# Facing COVID-19: An assessment of First-Generation College Students' Persistence to Graduation during a Pandemic

The University of North Carolina at Chapel Hill (UNC-CH)
Site Report – Summary of Fall 2020 Data Collection

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On January 21, 2020, the Washington State Department of Health confirmed the nation's first case of COVID-19. By mid-March, university officials from across the U.S. suspended face-to-face classes and moved instruction to a virtual platform. University-wide closures across the nation prompted a collaboration between researchers, college administrators and students to assess the impact of COVID-19 on First-Generation College Students (FGCS). For the purpose of this report, the team defines FGCS as an individual for whom neither parent completed a four-year bachelor degree.

# What does college persistence to graduation look like for FGCS living through the COVID-19 pandemic? And how, if at all, does COVID-19 exacerbate already existing barriers?

To help answer these pressing questions, researchers from an interdisciplinary team administered surveys to FGCS during the COVID-19 pandemic. Through analysis, researchers identified the effect of the pandemic on persistence to graduation for FGCS. The team also collected open-ended responses from FGCS who provided recommendations to their universities on how to improve supports.

#### **Methods**

The research team administered online surveys to FGCS across five universities: Bucknell University (PA), Florida Α & University, Rowan University (NJ), The University of North Carolina at Chapel Hill and The University of Pittsburgh (PA). The team selected sites based on convenience. At each site, researchers responsible for gathering and distributing surveys to FGCS. some cases, all FGCS received surveys while in other cases only a group received them. This was due to each school's small divergent ways in identifying and connecting with FGCS. perceptions on the extent to collected respondents' The team which COVID-19 exacerbated barriers to college persistence, reduced access to resources, hindered connections with peers and family, and disrupted health. Lastly, the team administered photovoice methodology survey where they asked students to submit visual images of their workspace and address equitable schooling spaces. This report presents the combined findings from all sites and compares them to results from the University of North Carolina at Chapel Hill (UNC-CH).



#### TIMELINE:

- January 2020 Nation's first case of COVID-19
- March 2020 Universities suspended face-to-face classes
- June 2020 Pilot administered survey at Rowan and UNC-CH
- October 2020 First round of data collection
- April 2021 Second round of data collection
- October 2021 Third round of data collection

#### FALL 2020 DATA COLLECTION:

- 5 universities
- · 659 Barriers survey
- · 166 Photovoice surveys
- 48 interviews

## **Demographics of Sample**

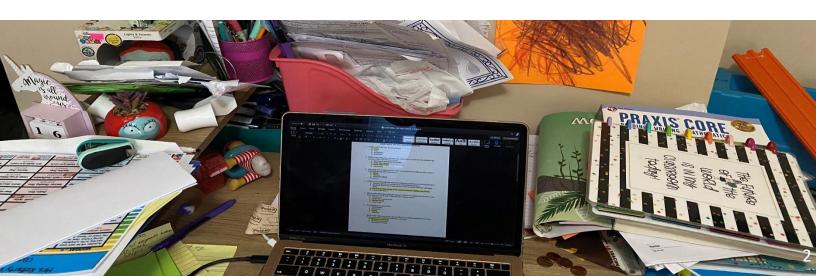
In fall 2020, 302 UNC-CH FGCS completed the initial online survey. Approximately 40.8% of respondents were White, 72.7% identified as a woman and 33.0% described their households as low-income. Additionally, most respondents represented in-state residents (90.3%) and roughly 28.4% transferred from another college.

**Table 1. Demographics of Survey Respondents** 

	ALL N (%)	UNC-CH N (%)
White, Non-Hispanic	261 (40.2%)	122 (40.8%)
Hispanic/Latin American	127 (19.6%)	78 (26.1%)
Black, Non-Hispanic	119 (18.3%)	22 (7.4%)
Asian/ Asian American	67 (10.3%)	45 (15.1%)
Multiracial	40 (6.2%)	13 (4.4%)
Middle Eastern/ Middle Eastern American	13 (2.0%)	n/a
American Indian/Native Alaskan	n/a	n/a
Other Race/Ethnicity	n/a	n/a
Prefer not to answer	12 (1.9%) n/a	
Gender		
Woman	470 (71.4%)	221 (72.7%)
Man	156 (23.7%)	62 (20.4%)
Genderqueer or gender non-conforming	10 (1.5%)	n/a
Questioning	n/a	n/a
Transgendered Man	n/a	n/a
My identity is not listed	n/a	n/a
Prefer not to answer	n/a	n/a

	ALL	UNC-CH
	N (%)	N (%)
Family Income		
Lower-middle income	217 (34.0%)	113 (38.4%)
Low-income	207 (32.4%)	97 (33.0%)
Middle income	167 (26.1%)	66 (22.5%)
Upper-middle income	40 (6.3%)	14 (4.8%)
High income	n/a	n/a
Prefer not to answer	n/a	n/a
Class Year		
Junior	194 (29.4%)	76 (25.2%)
Freshman	168 (25.5%)	76 (25.2%)
Senior	163 (24.7%)	94 (31.1%)
Sophomore	118 (17.9%)	50 (16.6%)
Status		
In-state	581 (89.9%)	271 (90.3%)
Full-time during Spring 2020	453 (69.9%)	221 (74.2%)
Transferred from another college	231 (35.7%)	84 (28.4%)

Note: Items with fewer than 10 responses were omitted and replaced with "n/a" to keep subject anonymity.



#### **Barriers**

The research team asked UNC-CH FGCS to assess, retrospectively, the extent to which existing barriers were more pronounced during COVID-19 than before the pandemic. When asked about the extent COVID-19 has impacted their **financial barriers** to college, respondents indicated that they were less likely to have enough funds for college next year, more likely to be concerned about having enough funds to complete college and less likely to be able to borrow money for college (see Table 2). The term "Before COVID-19" relates to the period before the university-wide shutdown in March 2020, while "Today" refers to October 2020.

**Table 2. Financial Barriers for FGCS** 

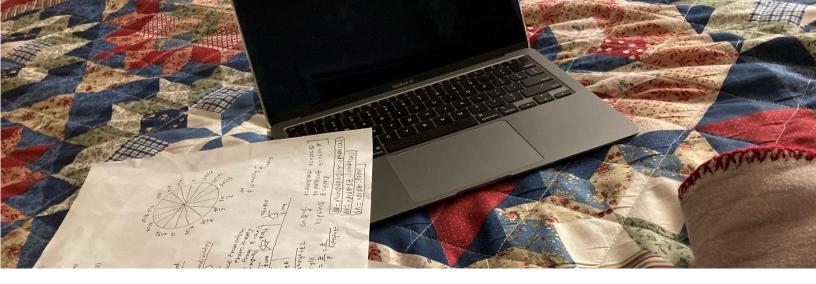
	ALL		UNC-CH	
	Today Agree N (%)	Before COVID-19 Agree N (%)	Today Agree N (%)	Before COVID-19 Agree N (%)
I will have enough funds for college next year.	355 (56.5%)	436 (66.5%)	180 (62.5%)	220 (73.6%)
I am concerned about having enough funds to complete college.	401 (64.1%)	378 (57.9%)	160 (55.8%)	147 (49.3%)
I am unable to borrow money for college.	194 (31.1%)	185 (28.4%)	87 (30.3%)	85 (28.5%)

When asked about the extent COVID-19 has impacted UNC-CH FGCS' **institutional barriers** to college, respondents saw a minimal difference between Before COVID-19 and today. Table 3 provides additional insight into FGCS' perceptions on institutional barriers.

Table 3. Institutional Barriers for FGCS

	ALL		UNC-CH		
	Today Agree N (%)	Before COVID-19 Agree N (%)	Today Agree N (%)	Before COVID-19 Agree N (%)	
At my university, I face inequalities because of my social class.	187 (29.8%)	179 (27.5%)	111 (38.7%)	106 (35.6%)	
At my university, I face inequalities because of my race.	87 (13.4%)	79 (12.1%)	57 (19.7%)	53 (17.8%)	
At my university, I face inequalities because of my proficiency in English.	20 (3.2%)	18 (2.8%)	14 (4.9%)	13 (4.4%)	
On average, my professors are knowledgeable in their field.	582 (92.2%)	615 (94.3%)	275 (95.2%)	286 (96.3%)	

<sup>&</sup>quot;I have no family in the country to fall back on or lend economic support. I work to support myself in addition to my personal financial aid and student loans. It is still not enough to get by. Students are struggling."



When asked how the pandemic exacerbated **academic barriers**, UNC-CH FGCS indicated that they were less likely to like school, more likely to have poor study habits and more likely to have grades lower than expected today (October 2020) as compared to before COVID-19 (see Table 4).

**Table 4. Academic Barriers for FGCS** 

	ALL		UNC-CH	
	Today Agree N (%)	Before COVID-19 Agree N (%)	Today Agree N (%)	Before COVID-19 Agree N (%)
I like school.	380 (60.4%)	562 (85.9%)	161 (55.5%)	262 (87.6%)
I have poor study habits.	350 (55.4%)	250 (38.1%)	169 (58.1%)	103 (34.4%)
I am not concerned about my academic eligibility.	356 (56.6%)	384 (58.8%)	166 (57.0%)	179 (59.9%)
My grades are lower than expected.	335 (53.3%)	137 (20.9%)	175 (60.6%)	63 (21.0%)

Survey respondents also shared their **personal barriers**. Overall, UNC-CH FGCS were more likely to experience loneliness, miss their friends and struggle with adjusting to college today as compared to before COVID-19 (see Table 5).

**Table 5. Personal Barriers for FGCS** 

	AL	L	UNC-CH		
	Today Agree N (%)	Before COVID-19 Agree N (%)	Today Agree N (%)	Before COVID-19 Agree N (%)	
I struggle with low self-esteem.	348 (55.9%)	318 (48.9%)	178 (62.7%)	154 (52.2%)	
I am experiencing loneliness.	447 (71.3%)	231 (35.5%)	232 (80.6%)	95 (32.0%)	
I miss my friends from college.	437 (70.3%)	220 (34.0%)	241 (84.3%)	97 (32.9%)	
I am homesick.	147 (23.6%)	141 (21.7%)	76 (26.6%)	75 (25.3%)	
I feel overwhelmed.	546 (87.1%)	409 (62.5%)	259 (90.2%)	177 (59.4%)	
I struggle with adjusting to college.	375 (59.6%)	240 (36.7%)	186 (64.6%)	124 (41.6%)	

#### Resources

The research team asked UNC-CH students to describe the types of resources they used during the pandemic. The team defined resources as Wi-Fi, academic tools (e.g., books), personal supplies (e.g., food), space and time. Over half (60.4%) of surveyed FGCS indicated having access to useful resources today as compared to 89.6% before COVID-19 (see Table 6). Also, significantly fewer surveyed students (33.3%) were less likely to agree that they had a great study environment in October 2020 compared to before COVID-19 (76.6%).

Table 6. Access to Resources

	ALL		UNC-CH	
	Today Agree N (%)	Before COVID-19 Agree N (%)	Today Agree N (%)	Before COVID-19 Agree N (%)
I have the tools and resources needed to be a successful learner in a virtual environment.	377 (82.0%)	-	234 (78.0%)	-
I have a great study environment.	273 (43.2%)	470 (71.8%)	97 (33.3%)	229 (76.6%)
I have access to resources that will help me excel in school.	414 (66.0%)	567 (87.2%)	174 (60.4%)	266 (89.6%)

<sup>&</sup>quot;Some of us pay for school ourselves and have to work a job during this COVID crisis on top of online learning, civil unrest, an economic crisis, and a terrifying election. Students need more access to resources and funds and studying environments."

**-UNC-CH FGCS** 

## Relationships

The research team explored how UNC-CH FGCS remained connected to their peers and instructors during the initial stages of COVID-19. Overall, FGCS expressed a low connection to their fellow students and instructors during the distance learning period (see Table 7). Considerably, 9.7% of respondents felt connected with their peers while 21.6% felt connected to their instructors.

**Table 7. Feelings of Connectedness** 

	ALL		UNC-CH	
	Today Agree N (%)	Before COVID-19 Agree N (%)	Today Agree N (%)	Before COVID-19 Agree N (%)
I feel connected to my fellow students.	73 (15.3%)	-	29 (9.7%)	-
I feel connected to my instructors.	177 (32.0%)	-	65 (21.6%)	-
I am emotionally close with my family.	465 (73.6%)	499 (76.3%)	208 (71.7%)	228 (76.5%)
I am physically close to my family.	387 (61.5%)	401 (61.4%)	166 (57.6%)	161 (54.0%)

#### **Caregiving Responsibilities in the Home**

The research team assessed the degree UNC-CH FGCS connected with their family and developed newfound responsibilities of caregiving in the home. We asked students to address their obligations related to caregiving during COVID-19. Of those FGCS who indicated having children aged 0-18 in their home, one-quarter (25.0%) mentioned being accountable for most of their care. In addition, 53.2% of surveyed FGCS reported sharing the responsibility of taking care of an adult or older person in their home (see Figure 1).

Figure 1. Caregiving Responsibilities of UNC-CH FGCS

## Children

25.0% of FGCS reported being accountable for a majority of their care

34.9% - share the responsibility with someone else

## Adults

11.7% of FGCS reported being accountable for a majority of their care

53.2% - share the responsibility with someone else

The team asked UNC-CH FGCS to assess, retrospectively, the extent to which **family obligations** were more pronounced in October 2020 as compared to before the pandemic. Interestingly, more than half of survey respondents (52.1%) indicated being responsible for the emotional needs of their family in October 2020. FGCS also asserted that their family members faced physical (40.6%) and mental (42.4%) health challenges before the pandemic. Results show that these challenges were also present for family members seven months into the pandemic.

**Table 8. Family Obligations on Health** 

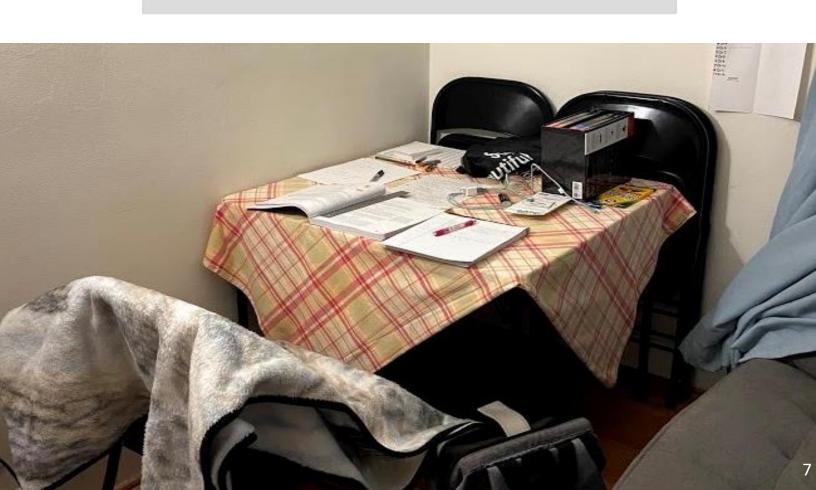
	ALL		UNC-CH	
	Today Agree N (%)	Before COVID-19 Agree N (%)	Today Agree N (%)	Before COVID-19 Agree N (%)
An immediate family member has a physical health problem not related to COVID-19 (e.g., cancer, diabetes, etc.)	296 (47.1%)	292 (44.7%)	127 (43.8%)	121 (40.6%)
An immediate family member has a mental health condition not related to COVID-19.	265 (42.0%)	256 (39.2%)	130 (45.0%)	126 (42.4%)
My family obligations make it difficult to attend college.	221 (35.1%)	137 (20.9%)	105 (36.2%)	46 (15.4%)
I am responsible for the emotional needs of my family.	303 (48.3%)	265 (40.8%)	150 (52.1%)	128 (43.1%)
I am responsible for the physical needs of my family.	170 (27.1%)	138 (21.2%)	72 (24.9%)	52 (17.5%)
I have a personal health problem not related to COVID-19 (e.g., cancer, diabetes, etc.)	119 (19.2%)	114 (17.5%)	56 (19.7%)	56 (18.9%)

#### **Health – Physical and Emotional Discomforts**

Overall, UNC-CH FGCS agreed that COVID-19 affected their mental health (77.6%) and physical health (47.9%) negatively. In some instances, fewer than 10 students reported someone in their household experienced hospitalization due to COVID-19. Overall, 70.4% of surveyed FGCS self-reported being at least in good health during the pandemic. To assess a more in-depth perspective of mental health, we generated questions that focused on the extent COVID-19 impacted students' discomforts. Our findings below provide a snapshot of students' physical and emotional discomforts brought on by the COVID-19 pandemic.

When UNC-CH students compared their life before COVID-19 with their present state of discomforts, FGCS were

- more likely to feel tired or did not have energy
- more likely to have a poor appetite
- less likely to feel healthy
- more likely to have soreness in muscles or joints
- more likely to have trouble relaxing
- more likely to be nervous
- · more likely to feel depressed
- less likely to wake up feeling refreshed



### **UNC-CH FGCS' Open-Ended Recommendations**

#### How can university officials improve your distance learning experience?

- Offer more asynchronous course content and provide more interactive material to reduce Zoom fatigue.
- Stop having the same expectations that they would have during a normal semester. Spread the word to your faculty. I can't function at the same level I do during a normal semester.
- Schedule more mental health days instead of having a compressed, sped up semester with extra work and no breaks.
- Fees for on campus amenities should've been refunded. I have found myself needing to pay for better WiFi and either go to Staples every week to print or buy a printer.
- Providing synchronous lectures and uploading the recording. Be considerate of time and stress that the students have.
- If there was some way that strictly timed exams/quizzes could be eliminated that would be helpful. Technical issues have added to the time pressure and have caused extreme test anxiety on top of normal chronic life anxiety and it makes me unable to function.

## What do you want your university officials to know about how COVID-19 has affected your college experience?

- I don't like having to learn by myself in a room where I am closed off to the world feeling lonely, and where I constantly feel lonely, unmotivated, and angered by how this whole year has been going.
- Every student I talk to is depressed, and [with] school expecting so much of us, it leaves an even worse mental health impact on our ego and ability to do work and be successful.
- I feel like I do not belong at UNC because I struggle now more than ever to complete my required coursework and keep up with the never-ending assignments and exams.
- I feel left in the dark sometimes on updates. There is a big disconnect between the university, professors, and students.
- I am doing the worst I ever have both academically as well as mentally. I wish I had taken a gap year.

#### What currently motivates you to continue with schooling?

- I have two school-aged children that I am responsible for.
- I have always dreamed of graduating from a university. As an immigrant, I did not think that would be possible so now that I have the opportunity, I won't let anything stop me.
- My family pushing me to do my best. I am trying to set an example to my younger siblings.
- Knowing that eventually I will graduate and have a degree.
- Fear of failure.
- The end goal, my degree. Literally nothing else, it is so hard to find motivation in this time.
- I am a first-generation college student, and I want this to serve as a testament that [the] past does not dictate the future.

### **Implications for Policy and Practice**

Colleges and universities play a key role in supporting FGCS as they face COVID-19 at home and on campus. Results from this study allow college administrators and interested stakeholders to assess the needs of FGCS and create appropriate supports that assist FGCS on their journey to graduation. Our findings reveal that FGCS continue to face challenges that have been exacerbated by the pandemic when it comes to persisting through college, accessing resources, connecting to family and peers as well as assessing health. Schooling sites can use the following practices to aid FGCS during the pandemic:

- **1. Assess students' needs –** Encourage faculty and administrators to survey students anonymously to assess students' needs at the beginning, middle or end of the academic period (e.g., semester). Online surveys can be used to assess gaps in resources and supplies (e.g., food, Wi-Fi, etc.) as well as determine the extent students are facing additional caregiving responsibilities.
- **2. Create virtual spaces to connect** Allow students to virtually meet in an informal setting across classes, years and regions. Students described feeling disconnected from their peers and expressed a need to connect in a virtual or socially distanced space.
- **3. Allow for physical and mental health checks –** Ensure that counseling services are available for FGCS, faculty, and staff to address exhaustion and burnout. Many respondents reported working longer hours and non-traditional days. Students also stated feeling more stressed and faced emotional and physical discomforts due to the uncertainty of the pandemic.



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The authors are solely responsible for any remaining errors.

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