased by 0.8% within the last five years. Since 2018, gross square footage has decreased by 37,813 SF, or .3%.

University of North Carolina at Chapel Hill Building Characteristics	
370 Total Buildings	
350 Owned	
164 Appropriated	17 Leased
206 Non-appropriated	3 Other Agreement
<hr/>	<hr/>
370 Total	370 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

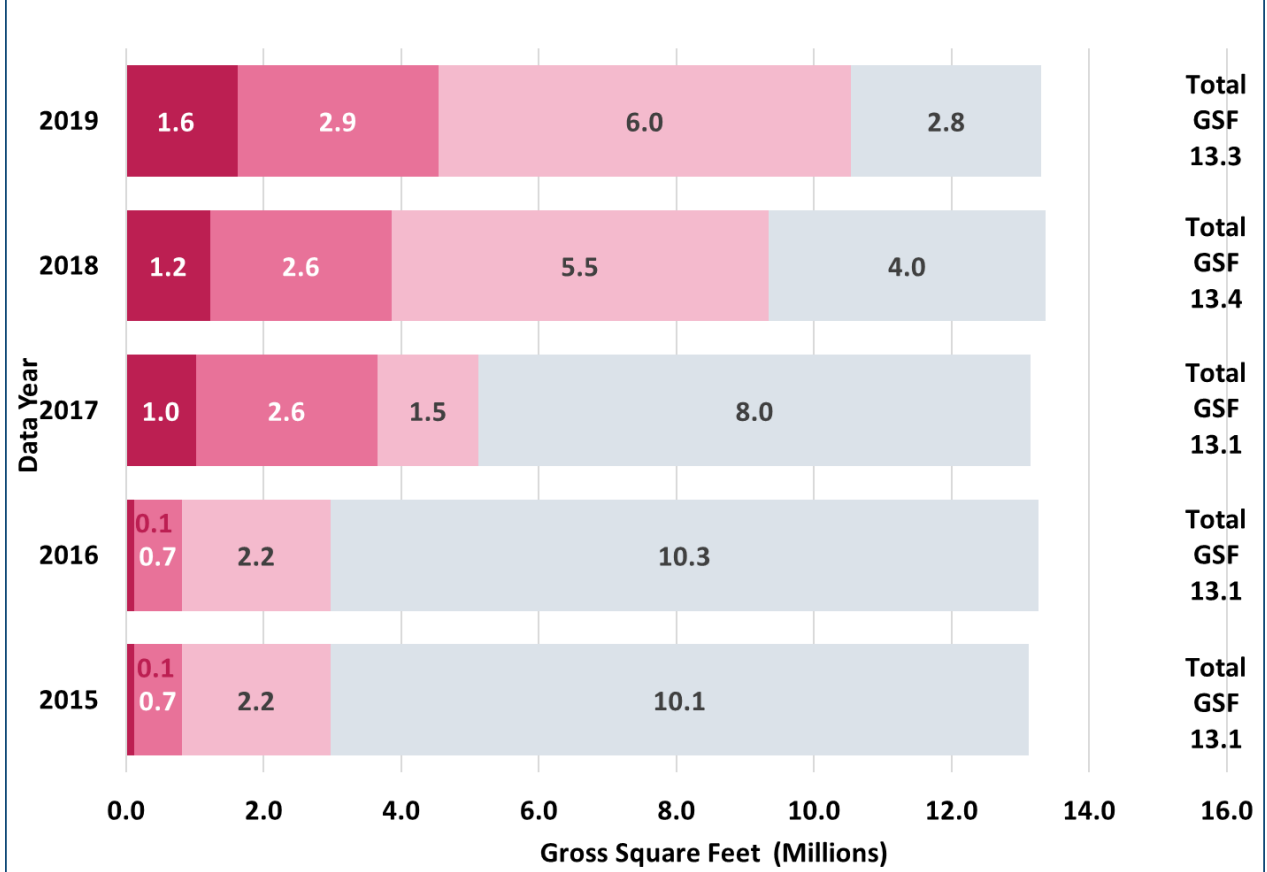


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019

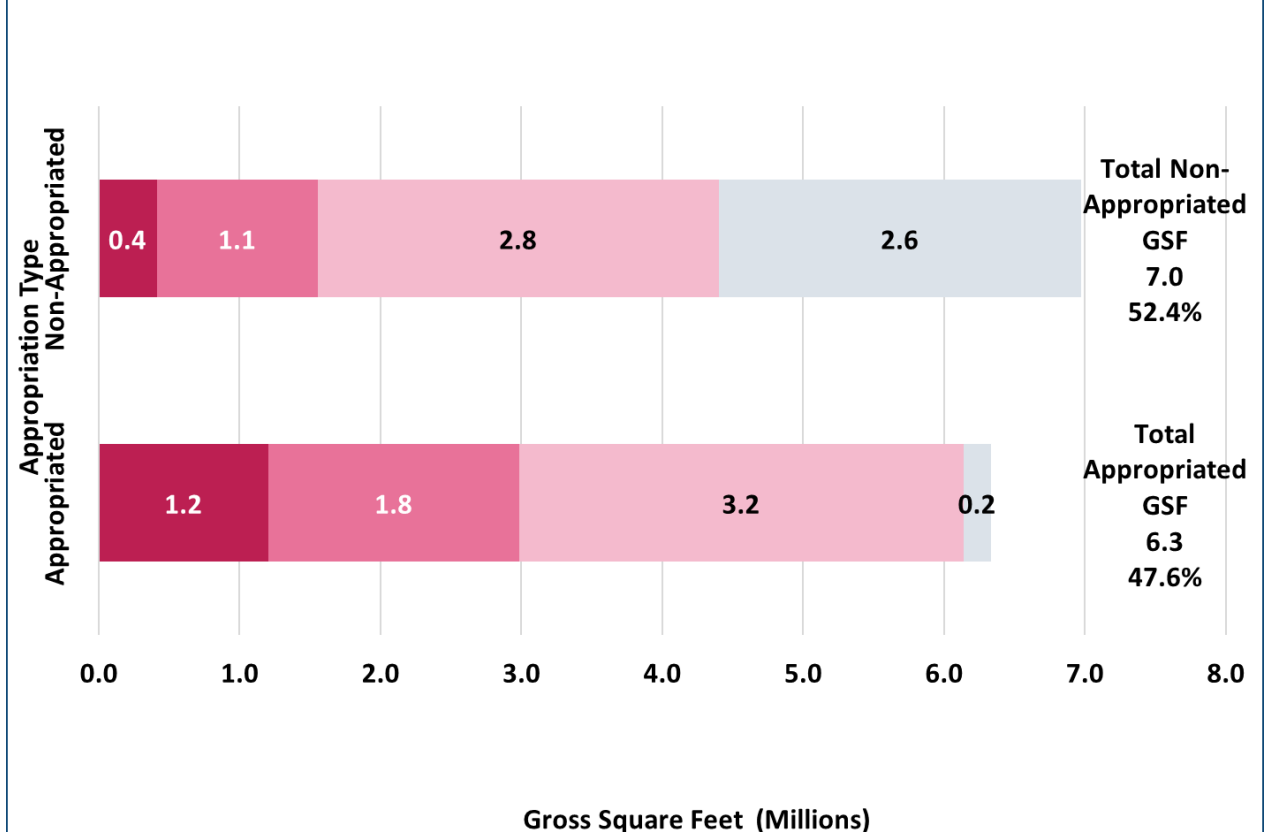


Figure 11 - Age of Buildings (Years), GSF

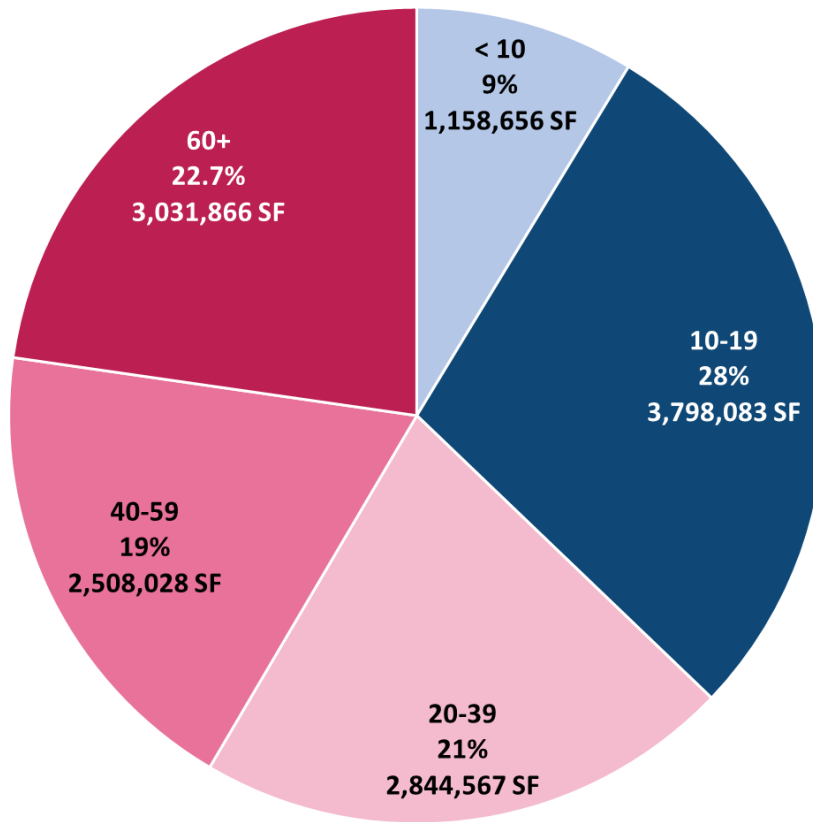
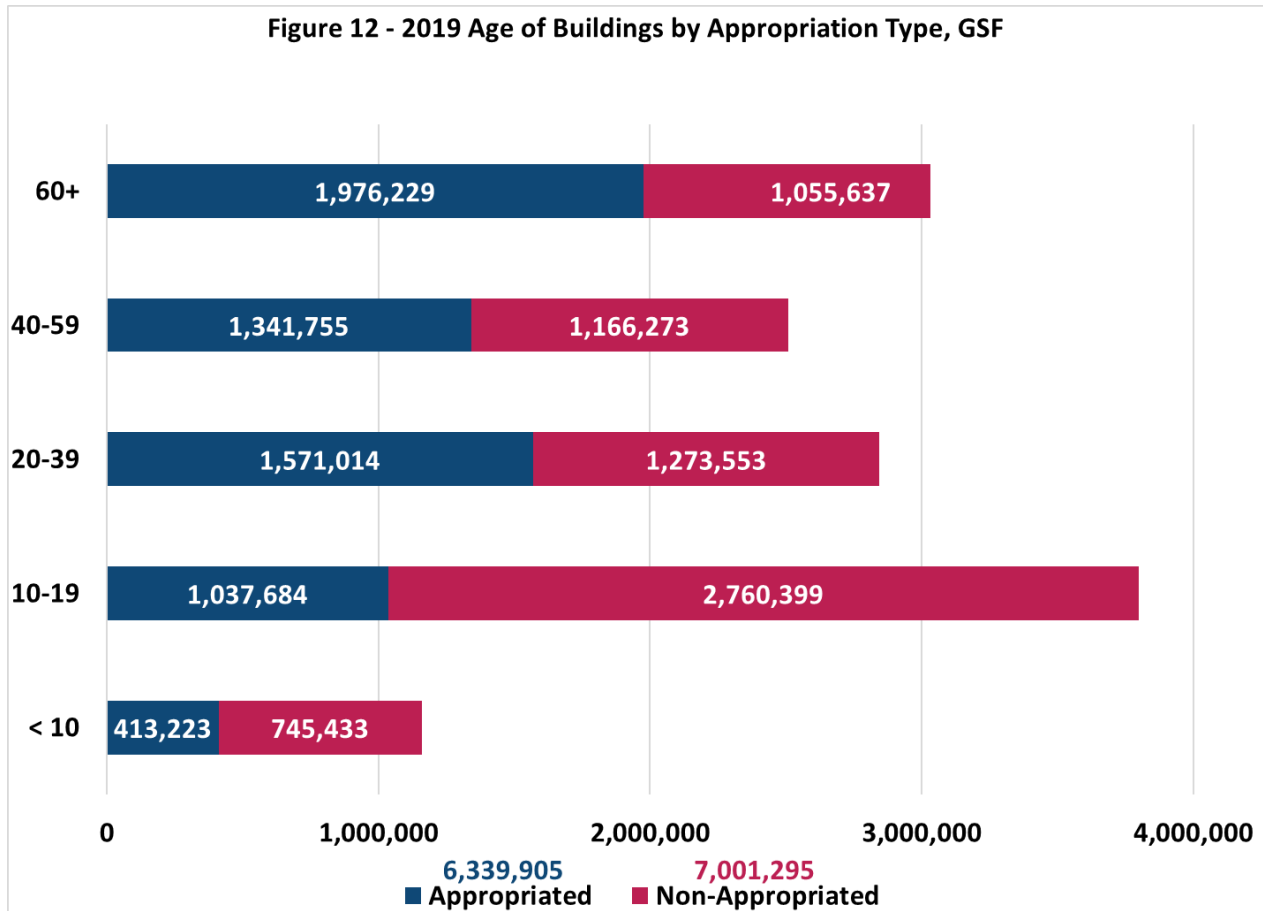
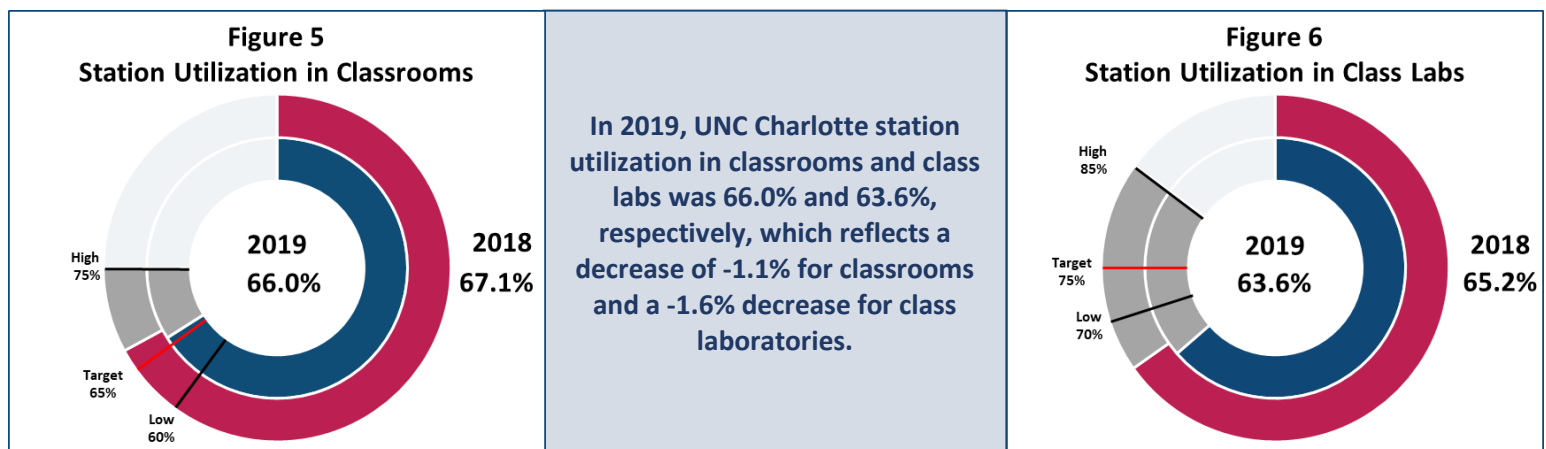
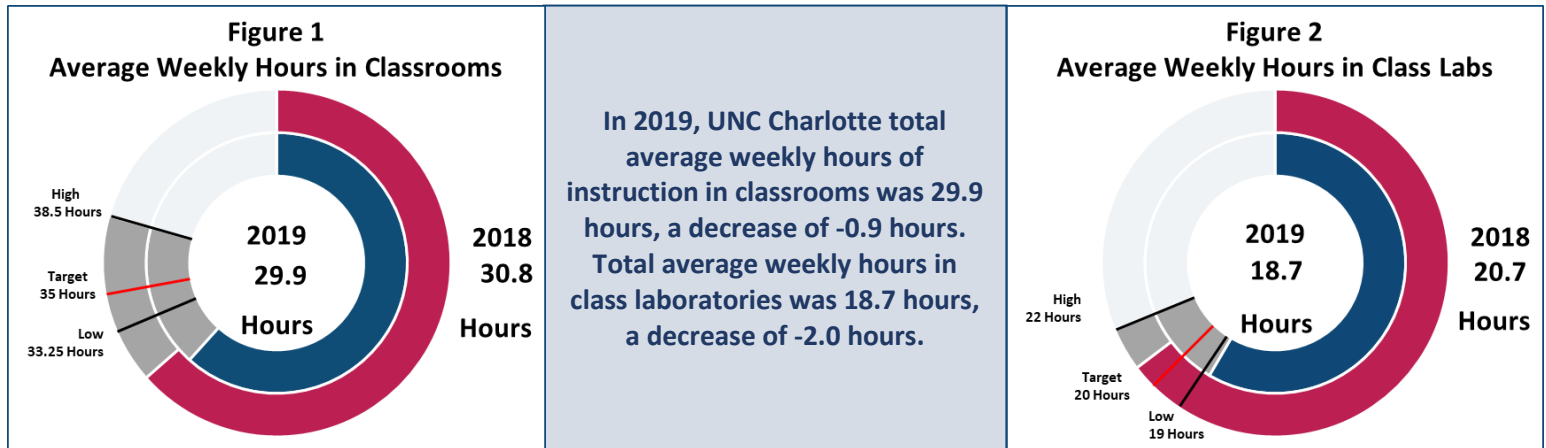


Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



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

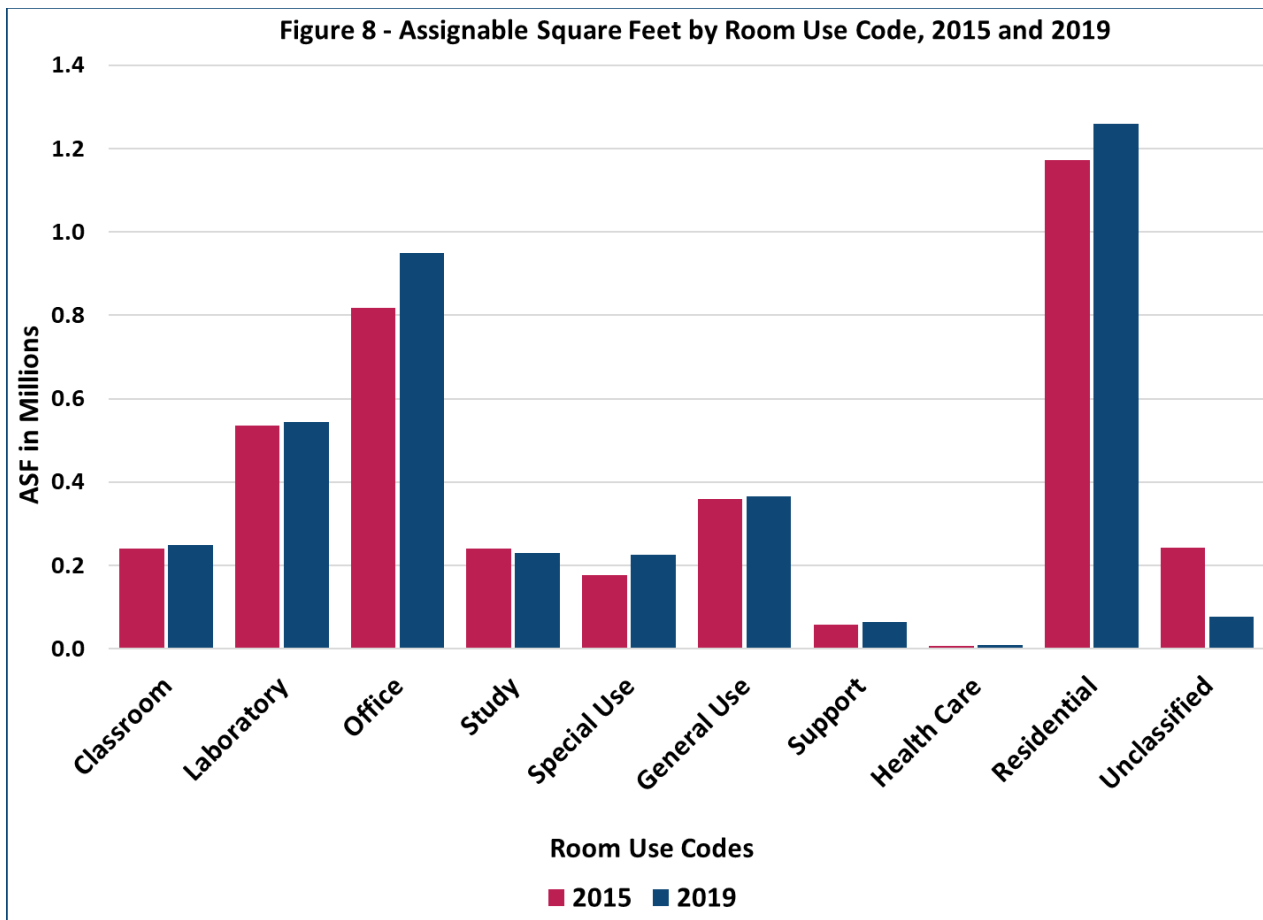
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at UNC Charlotte decreased from 3,992,984 to 3,970,294, or -0.6% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	879,663	22.2%	21.8%	0.3%
Research	308,235	7.8%	8.0%	-0.2%
Public Service	60,508	1.5%	1.6%	-0.1%
Student Service	1,979,910	49.9%	47.5%	2.4%
Other	741,978	18.7%	21.1%	-2.4%



Building Characteristics

University of North Carolina Charlotte has 9,736,474 gross square feet of space comprised of 119 buildings (35 residential, 84 non-residential; 50 appropriated, 69 non-appropriated; 75 owned, 0 leased, 44 under other agreement terms) with 3,970,294 square feet of assignable space, having increased by 3% within the last five years. Since 2018, gross square footage has increased by 149,926 SF, or 1.6%.

University of North Carolina Charlotte Building Characteristics	
119 Total Buildings	
	75 Owned
50 Appropriated	0 Leased
69 Non-appropriated	44 Other Agreement
<hr/> 119 Total	<hr/> 119 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

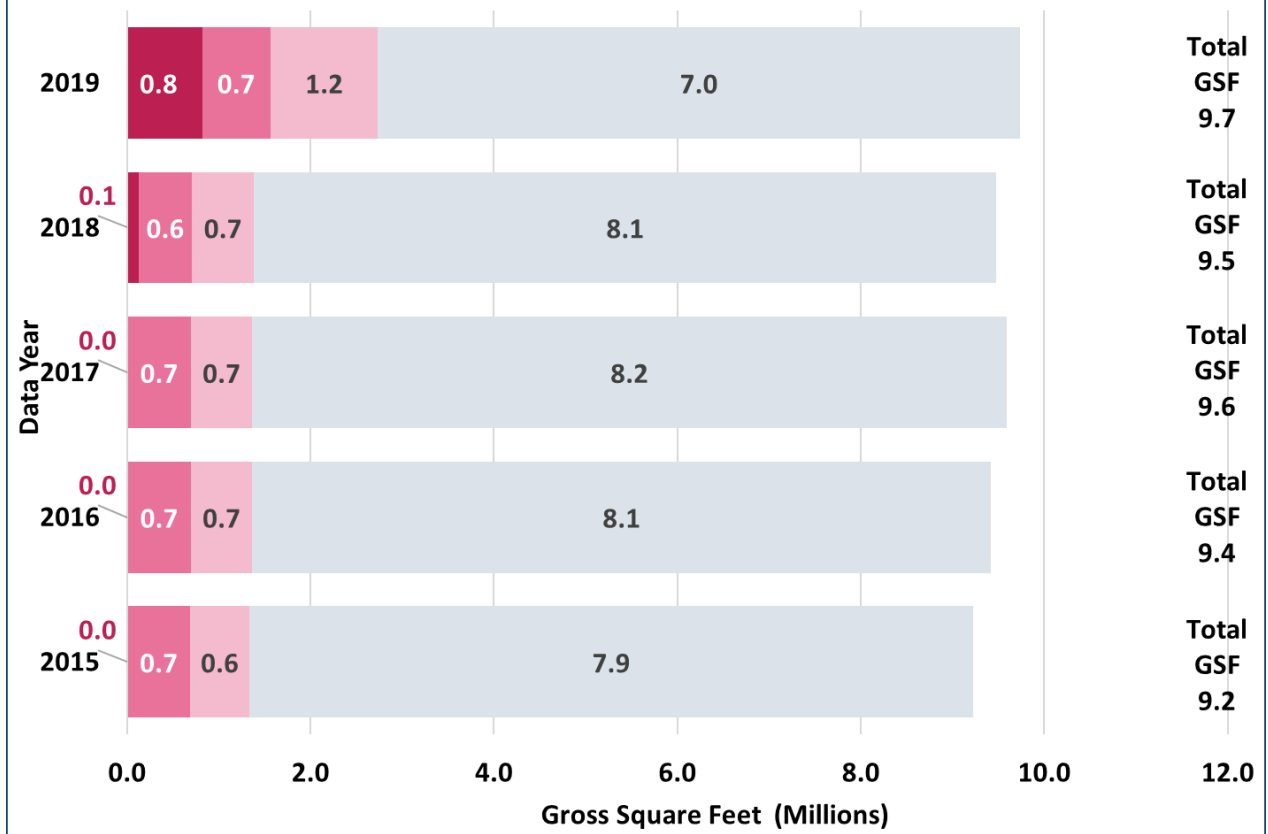


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019

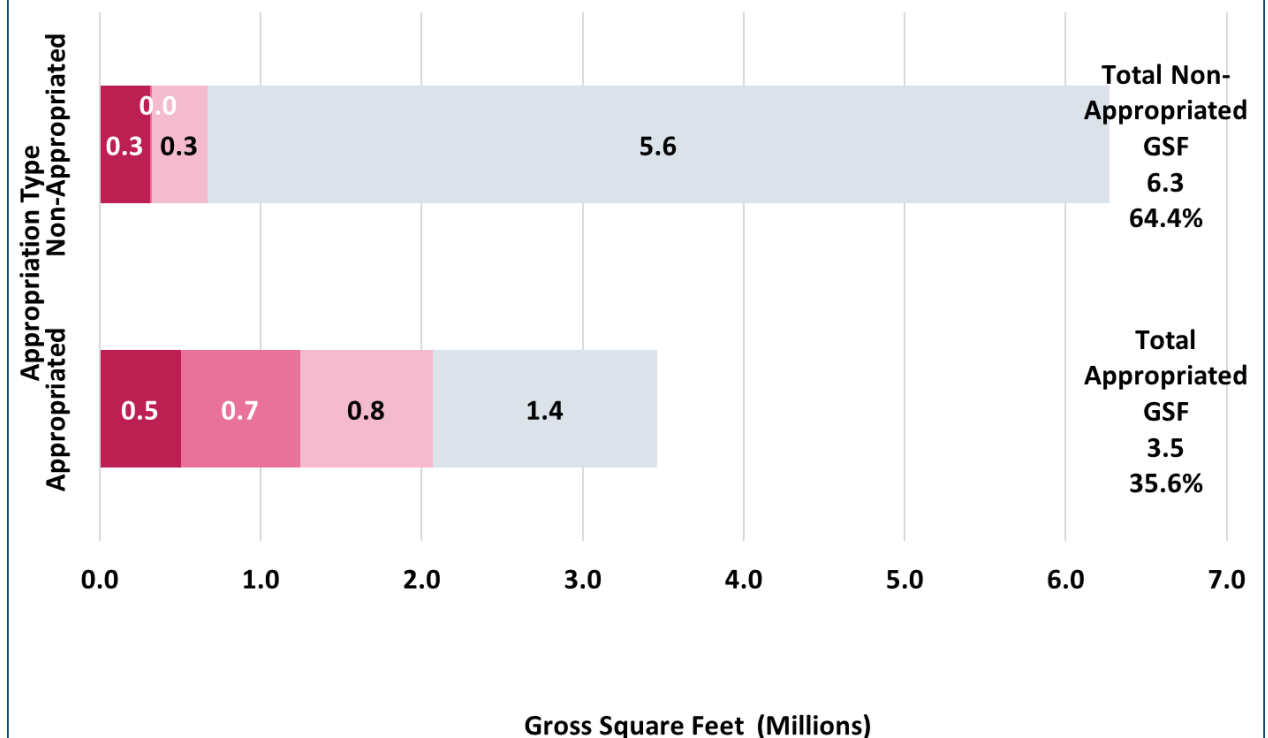


Figure 11 - Age of Buildings (Years), GSF

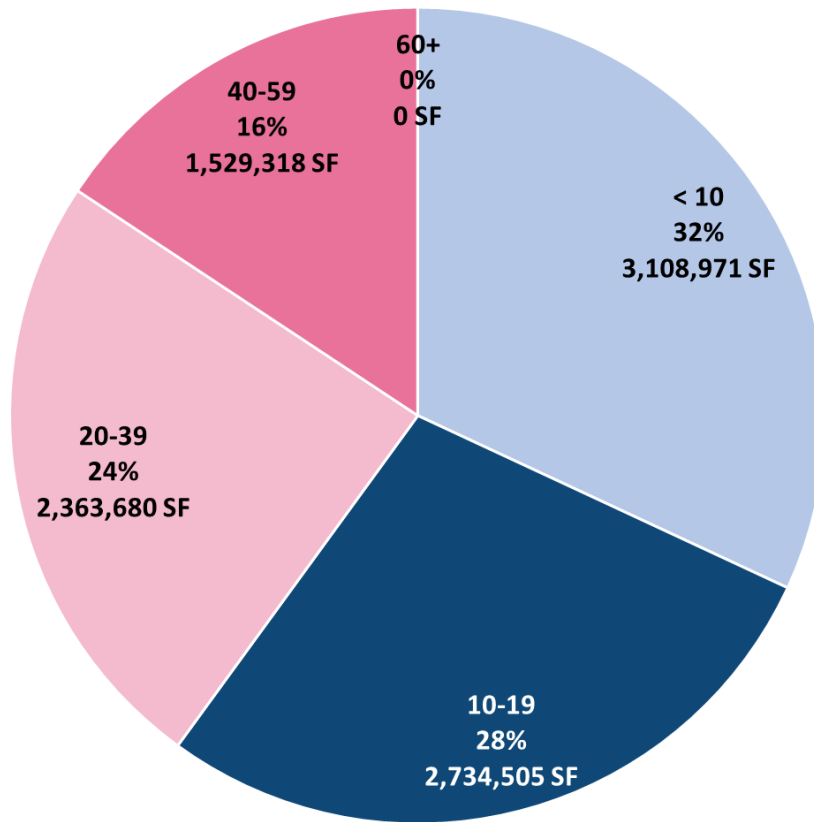
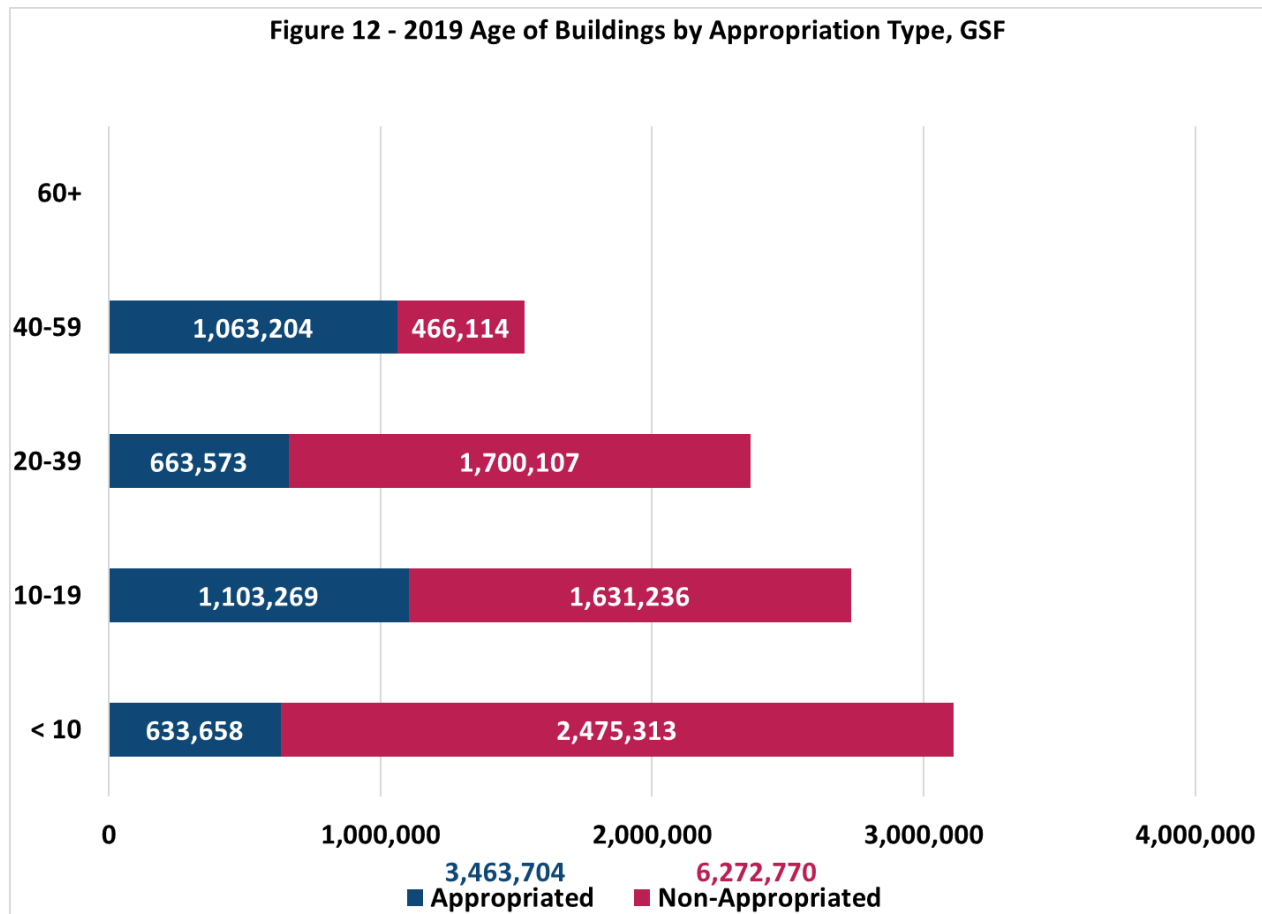


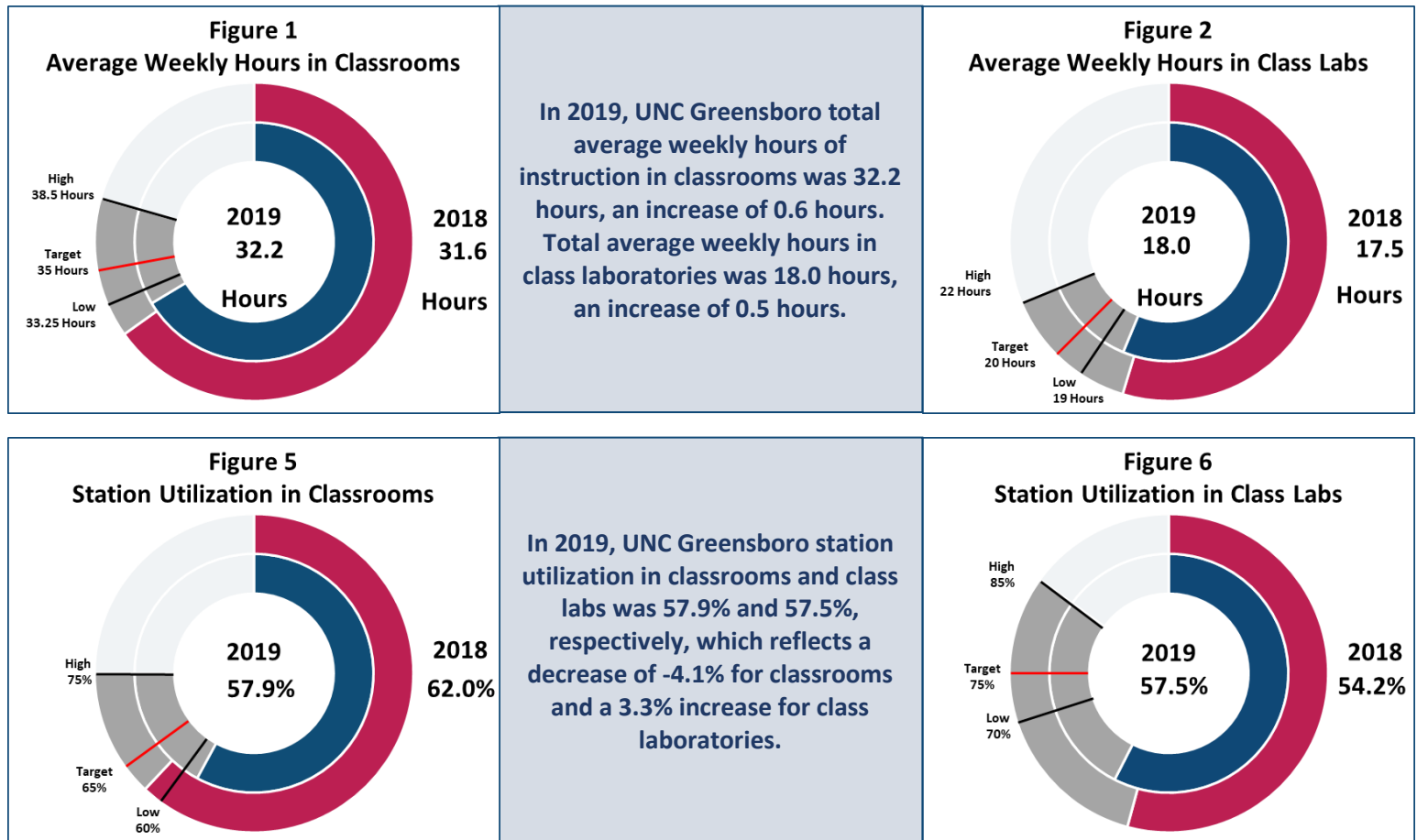
Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



University of North Carolina Greensboro Summary

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

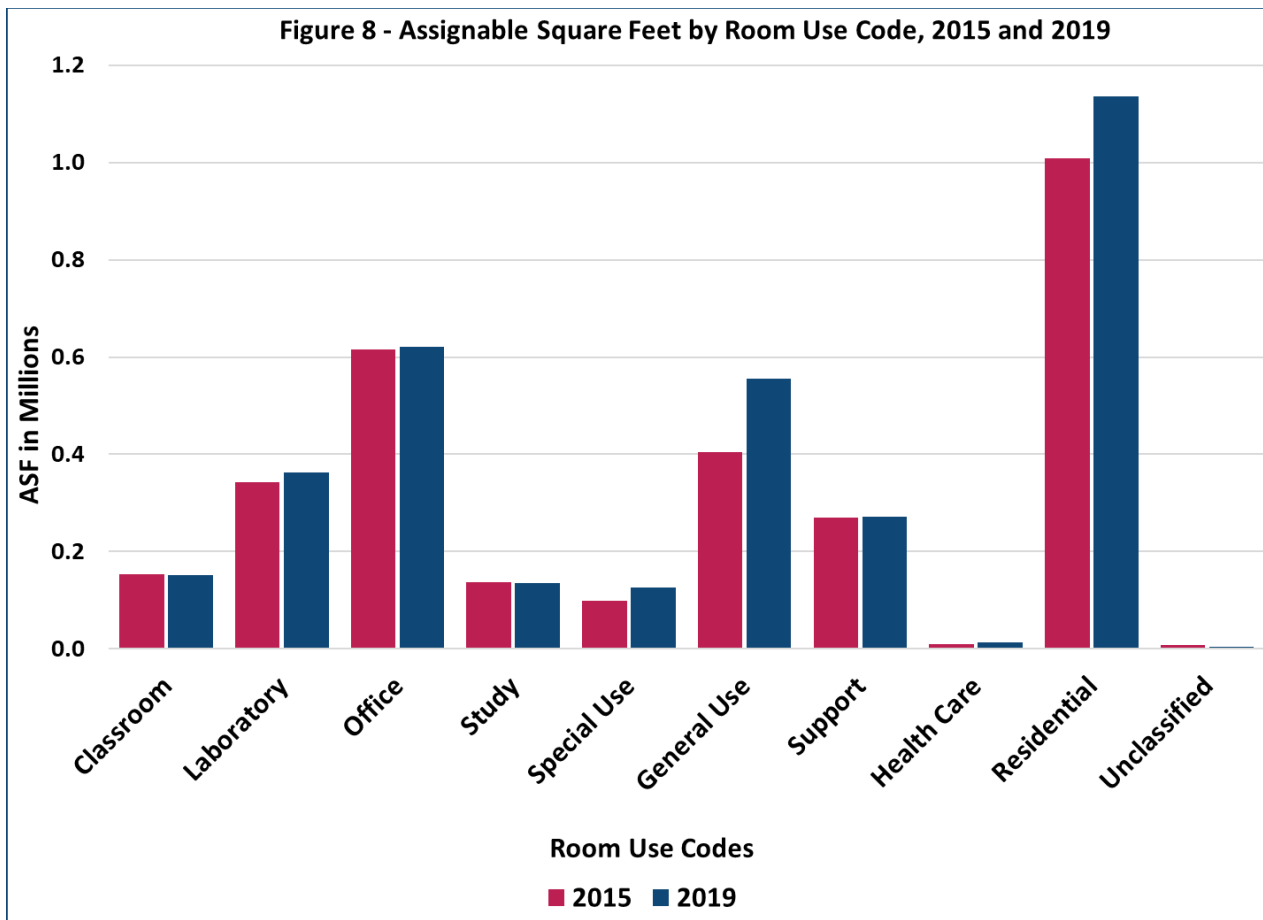
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at UNC Greensboro increased from 3,365,830 to 3,379,163, or 0.4% from the previous year.

Program	Assignable Space by Program			
	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	696,439	20.6%	22.2%	-1.6%
Research	181,417	5.4%	5.6%	-0.2%
Public Service	5,726	0.2%	0.4%	-0.2%
Student Service	1,807,656	53.5%	50.5%	3.0%
Other	687,925	20.4%	21.3%	-1.0%



Building Characteristics

University of North Carolina Greensboro has 6,643,801 gross square feet of space comprised of 150 buildings (31 residential, 119 non-residential; 62 appropriated, 88 non-appropriated; 86 owned, 13 leased, 51 under other agreement terms) with 3,379,163 square feet of assignable space, having increased by 10.9% within the last five years. Since 2018, gross square footage has increased 11,226 SF, or .2%.

University of North Carolina Greensboro Building Characteristics	
150 Total Buildings	
	86 Owned
62 Appropriated	13 Leased
88 Non-appropriated	51 Other Agreement
150 Total	150 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

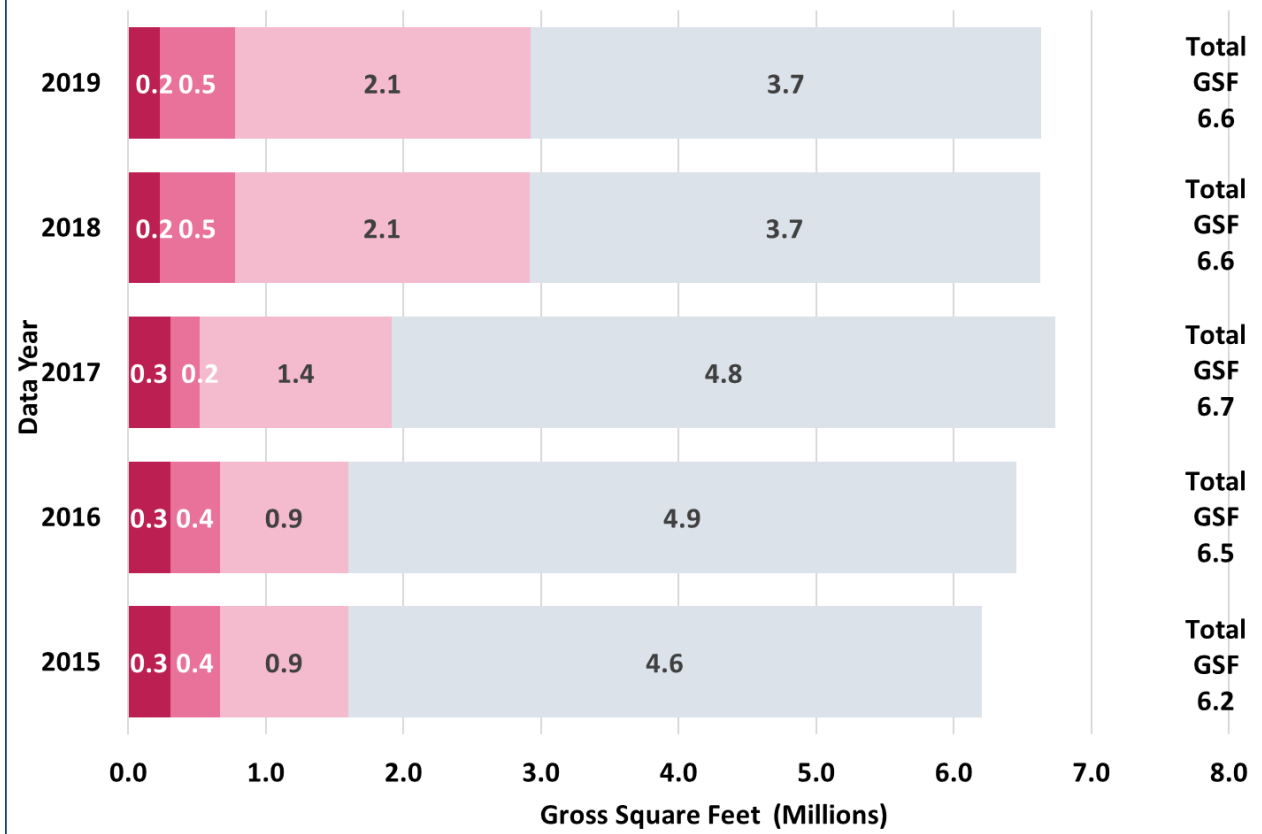


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019

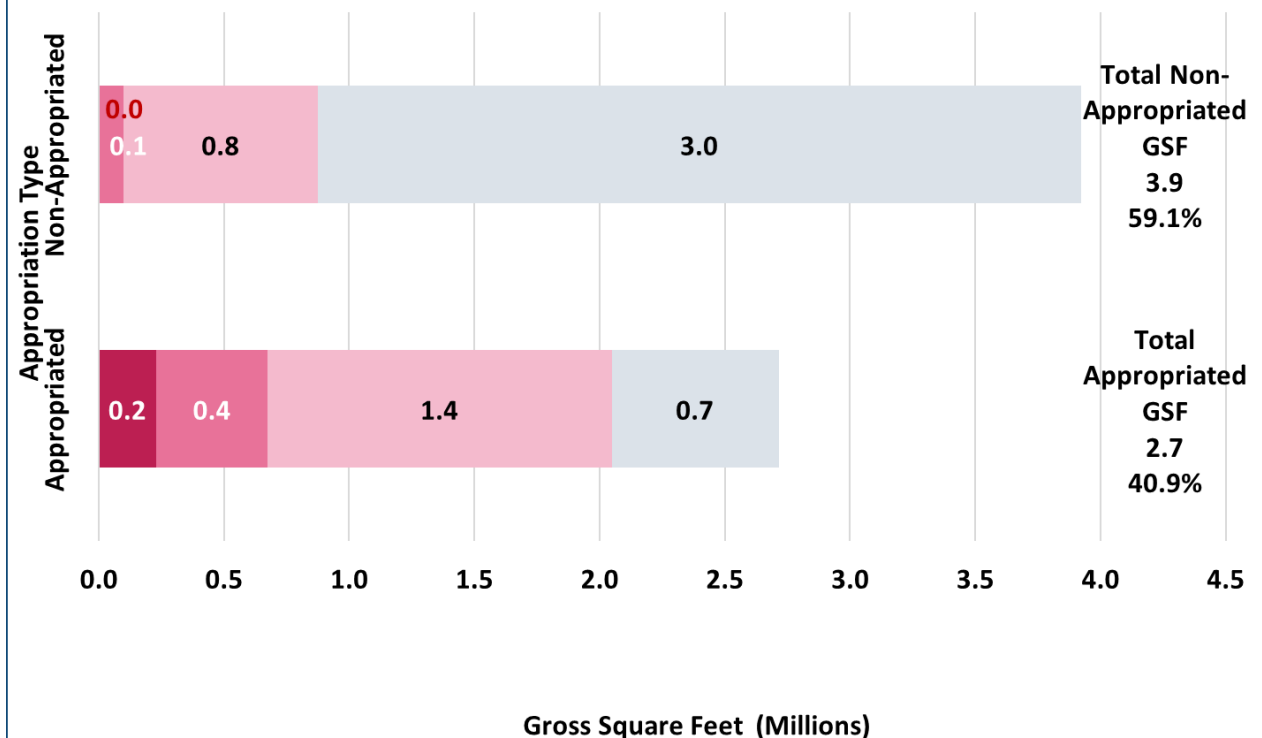


Figure 11 - Age of Buildings (Years), GSF

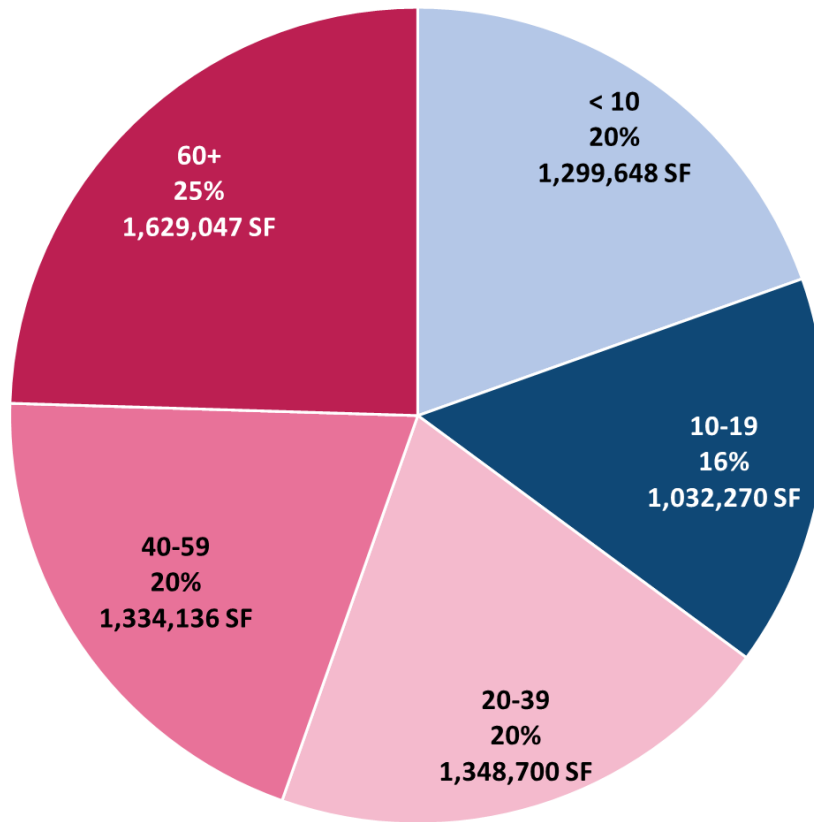
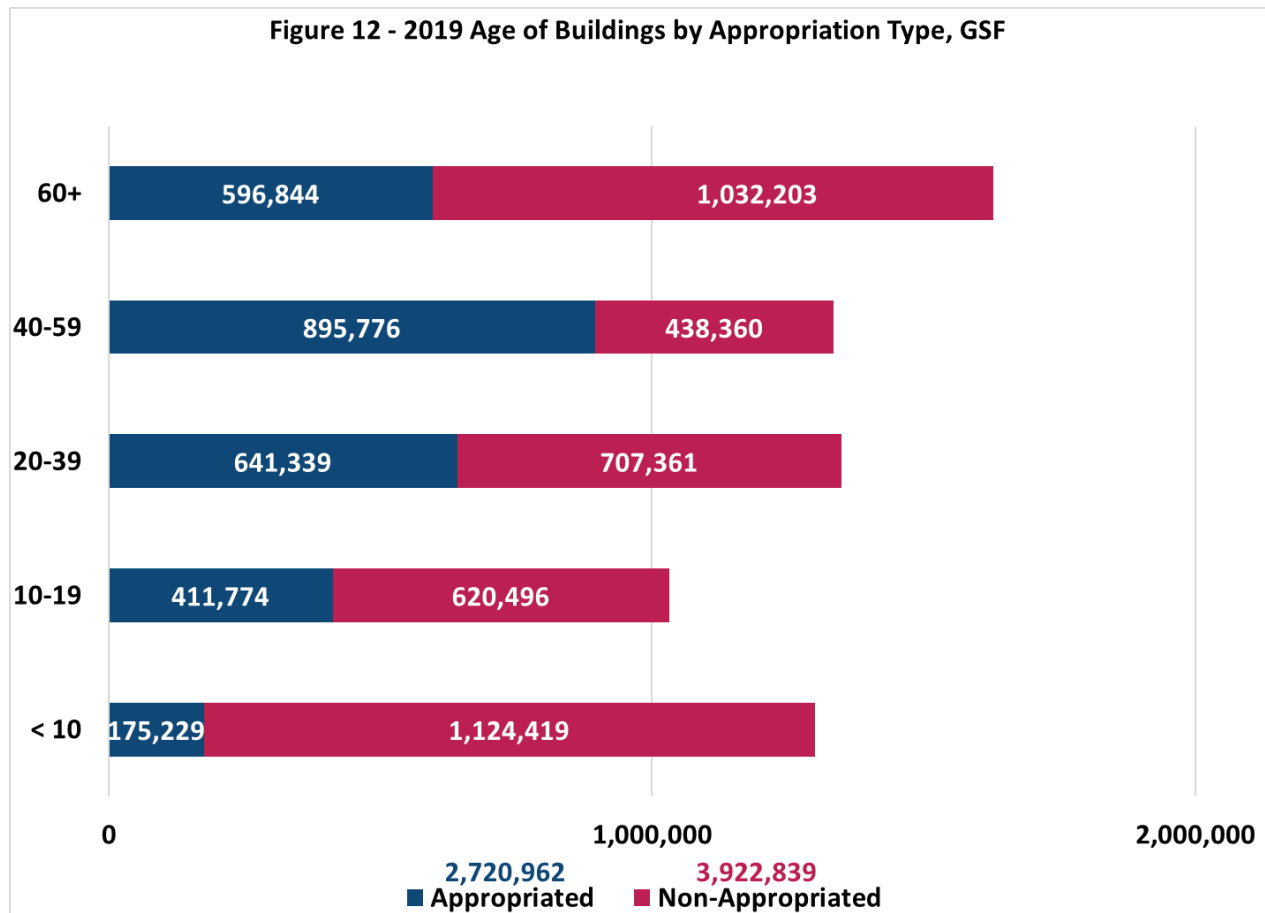
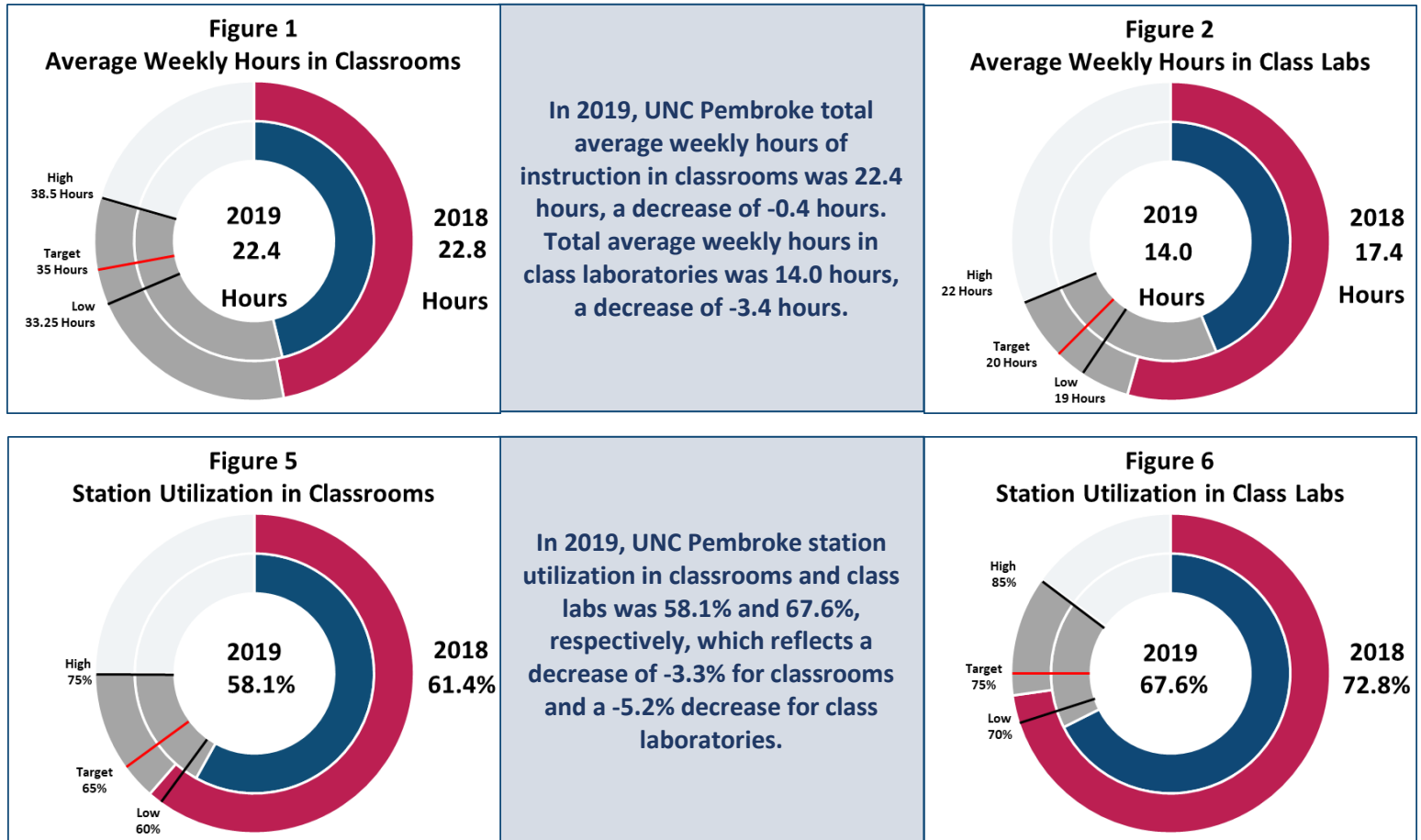


Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



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

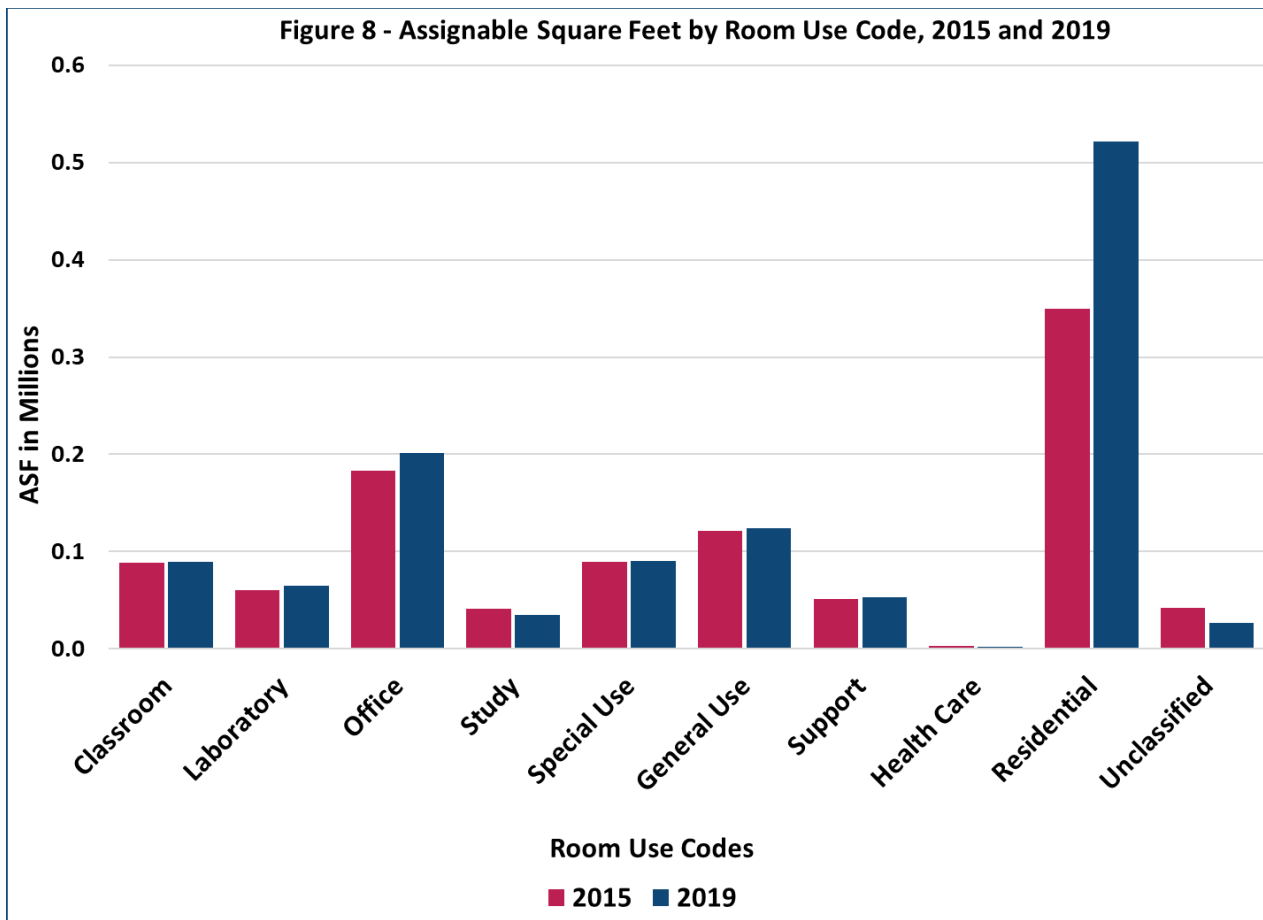
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at UNC Pembroke increased from 1,044,982 to 1,209,182, or 15.7% from the previous year.

Program	Assignable Space by Program			
	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	290,471	24.0%	27.6%	-3.6%
Research	1,982	0.2%	0.2%	0.0%
Public Service	1,609	0.1%	0.2%	-0.1%
Student Service	672,768	55.6%	48.5%	7.1%
Other	242,352	20.0%	23.5%	-3.4%



Building Characteristics

University of North Carolina Pembroke has 1,805,585 gross square feet of space comprised of 58 buildings (14 residential, 44 non-residential; 40 appropriated, 18 non-appropriated; 46 owned, 11 leased, 1 under other agreement terms) with 1,209,182 square feet of assignable space, having increased by 17.7% within the last five years. Since 2018, gross square footage has increased by 218,897 SF, or 13.8%.

University of North Carolina Pembroke Building Characteristics	
58 Total Buildings	
	46 Owned
40 Appropriated	11 Leased
18 Non-appropriated	1 Other Agreement
<hr/> 58 Total	<hr/> 58 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

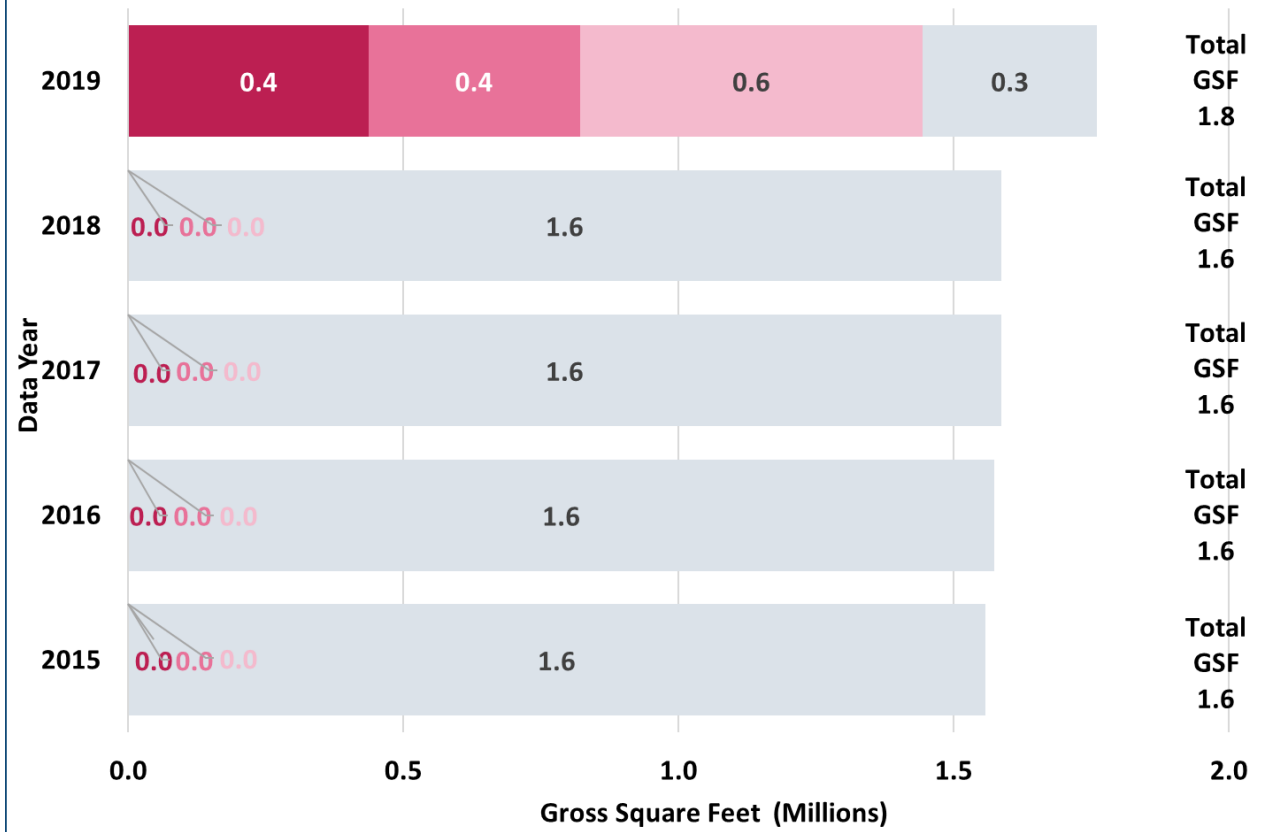
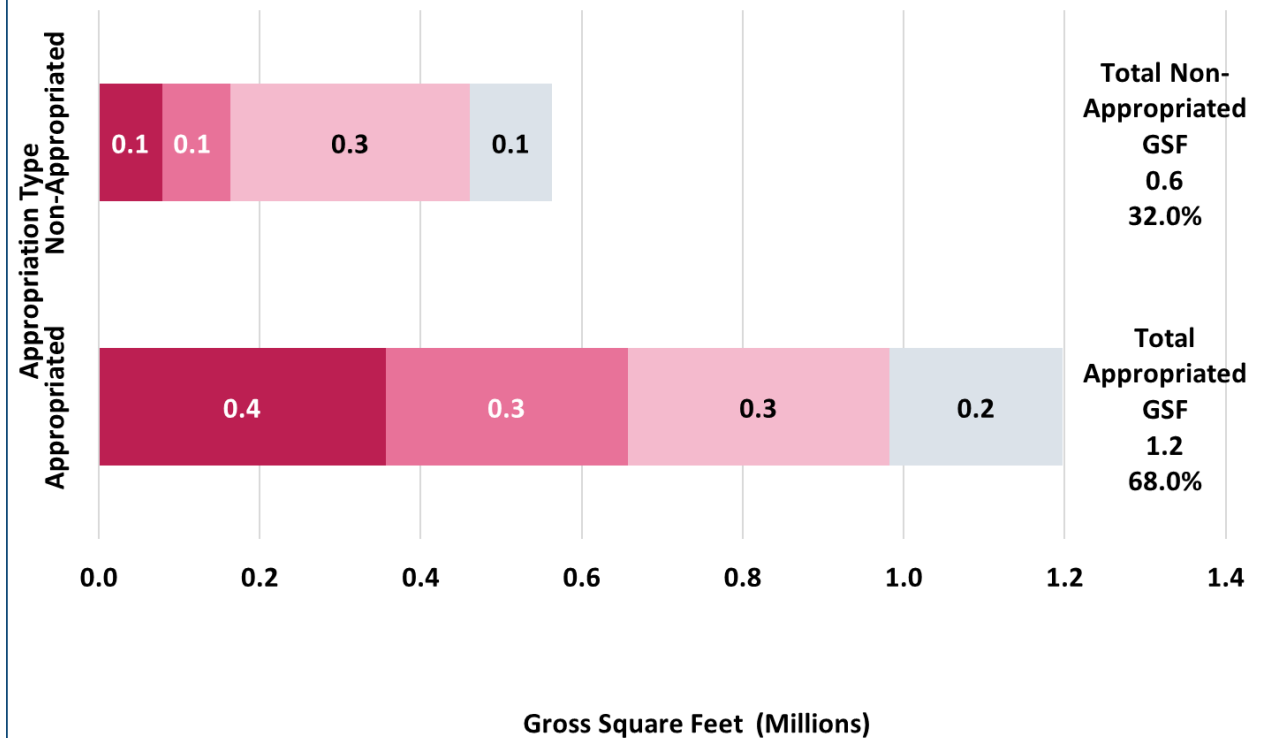


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019



University of North Carolina Pembroke Summary

Figure 11 - Age of Buildings (Years), GSF

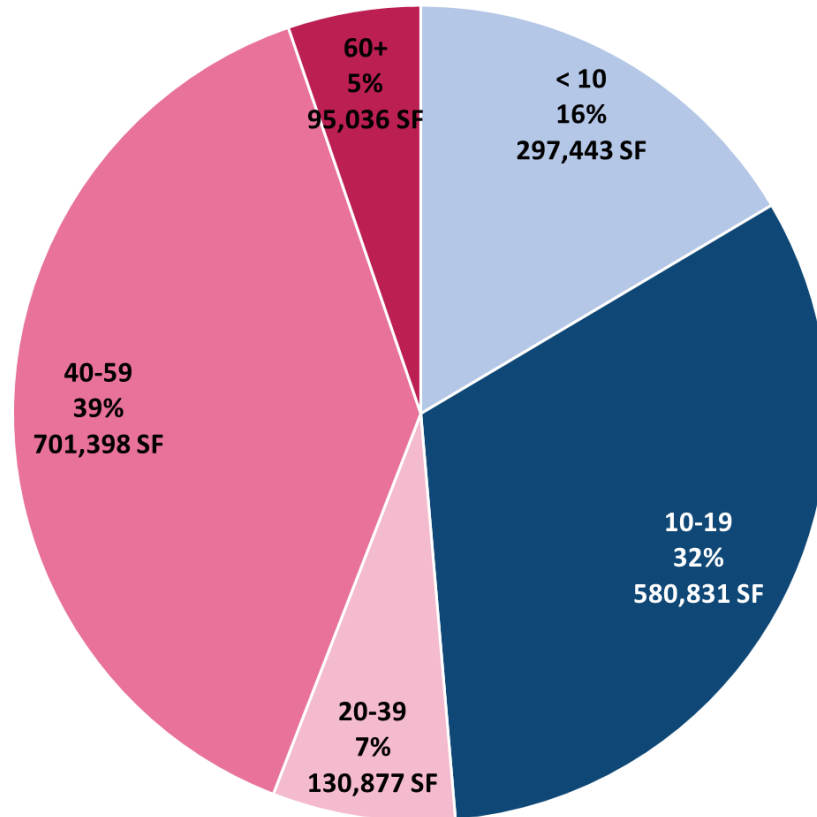
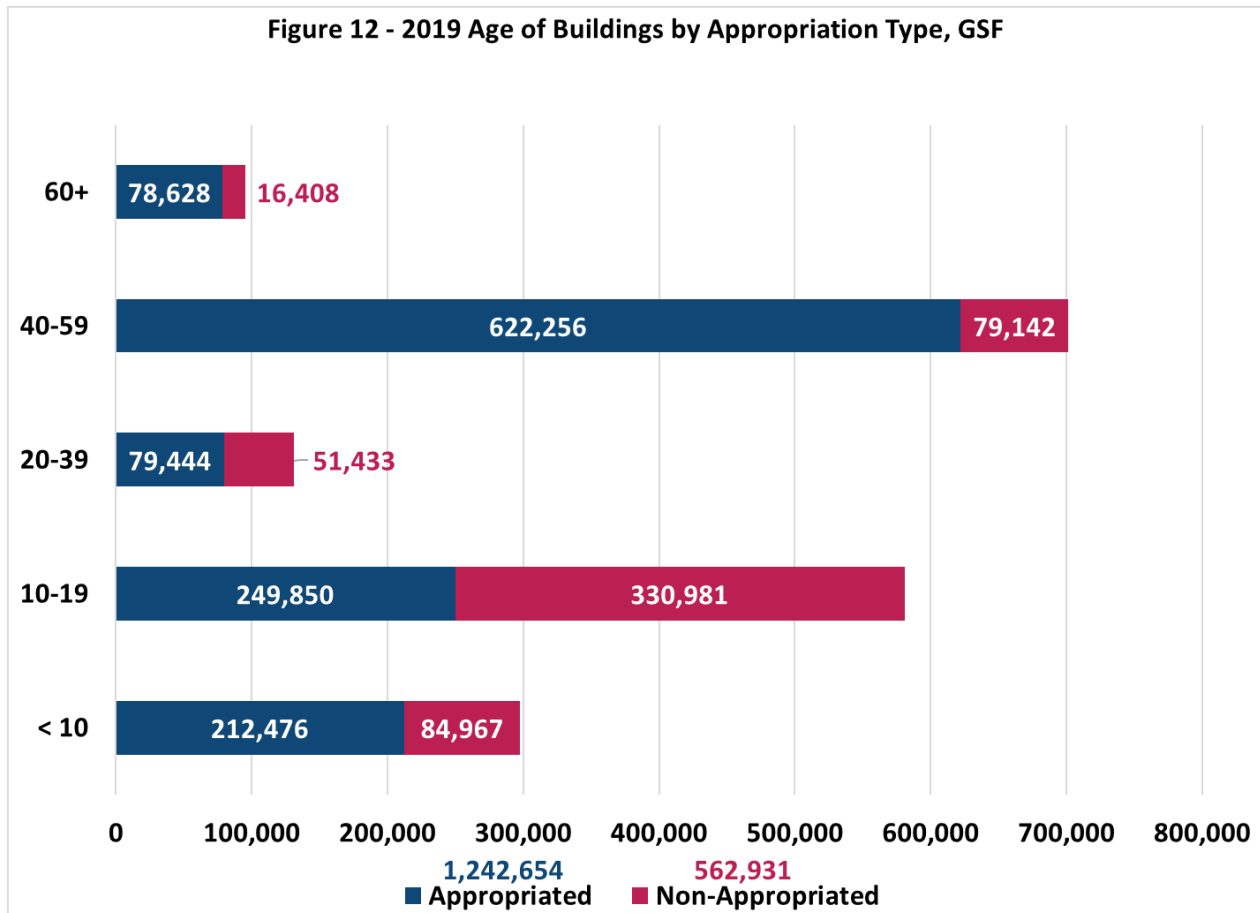
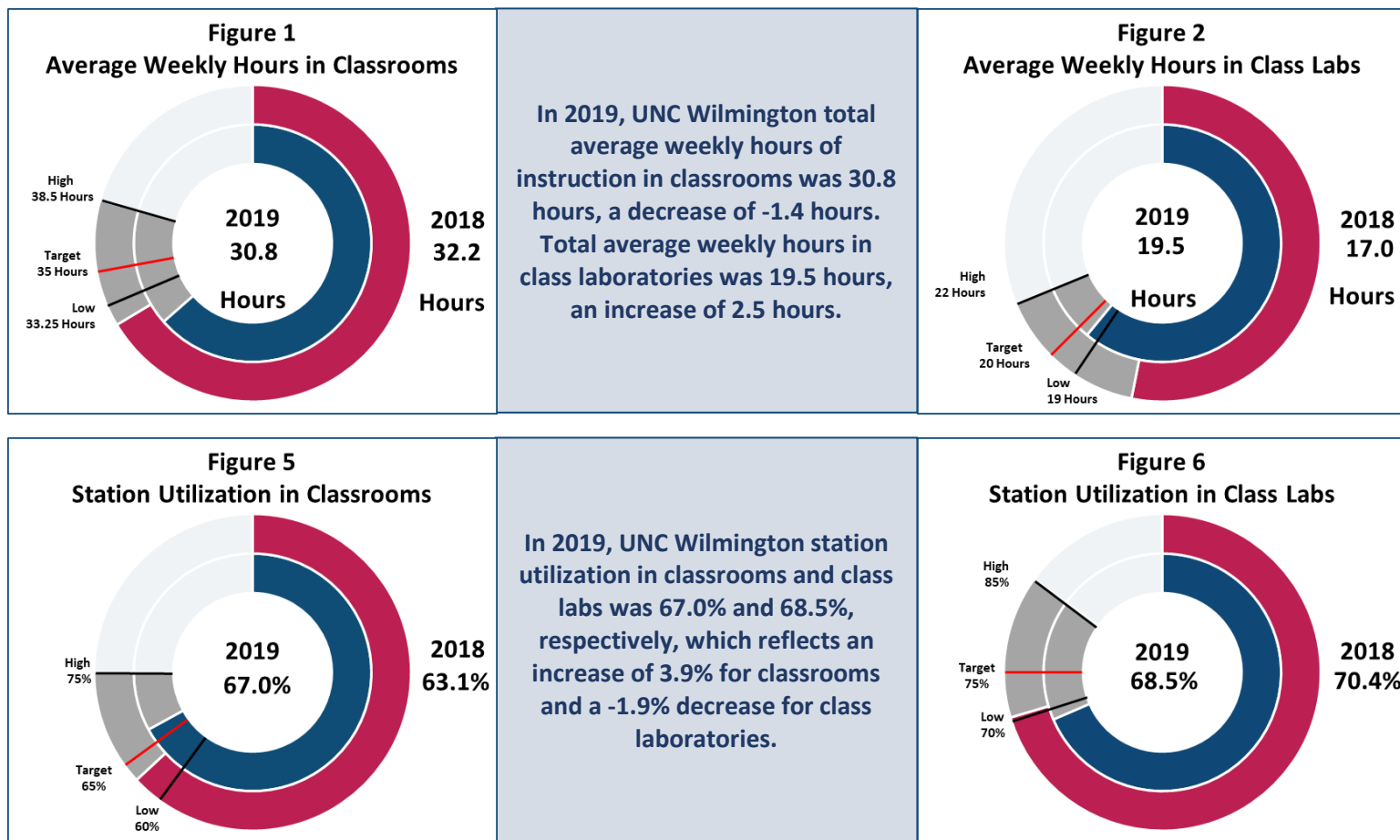


Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



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

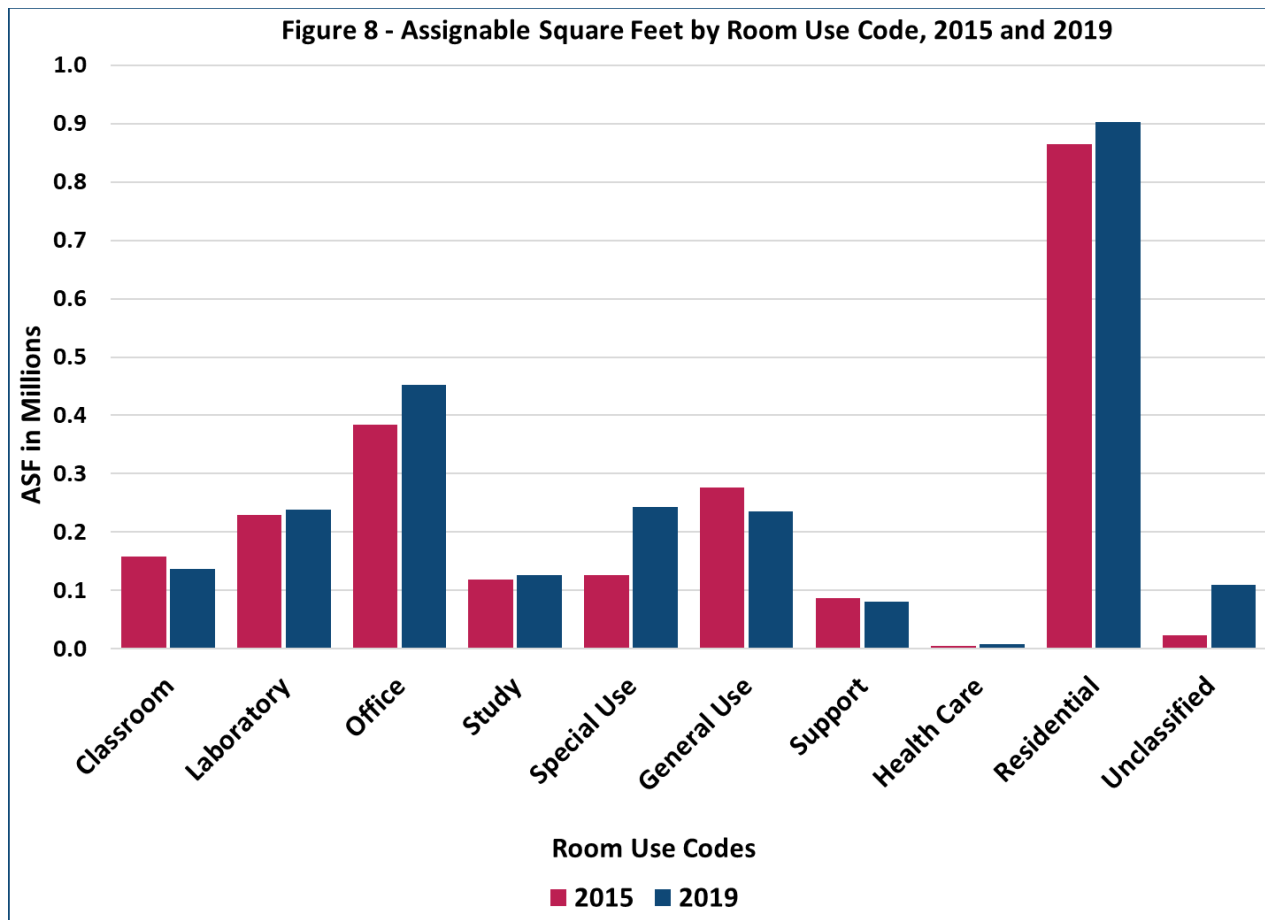
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at UNC Wilmington decreased from 2,560,265 to 2,533,267, or -1.1% from the previous year.

Program	Assignable Space by Program			
	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	486,574	19.2%	21.0%	-1.7%
Research	123,175	4.9%	5.2%	-0.3%
Public Service	20,625	0.8%	0.9%	-0.1%
Student Service	1,369,605	54.1%	56.0%	-1.9%
Other	533,288	21.1%	17.0%	4.1%



Building Characteristics

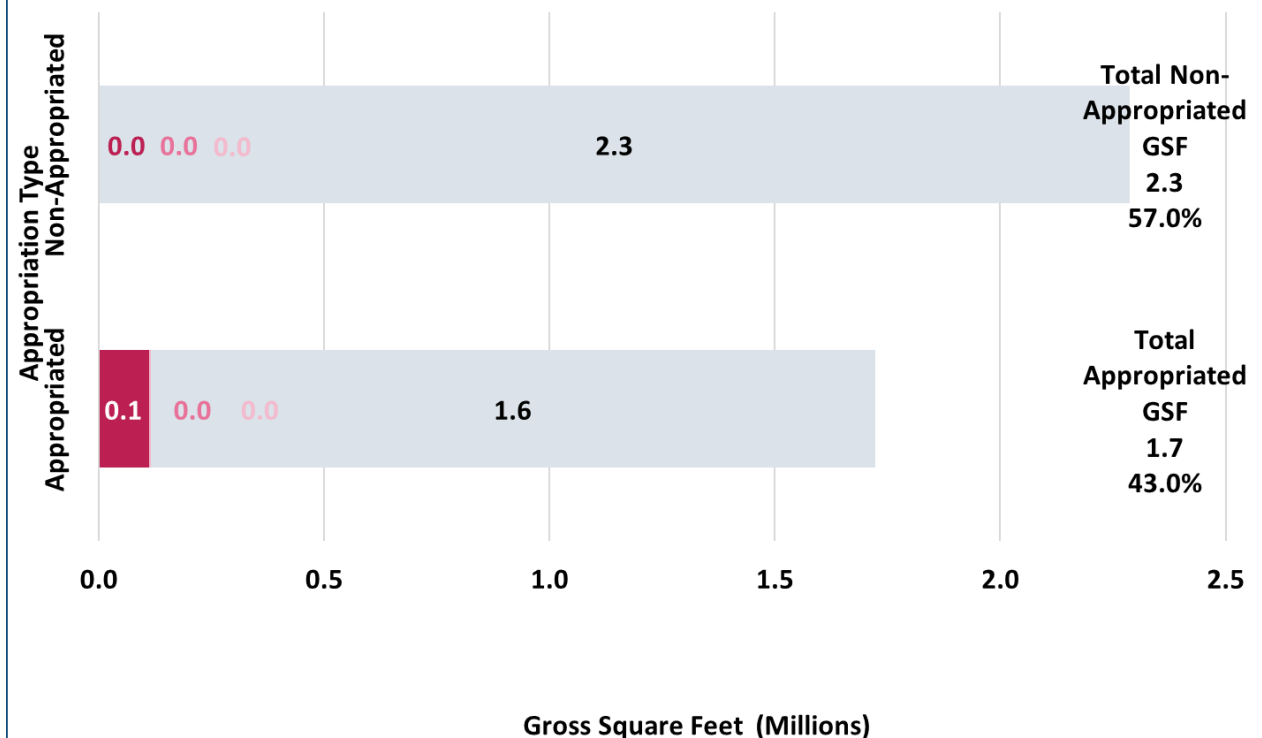
University North Carolina Wilmington has 4,009,511 gross square feet of space comprised of 161 buildings (38 residential, 123 non-residential; 69 appropriated, 92 non-appropriated; 126 owned, 9 leased, 26 under other agreement terms) with 2,533,267 square feet of assignable space, having decreased by 11.4% within the last five years. Since 2018, gross square footage has decreased by 25,743 SF, or .6%.

University North Carolina Wilmington Building Characteristics	
161 Total Buildings	
	126 Owned
69 Appropriated	9 Leased
92 Non-appropriated	26 Other Agreement
<hr/> 161 Total	<hr/> 161 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019



Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019



University North Carolina Wilmington Summary

Figure 11 - Age of Buildings (Years), GSF

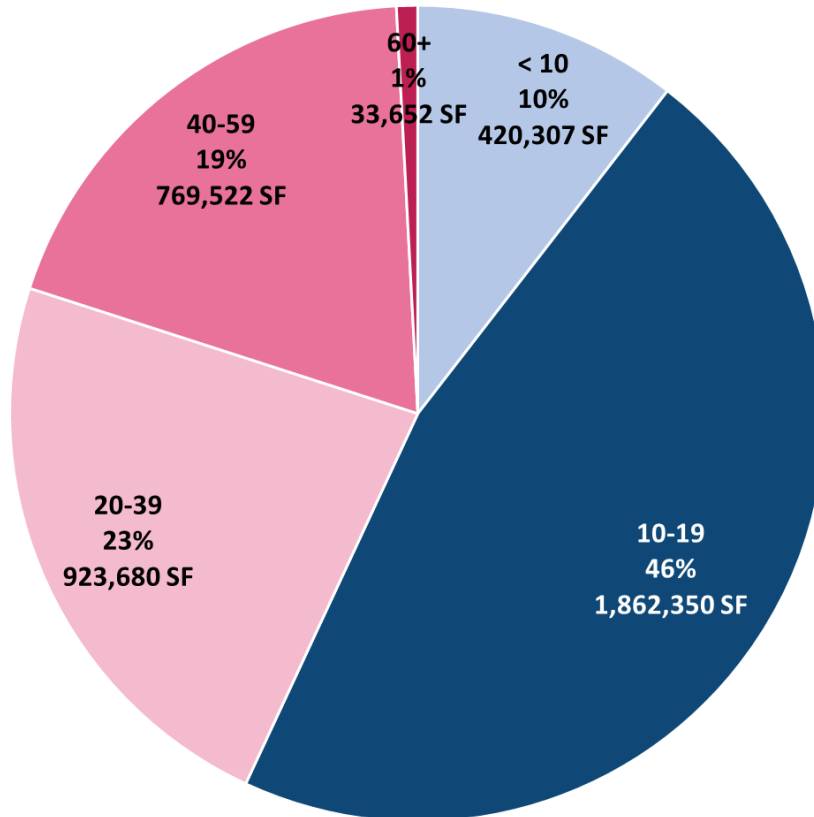
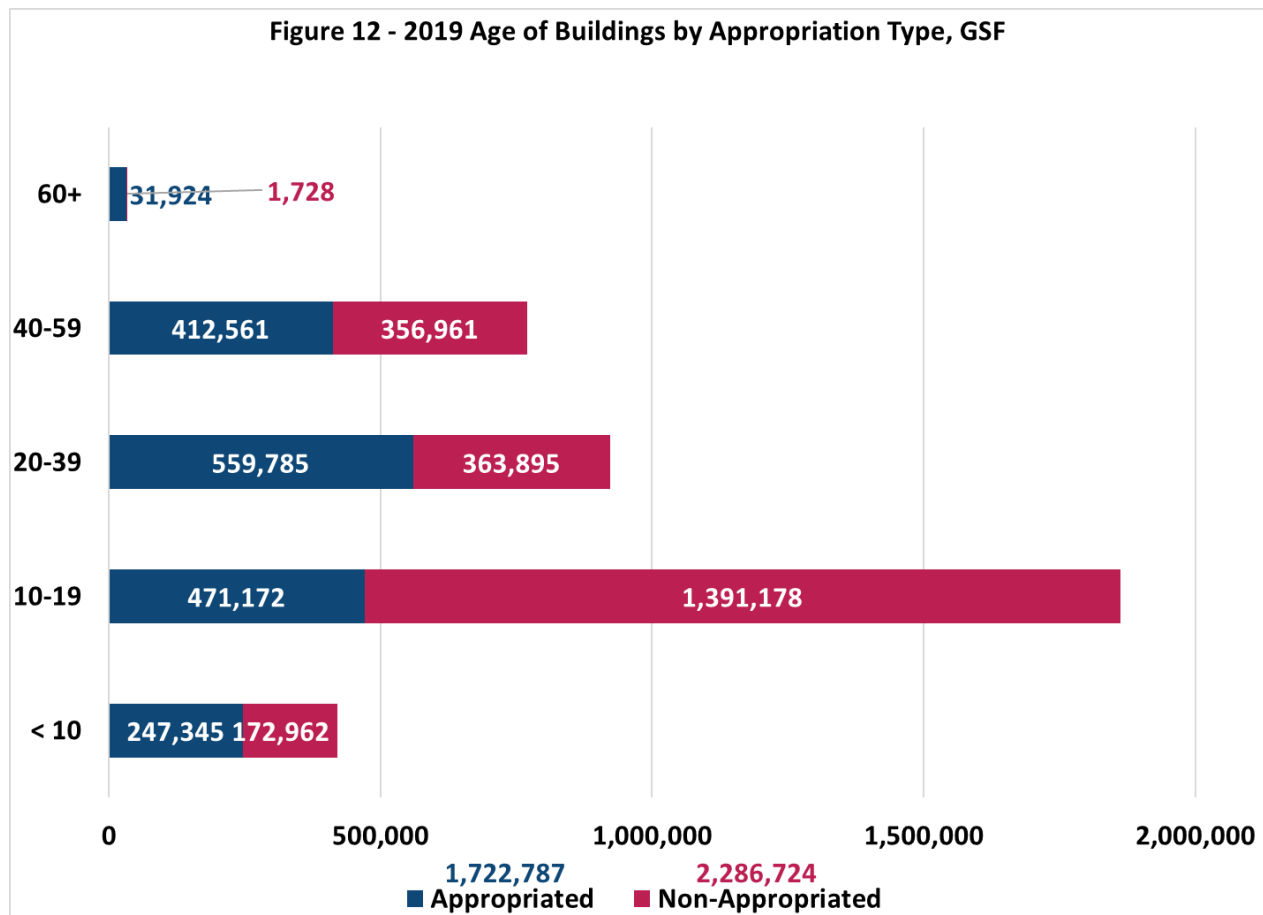
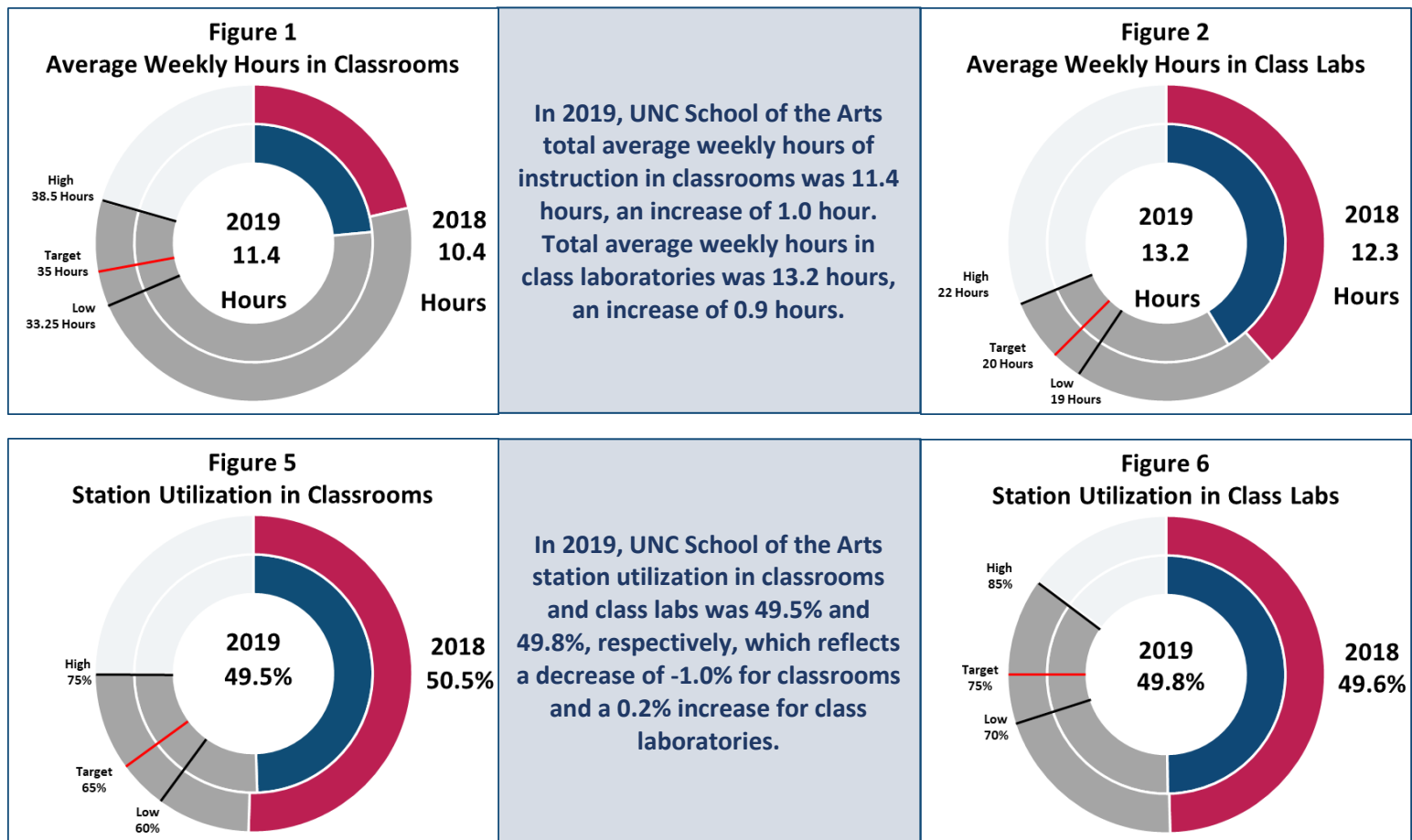


Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



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

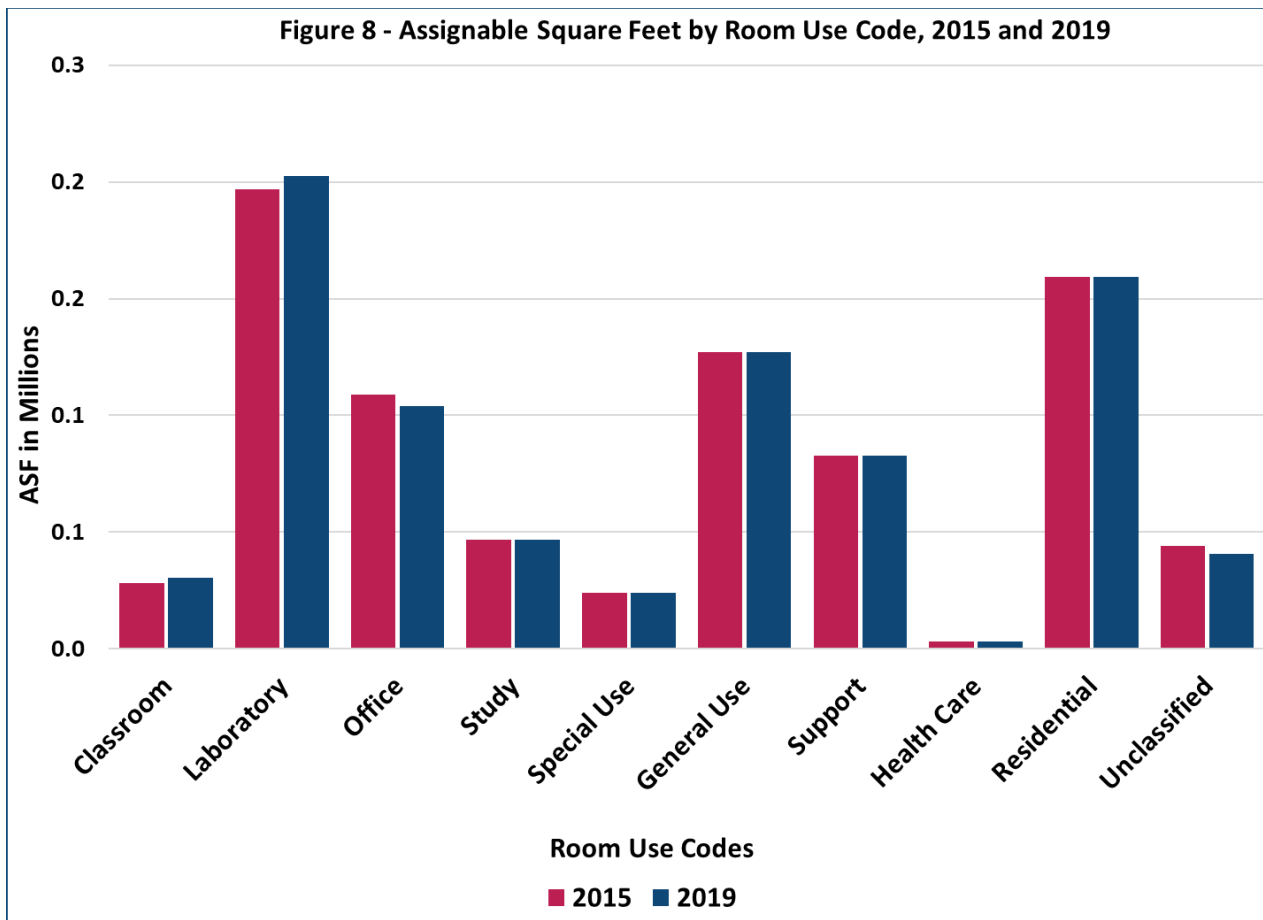
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at UNC School of the Arts remained at 820,449.

Program	Assignable Space by Program			
	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	324,929	39.6%	38.9%	0.7%
Research	0	0.0%	0.0%	0.0%
Public Service	25,042	3.1%	3.1%	0.0%
Student Service	245,557	29.9%	29.9%	0.0%
Other	224,921	27.4%	28.1%	-0.7%



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 820,449 square feet of assignable space, decreasing 0.02% within the last five years. Since 2018, 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
65 Total	5 Other Agreement
65 Total	65 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

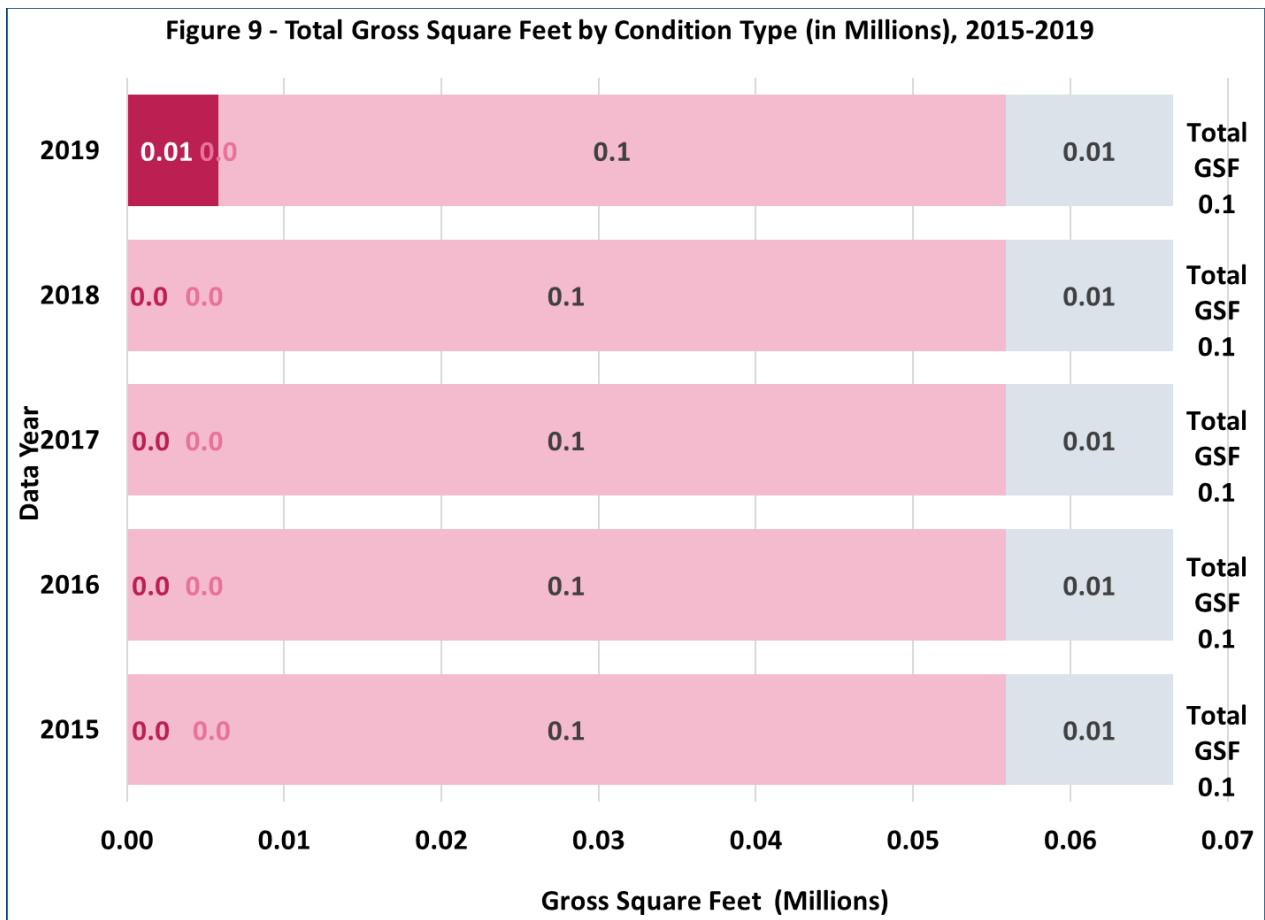
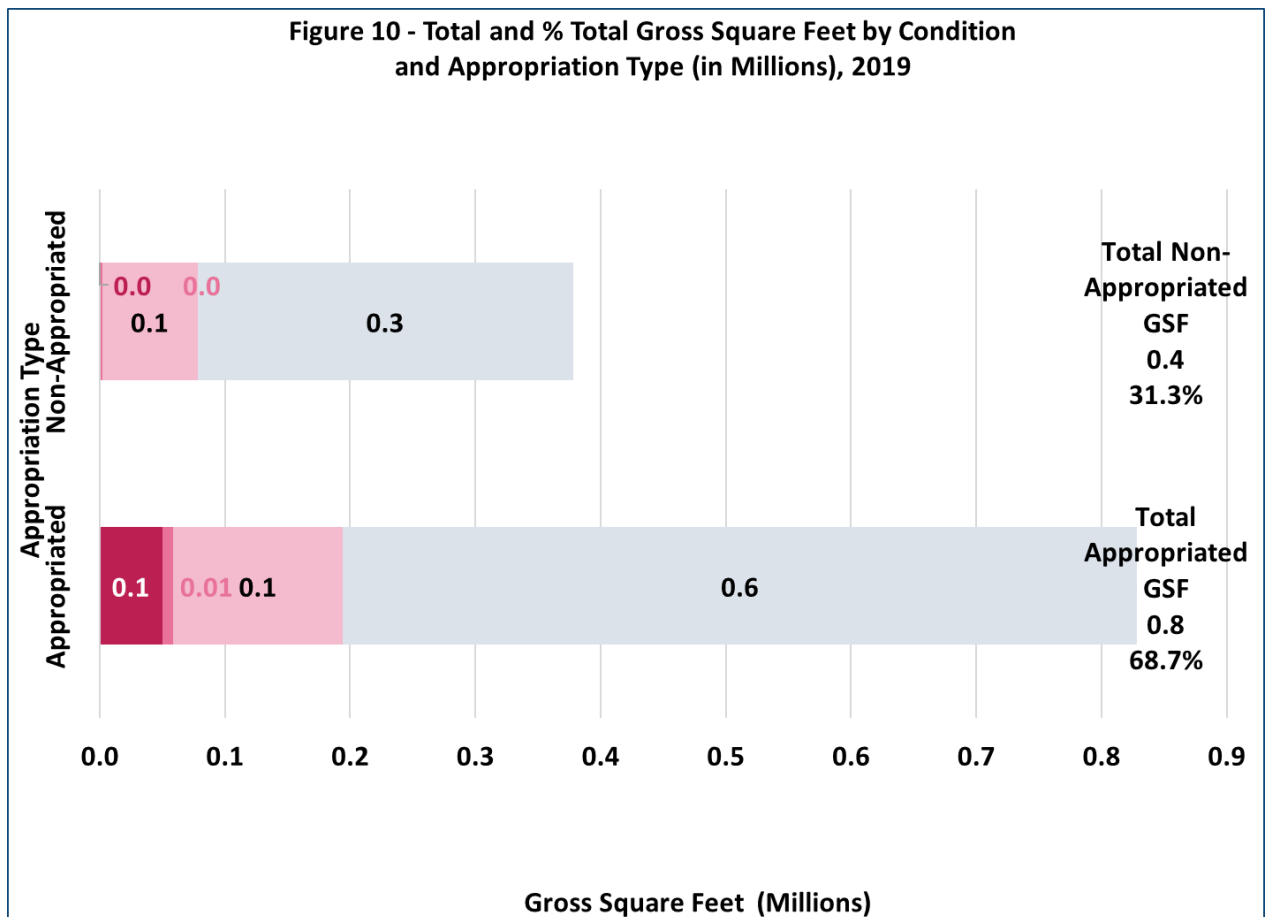


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019



University of North Carolina School of the Arts Summary

Figure 11 - Age of Buildings (Years), GSF

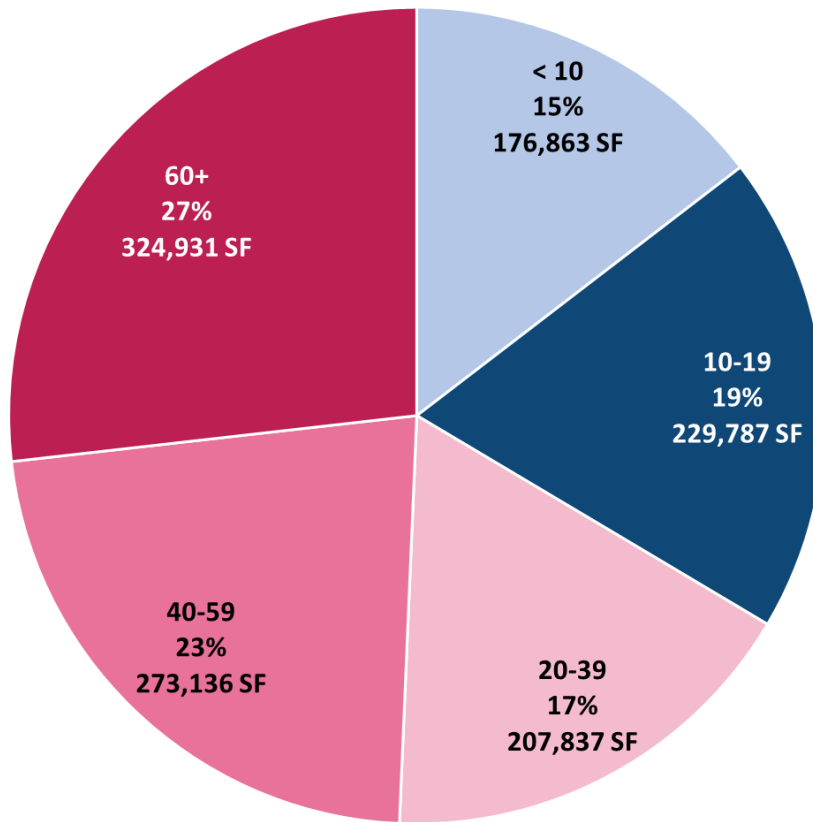
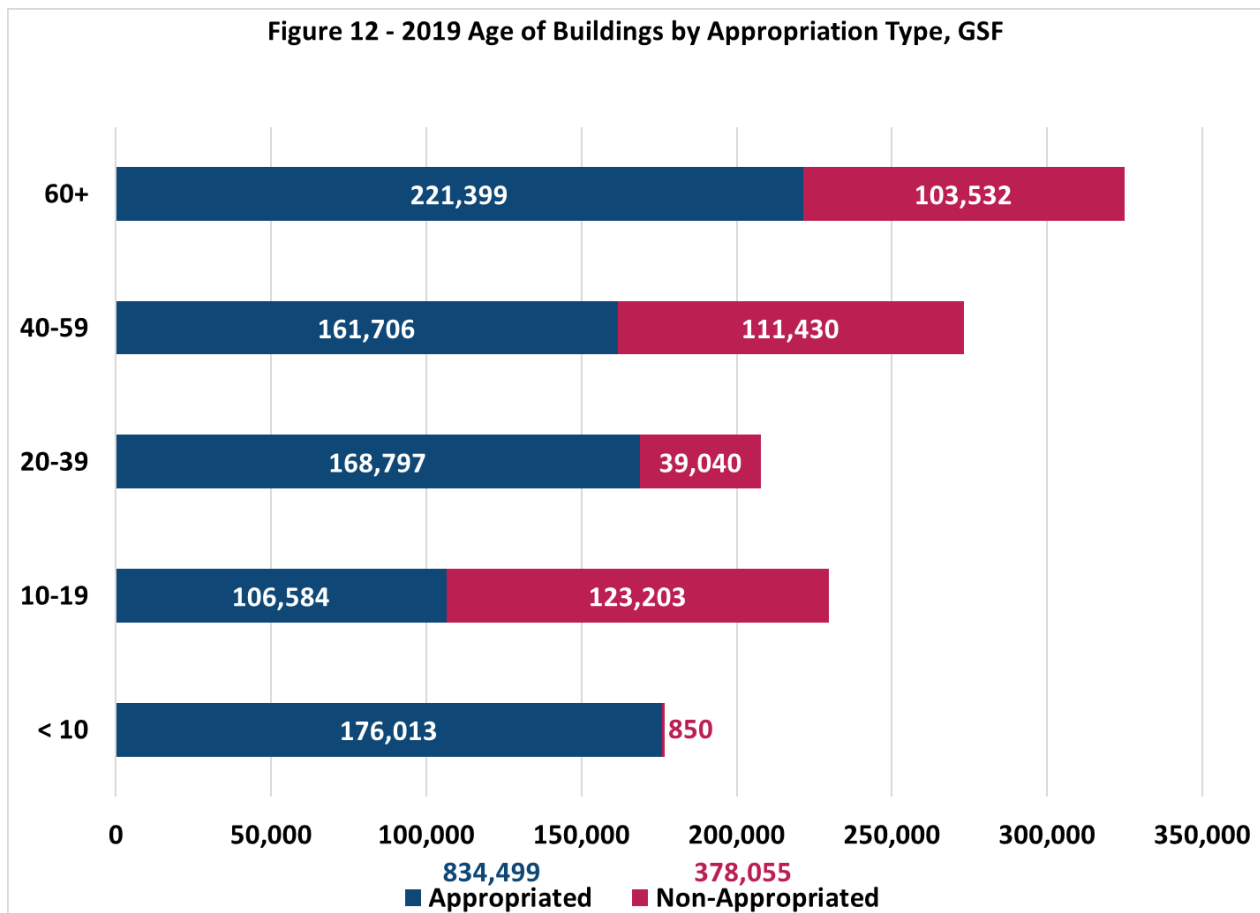


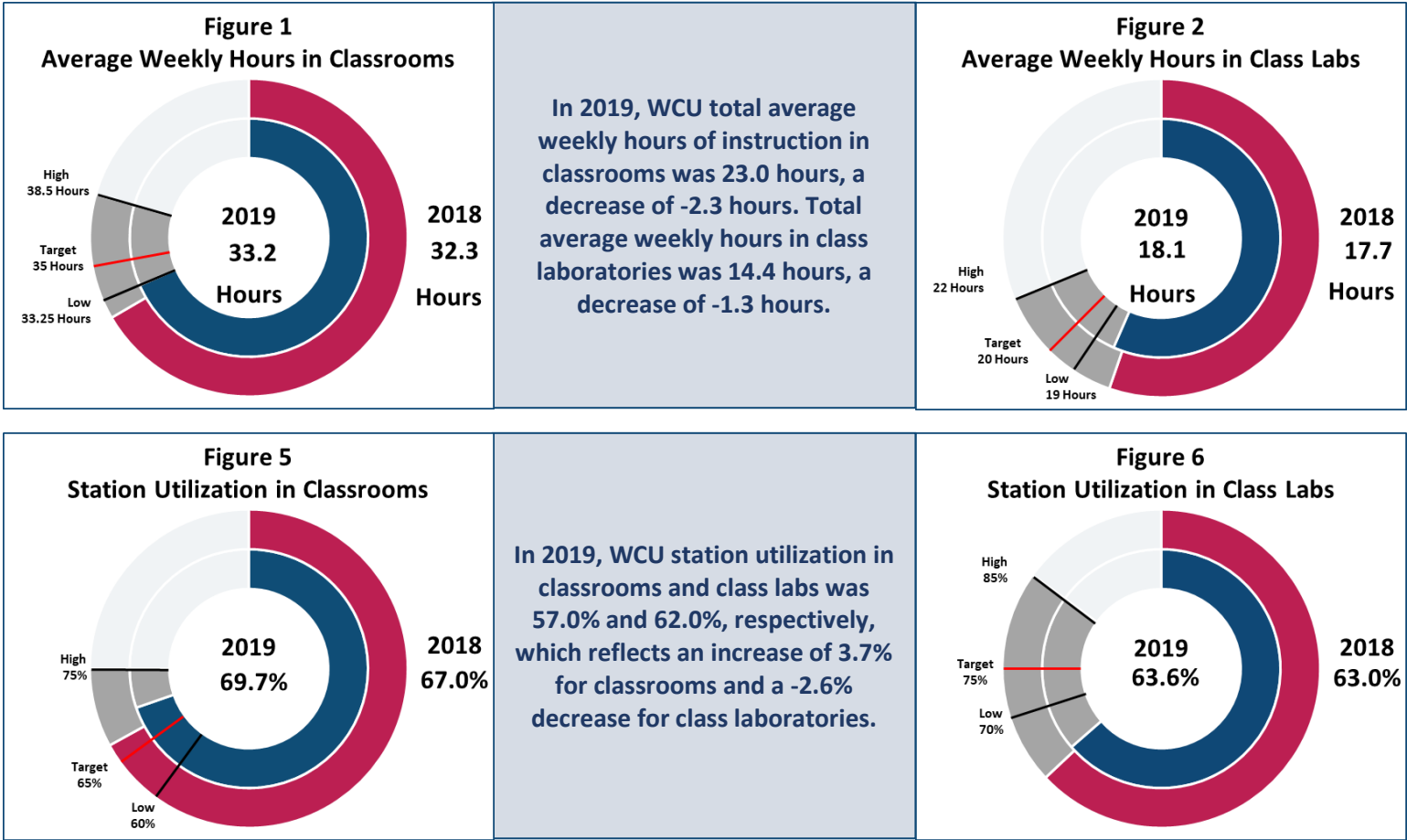
Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



Western Carolina University Summary

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

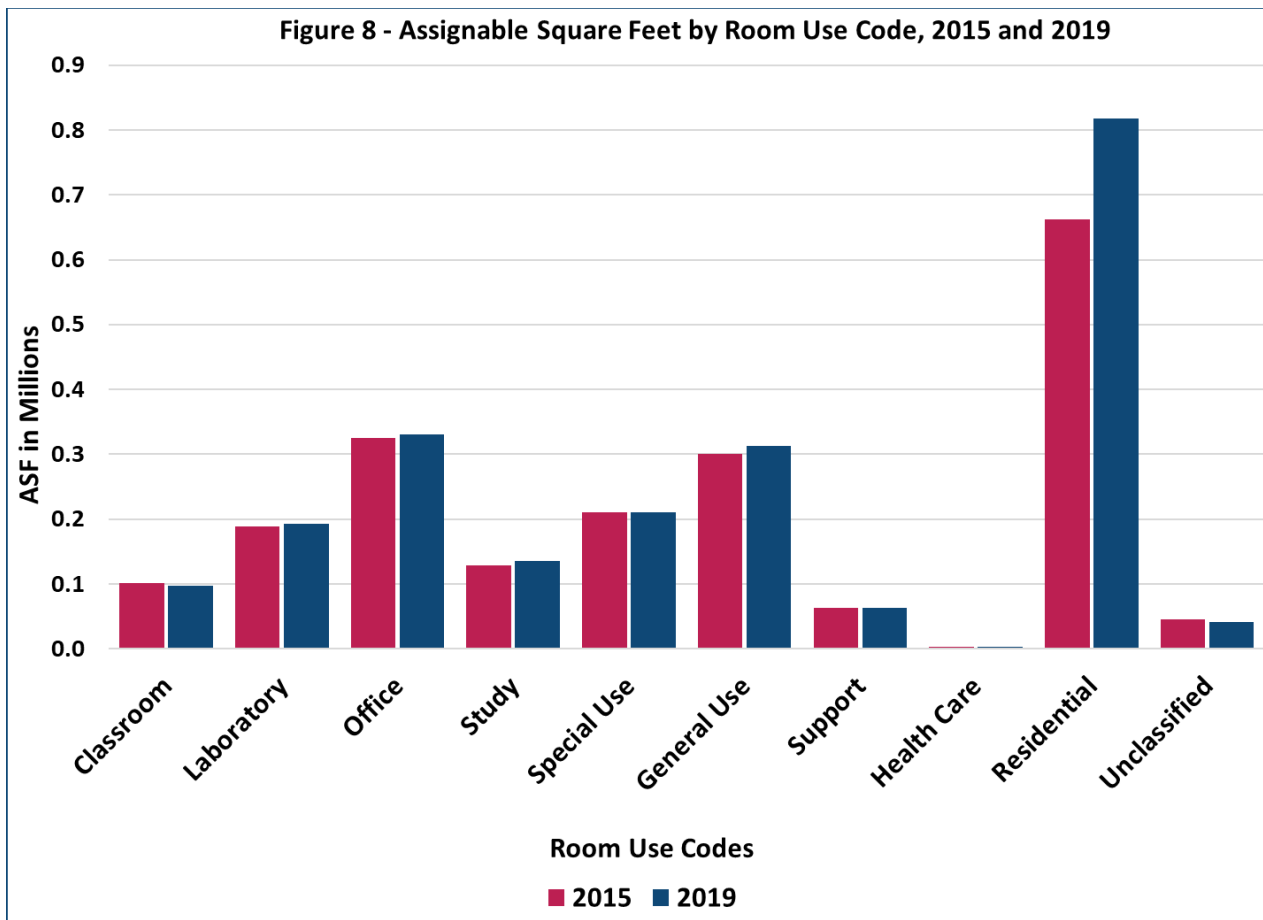
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at WCU increased from 2,104,341 to 2,204,250, or 4.7% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	478,008	21.7%	23.9%	-2.2%
Research	29,536	1.3%	1.5%	-0.1%
Public Service	4,908	0.2%	0.2%	0.0%
Student Service	1,212,247	55.0%	51.0%	4.0%
Other	479,551	21.8%	23.4%	-1.6%



Building Characteristics

Western Carolina University has 3,489,788 gross square feet of space comprised of 109 buildings (39 residential, 70 non-residential; 55 appropriated, 54 non-appropriated; 85 owned, 2 leased, 22 under other agreement terms) with 2,204,250 square feet of assignable space, having increased by 8.6% within the last five years. Since 2018, gross square footage has increased 99,909 SF, or 4.7%.

Western Carolina University Building Characteristics	
109 Total Buildings	
	85 Owned
55 Appropriated	2 Leased
54 Non-appropriated	22 Other Agreement
109 Total	109 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

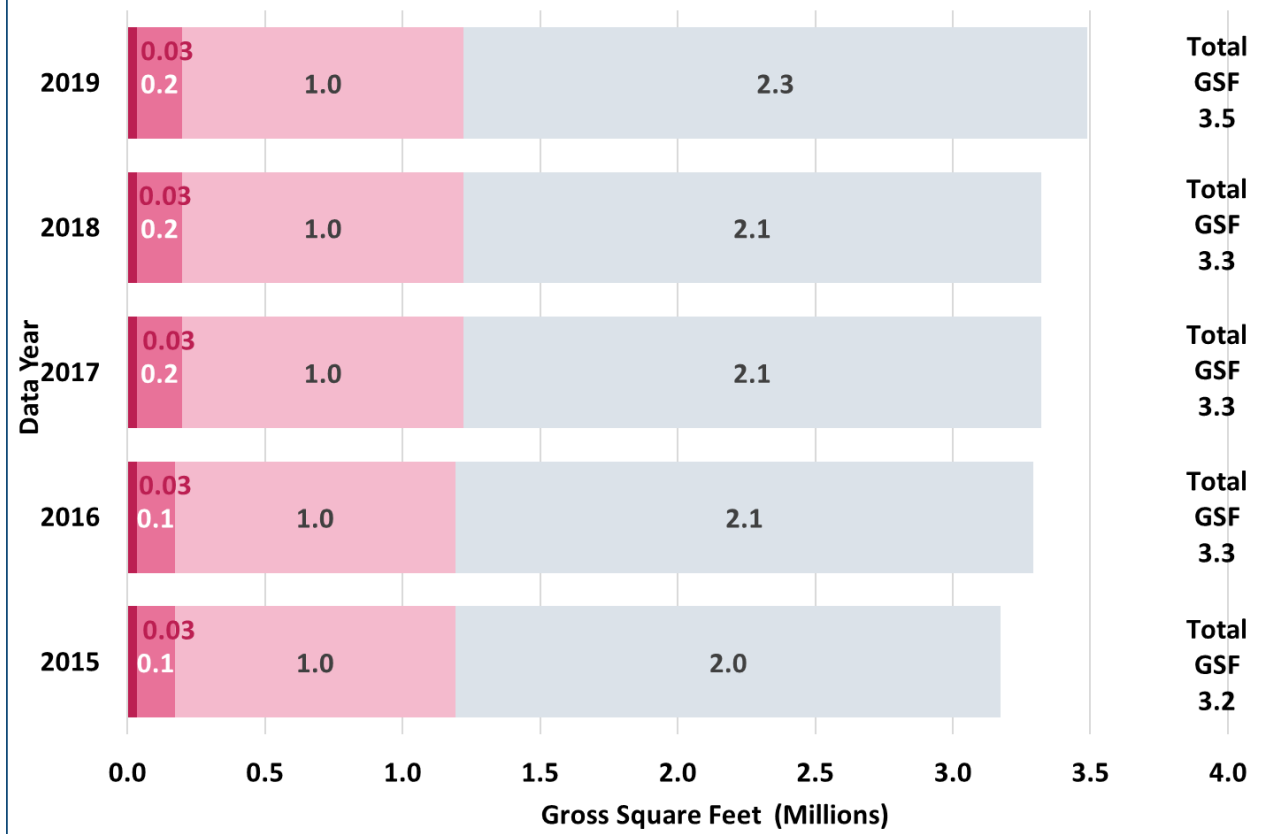


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019

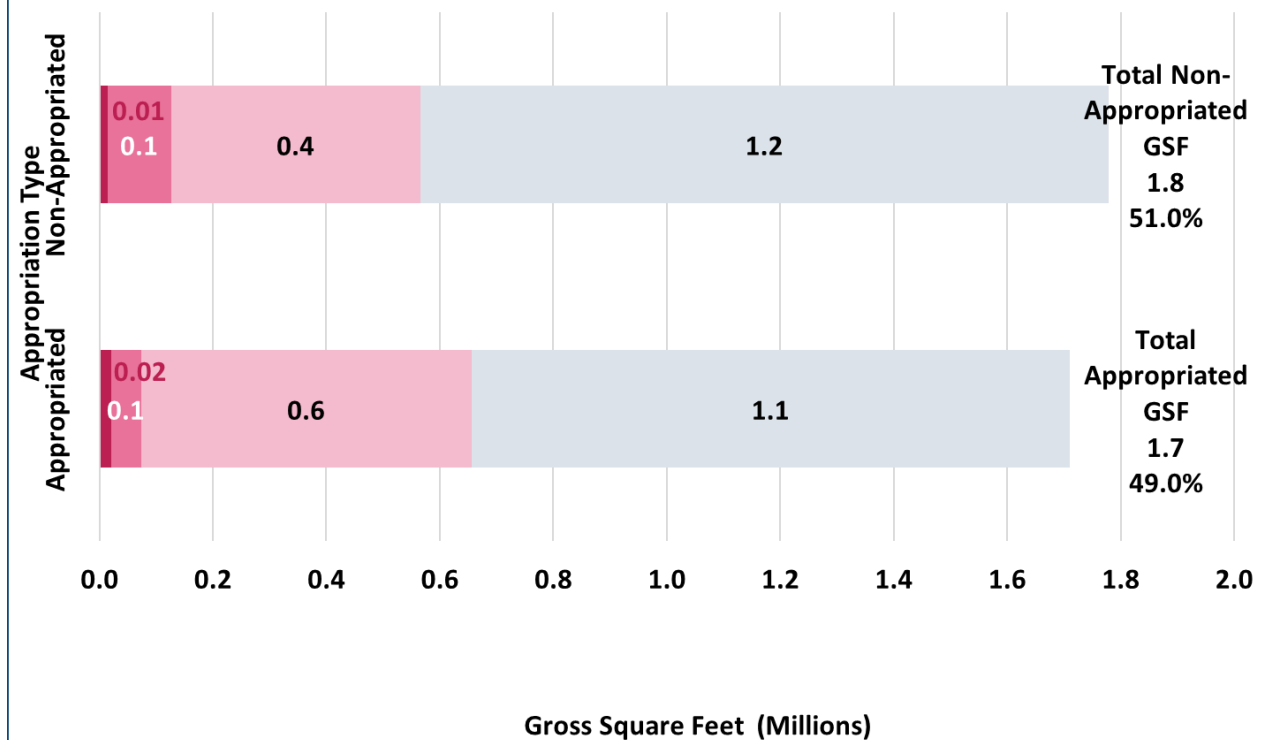


Figure 11 - Age of Buildings (Years), GSF

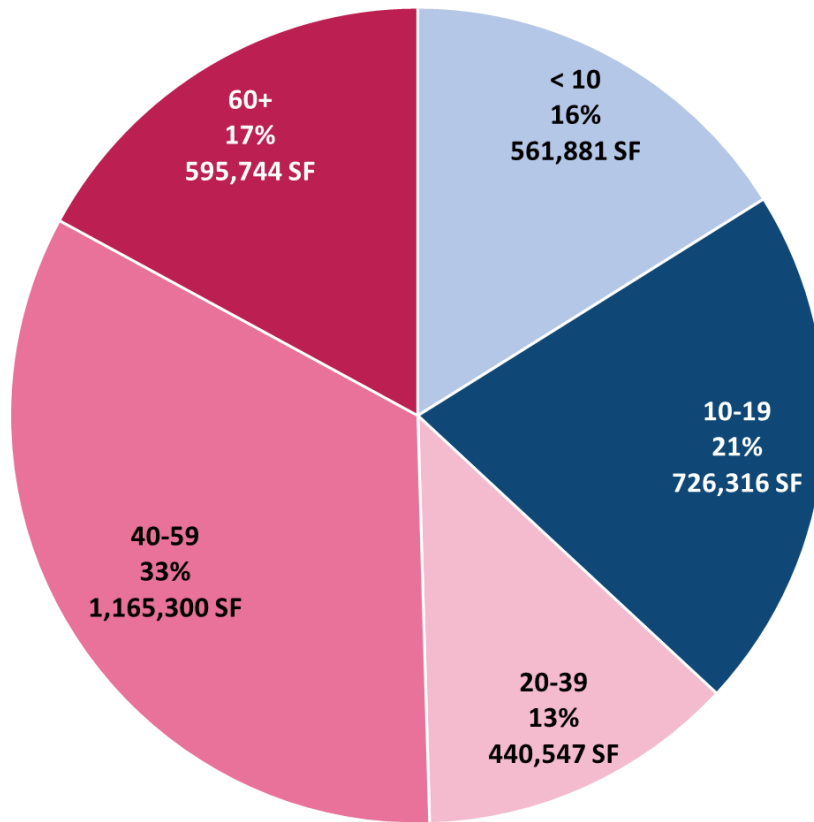
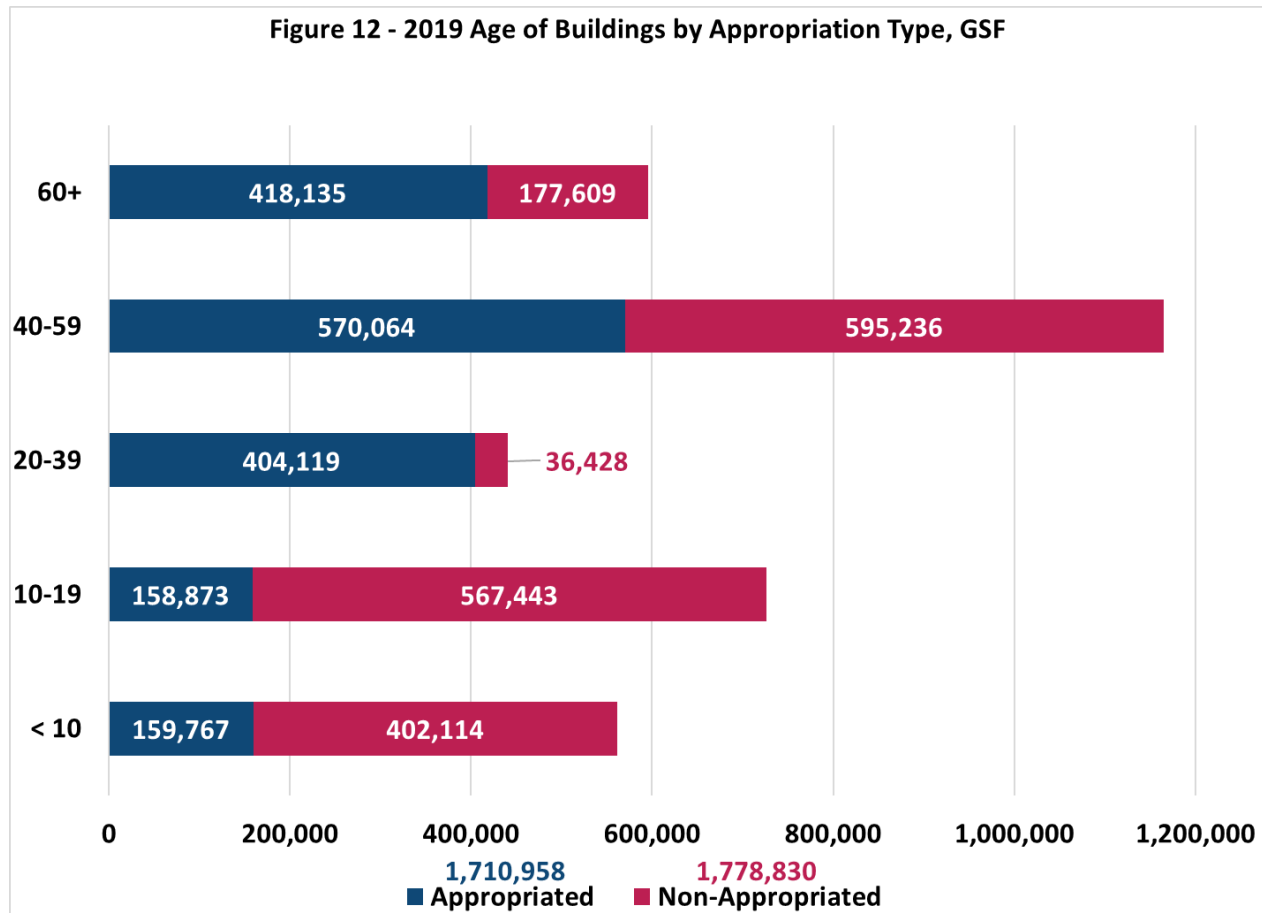
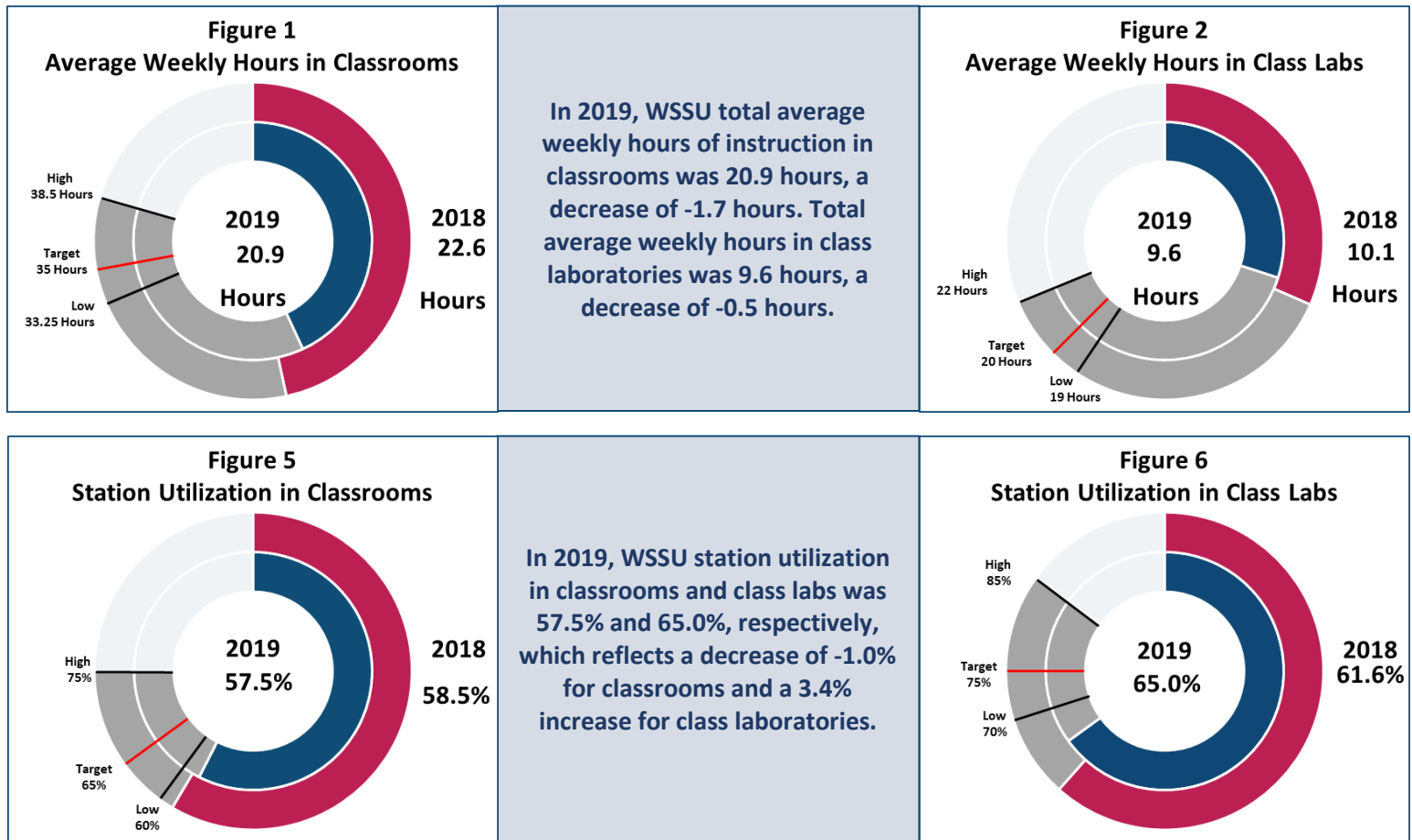


Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF



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

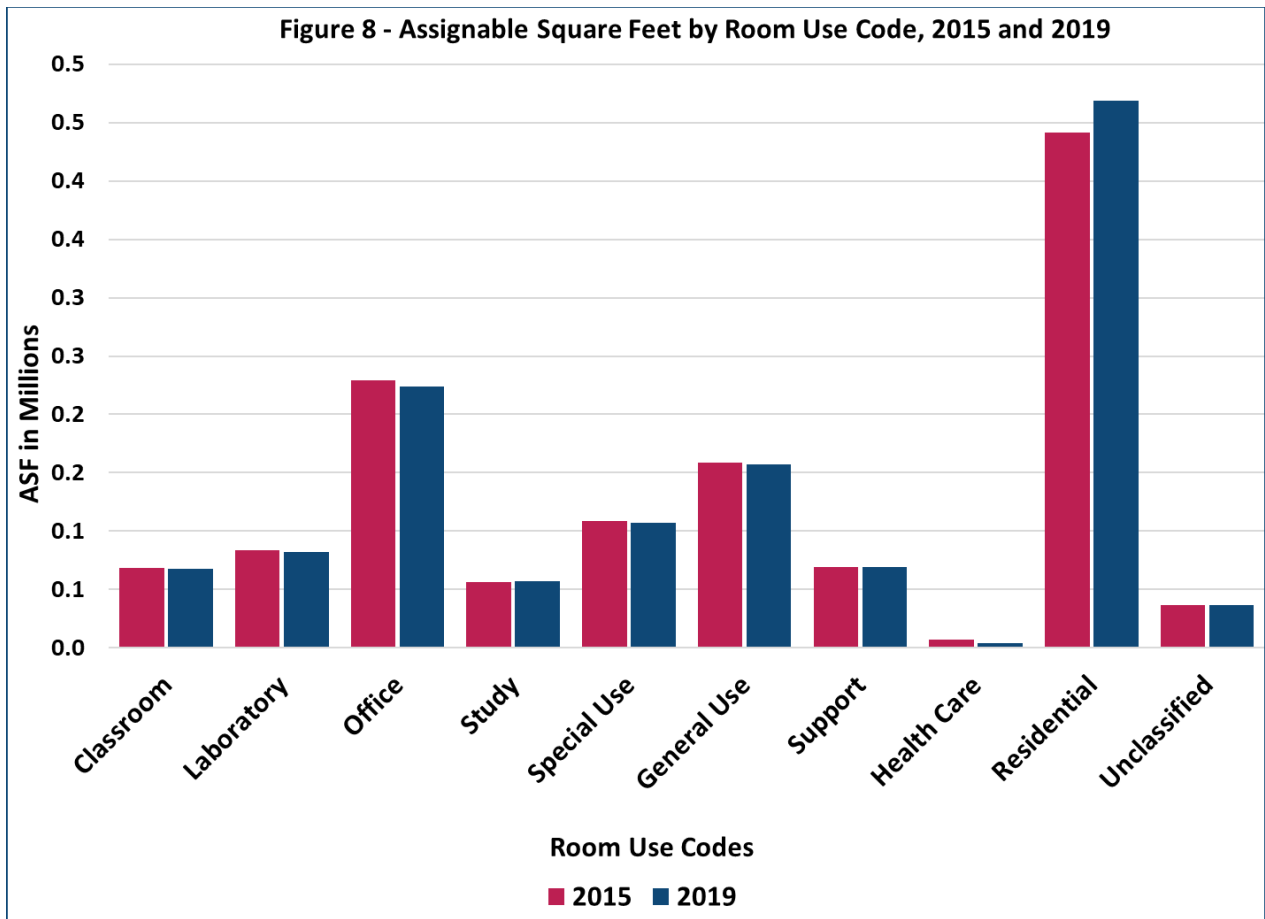
Utilization of Space



Room Space Characteristics

In 2019, the assignable square feet at WSSU decreased from 1,301,539 to 1,273,375, or -2.2% from the previous year.

Assignable Space by Program				
Program	Total ASF	% of Total in 2019	% of Total in 2015	% Change
Instruction	255,323	20.1%	20.8%	-0.8%
Research	33,825	2.7%	2.8%	-0.1%
Public Service	4,205	0.3%	0.3%	0.0%
Student Service	699,714	54.9%	53.6%	1.4%
Other	280,308	22.0%	22.5%	-0.5%



Building Characteristics

Winston-Salem State University has 1,963,665 gross square feet of space comprised of 52 buildings (16 residential, 36 non-residential; 26 appropriated, 26 non-appropriated; 31 owned, 7 leased, 14 under other agreement terms) with 1,273,375 square feet of assignable space, having increased by 1.3% within the last five years. Since 2018, gross square footage has decreased by 49,967 SF, or 2.5%.

Winston-Salem State University Building Characteristics	
52 Total Buildings	
	31 Owned
26 Appropriated	7 Leased
26 Non-appropriated	14 Other Agreement
52 Total	52 Total

Figure 9 - Total Gross Square Feet by Condition Type (in Millions), 2015-2019

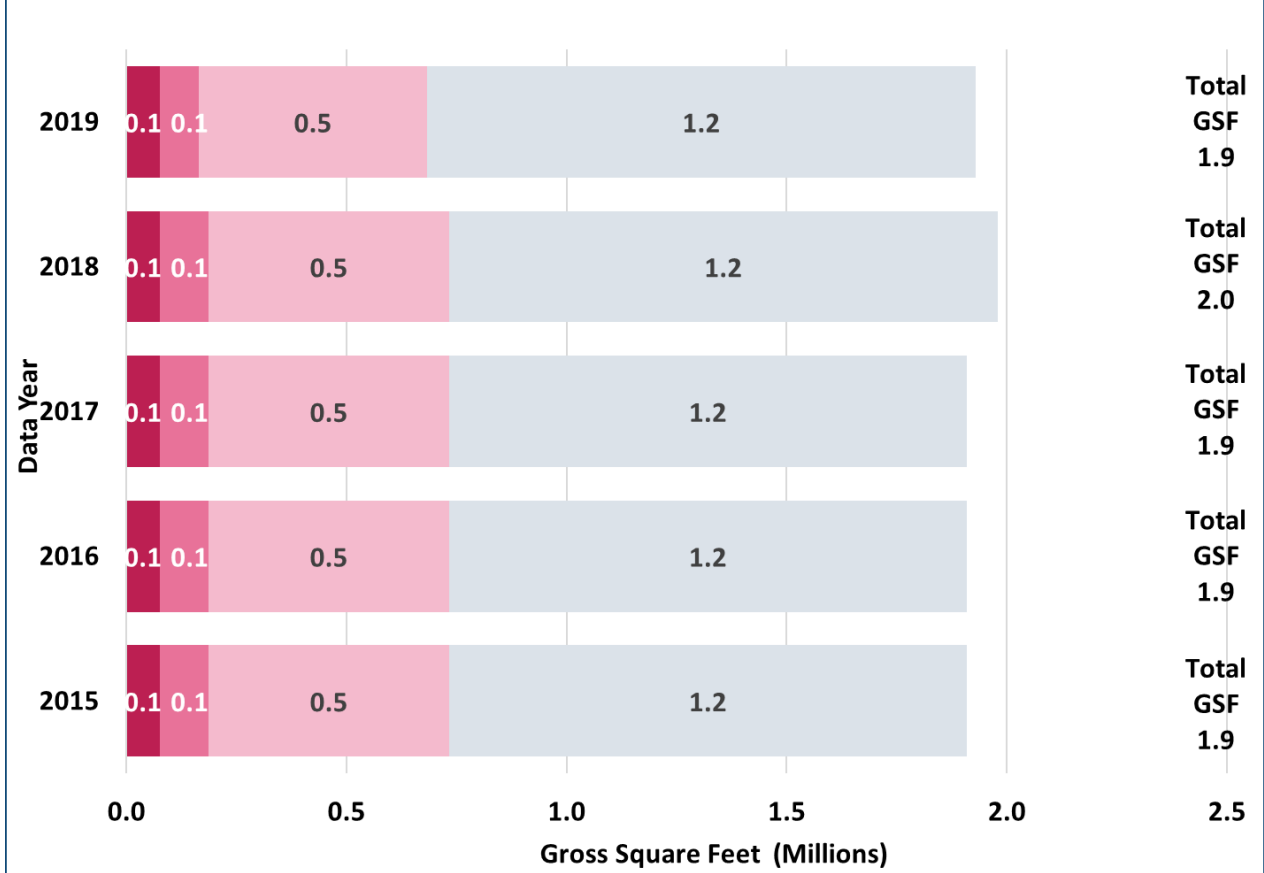
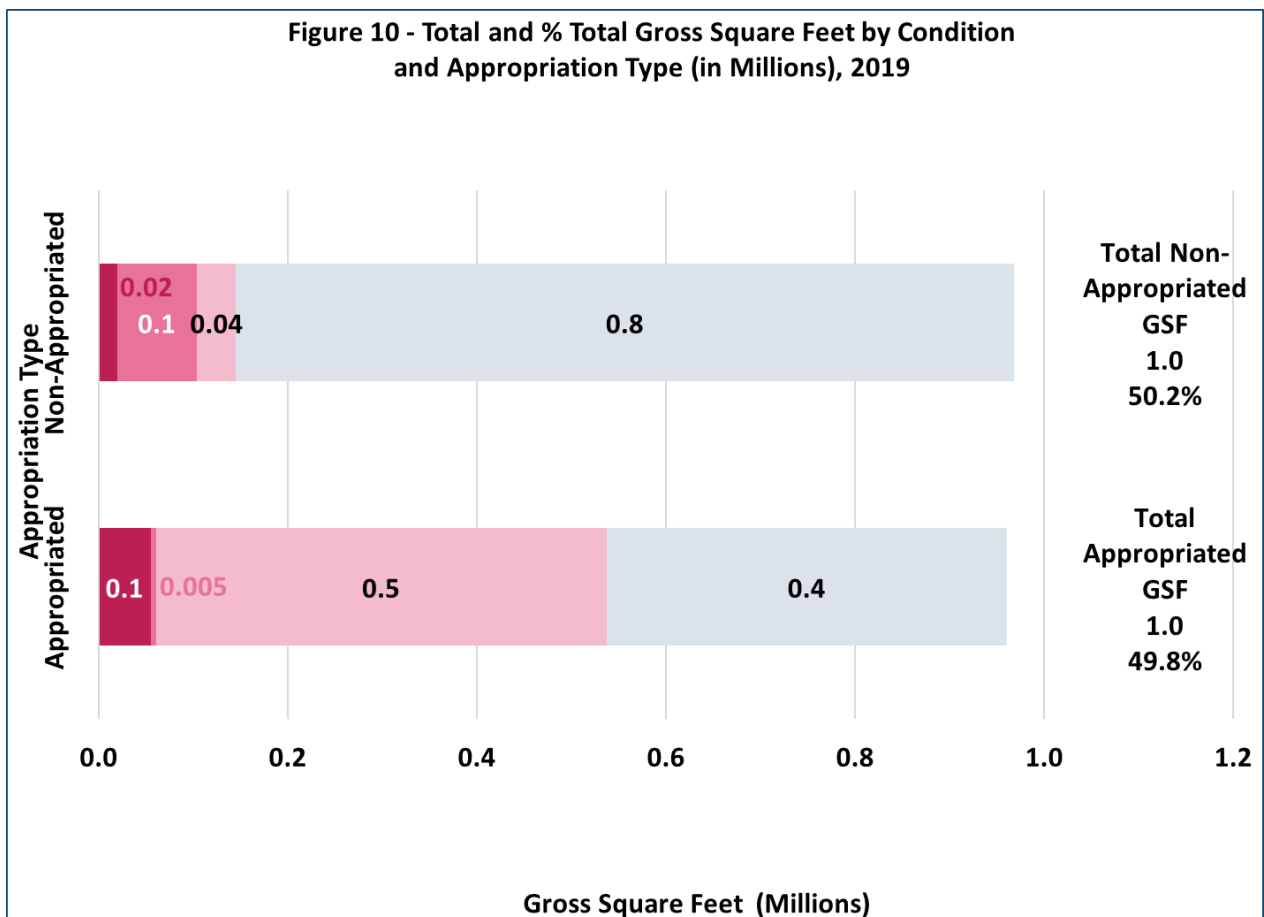


Figure 10 - Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019



Winston-Salem State University Summary

Figure 11 - Age of Buildings (Years), GSF

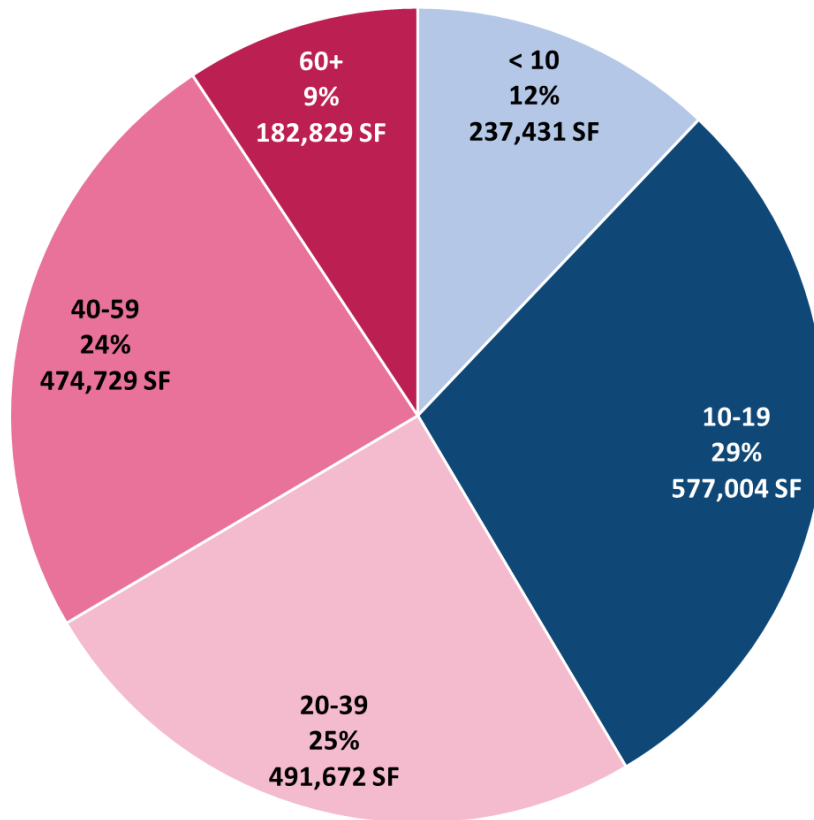
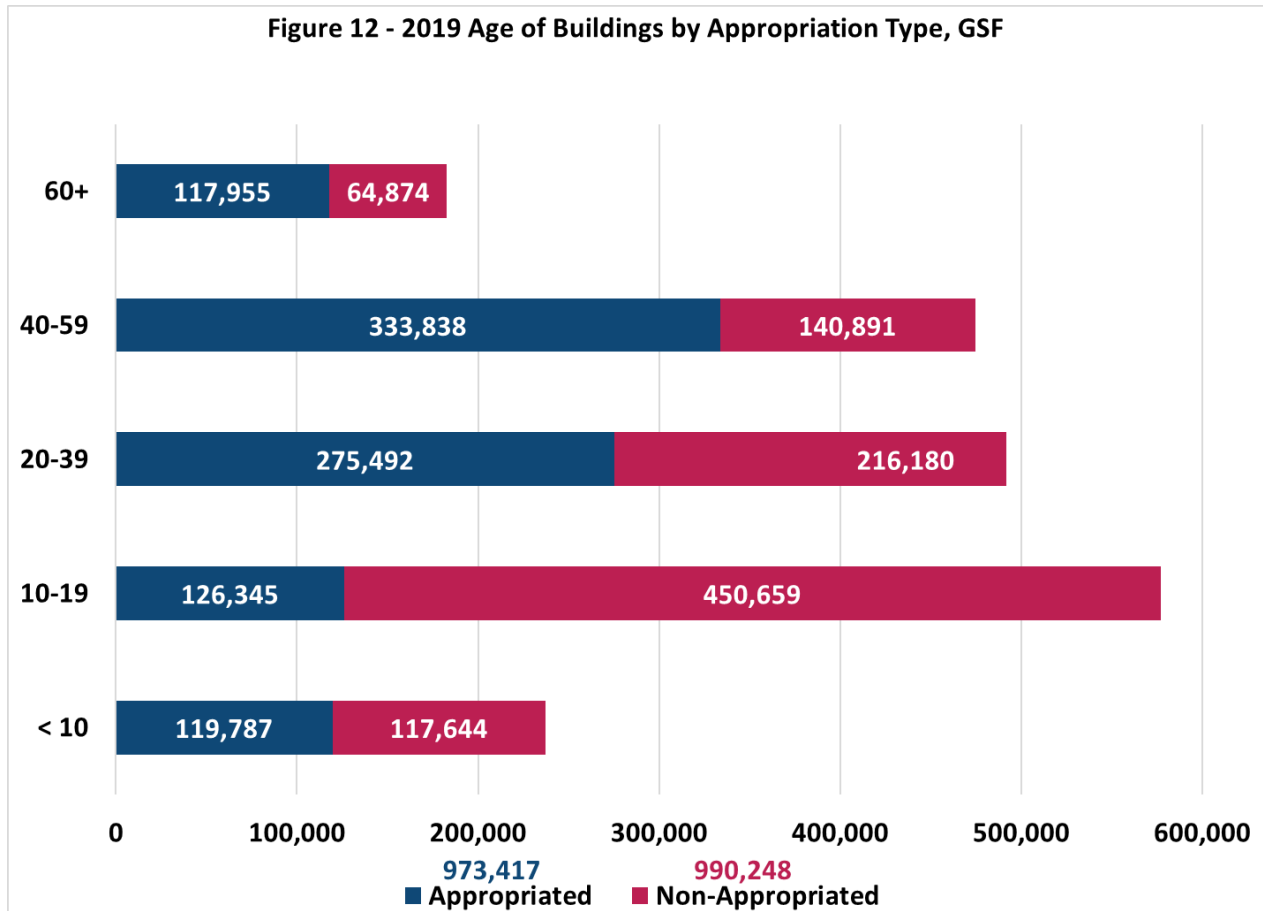


Figure 12 - 2019 Age of Buildings by Appropriation Type, GSF









Legend

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

Figure #	Figure Title	Study Source
Figure 1	Average Weekly Hours in Classrooms	Table 3
Figure 2	Average Weekly Hours in Class Labs	Table 4
Figure 5	Station Utilization in Classrooms	Table 7
Figure 6	Station Utilization in Class Labs	Table 7
Figure 8	Assignable Square Feet by Room Use Code, 2019	Table 15
Figure 9	Total Gross Square Feet by Condition Type (in Millions) 2015-2019)	Table 22
Figure 10	Total and % Total Gross Square Feet by Condition and Appropriation Type (in Millions), 2019	Table 22 (GSF Only)
Figure 11	Age of Buildings (Years), GSF	Table 21
Figure 12	2019 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