

5/9/2021

Exploring Barriers to Campus Space and Resources: Is Our Campus ADA Compliant?

By Dr. Radscheda Nobles

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Introduction

Colleges and university campuses are a melting pot of students from all walks of life. One of the fastest-growing groups on college campuses are students with disabilities. The National Center for education statistics (2017) revealed that 19% of undergraduate students and 12% of graduate students have disabilities. The proportion of undergraduate students with a disability nearly quadrupled between 1978 and 2011 (Snyder et al., 2018). Unfortunately, students with disabilities face unique barriers to accessing and being included in higher education. Barriers exist for the structural and social educational experiences of students with disabilities (Synder et al., 2018). These barriers are not exclusive to students and can have a detrimental effect and cause harm to disabled staff and faculty.

Due to the Americans with Disability Act of 1990 and Section 504 of the Rehabilitation Act of 1973, campuses must provide equal access and reasonable accommodations for students, staff, and faculty with disabilities. More specifically, Section 504 requires institutions to provide access to all aspects of college campus and programming. While most higher education institutions have made a good-faith effort to comply with ADA guidelines, one does not have to look hard to find remaining areas of neglect. It is critical to understand that ADA compliance does not fall primarily on the Office Disability Services (ODS), but it is the responsibility of the entire institution. This project assessed the resources and campus space for students, staff, faculty, and visitors with disabilities and impairment.

Background /Problem Statement

In 1990, the ADA was signed into law to prohibit discrimination against people with disabilities in all areas of public life (Wisbey & Kalivoda, 2011). In regard to colleges and

universities, the federal legislation requires campuses to provide equal access and reasonable accommodation for students, staff, and faculty. For example, campuses were responsible for making their courses, campuses, activities, and services accessible to people with disabilities (Wisbey & Kalivoda, 2011). The primary responsibility of higher education is for the community at large to be accessible for all.

Most colleges and universities have met the essential criteria set forth by the ADA guidelines. Automatic door openers, ramps, reconfiguration of furniture, and braille signage have fortunately become standard elements in today's higher education facilities. But in many cases, compliance with accessibility for digital and web-based technologies has fallen behind. However, one does not have to look hard to find remaining areas of limitation and neglect. For example, the lack of faculty and staff training on ADA compliance and how to deliver accommodations is problematic. If faculty or staff lack understanding of ADA, they may inadvertently play a role in making the institution non-compliant.

The ADA has been around for thirty years, but we continue to face challenges when it comes to issues of accessibility for individuals with disabilities (Dowrick et al., 2005). These challenges have detrimental effects on students and cause harm. These outcomes and barriers are not exclusive to students; disabled staff and faculty are also impacted. Dowrick et al. (2005) demonstrated that barriers to accessibility result in lower attendance and graduation rates for students with disabilities than students without disabilities (Dowrick et al., 2005).

In conclusion, as more students with disabilities access higher education, there will be a greater need for an inclusive campus environment through specialized advocacy, support, and academic services. Therefore, it is critical to understand that ADA compliance does not fall

primarily on the Office Disability Services (ODS), but it is the responsibility of the entire institution. Colleges and universities must work toward making more resources and campus spaces available for students, staff, faculty, and visitors with disabilities.

Research Aims/Goals

The study objectives are: 1) assess resources and campus space for students, staff, faculty, and visitors with disabilities and impairments, 2) determine whether the university is an ADA-compliant campus and fully inclusive and 3) aid students to better understand the research method process.

Rationale for Study

The motivation behind the study was to contribute to the ongoing examination of institutional barriers that prevent students, staff, and faculty with disabilities from fully accessing their campus communities. For this research, we also need to work toward more inclusive environments for disabled researchers. That is not just because it is fair but also because it is crucial to the research world. As a differently abled black researcher, it is essential to have greater inclusivity amongst the disabled as research participants and research administrators. Also, this study sought to include students into scholarly research.

Methodology

This study is a quantitative inquiry, which assessed resources and campus space for students, staff, faculty, and visitors with disabilities and impairment at Winston Salem State University (WSSU). Winston Salem State University is an (HBCU), a historically black public university in Winston Salem, North Carolina (HBCU). It is part of the University of North Carolina system (UNC system). The campus has more than 40 buildings across 17 acres of land. Some buildings at WSSU are not being used This particular study evaluated the administrative offices,

academic buildings, and dining facilities. The buildings consisted of Coltrane Hall, Eller Hall, Fine Art Building, Hall Patterson, O Kelly Library, R. J Reynolds Center, Donald Julian Reaves Student Center, Police and Public Safety Department, S.G. Atkin House, Thomas Building, Carolina Hall, Blair Hall, E.J Jones Computer Science Building, and Albert H. Anderson.

[Winston-Salem State University AnyMap \(wssu.edu\)](https://www.wssu.edu/anymap)

This study occurred in the Spring 2021 semester. Students from two research method courses and I evaluated the resources and campus space at WSSU for students, staff, faculty, and visitors with disabilities and impairment. Students from my research method courses were assigned to bring two examples of disability surveys and create survey questions for the current research project. The survey questions by the students were compiled to develop the survey instrument. However, through the feedback of Dr. Russell Smith of Winston State University, Dave Toren, and Joseph Sloop from Forsyth county, the survey instrument was scaled down to a manageable task. Then Mr.'s Toren and Sloop uploaded the survey questions into Arc GIS, which created an app for students to collect data. Please see the link: <https://arcg.is/0z9Knz>. Dave Toren and Joseph Sloop also assisted me with a map that divided the WSSU campus into parts. See on the next page.

Due to my research method course occurring during the late evening, I sought the assistance of Dr. Rosalyn Harrington to assist with the data collection. Currently, she teaches Justice studies research methods during business hours at WSSU. On April 07, by a zoom meeting, I brief Dr. Harrington's class about the research project. Students in both research method courses were assigned evaluation areas. Data was collected on the following days: April 13, 20, and May 3, 2021. The study utilized SPSS and cross-tabulation to assess the resources and campus space for students, staff, faculty, and visitors with disabilities and impairment.



Map of WSSU

Results

Section 1: Entrance and Approach

The first section examines the building entrance and approach to determine if there is at least one route from site arrival points that does not require the use of stairs.

Building * Approach Crosstabulation

building		Approach		Total
		No	Yes	
Albert H. Anderson Center		0	1	1
F L Atkin Building		0	1	1
Blair Hall		0	1	1
Carolina Hall		0	1	1
Coltrane Hall		0	1	1
Donald Julian Reaves (DJR)		0	1	1
E.J. Jones		0	1	1
Eller Hall		0	1	1
Fine Art Building		0	1	1
Hall Patterson		0	1	1
New Science Building		0	1	1
O Kelly library		1	0	1
Atkinson Science Building		0	1	1
Police and Public Safety		0	1	1
R.J. Reynolds		0	1	1
Thompson Building		0	1	1
Total		1	15	16

When we examine the buildings, we found that 15 out of 16 buildings have at least one route from site arrival points that does not require the use of stairs.

Section 2: Parking

This section includes the parking and parking related variables including if there is enough accessible parking (Parking), if there are van parking spaces (ParkingVan), if the van parking has appropriately sized aisles (ParkingVanAisle), if the van spaces are wide enough (ParkingVanSize), if the aisle is accessible (PAisleAccess), if there are clear parking signs (PSign), if the signs are a proper height (PSignHeight), and if there are van accessible signs (PSignVan).

Building * Parking Crosstabulation

Building		Parking			Total
		No	Yes	N/A	
Albert H Anderson Center		0	1	0	1
F L Atkin Building		0	1	0	1
Blair Hall		0	1	0	1
Carolina Hall		0	1	0	1
Coltrane Hall		1	0	0	1
Donald Julian Reaves (DJR)		1	0	0	1
E.J. Jones		0	1	0	1
Eller Hall		0	0	1	1
Fine Art Building		0	1	0	1
Hall Patterson		0	0	1	1
New Science Building		0	1	0	1
O Kelly library		1	0	0	1
Atkinson Science Building		1	0	0	1
Police and Public Safety		0	1	0	1
R.J. Reynolds		0	1	0	1
Thompson Building		0	1	0	1
Total		4	10	2	16

In the 16 buildings surveyed 4 buildings did not have accessible parking while 10 did have accessible parking. At least 1 building had parking on a hill and 2 more buildings had parking far away from the actual building entrance.

Building * ParkingVan Crosstabulation

Count

Building	ParkingVan			Total
	No	Yes	N/A	
Albert H Anderson Center	0	1	0	1
F L Atkin Building	1	0	0	1
Blair Hall	1	0	0	1
Carolina Hall	1	0	0	1
Coltrane Hall	0	0	1	1
Donald Julian Reaves (DJR)	1	0	0	1
E.J. Jones	1	0	0	1
Eller Hall	0	0	1	1
Fine Art Building	1	0	0	1
Hall Patterson	0	0	1	1
New Science Building	0	1	0	1
O Kelly library	1	0	0	1
Atkinson Science Building	1	0	0	1
Police and Public Safety	1	0	0	1
R.J. Reynolds	1	0	0	1
Thompson Building	1	0	0	1
Total	11	2	3	16

Of the 16 building, only 2 had van accessible parking with 11 having no van accessible parking. This was not applicable for 3 of the buildings.

Building * ParkingVanAisle Crosstabulation

Count

		ParkingVanAisle			Total
		No	Yes	N/A	
Building	Albert H Anderson Center	0	1	0	1
	F L Atkin Building	1	0	0	1
	Blair Hall	0	0	1	1
	Carolina Hall	0	0	1	1
	Coltrane Hall	0	0	1	1
	Donald Julian Reaves (DJR)	1	0	0	1
	E.J. Jones	1	0	0	1
	Eller Hall	0	0	1	1
	Fine Art Building	0	0	1	1
	Hall Patterson	0	0	1	1
	New Science Building	0	1	0	1
	O Kelly library	0	0	1	1
	Atkinson Science Building	1	0	0	1
	Police and Public Safety	1	0	0	1
	R.J. Reynolds	1	0	0	1
	Thompson Building	0	0	1	1
Total		6	2	8	16

Both of the buildings with van accessible parking had proper van accessible aisles that were ADA compliant.

Building * ParkingSpaceSize Crosstabulation

Building	ParkingVanSize			Total
	No	Yes	N/A	
Albert H Anderson Center	0	1	0	1
F L Atkin Building	0	0	1	1
Blair Hall	0	1	0	1
Carolina Hall	0	0	1	1
Coltrane Hall	0	0	1	1
Donald Julian Reaves (DJR)	1	0	0	1
E.J. Jones	1	0	0	1
Eller Hall	0	0	1	1
Fine Art Building	0	0	1	1
Hall Patterson	0	1	0	1
New Science Building	0	1	0	1
O Kelly library	0	0	1	1
Atkinson Science Building	0	0	1	1
Police and Public Safety	0	0	1	1
R.J. Reynolds	0	1	0	1
Thompson Building	1	0	0	1
Total	3	5	8	16

There were 8 buildings with accessible parking; however, only 5 of those buildings had parking spaces that were the correct size of at least 8 feet wide and an access aisle of at least 5 feet. This means only 5 of the buildings had properly accessible spaces.

Building * PAislesAccess Crosstabulation

Building	PAislesAccess			Total
	No	Yes	N/A	
Albert H Anderson Center	0	1	0	1
F L Atkin Building	0	0	1	1
Blair Hall	0	0	1	1
Carolina Hall	0	0	1	1
Coltrane hall	0	0	1	1
Donald Julian Reaves (DJR)	1	0	0	1
E.J. Jones	1	0	0	1
Eller Hall	0	0	1	1
Fine Art Building	0	0	1	1
Hall Patterson	0	1	0	1
New Science Building	1	0	0	1
O Kelly library	0	0	1	1
Atkinson Science Building	1	0	0	1
Police and Public Safety	0	0	1	1
R.J. Reynolds	1	0	0	1
Thompson Building	1	0	0	1
Total	6	2	8	16

Of the parking spaces that are compliant, only 2 of those have an aisle that adjoins an accessible route. The 6 remaining did not have adjoining accessible routes.

Building * Psign Crosstabulation

Count

Building	Psign			Total
	No	Yes	N/A	
Albert H Anderson Center	0	1	0	1
F L Atkin Building	1	0	0	1
Blair Hall	1	0	0	1
Carolina Hall	1	0	0	1
Coltrane Hall	0	0	1	1
Donald Julian Reaves (DJR)	0	1	0	1
E.J. Jones	1	0	0	1
Eller Hall	0	0	1	1
Fine Art Building	0	0	1	1
Hall Patterson	0	0	1	1
New Science Building	0	1	0	1
O Kelly library	0	0	1	1
Atkinson Science Building	1	0	0	1
Police and Public Safety	1	0	0	1
R.J. Reynolds	1	0	0	1
Thompson Building	0	0	1	1
Total	7	3	6	16

There were 10 buildings with parking spaces examined. Of these 10, only 3 had proper signage with the international handicapped symbol.

Building * PSignHeight Crosstabulation

Building		PSignHeight			Total
		No	Yes	N/A	
Albert H Anderson Center		0	1	0	1
F L Atkin Building		0	0	1	1
Blair Hall		0	0	1	1
Carolina Hall		0	0	1	1
Coltrane Hall		0	0	1	1
Donald Julian Reaves (DJR)		0	1	0	1
E.J. Jones		0	0	1	1
Eller Hall		0	0	1	1
Fine Art Building		0	0	1	1
Hall Patterson		0	0	1	1
New Science Building		0	1	0	1
O Kelly library		0	0	1	1
Atkinson Science Building		0	0	1	1
Police and Public Safety		0	0	1	1
R.J. Reynolds		0	0	1	1
Thompson Building		0	0	1	1
Total		0	3	13	16

Of the 3 buildings identified with signs, all 3 signs were the proper height.

Building * PSignVan Crosstabulation

Count

		PSignVan		Total
		No	Yes	
Building	Albert H Anderson Center	1	0	1
	F L Atkin Building	1	0	1
	Blair Hall	0	1	1
	Carolina Hall	1	0	1
	Coltrane Hall	0	1	1
	Donald Julian Reaves (DJR)	1	0	1
	E.J. Jones	1	0	1
	Eller Hall	1	0	1
	Fine Art Building	1	0	1
	Hall Patterson	0	1	1
	New Science Building	1	0	1
	O Kelly library	0	1	1
	Atkinson Science Building	1	0	1
	Police and Public Safety	0	1	1
	R.J. Reynolds	1	0	1
	Thompson Building	0	1	1
Total		10	6	16

Only 6 of the 16 buildings had proper van accessible signage for accessible parking spaces.

Section 3, 4, 5: Exterior Accessibility, Curb Ramps, and Ramps

Section 3 examines the exterior accessibility of buildings on campus.

The first variable (Exterior) looks at whether or not the accessible route of the building is stable, firm and slip resistant. We also looked at if the route was at least 36 inches wide (ExteriorWidth). Section 4 next looked at if the route crossed a curb or if the curb had a ramp (CurbRamp). Section 5 examined if the ramp width was at least 36 inches (RampWidth), if the surface was stable, firm and slip resistant (RampSurface), if the handrail gripping surface was 38 inches above the ramp (RampHandrailTop) and if the handrail extended at least 12 inches horizontally beyond the top and bottom of the ramp (RampHandrailH).

Building * Exterior Crosstabulation

Building		Exterior			Total
		No	Yes	N/A	
Albert H Anderson Center		0	1	0	1
F L Atkin Building		0	1	0	1
Blair Hall		0	1	0	1
Carolina Hall		0	1	0	1
Coltrane Hall		0	1	0	1
Donald Julian Reaves (DJR)		0	1	0	1
E.J. Jones		1	0	0	1
Eller Hall		0	1	0	1
Fine Art Building		0	1	0	1
Hall Patterson		0	1	0	1
New Science Building		0	1	0	1
O Kelly library		1	0	0	1
Atkinson Science Building		0	0	1	1
Police and Public Safety		0	1	0	1
R.J. Reynolds		1	0	0	1
Thompson Building		0	1	0	1
Total		3	12	1	16

Only of the buildings had a faculty only entrance. Of the remaining 15 buildings, 12 had exterior access ramps; however, there were numerous reported compliance issues with these ramps. 8 of the ramps were either on an incline, too steep, slippery, or were blocked by trash cans, or otherwise inaccessible.

Building * ExteriorWidth Crosstabulation

Building	ExteriorWidth		Total
	Yes	N/A	
Albert H Anderson Center	1	0	1
F L Atkin Building	1	0	1
Blair Hall	1	0	1
Carolina Hall	1	0	1
Coltrane Hall	1	0	1
Donald Julian Reaves (DJR)	1	0	1
E.J. Jones	1	0	1
Eller Hall	1	0	1
Fine Art Building	1	0	1
Hall Patterson	0	1	1
New Science Building	1	0	1
O Kelly library	1	0	1
Atkinson Science Building	0	1	1
Police and Public Safety	1	0	1
R.J. Reynolds	1	0	1
Thompson Building	1	0	1
Total	14	2	16

14 of the 16 buildings had exterior routes and all 14 exterior routes were at least 36 inches wide.

Building * CurbRamp Crosstabulation

Building		CurbRamp			Total
		No	Yes	N/A	
Albert H Anderson		0	1	0	1
F L Atkin Building		0	1	0	1
Blair Hall		0	0	1	1
Carolina Hall		0	1	0	1
Coltrane Hall		0	1	0	1
Donald Julian Reaves (DJR)		0	1	0	1
E.J. Jones		0	1	0	1
Eller Hall		0	0	1	1
Fine Art Building		0	1	0	1
Hall Patterson		0	0	1	1
New Science Building		0	1	0	1
O Kelly library		0	1	0	1
Atkinson Science Building		0	1	0	1
Police and Public Safety		0	0	1	1
R.J. Reynolds		1	0	0	1
Thompson Building		1	0	0	1
Total		2	10	4	16

While 10 of the buildings did have curb ramps, there were numerous building curb ramps that were too far away from the entrance (6) and several others that were cracked or uprooted by trees.

Building * RampWidth Crosstabulation

Building	RampWidth			Total
	No	Yes	N/A	
Albert H Anderson	0	1	0	1
F L Atkin Building	0	1	0	1
Blair Hall	0	0	1	1
Carolina Hall	0	1	0	1
Coltrane Hall	0	1	0	1
Donald Julian Reaves (DJR)	0	1	0	1
E.J. Jones	1	0	0	1
Eller Hall	0	1	0	1
Fine Art Building	0	1	0	1
Hall Patterson	0	0	1	1
New Science Building	1	0	0	1
O Kelly library	0	1	0	1
Atkinson Science Building	0	0	1	1
Police and Public Safety	0	0	1	1
R.J. Reynolds	0	1	0	1
Thompson Building	0	0	1	1
Total	2	9	5	16

Out of the 11 of the buildings 16 buildings that had ramps, only 9 had ramps that were at least 36 inches wide.

Building * RampSurface Crosstabulation

Building	RampSurface			Total
	No	Yes	N/A	
Albert H Anderson Center	0	1	0	1
F L Atkin Building	0	1	0	1
Blair Hall	0	0	1	1
Carolina Hall	0	1	0	1
Coltrane Hall	0	1	0	1
Donald Julian Reaves (DJR)	1	0	0	1
E.J. Jones	1	0	0	1
Eller Hall	0	1	0	1
Fine Art Building	0	1	0	1
Hall Patterson	0	0	1	1
New Science Building	0	0	1	1
O Kelly library	1	0	0	1
Atkinson Science Building	0	0	1	1
Police and Public Safety	0	0	1	1
R.J. Reynolds	1	0	0	1
Thompson Building	1	0	0	1
Total	5	6	5	16

Of the 11 ramps, only 6 had surfaces that were stable, firm, and slip resistant. This means that 5 ramps did not have compliant surfaces. Numerous ramps were too steep, slippery, or not accessible in bad weather. One ramp had trashcans completely blocking it.

Building * RampHandrailTop Crosstabulation

		RampHandrailTop			Total
		No	Yes	N/A	
Building	Albert H Anderson Center	0	1	0	1
	F L Atkin Building	0	1	0	1
	Blair Hall	0	0	1	1
	Carolina Hall	0	1	0	1
	Coltrane Hall	0	1	0	1
	Donald Julian Reaves (DJR)	0	1	0	1
	E.J. Jones	1	0	0	1
	Eller Hall	1	0	0	1
	Fine Art Building	0	1	0	1
	Hall Patterson	0	0	1	1
	New Science Building	0	0	1	1
	O Kelly library	0	1	0	1
	Atkinson Science Building	0	0	1	1
	Police and Public Safety	0	0	1	1
	R.J. Reynolds	0	0	1	1
	Thompson Building	0	0	1	1
Total		2	7	7	16

We looked at if the gripping surface was at least 38 inches above the ramp and found that 7 of the 9 buildings with ramps and handrails were compliant.

Building * RampHandrailH Crosstabulation

Building		RampHandrailH			Total
		No	Yes	N/A	
Albert H Anderson Center		0	1	0	1
F L Atkin Building		0	1	0	1
Blair Hall		0	0	1	1
Carolina Hall		1	0	0	1
Coltrane Hall		0	1	0	1
Donald Julian Reaves (DJR)		0	1	0	1
E.J. Jones		1	0	0	1
Eller Hall		0	1	0	1
Fine Art Building		0	1	0	1
Hall Patterson		1	0	0	1
New Science Building		0	0	1	1
O Kelly library		0	1	0	1
Atkinson Science Building		0	0	1	1
Police and Public Safety		0	0	1	1
R.J. Reynolds		0	0	1	1
Thompson Building		0	0	1	1
Total		3	7	6	16

Only 7 of the building entrances have the proper handrails where handrails extend as least 12 inches horizontally beyond the top and bottom of the ramp. This did not apply to 6 buildings and 3 buildings were not in compliance.

Section 6: Entrance of the Main Building

Section 6 analyzes the entrance of the main building for accessibility (MainEntrance), if all accessible entrances have signs indicating the location of the nearest accessible entrance (EntranceSigns), and if not, all entrances are accessible then we looked at if there are signs at the accessible entrance with the international symbol of accessibility (SignsAccEntrance). We also analyzed if the building has a working elevator (Elevator), if the interior of the elevator is at least 54 inches deep by 36 inches wide (ElevatorInterior), and if the elevator door opening is at least 32 inches wide (ElevatorDoor). Finally, we looked at if the door at the accessible entrance of the building is power operated or not (PowerDoor) and if the door was power operated, was it currently working (PowerDoorWork).

Building * MainEntrance Crosstabulation

		MainEntrance		Total
		No	Yes	
Building	Albert H Anderson Center	0	1	1
	F L Atkin Building	0	1	1
	Blair Hall	0	1	1
	Carolina Hall	1	0	1
	Coltrane Hall	0	1	1
	Donald Julian Reaves (DJR)	0	1	1
	E.J. Jones	1	0	1
	Eller Hall	1	0	1
	Fine Art Building	0	1	1
	Hall Patterson	0	1	1
	New Science Building	0	1	1
	O Kelly library	1	0	1
	Atkinson Science Building	0	1	1
	Police and Public Safety	0	1	1
	R.J. Reynolds	1	0	1
	Thompson Building	0	1	1
Total		5	11	16

Out of our 16 buildings analyzed, 11 were accessible and 5 were not. In one of the inaccessible building entrances, the manual door was not functioning and in front of another building, trash cans and dumpsters were blocking access to the building's accessible entrances.

Building * AltAccessibleEntrance Crosstabulation

		AltAccessibleEntrance			Total
		No	Yes	N/A	
Building	Albert H Anderson Center	1	0	0	1
	F L Atkin Building	0	0	1	1
	Blair Hall	0	0	1	1
	Carolina Hall	0	1	0	1
	Coltrane Hall	0	1	0	1
	Donald Julian Reaves (DJR)	1	0	0	1
	E.J. Jones	0	1	0	1
	Eller Hall	0	1	0	1
	Fine Art Building	0	0	1	1
	Hall Patterson	0	1	0	1
	New Science Building	0	0	1	1
	O Kelly library	1	0	0	1
	Atkinson Science Building	0	1	0	1
	Police and Public Safety	0	0	1	1
	R.J. Reynolds	0	1	0	1
	Thompson Building	1	0	0	1
Total		4	7	5	16

Only 7 out of the 16 buildings had an alternative accessible entrance while 4 did not. This did not apply to the remaining 5 buildings.

Building * EntranceSigns Crosstabulation

Building	EntranceSigns			Total
	No	Yes	N/A	
Albert H Anderson Center	0	1	0	1
F L Atkin Building	0	0	1	1
Blair Hall	0	0	1	1
Carolina Hall	1	0	0	1
Coltrane Hall	1	0	0	1
Donald Julian Reaves (DJR)	0	1	0	1
E.J. Jones	1	0	0	1
Eller Hall	1	0	0	1
Fine Art Building	1	0	0	1
Hall Patterson	1	0	0	1
New Science Building	1	0	0	1
O Kelly library	1	0	0	1
Atkinson Science Building	1	0	0	1
Police and Public Safety	0	0	1	1
R.J. Reynolds	1	0	0	1
Thompson Building	1	0	0	1
Total	11	2	3	16

Only 2 of the 16 buildings had signs indicating the nearest accessible entrance. 11 buildings had no such signage.

Building * SignsAccEntrance Crosstabulation

		SignsAccEntrance		Total
		No	Yes	
Building	Albert H Anderson Center	0	1	1
	F L Atkin Building	1	0	1
	Blair Hall	1	0	1
	Carolina Hall	0	1	1
	Coltrane Hall	0	1	1
	Donald Julian Reaves (DJR)	0	1	1
	E.J. Jones	1	0	1
	Eller Hall	1	0	1
	Fine Art Building	1	0	1
	Hall Patterson	1	0	1
	New Science Building	1	0	1
	O Kelly library	1	0	1
	Atkinson Science Building	1	0	1
	Police and Public Safety	1	0	1
	R.J. Reynolds	1	0	1
	Thompson Building	1	0	1
Total		12	4	16

When looking at if there were signs at the alternative entrances, only 4 buildings had signs while the remaining 12 did not.

Building * Elevator Crosstabulation

Building	Elevator		Total
	No	Yes	
Albert H Anderson Center	0	1	1
F L Atkin Building	1	0	1
Blair Hall	1	0	1
Carolina Hall	0	1	1
Coltrane	0	1	1
Donald Julian Reaves (DJR)	0	1	1
E.J. Jones	0	1	1
Eller Hall	1	0	1
Fine Art Building	1	0	1
Hall Patterson	0	1	1
New Science Building	0	1	1
O Kelly library	0	1	1
Atkinson Science Building	0	1	1
Police and Public Safety	1	0	1
R.J. Reynolds	0	1	1
Thompson Building	1	0	1
Total	6	10	16

Only 10 of the 16 buildings have elevators.

Building * ElevatorInterior Crosstabulation

Building	ElevatorInterior			Total
	No	Yes	N/A	
Albert H Anderson Center	0	1	0	1
F L Atkin Building	0	0	1	1
Blair Hall	0	0	1	1
Carolina Hall	0	1	0	1
Coltrane	0	1	0	1
Donald Julian Reaves (DJR)	0	1	0	1
E.J. Jones	0	1	0	1
Eller Hall	0	0	1	1
Fine Art Building	1	0	0	1
Hall Patterson	0	1	0	1
New Science Building	0	1	0	1
O Kelly library	0	1	0	1
Atkinson Science Building	1	0	0	1
Police and Public Safety	0	0	1	1
R.J. Reynolds	1	0	0	1
Thompson Building	0	0	1	1
Total	3	8	5	16

Of the 10 buildings with elevators, only 8 met the requirements of having an interior space of 54 inches by 36 inches.

Building * ElevatorDoor Crosstabulation

Building	ElevatorDoor		Total
	Yes	N/A	
Albert H Anderson Center	1	0	1
F L Atkin Building	0	1	1
Blair Hall	0	1	1
Carolina Hall	1	0	1
Coltrane Hall	1	0	1
Donald Julian Reaves (DJR)	0	1	1
E.J. Jones	1	0	1
Eller Hall	0	1	1
Fine Art Building	0	1	1
Hall Patterson	1	0	1
New Science Building	1	0	1
O Kelly library	1	0	1
Atkinson Science Building	1	0	1
Police and Public Safety	0	1	1
R.J. Reynolds Center	1	0	1
Thompson Building	0	1	1
Total	9	7	16

Only 9 of the elevators had doorways that were at least 32 inches wide.

Building * PowerDoor Crosstabulation

Building	PowerDoor		Total
	No	Yes	
Albert H Anderson	0	1	1
F L Atkin Building	1	0	1
Blair Hall	1	0	1
Carolina Hall	0	1	1
Coltrane Hall	0	1	1
Donald Julian Reaves (DJR)	0	1	1
E.J. Jones	0	1	1
Eller Hall	1	0	1
Fine Art Building	0	1	1
Hall Patterson	0	1	1
New Science Building	0	1	1
O Kelly library	0	1	1
Atkinson Science Building	0	1	1
Police and Public Safety	1	0	1
R.J. Reynolds Center	0	1	1
Thompson Building	1	0	1
Total	5	11	16

When looking at if the building has power operated doors, only 11 buildings had such doors.

Building * PowerDoorWork Crosstabulation

Building	PowerDoorWork			Total
	No	Yes	N/A	
Albert H Anderson	0	1	0	1
F L Atkin Building	0	0	1	1
Blair Hall	0	0	1	1
Carolina Hall	0	1	0	1
Coltrane Hall	1	0	0	1
Donald Julian Reaves (DJR)	0	1	0	1
E.J. Jones	0	1	0	1
Eller Hall	0	0	1	1
Fine Art Building	0	1	0	1
Hall Patterson	0	1	0	1
New Science Building	0	1	0	1
O Kelly library	1	0	0	1
Atkinson Science Building	0	1	0	1
Police and Public Safety	0	0	1	1
R.J. Reynolds	1	0	0	1
Thompson Building	0	0	1	1
Total	3	8	5	16

Of the 11 buildings that had power doors, only 8 of them work. In three of the buildings, the buttons either do not function at all or take multiple presses to work as is the case in the R.J. Reynolds Building where despite having three entrance, only one has a power operated door but it does not work properly.

Conclusion

In conclusion, it is critical to understand that ADA compliance does not fall primarily on the Office Disability Services (ODS), but it is the responsibility of the entire institution. Colleges and universities must work toward making more resources and campus spaces available for students, staff, faculty, and visitors with disabilities. This study's result raised awareness of the barriers to resources and campus space for students, staff, faculty, and visitors with disabilities and impairment. This study sought not only to collect data but help students better understand the research method process. Also, the project intends to provide recommendations to campus administrators to better serve students, faculty, and staff with disabilities and impairment at WSSU.

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