Georgia Institute of Technology

# Transfer Student Graduation and Retention Study

Office of Institutional Research and Planning

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# Background

This *Transfer Student Report* describes the characteristics of transfer students who enrolled at Georgia Institute of Technology from 2015-2020, highlights trends and patterns pertaining to transfer students' retention, graduation, and time-to-degree, as well as the number of excess credit hours transfer students have upon graduating. The study also explores which transfer variables show a positive correlation to retention and graduation, examines transfer variables that have an impact on retention and graduation and explores the likelihood that transfer students within a given population, classification, and/or category (i.e., demographics, transfer institution type, transfer pathway programs, degree program, etc.) will be retained through graduation.

# Summary of Findings

- First-year and second-year retention rates for transfer students have steadily increased since 2016 with the 2020 cohort having the highest first-year retention rate at 97.38%. However, third and four-year retention rates have slightly decreased.
- First-year retention rates have increased consecutively since 2016 for the College of Engineering and since 2017 for Ivan Allen College of Liberal Arts. Except for slight decreases for the 2018 cohort (approximately 1.00% - 2.00%) in the College of Computing, College of Design, and College of Sciences, first-year retention has steadily increased in most colleges of study. Although there was a slight decrease in first-year retention for Scheller College of Business for the 2019 cohort, first-year was still 95.35% with a five-year average of 97.98%.
- Apart from 2018, first-year retention rates have increased for Asian and White transfer students since 2016. Consequently, Black, Hispanic, and transfer students who identify with Two or More races experienced the greatest increase in 2018 at 93.75%, 97.10%, and 97.14% respectively.
- First-year retention rates for first-generation transfer students declined slightly (-0.84%) for the 2020 cohort but have remained steady since 2018. However, the second-year retention rate for first-generation transfer students increased by 4.66%. Further analyses of first-generation transfer students were conducted using correlation analysis and regression models to explore causality and possible relationships among transfer variables (See Tables 17 and 19, and Figure H). Additionally, a logistic regression was used to determine the likelihood of first-generation transfer students being retained through graduation (See Table 21).
- Since 2016, first-year retention rates have continuously declined for transfer students who only received PELL as their primary source of financial aid with the 2020 cohort having the lowest first-year retention rate at 87.88%.
    - There has been an increase in first-year retention rates for students who received both PELL and HOPE with the 2020 cohort at 98.86%. However, second-year retention rates decreased for students who received both PELL and HOPE (See Appendix-C for a complete breakdown of financial aid by cohort).
    - First-year retention for transfer students who received both PELL and ZELL decreased from 98.28% to 95.983% but increased for students who received HOPE only (98.03%). Students whose eligibility changed (HOPE-to-ZELL or ZELL-to-HOPE), had the highest retention rates.

- Transfer students who changed their major at least once actually had higher retention rates than students who did not. This anomaly could be attributed to students selecting a major that they feel may be a better fit or aligned with their professional goals.
    - While there is no significant correlation between major change and retention, the results of the linear regression show that students' majors impact their retention beyond the third year (See Table 19 and Figure H), which is congruent with the lower third and fourth-year retention rates shown in Table 6.
    - In contrast, third-year retention rates were lower for transfer students who changed their major two or more times.
    - Further analyses were also conducted to determine the likelihood of students being retained through graduation based on their major at Georgia Tech and the number of times they changed their major (See Table 21e).
- Most students who transfer to Georgia Institute of Technology are from other University System of Georgia (USG) schools with the 2019 and 2020 cohorts having first-year retention rates of 97.02% and 97.76%. Students who transfer to Georgia Institute of Technology from a Georgia Independent College (GICA) and out-of-state, four-year public institutions also tend to have high rates with the 2020 cohort at 98.18% and 97.02% respectively. Please note that USG and GICA transfers also include Regents' Engineering Pathways Program (REPP) students, however, are not disaggregated by an RREP attribute like Dual Degree Engineering Program (DDEP) Pathway students. Please Reference the DDEP Transfer Pathway College-specific sections of this report for breakdowns by DDEP transfer college.
- When broken down by sex, female transfer students have higher graduation rates than males. There has been a slight decrease in four, five, and six-year graduation rates. As previously mentioned, Additional analyses regarding variables that impact graduation are described in the transfer variables correlation and regression analyses results of this report and may provide more insight regarding factors that impact transfer students' graduation rates.
- When broken down by race, White, Hispanic, Asian, and Non-Resident Alien transfer students tend to have higher four, five, and six-year graduation rates (See Appendix-G). When further broken down by race and cohort, four, five, and six-year graduation rates for transfer students have declined slightly across all races and cohorts. Although the four-year retention rate for Pacific-Islander transfer students was is 100.00%, the sample size is ≤ 10 with only two cohorts (See Appendix-G), thus the graduation rates for that specific population may not be helpful.
- Four, five, and six-year graduation rates have decreased for the College of Computing, College of Design, College of Engineering, and College of Sciences. However, apart from the 2017 cohort, four, five, and six-year graduation rates for Ivan Allen College of Liberal Arts and Scheller College of Business have remained steady or slightly increased. This is congruent with the results of the logistic regression shown in Table 22 whereby transfer students whose major is within Ivan Allen College of Liberal Arts and Scheller College of Business are more likely to graduate within four years. Although two-year graduation rates were included in this report for informational purposes, the two-year graduation rates for the College of Computing, Ivan Allen College of Liberal Arts, and Schedule College of Business have increased since 2017.

- Although non-first-generation transfer students have higher four-year graduation rates, first-generation transfer students tend to have slightly higher two, three, five, and six-year graduation rates. Although the results of the correlation analysis do not show a significant correlation to graduation and time-to-degree, there was some level of connection (See Table 18). Further analysis was conducted using a linear regression, which reflected some level of impact (negative) to overall time-to-graduation that was statistically significant (See Table 20 and Figure I).
- Four, five, and six-year graduation rates for Dual Degree Engineering Program (DDEP) pathway transfer students tend to be slightly lower than non-DDEP transfer pathway students. However, the two and three-year graduation rates for DDEP transfer pathway students are actually higher. Similarly, students who transfer from these DDEP institutions are likely to graduate in four years or less (see Table 23). It is important to note that the cohort sample sizes for some DDEP institutions are ≤ 10

## Correlation Analyses Results: Relationships among Transfer Factors and Impact on Retention and Graduation

### *Retention*

- Among transfer variables included in the analysis, cumulative GPA had the greatest correlation to student retention (See Table 17).
- The strongest positive correlation was between transfer students' **cumulative GPA** and **first-year retention** (r = 0.58364), which is statistically significant.
- While not statistically significant, there were some notable positive correlations among the following variables and retention: (i.) Cumulative GPA and retention, (ii.) College Type [Transfer] and retention, and (iii.) Financial Aid and retention.

### *Graduation and Time-to-Graduation*

- Among transfer variables included in the graduation and time-to-graduation analysis, there were no correlations that were statistically significant (See Table 18). As with the descriptive analysis in this study one, two, and three-year graduation rates were also included for informational purposes.
- Similar to the retention correlation, while not statistically significant, there were some notable positive and negative correlations among the following variables and graduation or time-to-graduation: (i.) Transfer Credits and graduation rate and time-to-graduation, (ii.) Internship Semesters and time-to-graduation, (iii.) Cumulative GPA and time-to-graduation, and (iv.) First-Generation students and time-to-graduation.

## Linear Regression Results: Transfer Variables that Impact Retention, Graduation, and Time-to-Graduation

Transfer variables that were statistically significant in impacting transfer students' retention at Georgia Tech were:

- **Transfer College** - Students' transfer college does negatively impact retention with the greatest impact on second (r = -0.056215) and third-year (r = -0.054327) retention.

(Linear Regression Results Continued)

- **College Type** - Although small, there is a positive association between transfer college type and retention, with the greatest impact on third-year retention (r = 0.00015).
- **Transfer Credit Hours** - There is a negative association between the number of transfer credits students' have and retention, with the greatest impact on third-year retention (r = -0.145302).
- **Transfer GPA** - Students' transfer GPA positivity impacts retention with the greatest impact on third (r = 0.085123) and fourth-year (r = 0.091246) retention.

Transfer variables that were statistically significant in impacting transfer students' graduation and time-to-graduation were:

- **Transfer College –** While the impact is low, students' transfer College does negatively impact graduation, especially their ability to graduate ≤ 3 years (r = -0.024107). However, it can positively impact their overall time-to-graduation.
- **Transfer Credit Hours -** There is a negative association between the number of transfer credits students' have and graduation, with the greatest impact on students' ability to graduate in two years or less (r = -0.141355), or three years or less (r = -0.161464).
- **Transfer GPA -** Students' transfer GPA positivity impacts graduation with the greatest impact on transfer students' ability to graduate within four years (r = 0.064007).
- **Coop Semesters (N) –** The number of semesters in which transfer students coop negatively impacts their ability to graduate within four years (r = -0.225109) or and even three years (r = -0.168325) or less, as well as their overall time to graduation (r = -2.149988). It is important to note the multicollinearity (*r-value* > 1.0) of the overall time-to-graduation, as there are multiple variables within the line of association, thus the *r-value* is increased.
- **Intern Semesters (N) -** The number of semesters in which transfer students intern negatively impacts their ability to graduate within four years (r = -0.292335) or and even three years (r = -0.268339) or less, as well as their overall time to graduation (r = -1.351856).
- **Major Changes (N)** – The number of times transfer students' change their major negatively impacts students' ability to four year or less (r = -0.168601), three years or less (r = -0.168601), and overall time-to-graduation.
- **Financial Aid** – While the impact is low, transfer students' financial aid does positively impact their ability to graduate in four years or less (r = 0.033348), three years or less (r = 0.035403), and their overall time-to-graduation (r = 0.301489).
- **Degree Program Length -** The length of transfer students' degree program positively impacts their ability to graduate in three years or less (r = 0.301489), four years or less (r = 0.301489), and their overall time-to-graduation (r = 0.292614).
- **First-Generation** - While statistically significant, there is a low association between first-generation transfer students and retention, with the greatest impact on fourth-year retention (r = -0.002386).
- **Major (Georgia Tech**) - Transfer students' major at Georgia Tech negatively impacts retention with the greatest impact on fourth-year (r = -0.448709) retention.

(Linear Regression Results Continued)

Ranked in from highest impact to lowest impact, the transfer variables that were **statistically significant in contributing (positive association) to transfer students having excess credit hours** were:

- **Cumulative GPA** (r = 0.190917)
- **Transfer GPA** (r = 0.173736)
- **Degree Program Length** (r = 0.088619)
- **Financial Aid** (r = 0.067190 )
- **Time-to-Graduation** (r = 0.003914)
- **College Type** (r = 0.000595)

Variables that were statistically significant in mitigating (negative association) transfer **students having excess credit hours** were:

- **First-Generation [Being]** (r = -0.967744)
- **GT Credits Earned** (r = -0.777457)
- **Coop Semesters (N)** (r = -0.561110)
- **Transfer Credit Hours** (r = -0.367320)
- **Intern Semesters (N)** (r = -0.194907)

# Approach and Methods of Analysis

## Research Questions

RQ1. What are the entering characteristics of transfer students who enrolled at Georgia Institute of Technology from 2015-2020?

a. Race and Sex Composition
b. Financial Aid Composition
c. Student Population (i.e., military, first-generation)
d. Transfer and Excess credit hours
e. Top 10 Transferring and Pathway (DDEP) Institutions
f. Top 10 Majors for Transfer Students
g. Overall Graduation and Retention Rates

RQ2. What are the retention rates for transfer students who enrolled at Georgia Institute of Technology from 2015-2020?

a. retention rates by cohort
b. retention rates by college of study
c. retention rates by sex
d. retention rates by race/ethnicity
e. retention rate by residence
f. retention rates for first-generation transfer students
g. retention rates for military transfer students
h. retention rates for transfer students by financial aid
i. retention rates for students who change majors
j. retention rates by transferring college category
k. retention rates by DDEP transfer pathway college

RQ3. What are the graduation rates for transfer students who enrolled at Georgia Institute of Technology from 2015-2018?

a. graduation rates by cohort
b. graduation rates by college of study
c. graduation rates by sex
d. graduation rates by race/ethnicity
e. graduation rate by residence
f. graduation rates for first-generation transfer students
g. graduation rates for military transfer students
h. graduation rates for transfer students by financial aid
i. graduation rates for transfer students who change majors
j. graduation rates by transferring college category
k. graduation rates by DDEP transfer pathway college

RQ4. What is the average time-to-graduation for transfer students who enrolled at Georgia Institute of Technology from 2015-2018?

RQ5. How many excess credit hours do transfer students who enrolled at Georgia Institute of Technology have upon graduating?

RQ6. Which transfer variables show a positive correlation to retention and graduation?

a. Transfer College
b. Financial Aid
c. College
d. College Type
e. Degree Program Length
f. Coop Semesters (N)
g. Transfer GPA
h. Transfer Credit Hours
i. Intern Semesters (N)
j. Cumulative GPA
k. College of Study
l. Military Status
m. ACT Composite Score
n. Major
o. Disabilities
p. SAT Composite Score
q. GT Credit Hours Earned
r. Major Changes (N)
s. State of Residence

RQ7. Of the transfer variables that correlate to graduation and retention, which have the greatest impact?

a. Transfer College
b. Coop Semesters (N)
c. Disability Status
d. College Type
e. Intern Semesters (N)
f. Major Changes (N)
g. Transfer Credit Hrs.
h. First-Generation
i. Financial Aid
j. Transfer GPA
k. Military Status
l. Degree Program Length
m. Major (Georgia Tech)

RQ8. What is the likelihood that transfer students within a given population, classification, and/or category (i.e., demographics, transfer institution type, transfer pathway programs, degree program, etc.) will be retained through graduation?

## Methods of Analyses

To address the research questions, multiple methods of analysis were used, including (a) descriptive statistics using Measures of Central Tendency (MCT), (b) Correlation Analysis, (c) a Linear Regression, and (d) a Critical Analysis of Literature whereby sequential methods of analyses were applied adequately and effectively

(Methods of Analyses Continued)

| Graduation and Retention Rates | Correlation among Graduation and Retention Variables | Impact of Certain Variables on Graduation and Retention | Likelihood of Retaining Transfer Students through Graduation |
|---|---|---|---|
| *Method: Measures of Central Tendency*<br><br>*Output: Descriptive Statistics* | *Method: Correlation Analysis*<br><br>*Output: Correlation Analysis Table* | *Method: Ordinary Least Squares (OLS)*<br><br>*Output: Linear Regression Model* | *Method: Logistic Regression (LR)*<br><br>*Output: Logistic Regression Model* |

## *Measures of Central Tendency: Descriptive Statistics for Graduation and Retention Rates*

Measures of Central Tendency (MCT) were used to explore, categorize, and describe the impact that certain transfer variables have on transfer students' retention and graduation. Specifically, this report highlights trends and anomalies pertaining to transfer students (a.) retention rates, (b.) graduation rates, (c.) time-to-graduation, and (d.) excess credit hours upon graduation. Transfer variables were categorized and grouped by relevancy. Data were further disaggregated by cohort and categorical subsets to draw more precise conclusions about retention and graduation.

## *Correlation Analysis: Relationship among Graduation and Retention Variables*

A Pearson Correlation Analysis was used to explore the relationship among transfer variables and their relationship to graduation and retention for transfer students. The correlation coefficients shown in Tables 17 and 18 indicate the strength of association among the variables shown, thus were used to determine which transfer variables have strong linear associations to graduation and retention. Those with a correlation coefficient ($r$) of $\geq 0.50$ were considered significant (Creswell, 2008).

## *Linear Regression: Factors that Impact Retention and Graduation*

To further test the relationship and/or dependency of certain transfer variables, a linear regression (Ordinary Least Squares or OLS) was used to measure the impact these variables have on transfer students' retention and graduation. The coefficients shown resulted from the number of observations (N=6,733) in the data when comparing variables or factors that impact (a.) transfer student retention, (b.) graduation rates, and (c.) time-to-graduation. Those factors include:

- ACT Composite Scores
- SAT Composite Scores
- Financial Aid
- Military Service
- Disabilities
- Internships
- Cooperatives
- Transferring College
- Transferring College Type
- Transfer Credits
- Transfer GPA
- Major (at Georgia Tech)
- Number of Major Changes
- Length of Degree Program
- Credit Hours Earned
- Cumulative GPA

Variables with positive coefficients indicate a positive correlation to graduation and retention while variables with negative coefficients indicate a negative correlation to these variables. Transfer variables, such as transfer credit, transfer GPA, major, etc., with *P-Values* less than 0.05 (≤ 0.05) are *statistically significant* whereas those with *P-Values* greater than 0.05 (> 0.05) are not statistically significant; therefore, there is no true or significant change in graduation or retention based on the transfer variables observed (Warner, 2008). The coefficients shown in Figures *H* and *I* show the relationship among these variables. It is also important to note that transfer variables deemed as *statistically significant* may not necessarily imply that the relationship (positive or negative) to graduation and retention can be used solely for predicting graduation and retention (Montgomery, Douglas C., et al., 2012).

### *Logistic Regression: Likelihood of Retaining Transfer Students through Graduation*

A Logistic Regression (LR) was used to examine the association between transfer student variables and graduation and retention as continuous outcomes (Teo, 2013). Specifically, categorical transfer variables were measured against graduation and retention to predict the probability of being retained through graduation. The logistic regression models shown illustrate the likelihood of transfer students being retained and graduating within a given population and/or category by percentages (See Tables 21, 22, 23, and 24).

# Findings

## Retention Rates for Transfer Students Who Enrolled at Georgia Institute of Technology from 2015-2020

### *Retention Rates by Cohort*

| Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|
| 2015 | 683 | 95.31% | 92.09% | 90.63% | 91.36% | 92.09% | 92.24% |
| 2016 | 761 | 94.09% | 89.49% | 89.62% | 90.80% | 92.38% | |
| 2017 | 899 | 94.88% | 91.66% | 88.65% | 90.43% | | |
| 2018 | 714 | 95.94% | 92.58% | 88.24% | | | |
| 2019 | 791 | 96.46% | 93.17% | | | | |
| 2020 | 1,032 | 97.38% | | | | | |
| Average | | **95.68%** | **91.80%** | **89.28%** | **90.87%** | **92.24%** | **92.24%** |

Table 1. Retention Rates by Cohort

First-year and second-year retention rates for transfer students have steadily increased since 2016 with the 2020 cohort having the highest first-year retention rate at 97.38%. However, third and four-year retention rates have slightly decreased. Further analyses were conducted using correlation analysis and regression models to explore causality and possible relationships among transfer variables (See Tables 17 and 19, and Figure H).

## *Retention Rates by College of Study*

**See Appendix-A for breakdown by cohort*

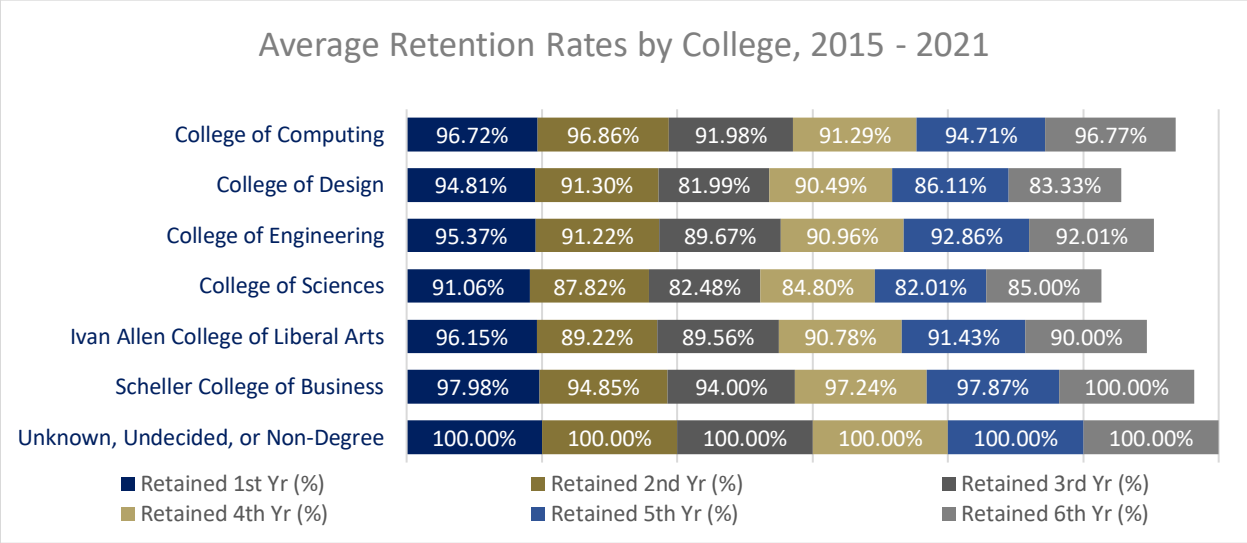
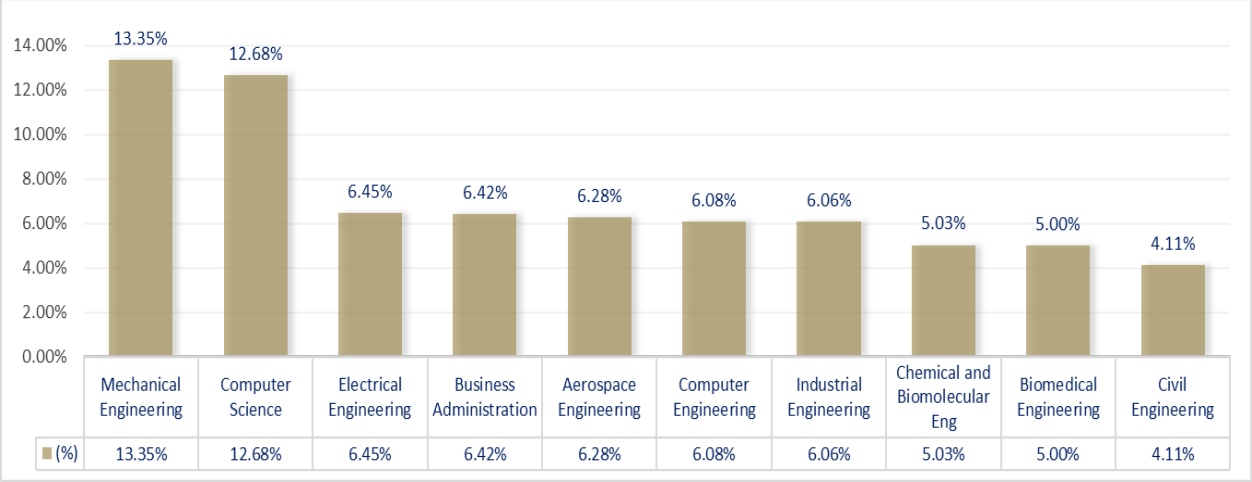



Figure A. Retention Rates by College of Study (See also Appendix-A)

## *Top 10 Majors for Transfer Students*




First-year retention rates have increased consecutively since 2016 for the College of Engineering and since 2017 for Ivan Allen College of Liberal Arts. Except for slight decreases for the 2018 cohort (approximately 1.00% - 2.00%) in the College of Computing, College of Design, and College of Sciences, first-year retention has steadily increased in most colleges of study. Although there was a slight decrease in first-year retention for Scheller College of Business for the 2019 cohort, first-year was still 95.35% with a five-year average of 97.98%.

## *Retention Rates by Sex*

| Gender | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| Female | 2015 | 210 | 94.29% | 92.86% | 88.57% | 91.43% | 92.86% | 93.33% |
| | 2016 | 205 | 97.56% | 91.71% | 90.24% | 93.17% | 94.63% | |
| | 2017 | 241 | 94.19% | 91.70% | 86.72% | 88.38% | | |
| | 2018 | 199 | 96.98% | 93.97% | 90.45% | | | |
| | 2019 | 285 | 96.14% | 93.33% | | | | |
| | 2020 | 354 | 96.89% | | | | | |
| | Average | | **96.01%** | **92.71%** | **89.00%** | **90.99%** | **93.75%** | **93.33%** |
| Male | 2015 | 473 | 95.77% | 91.75% | 91.54% | 91.33% | 91.75% | 91.75% |
| | 2016 | 556 | 92.81% | 88.67% | 89.39% | 89.93% | 91.55% | |
| | 2017 | 658 | 95.14% | 91.64% | 89.36% | 91.19% | | |
| | 2018 | 515 | 95.53% | 92.04% | 87.38% | | | |
| | 2019 | 506 | 96.64% | 93.08% | | | | |
| | 2020 | 678 | 97.64% | | | | | |
| | Average | | **95.59%** | **91.44%** | **89.42%** | **90.82%** | **91.65%** | **91.75%** |

Table 2. Retention Rates by Sex

First-year retention rates for female transfer students have remained steady since 2018. Second-year retention rates for female transfer students have continued to increase each year since 2017. First and second-year retention rates for male transfer students have continued to increase since 2016.

## *Retention Rates by Race & Ethnicity*

**See Appendix-B for breakdown by cohort*

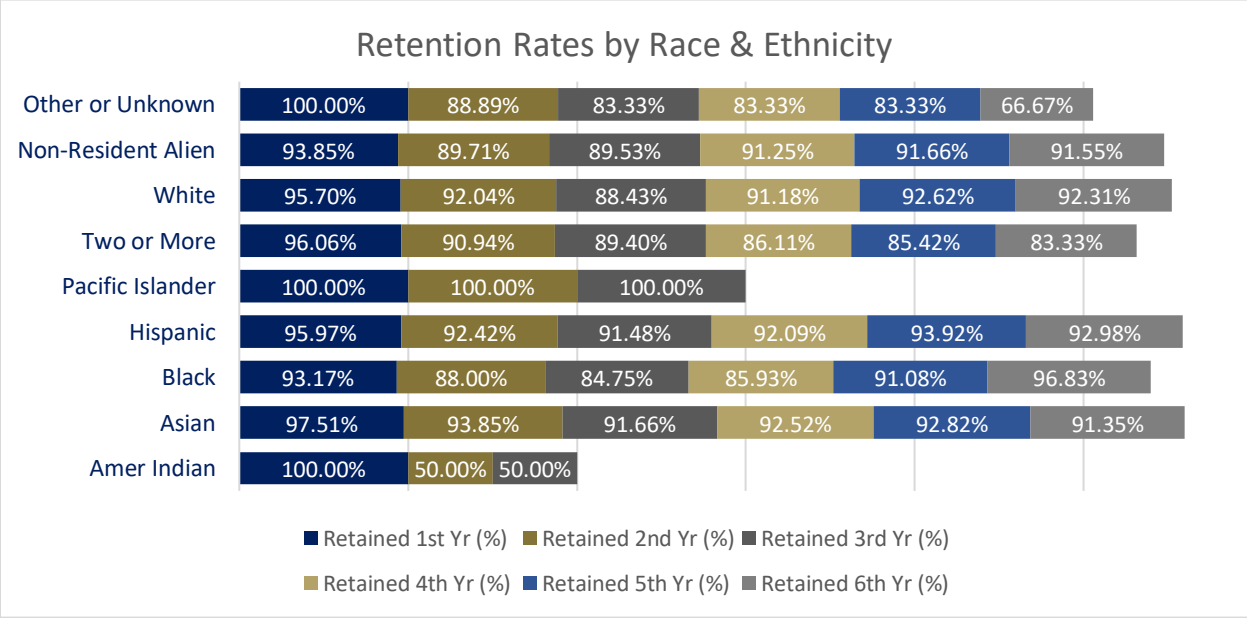



Figure B. Retention Rates by Race and Ethnicity (See also Appendix-B)

Apart from 2018, first-year retention rates have increased for Asian and White transfer students since 2016. Consequently, Black, Hispanic, and transfer students who identify with Two or More races experienced the greatest increase in 2018 at 93.75%, 97.10%, and 97.14% respectively. It is also important to note that although the second and third-year retention rates for American Indian and Alaska Natives transfer students were at or below 50.00%, the sample size (N) was ≤ 10.

### *Retention Rate by Residency*

| Resident Status | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| **In-State Resident** | 2015 | 466 | 96.14% | 93.13% | 91.42% | 92.06% | 92.70% | 92.70% |
| | 2016 | 603 | 95.36% | 90.55% | 89.88% | 91.04% | 92.87% | |
| | 2017 | 665 | 96.09% | 93.83% | 89.77% | 91.43% | | |
| | 2018 | 607 | 96.05% | 93.08% | 88.30% | | | |
| | 2019 | 581 | 96.90% | 93.12% | | | | |
| | 2020 | 690 | 97.83% | | | | | |
| | 2021 | 493 | | | | | | |
| | Average | **96.39%** | **92.74%** | **89.84%** | **91.51%** | **92.79%** | **92.70%** | |
| **Out-of-State Resident** | 2015 | 217 | 93.55% | 89.86% | 88.94% | 89.86% | 90.78% | 91.24% |
| | 2016 | 158 | 89.24% | 85.44% | 88.61% | 89.87% | 90.51% | |
| | 2017 | 234 | 91.45% | 85.47% | 85.47% | 87.61% | | |
| | 2018 | 107 | 95.33% | 89.72% | 87.85% | | | |
| | 2019 | 210 | 95.24% | 93.33% | | | | |
| | 2020 | 342 | 96.49% | | | | | |
| | 2021 | 268 | | | | | | |
| | Average | **93.55%** | **88.77%** | **87.72%** | **89.11%** | **90.64%** | **91.24%** | |

Table 3. Retention Rates by Residence

First and second-year retention rates have continually increased for both in-state and out-of-state students over the last five years with the greatest increase seen in the most recent cohort, 2020. Overall, year-to-year retention rates for in-state transfer students are higher than out-of-state transfer students, with the first-year retention rate for in-state transfer students reaching a high of 97.83%.

*Retention Rates for First-Generation Transfer Students*

| Student Category | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| First-Generation Students | 2015 | 42 | 95.24% | 92.86% | 92.86% | 92.86% | 92.86% | 92.86% |
| | 2016 | 101 | 97.03% | 92.08% | 94.06% | 89.11% | 96.04% | |
| | 2017 | 121 | 90.08% | 90.91% | 87.60% | 88.43% | | |
| | 2018 | 81 | 95.06% | 90.12% | 86.42% | | | |
| | 2019 | 115 | 95.65% | 94.78% | | | | |
| | 2020 | 154 | 94.81% | | | | | |
| | Average | | **94.65%** | **92.15%** | **90.24%** | **90.13%** | **94.45%** | **92.86%** |
| Non-First-Generation Students | 2015 | 641 | 95.32% | 92.04% | 90.48% | 91.26% | 92.04% | 92.20% |
| | 2016 | 660 | 93.64% | 89.09% | 88.94% | 91.06% | 91.82% | |
| | 2017 | 778 | 95.63% | 91.77% | 88.82% | 90.75% | | |
| | 2018 | 633 | 96.05% | 92.89% | 88.47% | | | |
| | 2019 | 676 | 96.60% | 92.90% | | | | |
| | 2020 | 878 | 97.84% | | | | | |
| | Average | | **95.85%** | **91.74%** | **89.18%** | **91.02%** | **91.93%** | **92.20%** |

Table 4. Retention Rates for First-Generation Students

First-year retention rates for first-generation transfer students declined slightly (-0.84%) for the 2020 cohort but have remained steady since 2018. However, the second-year retention rate for first-generation transfer students increased by 4.66%. Third and fourth-year retention rates have declined slightly by -1.18% and –0.66% respectively. Retention rates for non-first-generation transfer students have continued to increase since 2016. Compared to first-generation students, third-year retention rates for non-first-generation transfer students tend to be more steady with little variation from year to year. Further analyses of first-generation transfer students were conducted using correlation analysis and regression models to explore causality and possible relationships among transfer variables (See Tables 17 and 19, and Figure H). Additionally, a logistic regression was used to determine the likelihood of first-generation transfer students being retained through graduation (See Table 21).

## *Retention Rates for Military Transfer Students*

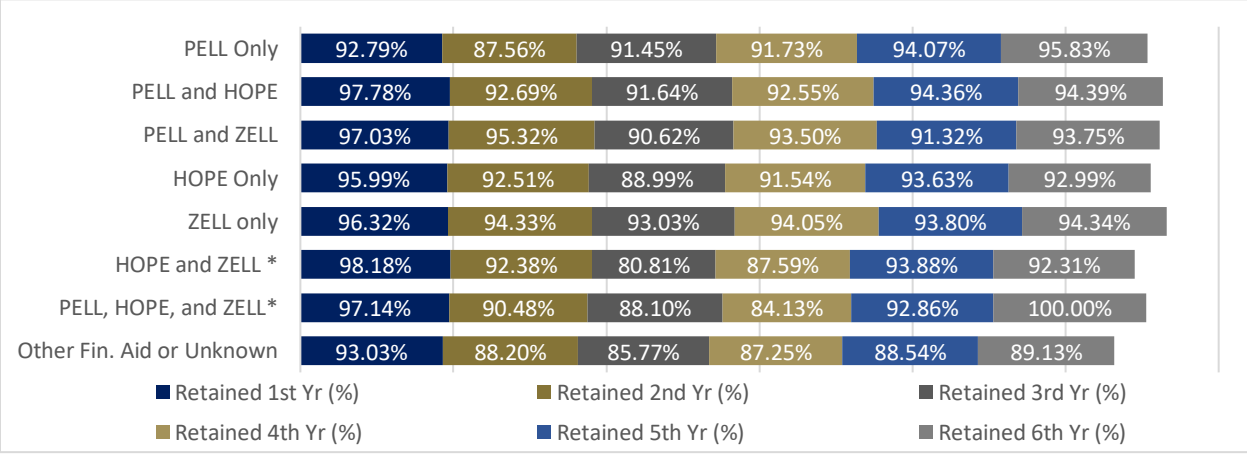
| Student Category | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| **Military Students** | 2015 | 50 | 94.00% | 86.00% | 82.00% | 88.00% | 88.00% | 88.00% |
| | 2016 | 46 | 95.65% | 89.13% | 91.30% | 91.30% | 91.30% | |
| | 2017 | 66 | 93.94% | 87.88% | 81.82% | 84.85% | | |
| | 2018 | 35 | 97.14% | 94.29% | 88.57% | | | |
| | 2019 | 43 | 93.02% | 88.37% | | | | |
| | 2020 | 50 | 94.00% | | | | | |
| | Average | | **94.63%** | **89.13%** | **85.92%** | **88.05%** | **89.65%** | **88.00%** |
| **Non-Military Students** | 2015 | 633 | 95.42% | 92.58% | 91.31% | 91.63% | 92.42% | 92.58% |
| | 2016 | 715 | 93.99% | 89.51% | 89.51% | 90.77% | 92.45% | |
| | 2017 | 833 | 94.96% | 91.96% | 89.20% | 90.88% | | |
| | 2018 | 679 | 95.88% | 92.49% | 88.22% | | | |
| | 2019 | 748 | 96.66% | 93.45% | | | | |
| | 2020 | 982 | 97.56% | | | | | |
| | Average | | **95.75%** | **92.00%** | **89.56%** | **91.09%** | **92.44%** | **92.58%** |

Table 5. Retention Rates for Military Students

First and second-year retention rates for non-military transfer students tend to be higher than military transfer students and have continued to increase since 2016. Compared to non-military transfer students, first and second-year retention rates for military transfer students have varied from year to year and appear to increase every other cohort. Military transfer students in the 2018 cohort had the highest first-year retention rate at 97.14%. As with first-generation students, further analyses of military transfer students were conducted using correlation analysis and regression models to explore causality and possible relationships among transfer variables (See Tables 17 and 19, and Figure H), as well as a logistic regression to determine the likelihood of military transfer students being retained through graduation (See Table 21).

## *Retention Rates for Transfer Students by Financial Aid*

**See Appendix-C for breakdown by cohort*




** Indicates changes in student Financial Aid Eligibility (e.g. ZELL eligibility changed to HOPE).*

Figure C. Retention Rates by Financial Aid (See also Appendix-C)

## *(Retention Rates for Transfer Students by Financial Aid Continued)*

Since 2016, first-year retention rates have continuously declined for transfer students who only received PELL as their primary source of financial aid with the 2020 cohort having the lowest first-year retention rate at 87.88%. There has been an increase in first-year retention rates for students who received both PELL and HOPE with the 2020 cohort at 98.86%. However, second-year retention rates decreased for students who received both PELL and HOPE. See Appendix-C for a complete breakdown of financial aid by cohort.

First-year retention for transfer students who received both PELL and ZELL decreased from 98.28% to 95.983% but increased for students who received HOPE only (98.03%). Students whose eligibility changed (HOPE-to-ZELL or ZELL-to-HOPE), had the highest retention rates. Retention rates for transfer students who received other types, or no aid, have increased over the past four years. Given the variation in retention rates across the different types of financial aid, further analysis was conducted to better understand how financial aid impacts retention and graduation rates. Likewise, a linear regression was used to determine to what extent financial aid impacts retention and graduation rates (see Tables 17 and 20; See also Figure I).

## *Retention Rates for Transfer Students Who Change Majors*

| No. of Major Changes | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| **No Change of Major** | 2015 | 560 | 95.36% | 92.32% | 91.07% | 91.61% | 92.68% | 92.68% |
| | 2016 | 578 | 93.94% | 89.62% | 90.48% | 91.52% | 92.91% | |
| | 2017 | 723 | 93.78% | 90.32% | 88.11% | 89.07% | | |
| | 2018 | 556 | 95.68% | 91.73% | 87.23% | | | |
| | 2019 | 631 | 96.04% | 92.23% | | | | |
| | 2020 | 866 | 97.23% | | | | | |
| | Average | | **95.34%** | **91.24%** | **89.22%** | **90.73%** | **92.79%** | **92.68%** |
| **Changed Major Once** | 2015 | 111 | 95.50% | 90.99% | 88.29% | 90.99% | 90.09% | 90.99% |
| | 2016 | 164 | 94.51% | 87.80% | 86.59% | 89.02% | 90.24% | |
| | 2017 | 167 | 99.40% | 97.01% | 91.62% | 96.41% | | |
| | 2018 | 152 | 96.71% | 95.39% | 91.45% | | | |
| | 2019 | 148 | 97.97% | 97.30% | | | | |
| | 2020 | 162 | 98.15% | | | | | |
| | Average | | **97.04%** | **93.70%** | **89.48%** | **92.14%** | **90.17%** | **90.99%** |
| **Changed Major Twice** | 2015 | 12 | 91.67% | 91.67% | 91.67% | 83.33% | 83.33% | 83.33% |
| | 2016 | 16 | 93.75% | 100.00% | 93.75% | 87.50% | 93.75% | |
| | 2017 | 8 | 100.00% | 100.00% | 75.00% | 87.50% | | |
| | 2018 | 6 | 100.00% | 100.00% | 100.00% | | | |
| | 2019 | 12 | 100.00% | 91.67% | | | | |
| | 2020 | 4 | 100.00% | | | | | |
| | Average | | **97.57%** | **96.67%** | **90.10%** | **86.11%** | **88.54%** | **83.33%** |
| **Changed Major Three or More Times** | 2016 | 3 | 100.00% | 100.00% | 66.67% | 66.67% | 100.00% | 33.33% |
| | 2017 | 1 | 100.00% | 100.00% | 100.00% | 100.00% | | |
| | Average | | **100.00%** | **100.00%** | **83.33%** | **83.33%** | **100.00%** | |

Table 6. Retention Rates by Number of Major Changes

Transfer students who changed their major at least once actually had higher retention rates than students who did not. This anomaly could be attributed to students selecting a major that they feel may be a better fit or aligned with their professional goals. While there is no significant correlation between major change and retention, the results of the linear regression show that students' majors impact their retention beyond the third year (See Table 19 and Figure H), which is congruent with the lower third and fourth-year retention rates shown in Table 6. In contrast, third-year retention rates were lower for transfer students who changed their major two or more times. Further analyses were also conducted to determine the likelihood of students being retained through graduation based on their major at Georgia Tech and the number of times they changed their major (See Table 21e).

## *Retention Rates by Transferring College Category*

**See Appendix-D for breakdown by cohort*

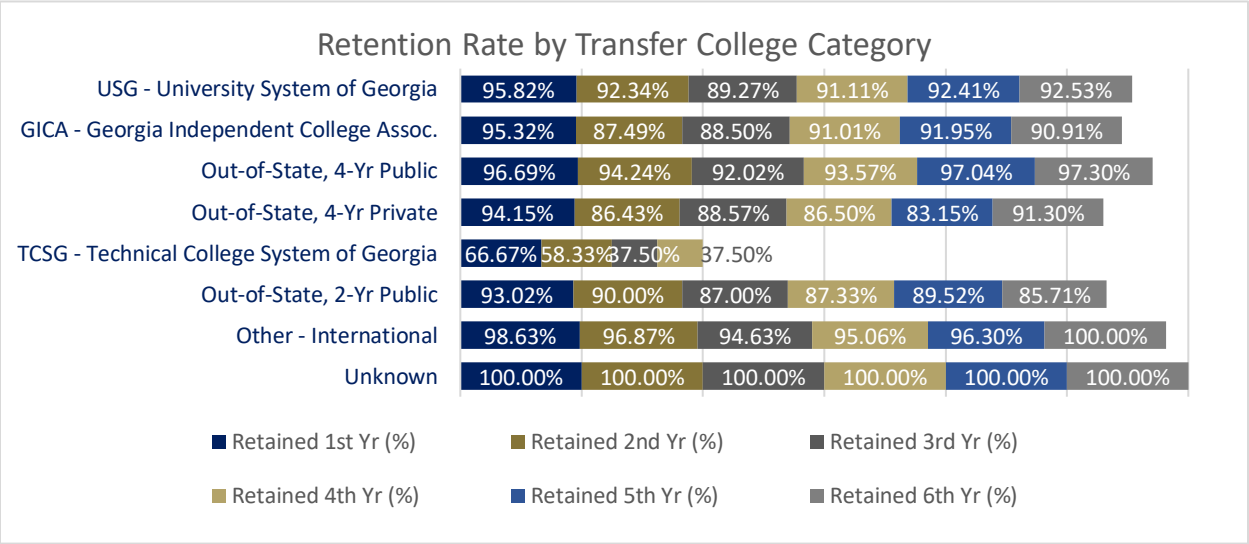



Figure D. Retention Rate by Transferring College Category (See also Appendix-D)

Most students who transfer to Georgia Institute of Technology are from other University System of Georgia (USG) schools with the 2019 and 2020 cohorts having first-year retention rates of 97.02% and 97.76%. Students who transfer to Georgia Institute of Technology from a Georgia Independent College (GICA) and out-of-state, four-year public institutions also tend to have high rates with the 2020 cohort at 98.18% and 97.02% respectively. Please note that USG and GICA transfers also include Regents' Engineering Pathways Program (REPP) students, however, are not disaggregated by an RREP attribute like Dual Degree Engineering Program (DDEP) Pathway students. Please Reference the DDEP Transfer Pathway College-specific sections of this report for breakdowns by DDEP transfer college.

Although international transfer students are fewer in number, first, second, and third-year retention has remained at 100.00% for three consecutive years. Retention rates for students who transfer from an out-of-state, two-year college or a Technical College System of Georgia (TCSG) school tend to be lower compared to other types of schools. It is important to note that the number of transfer students from TCSG schools is ≤ 10. The results of the linear regression analysis show that college type (but not necessarily the college), does have a significant impact on retention (See Table 19 and Figure H). Similarly, the college from which a student transfers does positively impact time-to-graduation (See Table 20 and Figure I).

## *Retention Rates by DDEP Transfer Pathway College*

**See Appendix-E for breakdown by cohort*

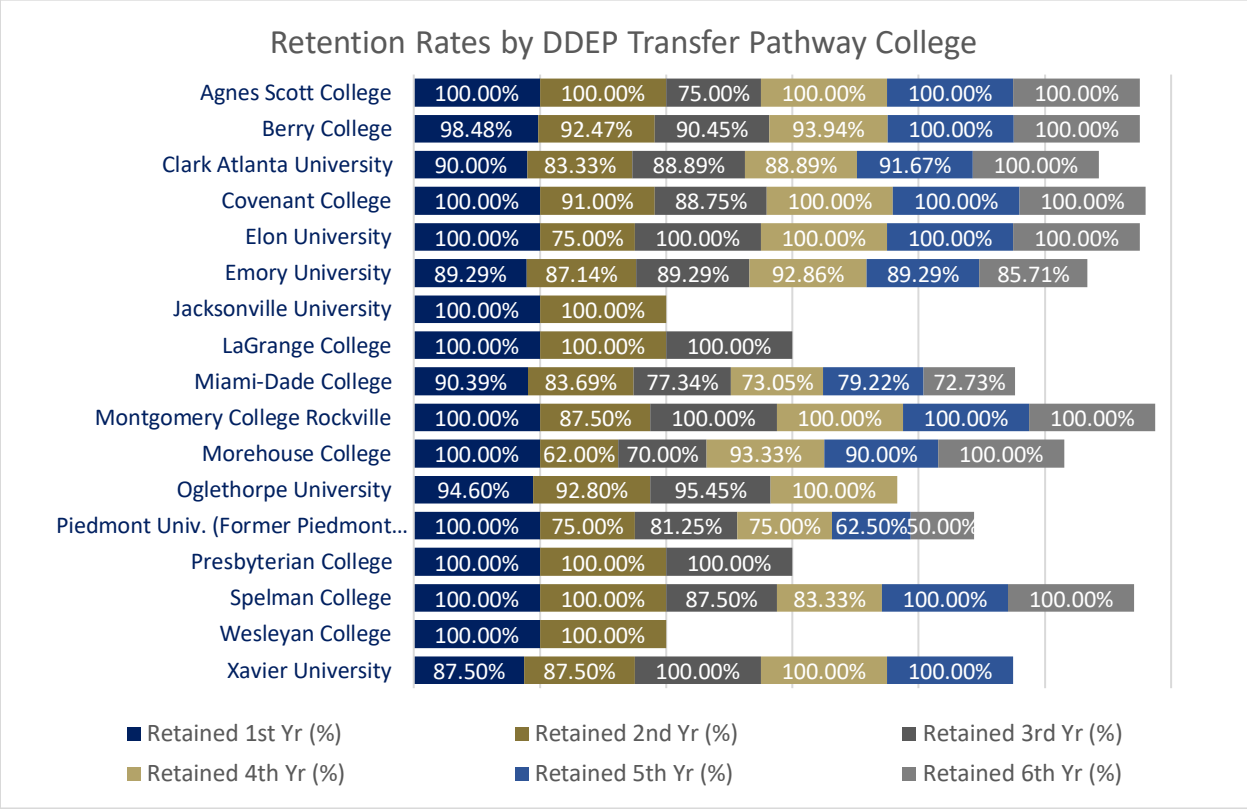



Figure E. Retention Rates by Transfer Pathway Institution (See also Appendix-E)

## *Top 10 Transferring and Pathway (DDEP) Institutions*

| Top 10 Transferring Institutions | | Top 10 Pathway Transferring Institutions (DDEP) | |
|---|---|---|---|
| Georgia State Univ. | **26.50%** | Emory Univ. | **1.56%** |
| Kennesaw State Univ. | **10.49%** | Berry College | **0.82%** |
| Univ. Of Georgia | **8.47%** | Miami-Dade College | **0.80%** |
| Univ. of North Georgia | **5.25%** | Oglethorpe Univ. | **0.71%** |
| Georgia Southern Univ. | **5.03%** | Covenant College | **0.66%** |
| Georgia Gwinnett College | **2.02%** | Agnes Scott College | **0.39%** |
| Georgia College & State Univ. | **1.97%** | Spelman College | **0.32%** |
| Univ. Of West Georgia | **1.84%** | Piedmont College | **0.30%** |
| Emory Univ. | **1.56%** | Morehouse College | **0.28%** |
| Valdosta State Univ. | **1.37%** | Elon Univ.* (tied) | **0.23%** |
| | | Clark Atlanta Univ.* (tied) | **0.23%** |

Although the sample sizes for cohorts included in this study are ≤14, Dual Degree Engineering Program (DDEP) transfer students tend to have the highest retention rates compared to other categories and types of institutions. First-year retention rates for students from Agnes Scott College, Covenant College, Elon University, Jacksonville University, LaGrange College, Montgomery College Rockville, Morehouse College, Piedmont University, Presbyterian College, Spelman, College, and Wesleyan College stand at 100.00%. Both first and second-year retention rates for students from Agnes Scott, Berry College, Jacksonville University, LaGrange College, Ogthlethorpe Univerisity, Presbyterian College, Spellman College, and Wesleyan College were 90.00% - 100.00%.

Although first and second-year retention rates for students from Xavier University are only 87.50%, students appear to return to Georgia Tech and the remaining persist to graduation. While first and second-year retention rates for students who transfer from Miami Dade College range from 71.43% - 100.00%, retention beyond students' second year tends to decline with third through six-year retention rates ranging from 60.00% - 100.00%. A logistic regression was also used to determine the probability of students from DDEP pathway colleges being retained through graduation (See Table 23).

## Graduation Rates for Transfer Students Who Enrolled at Georgia Institute of Technology From 2015-2019

### *Graduation Rates by Cohort*

| Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|
| 2015 | 842 | 38.95% | 74.94% | 87.05% | 90.26% | 90.50% |
| 2016 | 915 | 34.10% | 72.02% | 85.36% | 87.98% | |
| 2017 | 1042 | 30.23% | 71.88% | 82.34% | | |
| 2018 | 844 | 32.70% | 53.20% | | | |
| Average | | **34.00%** | **68.01%** | **84.92%** | **89.12%** | **90.50%** |

Table 7. Graduation Rates by Cohort

Since this study focuses on transfer students, second and third-year graduation rates were also included to provide some insights about transfer students' ability to graduate in less than four years and overall time-to-graduation. Although the average time-to-graduation is approximately three years, some transfer students take up to four years to graduate. The preceding sections further break down graduation rates by category. Additional analyses regarding variables that impact graduation are described in the transfer variables correlation and regression analyses results of this report.

## Graduation Rates by Sex

| Gender | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| Female | 2015 | 248 | 38.31% | 72.18% | 88.71% | 91.53% | 91.53% |
| | 2016 | 237 | 32.49% | 71.73% | 88.19% | 89.45% | |
| | 2017 | 276 | 27.17% | 72.83% | 84.42% | | |
| | 2018 | 236 | 34.75% | 56.78% | | | |
| | Average | | **33.18%** | **68.38%** | **87.11%** | **90.49%** | **91.53%** |
| Male | 2015 | 594 | 39.23% | 76.09% | 86.36% | 89.73% | 90.07% |
| | 2016 | 678 | 34.66% | 72.12% | 84.37% | 87.46% | |
| | 2017 | 766 | 31.33% | 71.54% | 81.59% | | |
| | 2018 | 608 | 31.91% | 51.81% | | | |
| | Average | | **34.28%** | **67.89%** | **84.11%** | **59.11%** | **30.12%** |

Table 8. Graduation Rates by Sex

When broken down by sex, female transfer students have higher graduation rates than males. There has been a slight decrease in four, five, and six-year graduation rates. As previously mentioned, Additional analyses regarding variables that impact graduation are described in the transfer variables correlation and regression analyses results of this report and may provide more insight regarding factors that impact transfer students' graduation rates.

## Graduation Rates by Race/Ethnicity

**See Appendix-G for breakdown by cohort*

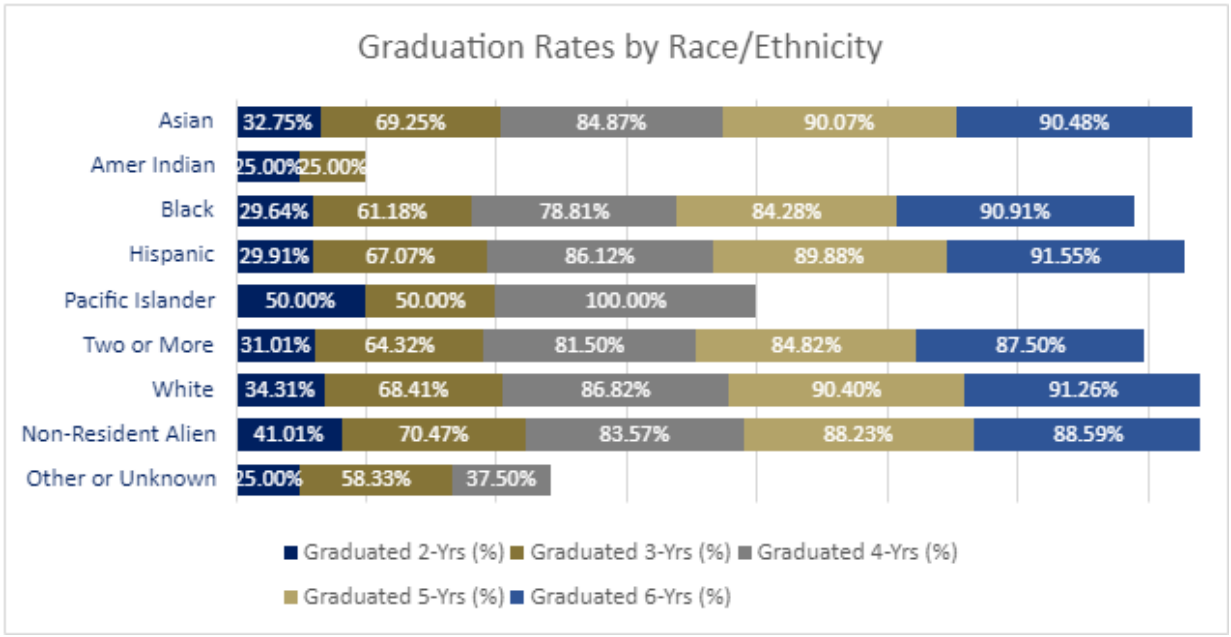



Figure F. Graduation Rates by Race and Ethnicity (See also Appendix-G)

## *(Graduation Rates by Race/Ethnicity Continued)*

When broken down by race, White, Hispanic, Asian, and Non-Resident Alien transfer students tend to have higher four, five, and six-year graduation rates (See Appendix-G). When further broken down by race and cohort, four, five, and six-year graduation rates for transfer students have declined slightly across all races and cohorts. Although the four-year retention rate for Pacific-Islander transfer students was is 100.00%, the sample size is ≤ 10 with only two cohorts (See Appendix-G), thus the graduation rates for that specific population may not be helpful. Likewise, the sample size for American Indians and Alaska Natives was also ≤ 10, thus did not yield any viable insights specific to that population. Variables that impact graduation are described in the transfer variables correlation and regression analyses results of this report and may provide more insights about factors that impact transfer students' graduation rates.

## *Graduation Rates by College of Study*

| College | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| **College of Computing** | 2015 | 80 | 41.25% | 82.50% | 91.25% | 93.75% | 93.75% |
| | 2016 | 83 | 36.14% | 69.88% | 86.75% | 89.16% | |
| | 2017 | 106 | 35.85% | 75.47% | 84.91% | | |
| | 2018 | 110 | 39.09% | 67.27% | | | |
| | Average | | **38.08%** | **73.78%** | **87.63%** | **91.45%** | **93.75%** |
| **College of Design** | 2015 | 23 | 8.70% | 47.83% | 82.61% | 82.61% | 82.61% |
| | 2016 | 32 | 12.50% | 59.38% | 84.38% | 84.38% | |
| | 2017 | 37 | 8.11% | 48.65% | 78.38% | | |
| | 2018 | 39 | 10.26% | 17.95% | | | |
| | Average | | **9.89%** | **43.45%** | **81.79%** | **83.49%** | **82.61%** |
| **College of Engineering** | 2015 | 547 | 38.21% | 73.86% | 85.92% | 89.58% | 89.95% |
| | 2016 | 631 | 32.33% | 72.74% | 85.42% | 88.59% | |
| | 2017 | 672 | 30.65% | 73.21% | 83.04% | | |
| | 2018 | 454 | 32.82% | 52.64% | | | |
| | Average | | **33.50%** | **68.11%** | **84.79%** | **89.08%** | **89.95%** |
| **College of Sciences** | 2015 | 69 | 40.58% | 71.01% | 81.16% | 84.06% | 84.06% |
| | 2016 | 75 | 33.33% | 62.67% | 78.67% | 80.00% | |
| | 2017 | 107 | 29.91% | 66.36% | 77.57% | | |
| | 2018 | 92 | 27.17% | 48.91% | | | |
| | Average | | **32.75%** | **62.24%** | **79.13%** | **82.03%** | **84.06%** |
| **Ivan Allen College of Liberal Arts** | 2015 | 30 | 36.67% | 80.00% | 90.00% | 90.00% | 90.00% |
| | 2016 | 32 | 43.75% | 84.38% | 90.63% | 90.63% | |
| | 2017 | 44 | 20.45% | 70.45% | 77.27% | | |
| | 2018 | 92 | 30.43% | 53.26% | | | |
| | Average | | **32.83%** | **72.02%** | **85.97%** | **90.31%** | **90.00%** |
| **Scheller College of Business** | 2015 | 67 | 61.19% | 89.55% | 98.51% | 100.00% | 100.00% |
| | 2016 | 52 | 63.46% | 84.62% | 88.46% | 90.38% | |
| | 2017 | 70 | 37.14% | 78.57% | 88.57% | | |
| | 2018 | 53 | 49.06% | 64.15% | | | |
| | Average | | **52.71%** | **79.22%** | **91.85%** | **95.19%** | **100.00%** |
| **Unknown, Undecided, or Non-Degree** | 2015 | 26 | 15.38% | 65.38% | 84.62% | 92.31% | 92.31% |
| | 2016 | 10 | 20.00% | 50.00% | 90.00% | 90.00% | |
| | 2017 | <10 | 16.67% | 33.33% | 33.33% | | |
| | 2018 | <10 | 25.00% | 25.00% | | | |
| | Average | | **19.26%** | **43.43%** | **69.32%** | **91.15%** | **92.31%** |

Table 9. Graduation Rates by College of Study

Four, five, and six-year graduation rates have decreased for the College of Computing, College of Design, College of Engineering, and College of Sciences. However, apart from the 2017 cohort, four, five, and six-year graduation rates for Ivan Allen College of Liberal Arts and Scheller College of Business have remained steady or slightly increased. This is congruent with the results of the logistic regression shown in Table 22 whereby transfer students whose major is within Ivan Allen College of Liberal Arts and Scheller College of Business are more likely to graduate within four years. Although two-year graduation rates were included in this report for informational purposes, the two-year graduation rates for the College of Computing, Ivan Allen College of Liberal Arts, and Schedule College of Business have increased since 2017.

## *Graduation Rates by Residence*

| Resident Status | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| **In-State Resident** | 2015 | 599 | 37.56% | 75.46% | 87.81% | 90.98% | 91.32% |
| | 2016 | 744 | 33.87% | 72.31% | 85.75% | 88.44% | |
| | 2017 | 777 | 29.21% | 72.46% | 84.30% | | |
| | 2018 | 719 | 32.13% | 53.41% | | | |
| | Average | | **33.19%** | **68.41%** | **85.95%** | **89.71%** | **91.32%** |
| **Out-of-State Resident** | 2015 | 243 | 42.39% | 73.66% | 85.19% | 88.48% | 88.48% |
| | 2016 | 171 | 35.09% | 70.76% | 83.63% | 85.96% | |
| | 2017 | 265 | 33.21% | 70.19% | 76.60% | | |
| | 2018 | 125 | 36.00% | 52.00% | | | |
| | Average | | **36.67%** | **66.65%** | **81.80%** | **87.22%** | **88.48%** |

Table 10. Graduation Rates by Residence

In-state transfer students have higher four, five, and six-year graduation rates than out-of-state students. Four, five, and six-year graduation rates have declined for both in-state and out-of-state transfer students, with the greatest decline seen in the 2017 out-of-state cohort. However, out-of-state students have higher two-year graduation rates. Transfer students' state of residence was further investigated whereby data whereby a logistic regression was used to determine the probability of graduating based on students' state of residence (See Tables 24a and 24b).

## *Graduation Rates for Military Transfer Students*

| Student Category | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| **Military Students** | 2015 | 50 | 26.00% | 62.00% | 78.00% | 86.00% | 88.00% |
| | 2016 | 46 | 26.09% | 69.57% | 84.78% | 91.30% | |
| | 2017 | 66 | 25.76% | 59.09% | 78.79% | | |
| | 2018 | 35 | 40.00% | 62.86% | | | |
| | Average | | **29.46%** | **63.38%** | **80.52%** | **88.65%** | **88.00%** |
| **Non-Military Students** | 2015 | 633 | 39.02% | 76.78% | 89.26% | 91.47% | 91.63% |
| | 2016 | 715 | 33.43% | 73.71% | 87.27% | 89.79% | |
| | 2017 | 833 | 28.33% | 74.31% | 85.11% | | |
| | 2018 | 679 | 27.25% | 50.52% | | | |
| | Average | | **32.01%** | **68.83%** | **87.21%** | **90.63%** | **91.63%** |

Table 11. Graduation Rates for Military Students

As with retention rates, graduation rates for military students varied greatly. Compared to non-military students, military transfer students have lower four, five, and six-year graduation rates. However, there was an increase in military student two and three-year graduation rates for the 2018 cohort. There was no significant impact on military transfer students' ability to graduate in four years or less (see Table 20 and Figure I), but military transfer students are less likely to graduate in four years compared to non-military students (See Table 21b).

### *Graduation Rates for First-Generation Transfer Students*

| Student Category | Cohort | N (Count) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| **First-Generation Students** | 2015 | 42 | 45.24% | 85.71% | 90.48% | 92.86% | 92.86% |
| | 2016 | 101 | 27.72% | 74.26% | 84.16% | 92.08% | |
| | 2017 | 121 | 28.10% | 74.38% | 83.47% | | |
| | 2018 | 81 | 32.10% | 54.32% | | | |
| | Average | | **33.29%** | **72.17%** | **86.04%** | **92.47%** | **92.86%** |
| **Non-First-Generation Students** | 2015 | 641 | 37.60% | 75.04% | 88.30% | 90.95% | 91.26% |
| | 2016 | 660 | 33.79% | 73.33% | 87.58% | 89.55% | |
| | 2017 | 778 | 28.15% | 73.01% | 84.83% | | |
| | 2018 | 633 | 27.33% | 50.71% | | | |
| | Average | | **31.72%** | **68.02%** | **86.90%** | **90.25%** | **91.26%** |

Table 12. Graduation Rates for First-Generation Students

Although non-first-generation transfer students have higher four-year graduation rates, first-generation transfer students tend to have slightly higher two, three, five, and six-year graduation rates. Although the results of the correlation analysis do not show a significant correlation to graduation and time-to-degree, there was some level of connection (See Table 18). Further analysis was conducted using a linear regression, which reflected some level of impact (negative) to overall time-to-graduation that was statistically significant (See Table 20 and Figure I).

## *Graduation Rates for Transfer Students Who Changed Majors*

| No. of Major Changes | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| **No Change of Major** | 2015 | 682 | 42.38% | 77.57% | 87.54% | 90.32% | 90.62% |
| | 2016 | 707 | 38.05% | 75.67% | 87.41% | 89.53% | |
| | 2017 | 828 | 34.18% | 73.79% | 83.09% | | |
| | 2018 | 655 | 36.34% | 58.32% | | | |
| | Average | | **37.73%** | **71.34%** | **86.01%** | **89.93%** | **90.62%** |
| **Changed Major Once** | 2015 | 145 | 24.83% | 64.83% | 85.52% | 90.34% | 90.34% |
| | 2016 | 187 | 22.46% | 62.57% | 79.14% | 83.42% | |
| | 2017 | 201 | 14.43% | 65.17% | 79.60% | | |
| | 2018 | 181 | 20.99% | 36.46% | | | |
| | Average | | **20.68%** | **57.26%** | **81.42%** | **86.88%** | **90.34%** |
| **Changed Major Twice** | 2015 | 15 | 20.00% | 53.33% | 80.00% | 86.67% | 86.67% |
| | 2016 | 18 | 5.56% | 38.89% | 77.78% | 83.33% | |
| | 2017 | 11 | 18.18% | 54.55% | 81.82% | | |
| | 2018 | <10 | 0.00% | 12.50% | | | |
| | Average | | **10.93%** | **39.82%** | **79.87%** | **85.00%** | **86.67%** |
| **Changed Major Three or More Times** | 2016 | <10 | 0.00% | 0.00% | 33.33% | 33.33% | |
| | 2017 | <10 | 50.00% | 50.00% | 50.00% | | |
| | Average | | **25.00%** | **25.00%** | **41.67%** | **33.33%** | |

Table 13. Graduation Rates for Students Who Change Majors

Transfer students who did not change their major had higher graduation rates across all cohorts. Graduation rates slightly decreased for transfer students who changed their major only once but decreased more for students who changed their major more than once. Likewise, transfer students' major had some level of impact on fourth-year retention (See Table 19 and Figure G), and are less likely to graduate within four years or less than students who do not change their major (See Table 21e).

## *Graduation Rates by Transferring College Category*

| Transferring College Category | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| **USG - University System of Georgia** | 2015 | 643 | 39.50% | 75.74% | 87.09% | 89.89% | 90.20% |
| | 2016 | 741 | 34.68% | 71.12% | 84.75% | 87.58% | |
| | 2017 | 785 | 29.17% | 71.97% | 82.80% | | |
| | 2018 | 689 | 31.93% | 52.54% | | | |
| | Average | | **33.82%** | **67.84%** | **84.88%** | **88.74%** | **90.20%** |
| **GICA - Georgia Independent College Assoc.** | 2015 | 45 | 48.89% | 80.00% | 91.11% | 93.33% | 93.33% |
| | 2016 | 60 | 45.00% | 85.00% | 91.67% | 91.67% | |
| | 2017 | 48 | 45.83% | 77.08% | 83.33% | | |
| | 2018 | 42 | 50.00% | 73.81% | | | |
| | Average | | **47.43%** | **78.97%** | **88.70%** | **92.50%** | **93.33%** |
| **Out-of-State, 4-Yr Public** | 2015 | 43 | 27.91% | 67.44% | 88.37% | 95.35% | 95.35% |
| | 2016 | 35 | 20.00% | 77.14% | 88.57% | 88.57% | |
| | 2017 | 82 | 23.17% | 65.85% | 80.49% | | |
| | 2018 | 64 | 29.69% | 46.88% | | | |
| | Average | | **25.19%** | **64.33%** | **85.81%** | **91.96%** | **95.35%** |
| **Out-of-State, 4-Yr Private** | 2015 | 23 | 52.17% | 78.26% | 86.96% | 91.30% | 91.30% |
| | 2016 | 17 | 17.65% | 58.82% | 70.59% | 70.59% | |
| | 2017 | 24 | 37.50% | 79.17% | 83.33% | | |
| | 2018 | 14 | 42.86% | 57.14% | | | |
| | Average | | **37.54%** | **68.35%** | **80.29%** | **80.95%** | **91.30%** |
| **Out-of-State, 2-Yr Public** | 2015 | 62 | 29.03% | 72.58% | 80.65% | 85.48% | 85.48% |
| | 2016 | 32 | 21.88% | 62.50% | 90.63% | 93.75% | |
| | 2017 | 72 | 37.50% | 72.22% | 77.78% | | |
| | 2018 | 22 | 9.09% | 31.82% | | | |
| | Average | | **24.37%** | **59.78%** | **83.02%** | **89.62%** | **85.48%** |
| **TCSG - Technical College System of Georgia** | 2015 | <10 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| | 2017 | <10 | 25.00% | 75.00% | 75.00% | | |
| | Average | | **12.50%** | **37.50%** | **37.50%** | **0.00%** | **0.00%** |
| **Other - International** | 2015 | 23 | 39.13% | 65.22% | 95.65% | 100.00% | 100.00% |
| | 2016 | 29 | 37.93% | 79.31% | 86.21% | 93.10% | |
| | 2017 | 27 | 29.63% | 70.37% | 85.19% | | |
| | 2018 | 13 | 61.54% | 84.62% | | | |
| | Average | | **42.06%** | **74.88%** | **89.01%** | **96.55%** | **100.00%** |
| **Unknown** | 2015 | <10 | 50.00% | 50.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 0.00% | 100.00% | 100.00% | 100.00% | |
| | Average | | **25.00%** | **75.00%** | **100.00%** | **100.00%** | **100.00%** |

Table 14a. Graduation Rates by Transfer College Category

## *Graduation Rates by DDEP Transfer Pathway College*

**See Appendix-I for breakdown by cohort*

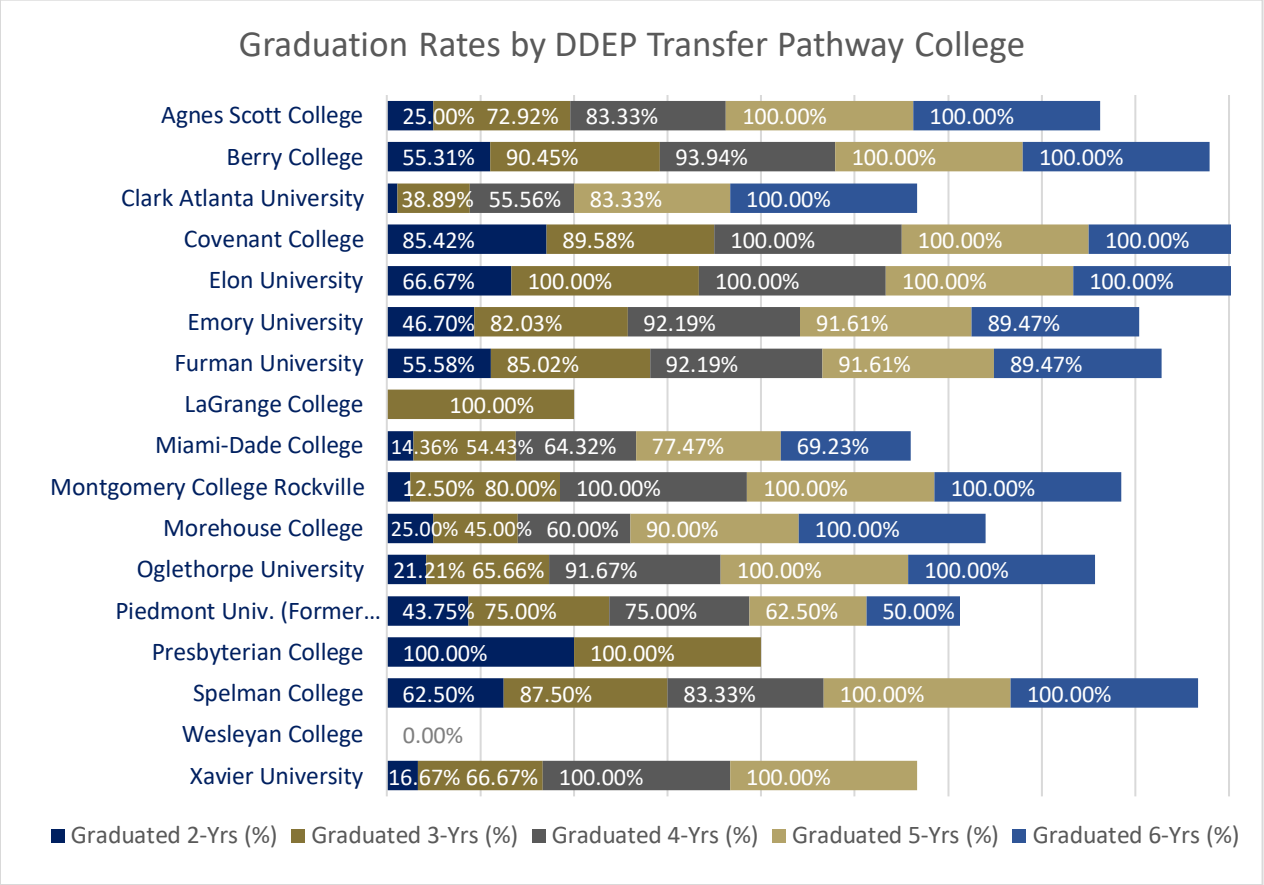



Figure G. Graduation Rates by Transfer Pathway College (See also Appendix-I)

| Transfer Pathway | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| **DDEP Transfer Pathway Students** | 2015 | 47 | 51.06% | 78.72% | 85.11% | 87.23% | 87.23% |
| | 2016 | 66 | 39.39% | 84.85% | 89.39% | 90.91% | |
| | 2017 | 53 | 45.28% | 79.25% | 84.91% | | |
| | 2018 | 43 | 48.84% | 69.77% | | | |
| | Average | | **46.14%** | **78.15%** | **86.47%** | **89.07%** | **87.23%** |
| **Non-DDEP Pathway Transfer Students** | 2015 | 636 | 37.11% | 75.47% | 88.68% | 91.35% | 91.67% |
| | 2016 | 695 | 32.37% | 72.37% | 86.91% | 89.78% | |
| | 2017 | 846 | 27.07% | 72.81% | 84.63% | | |
| | 2018 | 671 | 26.53% | 49.93% | | | |
| | Average | | **30.77%** | **67.65%** | **86.74%** | **90.57%** | **91.67%** |

Table 14b. Graduation Rates by DDEP Pathway Transfer College

Four, five, and six-year graduation rates for Dual Degree Engineering Program (DDEP) pathway transfer students tend to be slightly lower than non-DDEP transfer pathway students. However, the two and three-year graduation rates for DDEP transfer pathway students are actually higher. When broken down by DDEP institution, Agnes Scott College, Berry, College, Covenant College, Elon University, Emory University, Furman, University, Montgomery College Rockville, Oglethorpe University, Spelman College, and Xavier University all have four, five, and six-year graduation rates from 83.33% - 100.00% (See Appendix-I). It is important to note that the cohort sample sizes for these institutions are ≤ 10. Similarly, students who transfer from these DDEP institutions are likely to graduate in four years or less (see Table 23).

## Time-To-Graduation for Transfer Students Who Enrolled at Georgia Institute of Technology

| Transfer Students | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|
| **All 2015-2018** | **2.43** | **3** |

| Sex | Cohort | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|---|
| **Female** | 2015 | 2.42 | 3 |
| | 2016 | 2.54 | 3 |
| | 2017 | 2.52 | 3 |
| | 2018 | 2.11 | 2 |
| | Average | **2.40** | **3** |
| **Male** | 2015 | 2.49 | 3 |
| | 2016 | 2.50 | 3 |
| | 2017 | 2.44 | 3 |
| | 2018 | 2.15 | 2 |
| | Average | **2.39** | **3** |

| First-Generation Status | Cohort | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|---|
| **First-Generation Students** | 2015 | 2.37 | 3 |
| | 2016 | 2.64 | 3 |
| | 2017 | 2.45 | 3 |
| | 2018 | 2.08 | 2 |
| | Average | **2.39** | **3** |
| **Non-First-Generation Students** | 2015 | 2.47 | 3 |
| | 2016 | 2.49 | 3 |
| | 2017 | 2.47 | 3 |
| | 2018 | 2.14 | 2 |
| | Average | **2.39** | **3** |

| Military Status | Cohort | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|---|
| **Military Students** | 2015 | 2.70 | 3 |
| | 2016 | 2.66 | 3 |
| | 2017 | 2.54 | 3 |
| | 2018 | 2.09 | 2 |
| | Average | **2.50** | **3** |
| **Non-Military Students** | 2015 | 2.45 | 3 |
| | 2016 | 2.50 | 3 |
| | 2017 | 2.46 | 3 |
| | 2018 | 2.14 | 2 |
| | Average | **2.39** | **3** |

| Transfer Students | Cohort | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|---|
| **Cohort** | 2015 | 2.47 | 3 |
| | 2016 | 2.51 | 3 |
| | 2017 | 2.47 | 3 |
| | 2018 | 2.14 | 2 |
| | Average | **2.31** | **3** |

| Resident Status | Cohort | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|---|
| **In-State Resident** | 2015 | 2.51 | 3 |
| | 2016 | 2.53 | 3 |
| | 2017 | 2.51 | 3 |
| | 2018 | 2.15 | 2 |
| | Average | **2.42** | **3** |
| **Out-of-State Resident** | 2015 | 2.37 | 3 |
| | 2016 | 2.45 | 3 |
| | 2017 | 2.34 | 3 |
| | 2018 | 2.07 | 2 |
| | Average | **2.31** | **3** |

| Major Changes | Cohort | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|---|
| **No Change of Major** | 2015 | 2.39 | 3 |
| | 2016 | 2.42 | 3 |
| | 2017 | 2.41 | 3 |
| | 2018 | 2.13 | 2 |
| | Average | **2.34** | **3** |
| **Changed Major Once** | 2015 | 2.79 | 3 |
| | 2016 | 2.78 | 3 |
| | 2017 | 2.69 | 3 |
| | 2018 | 2.20 | 3 |
| | Average | **2.62** | **3** |
| **Changed Major Twice** | 2015 | 3.10 | 3 |
| | 2016 | 3.06 | 4 |
| | 2017 | 2.83 | 3 |
| | 2018 | 2.42 | 3 |
| | Average | **2.85** | **3** |
| **Changed Major Three or More Times** | 2016 | 3.42 | 4 |
| | Average | **3.42** | **4** |

Table 15a. Time-to-Graduation for Transfer Students

Time-To-Graduation for Transfer Students Who Enrolled at Georgia Institute of Technology (Continued)

| Race/Ethnicity | Cohort | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|---|
| **Asian** | 2015 | 2.48 | 3 |
| | 2016 | 2.63 | 3 |
| | 2017 | 2.52 | 3 |
| | 2018 | 2.19 | 3 |
| | Average | **2.46** | **3** |
| **Amer Indian** | 2018 | 2.00 | 2 |
| | Average | **2.00** | **2** |
| **Black** | 2015 | 2.64 | 3 |
| | 2016 | 2.54 | 3 |
| | 2017 | 2.51 | 3 |
| | 2018 | 2.17 | 2 |
| | Average | **2.46** | **3** |
| **Hispanic** | 2015 | 2.67 | 3 |
| | 2016 | 2.61 | 3 |
| | 2017 | 2.51 | 3 |
| | 2018 | 2.04 | 2 |
| | Average | **2.46** | **3** |
| **Non-Resident Alien** | 2015 | 2.31 | 3 |
| | 2016 | 2.38 | 3 |
| | 2017 | 2.29 | 3 |
| | 2018 | 2.10 | 2 |
| | Average | **2.27** | **3** |
| **Two or More Races** | 2015 | 2.28 | 3 |
| | 2016 | 2.65 | 3 |
| | 2017 | 2.58 | 3 |
| | 2018 | 2.09 | 3 |
| | Average | **2.40** | **3** |
| **White** | 2015 | 2.47 | 3 |
| | 2016 | 2.47 | 3 |
| | 2017 | 2.47 | 3 |
| | 2018 | 2.13 | 2 |
| | Average | **2.38** | **3** |
| **Other or Unknown** | 2017 | 2.67 | 3 |
| | 2018 | 2.19 | 3 |
| | Average | **2.43** | **3** |

| College | Cohort | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|---|
| **College of Computing** | 2015 | 2.50 | 3 |
| | 2016 | 2.47 | 3 |
| | 2017 | 2.47 | 3 |
| | 2018 | 2.20 | 3 |
| | Average | **2.41** | **3** |
| **College of Design** | 2015 | 3.13 | 3 |
| | 2016 | 2.95 | 3 |
| | 2017 | 2.87 | 3 |
| | 2018 | 2.50 | 3 |
| | Average | **2.86** | **3** |
| **College of Engineering** | 2015 | 2.50 | 3 |
| | 2016 | 2.57 | 3 |
| | 2017 | 2.46 | 3 |
| | 2018 | 2.12 | 2 |
| | Average | **2.41** | **3** |
| **College of Sciences** | 2015 | 2.45 | 3 |
| | 2016 | 2.46 | 3 |
| | 2017 | 2.45 | 3 |
| | 2018 | 2.16 | 3 |
| | Average | **2.38** | **3** |
| **Ivan Allen College of Liberal Arts** | 2015 | 2.44 | 3 |
| | 2016 | 2.19 | 3 |
| | 2017 | 2.56 | 3 |
| | 2018 | 2.18 | 3 |
| | Average | **2.34** | **3** |
| **Scheller College of Business** | 2015 | 2.03 | 2 |
| | 2016 | 2.00 | 2 |
| | 2017 | 2.32 | 3 |
| | 2018 | 1.93 | 2 |
| | Average | **2.07** | **2** |
| **Unknown, Undecided, or Non-Degree** | 2015 | 3.42 | 4 |
| | Average | **3.42** | **4** |

Table 15b. Time-to-Graduation for Transfer Students

Time-To-Graduation for Transfer Students Who Enrolled at Georgia Institute of Technology (Continued)

| Financial Aid | Cohort | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|---|
| **PELL Only** | 2015 | 2.52 | 3 |
| | 2016 | 2.75 | 3 |
| | 2017 | 2.42 | 3 |
| | 2018 | 2.06 | 2 |
| | Average | **2.44** | **3** |
| **PELL and HOPE** | 2015 | 2.62 | 3 |
| | 2016 | 2.62 | 3 |
| | 2017 | 2.51 | 3 |
| | 2018 | 2.17 | 3 |
| | Average | **2.48** | **3** |
| **PELL & ZELL** | 2015 | 2.52 | 3 |
| | 2016 | 2.70 | 3 |
| | 2017 | 2.45 | 3 |
| | 2018 | 2.11 | 2 |
| | Average | **2.44** | **3** |
| **HOPE Only** | 2015 | 2.45 | 3 |
| | 2016 | 2.49 | 3 |
| | 2017 | 2.55 | 3 |
| | 2018 | 2.19 | 3 |
| | Average | **2.42** | **3** |
| **HOPE & ZELL** | 2015 | 3.35 | 4 |
| | 2016 | 2.65 | 3 |
| | 2017 | 2.48 | 3 |
| | 2018 | 2.39 | 3 |
| | Average | **2.72** | **3** |
| **ZELL Only** | 2015 | 2.40 | 3 |
| | 2016 | 2.39 | 3 |
| | 2017 | 2.50 | 3 |
| | 2018 | 2.10 | 2 |
| | Average | **2.35** | **3** |
| **PELL, HOPE, and ZELL** | 2015 | 2.42 | 3 |
| | 2016 | 2.88 | 3 |
| | 2017 | 2.71 | 3 |
| | 2018 | 1.85 | 2 |
| | Average | **2.47** | **3** |
| **Other Fin.Aid or Unknown** | 2015 | 2.36 | 3 |
| | 2016 | 2.43 | 3 |
| | 2017 | 2.31 | 3 |
| | 2018 | 2.09 | 2 |
| | Average | **2.29** | **3** |

| Prior College Category | Cohort | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|---|
| **USG - University System of Georgia** | 2015 | 2.48 | 3 |
| | 2016 | 2.53 | 3 |
| | 2017 | 2.49 | 3 |
| | 2018 | 2.15 | 2 |
| | Average | **2.41** | **3** |
| **GICA - Georgia Independent College Assoc.** | 2015 | 2.07 | 2 |
| | 2016 | 2.13 | 2 |
| | 2017 | 2.18 | 2 |
| | 2018 | 2.02 | 2 |
| | Average | **2.10** | **2** |
| **Out-of-State, 4-Yr Public** | 2015 | 2.72 | 3 |
| | 2016 | 2.60 | 3 |
| | 2017 | 2.57 | 3 |
| | 2018 | 2.15 | 2 |
| | Average | **2.51** | **3** |
| **Out-of-State, 4-Yr Private** | 2015 | 2.33 | 3 |
| | 2016 | 2.67 | 3 |
| | 2017 | 2.21 | 3 |
| | 2018 | 2.01 | 2 |
| | Average | **2.30** | **3** |
| **Out-of-State, 2-Yr Public** | 2015 | 2.45 | 3 |
| | 2016 | 2.75 | 3 |
| | 2017 | 2.38 | 3 |
| | 2018 | 2.22 | 3 |
| | Average | **2.45** | **3** |
| **Other - International** | 2015 | 2.55 | 3 |
| | 2016 | 2.41 | 3 |
| | 2017 | 2.42 | 3 |
| | 2018 | 2.08 | 2 |
| | Average | **2.36** | **3** |
| **TCSG - Technical College System of Georgia** | 2017 | 2.47 | 3 |
| | Average | **2.47** | **3** |
| **Unknown** | 2015 | 2.71 | 3 |
| | 2016 | 2.42 | 3 |
| | Average | **2.61** | **3** |

Table 15c. Time-to-Graduation for Transfer Students

Time-To-Graduation for Transfer Students Who Enrolled at Georgia Institute of Technology (Continued)

| DDEP Pathway College | Cohort | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|---|
| **Agnes Scott College** | 2015 | 2.75 | 4 |
| | 2016 | 2.42 | 3 |
| | 2017 | 2.00 | 2 |
| | 2018 | 2.14 | 2 |
| | Average | **2.33** | **3** |
| **Berry College** | 2015 | 2.42 | 3 |
| | 2016 | 1.83 | 2 |
| | 2017 | 2.03 | 2 |
| | 2018 | 1.96 | 2 |
| | Average | **2.06** | **2** |
| **Clark Atlanta University** | 2015 | 4.42 | 5 |
| | 2016 | 2.46 | 3 |
| | 2017 | 2.58 | 3 |
| | Average | **2.88** | **3** |
| **Covenant College** | 2015 | 1.72 | 2 |
| | 2016 | 2.05 | 2 |
| | 2017 | 1.42 | 2 |
| | 2018 | 1.81 | 2 |
| | Average | **1.75** | **2** |
| **Elon University** | 2015 | 2.06 | 3 |
| | 2016 | 2.21 | 3 |
| | 2017 | 1.61 | 2 |
| | Average | **1.96** | **2** |
| **Emory University** | 2015 | 1.82 | 2 |
| | 2016 | 2.01 | 2 |
| | 2017 | 2.26 | 3 |
| | 2018 | 2.07 | 3 |
| | Average | **2.04** | **2** |
| **LaGrange College** | 2018 | 2.42 | 3 |
| | Average | **2.42** | **3** |

| DDEP Pathway College | Cohort | Yrs to Grad | Yrs to Grad (Nom.) |
|---|---|---|---|
| **Miami-Dade College** | 2015 | 2.57 | 3 |
| | 2016 | 2.81 | 4 |
| | 2017 | 2.53 | 3 |
| | 2018 | 2.42 | 3 |
| | Average | **2.58** | **3** |
| **Montgomery College Rockville** | 2015 | 2.08 | 3 |
| | 2016 | 3.00 | 3 |
| | 2017 | 2.21 | 3 |
| | Average | **2.47** | **3** |
| **Morehouse College** | 2015 | 2.00 | 2 |
| | 2016 | 2.29 | 3 |
| | Average | **2.15** | **3** |
| **Oglethorpe University** | 2017 | 2.60 | 3 |
| | 2018 | 1.86 | 2 |
| | Average | **2.23** | **3** |
| **Piedmont College** | 2015 | 2.00 | 2 |
| | 2016 | 2.39 | 3 |
| | 2017 | 2.21 | 3 |
| | 2018 | 2.21 | 3 |
| | Average | **2.20** | **3** |
| **Presbyterian College** | 2018 | 1.42 | 2 |
| | Average | **1.42** | **2** |
| **Spelman College** | 2015 | 2.00 | 2 |
| | 2016 | 2.45 | 3 |
| | 2017 | 2.00 | 2 |
| | 2018 | 2.00 | 2 |
| | Average | **2.11** | **2** |
| **Xavier University** | 2016 | 2.21 | 3 |
| | 2017 | 3.00 | 3 |
| | Average | **2.60** | **3** |

Table 15d. Time-to-Graduation Transfer Students

## Excess Credit Hours for Transfer Students Who Enrolled at Georgia Institute of Technology

| Transfer Students | Avg. Excess Credit Hours |
|---|---|
| **All 2015-2018** | **16.04** |

| Sex | Cohort | Excess Credit Hours |
|---|---|---|
| **Female** | 2015 | 20.66 |
| | 2016 | 18.78 |
| | 2017 | 15.44 |
| | 2018 | 16.58 |
| | Average | **17.87** |
| **Male** | 2015 | 16.40 |
| | 2016 | 15.66 |
| | 2017 | 14.07 |
| | 2018 | 14.95 |
| | Average | **15.27** |

| First-Generation Status | Cohort | Excess Credit Hours |
|---|---|---|
| **First-Generation Students** | 2015 | 17.72 |
| | 2016 | 18.33 |
| | 2017 | 14.89 |
| | 2018 | 15.65 |
| | Average | **16.65** |
| **Non-First-Generation Students** | 2015 | 17.72 |
| | 2016 | 16.21 |
| | 2017 | 14.36 |
| | 2018 | 15.43 |
| | Average | **15.93** |

| Military Status | Cohort | Excess Credit Hours |
|---|---|---|
| **Military Students** | 2015 | 24.61 |
| | 2016 | 17.58 |
| | 2017 | 14.46 |
| | 2018 | 21.87 |
| | Average | **19.63** |
| **Non-Military Students** | 2015 | 17.14 |
| | 2016 | 16.45 |
| | 2017 | 14.43 |
| | 2018 | 15.00 |
| | Average | **15.76** |

| Transfer Students | Cohort | Excess Credit Hours |
|---|---|---|
| **Cohort** | 2015 | 17.72 |
| | 2016 | 16.53 |
| | 2017 | 14.44 |
| | 2018 | 15.46 |
| | Average | **16.04** |

| Resident Status | Cohort | Excess Credit Hours |
|---|---|---|
| **In-State Resident** | 2015 | 16.33 |
| | 2016 | 15.50 |
| | 2017 | 13.84 |
| | 2018 | 13.63 |
| | Average | **14.82** |
| **Out-of-State Resident** | 2015 | 20.61 |
| | 2016 | 20.28 |
| | 2017 | 15.92 |
| | 2018 | 23.30 |
| | Average | **20.03** |

| Major Changes | Cohort | Excess Credit Hours |
|---|---|---|
| **No Change of Major** | 2015 | 17.04 |
| | 2016 | 15.96 |
| | 2017 | 13.94 |
| | 2018 | 14.83 |
| | Average | **15.44** |
| **Changed Major Once** | 2015 | 20.56 |
| | 2016 | 18.17 |
| | 2017 | 15.91 |
| | 2018 | 18.59 |
| | Average | **18.31** |
| **Changed Major Twice** | 2015 | 23.88 |
| | 2016 | 21.45 |
| | 2017 | 22.00 |
| | 2018 | 19.00 |
| | Average | **21.58** |
| **Changed Major Three or More Times** | 2016 | 11.00 |
| | Average | **11.00** |

Table 16a. Excess Credit Hours Transfer Students

Excess Credit Hours for Transfer Students Who Enrolled at Georgia Institute of Technology (Continued)

| Race/Ethnicity | Cohort | Excess Credit Hours |
|---|---|---|
| **Asian** | 2015 | 19.72 |
| | 2016 | 15.24 |
| | 2017 | 13.30 |
| | 2018 | 13.64 |
| | Average | **15.48** |
| **Amer Indian** | 2018 | 1.00 |
| | Average | **1.00** |
| **Black** | 2015 | 19.30 |
| | 2016 | 22.93 |
| | 2017 | 17.81 |
| | 2018 | 14.36 |
| | Average | **18.60** |
| **Hispanic** | 2015 | 19.88 |
| | 2016 | 14.85 |
| | 2017 | 17.45 |
| | 2018 | 11.63 |
| | Average | **15.95** |
| **Non-Resident Alien** | 2015 | 19.61 |
| | 2016 | 20.03 |
| | 2017 | 14.98 |
| | 2018 | 22.79 |
| | Average | **19.35** |
| **Two or More Races** | 2015 | 18.54 |
| | 2016 | 16.71 |
| | 2017 | 16.87 |
| | 2018 | 14.08 |
| | Average | **16.55** |
| **White** | 2015 | 15.04 |
| | 2016 | 14.82 |
| | 2017 | 13.23 |
| | 2018 | 15.53 |
| | Average | **14.65** |
| **Other or Unknown** | 2017 | 22.50 |
| | 2018 | 20.50 |
| | Average | **21.50** |

| College | Cohort | Excess Credit Hours |
|---|---|---|
| **College of Computing** | 2015 | 15.47 |
| | 2016 | 12.76 |
| | 2017 | 9.46 |
| | 2018 | 10.63 |
| | Average | **12.08** |
| **College of Design** | 2015 | 11.70 |
| | 2016 | 22.13 |
| | 2017 | 12.19 |
| | 2018 | 23.40 |
| | Average | **17.36** |
| **College of Engineering** | 2015 | 18.84 |
| | 2016 | 16.96 |
| | 2017 | 15.04 |
| | 2018 | 16.74 |
| | Average | **16.89** |
| **College of Sciences** | 2015 | 16.79 |
| | 2016 | 20.48 |
| | 2017 | 15.91 |
| | 2018 | 14.88 |
| | Average | **17.01** |
| **Ivan Allen College of Liberal Arts** | 2015 | 19.71 |
| | 2016 | 11.65 |
| | 2017 | 12.44 |
| | 2018 | 13.75 |
| | Average | **14.39** |
| **Scheller College of Business** | 2015 | 11.90 |
| | 2016 | 11.94 |
| | 2017 | 12.50 |
| | 2018 | 12.50 |
| | Average | **12.21** |
| **Unknown, Undecided, or Non-Degree** | 2015 | 0.00 |
| | Average | **0.00** |

Table 16b. Excess Credit Hours Transfer Students

Excess Credit Hours for Transfer Students Who Enrolled at Georgia Institute of Technology (Continued)

| Financial Aid | Cohort | Excess Credit Hours |
|---|---|---|
| **PELL Only** | 2015 | 21.51 |
| | 2016 | 24.26 |
| | 2017 | 17.32 |
| | 2018 | 18.55 |
| | Average | **20.41** |
| **PELL and HOPE** | 2015 | 18.68 |
| | 2016 | 14.96 |
| | 2017 | 13.58 |
| | 2018 | 12.00 |
| | Average | **14.81** |
| **PELL & ZELL** | 2015 | 17.78 |
| | 2016 | 10.21 |
| | 2017 | 15.96 |
| | 2018 | 17.15 |
| | Average | **15.28** |
| **HOPE Only** | 2015 | 13.90 |
| | 2016 | 14.56 |
| | 2017 | 12.90 |
| | 2018 | 12.53 |
| | Average | **13.47** |
| **HOPE & ZELL** | 2015 | 11.38 |
| | 2016 | 10.69 |
| | 2017 | 11.00 |
| | 2018 | 3.00 |
| | Average | **9.02** |
| **ZELL Only** | 2015 | 10.24 |
| | 2016 | 14.32 |
| | 2017 | 12.69 |
| | 2018 | 13.84 |
| | Average | **12.77** |
| **PELL, HOPE, and ZELL** | 2015 | 14.00 |
| | 2016 | 10.50 |
| | 2017 | 6.00 |
| | 2018 | 20.33 |
| | Average | **12.71** |
| **Other Fin.Aid or Unknown** | 2015 | 21.16 |
| | 2016 | 20.87 |
| | 2017 | 16.38 |
| | 2018 | 22.90 |
| | Average | **20.32** |

| Prior College Category | Cohort | Excess Credit Hours |
|---|---|---|
| **USG - University System of Georgia** | 2015 | 16.66 |
| | 2016 | 15.29 |
| | 2017 | 13.37 |
| | 2018 | 13.02 |
| | Average | **14.58** |
| **GICA - Georgia Independent College Assoc.** | 2015 | 22.46 |
| | 2016 | 25.04 |
| | 2017 | 23.46 |
| | 2018 | 24.57 |
| | Average | **23.88** |
| **Out-of-State, 4-Yr Public** | 2015 | 16.00 |
| | 2016 | 14.11 |
| | 2017 | 12.07 |
| | 2018 | 18.92 |
| | Average | **15.28** |
| **Out-of-State, 4-Yr Private** | 2015 | 25.38 |
| | 2016 | 24.00 |
| | 2017 | 20.94 |
| | 2018 | 29.67 |
| | Average | **25.00** |
| **Out-of-State, 2-Yr Public** | 2015 | 23.65 |
| | 2016 | 16.22 |
| | 2017 | 16.20 |
| | 2018 | 22.00 |
| | Average | **19.52** |
| **Other - International** | 2015 | 18.27 |
| | 2016 | 19.00 |
| | 2017 | 14.24 |
| | 2018 | 12.50 |
| | Average | **16.00** |
| **TCSG - Technical College System of Georgia** | 2017 | 11.33 |
| | Average | **11.33** |
| **Unknown** | 2015 | 0.00 |
| | 2016 | 13.00 |
| | Average | **13.00** |

Table 16c. Excess Credit Hours Transfer Students

Excess Credit Hours for Transfer Students Who Enrolled at Georgia Institute of Technology (Continued)

| DDEP Pathway College | Cohort | Excess Credit Hours |
|---|---|---|
| **Agnes Scott College** | 2015 | 24.00 |
| | 2016 | |
| | 2017 | 16.00 |
| | 2018 | 32.33 |
| | Average | **24.11** |
| **Berry College** | 2015 | 26.00 |
| | 2016 | 25.77 |
| | 2017 | 22.67 |
| | 2018 | 29.00 |
| | Average | **25.86** |
| **Clark Atlanta University** | 2015 | 50.00 |
| | 2016 | 24.00 |
| | 2017 | 19.00 |
| | Average | **31.00** |
| **Covenant College** | 2015 | 11.80 |
| | 2016 | 15.20 |
| | 2017 | 13.33 |
| | 2018 | 26.67 |
| | Average | **16.75** |
| **Elon University** | 2015 | 36.50 |
| | 2016 | 40.50 |
| | 2017 | 35.00 |
| | Average | **37.33** |
| **Emory University** | 2015 | 22.00 |
| | 2016 | 25.54 |
| | 2017 | 30.91 |
| | 2018 | 32.20 |
| | Average | **27.66** |
| **LaGrange College** | 2018 | 12.00 |
| | Average | **12.00** |

| DDEP Pathway College | Cohort | Excess Credit Hours |
|---|---|---|
| **Miami-Dade College** | 2015 | 28.50 |
| | 2016 | 21.83 |
| | 2017 | 19.00 |
| | 2018 | 6.00 |
| | Average | **18.83** |
| **Montgomery College Rockville** | 2015 | 26.00 |
| | 2016 | 7.00 |
| | 2017 | 18.00 |
| | Average | **17.00** |
| **Morehouse College** | 2015 | 39.00 |
| | 2016 | 37.50 |
| | Average | **38.25** |
| **Oglethorpe University** | 2017 | 21.40 |
| | 2018 | 19.29 |
| | Average | **20.34** |
| **Piedmont College** | 2015 | 4.00 |
| | 2016 | 26.00 |
| | 2017 | 16.00 |
| | 2018 | 32.50 |
| | Average | **19.63** |
| **Presbyterian College** | 2018 | 6.00 |
| | Average | **6.00** |
| **Spelman College** | 2015 | 32.75 |
| | 2016 | 35.20 |
| | 2017 | 39.00 |
| | 2018 | 23.50 |
| | Average | **32.61** |
| **Xavier University** | 2016 | 26.00 |
| | 2017 | 64.00 |
| | Average | **45.00** |

Table 16d. Excess Credit Hours Transfer Students

## Transfer Variables Correlation to Retention and Graduation

A Pearson Correlation Analysis was used to explore the relationship among transfer variables and their relationship to graduation and retention for transfer students. The correlation coefficients shown in Tables 17 and 18 indicate the strength of association among the variables shown, thus were used to determine which transfer variables have strong linear associations to graduation and retention. Those with a correlation coefficient (*r*) of ≥ 0.50 were considered significant (Creswell, 2008).

### *Transfer Variables Correlation to Retention*

Among transfer variables included in the analysis, cumulative GPA had the greatest correlation to student retention (See Table 17). The strongest positive correlation was between transfer students' **cumulative GPA** and **first-year retention** (r = 0.58364), which is statistically significant.

While not statistically significant, there were some notable positive correlations among the following variables and retention:

- Cumulative GPA and second-year (r =0.39966), third-year (r = 0.33645), fourth-year (r = 0.28942), and fifth-year (r = 0.22805), and sixth-year retention (r = 0.14282)
- College Type [Transfer] and fourth-year (r = 0.14749), fifth-year (r = 0.18808), and sixth-year retention (r = 0.18768).
- Financial Aid and second-year (r = 0.14064) and third-year (r = 0.13739)

Some notable, but not statistically significant, negative correlations among transfer variables and retention include:

- First-Generation and third-year (r = -0.20238), fourth-year (r = -0.23382), fifth-year (r = -0.30892), and sixth-year retention (r = -0.47246).
- Degree Program Length and first-year retention (r = -0.21365)
- Transfer GPA and third-year retention (r = -0.20877)

### *Transfer Variables Correlation to Graduation and Time-to-Graduation*

Among transfer variables included in the graduation and time-to-graduation analysis, there were no correlations that were statistically significant (See Table 18). As with the descriptive analysis in this study one, two, and three-year graduation rates were also included for informational purposes.

Similar to the retention correlation, while not statistically significant, there were some notable positive and negative correlations among the following variables and graduation or time-to-graduation:

- Transfer Credits and graduating in two years or less (r = -0.26483), three years or less (r = -0.24113), and four years or less (r = -0.19817)
- Internship Semesters (*N*) and graduating in three years or less (r = -0.15302) and four years or less (r = -0.15919)
- Cumulative GPA and graduating in two years or less (r = 0.338830, three years or less (r = 0.29292), and four years or less (r = 0.27393)
- First Generation and graduating in three years or less (r = -0.20161) and four years or less (r = -0.23537)

Other notable associations among the transfer variables themselves include: Transfer GPA and Cumulative GPA (r = 0.28416), Financial Aid and Transfer College (r = -0.308220), Financial Aid and Transfer GPA (r = 0.14825), Transfer Credits and Cumulative GPA (r = -0.21330), and College of Study and the Number of Major Changes (r = 0.11019).

| Retention Factors | Transfer College | College Type | Transfer Credit Hrs. | Transfer GPA | Major @ Georgia Tech | Cumulative GPA | ACT Composite Score | SAT Composite Score | State of Residence | First Generation | Financial Aid | Degree Program Length | Retained 1st Yr. | Retained 2nd Yr. | Retained 3rd Yr. | Retained 4th Yr. | Retained 5th Yr. | Retained 6th Yr. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Transfer College | 1.00000 | | | | | | | | | | | | | | | | | |
| College Type | 0.18727 | 1.00000 | | | | | | | | | | | | | | | | |
| Transfer Credit Hrs. | -0.06772 | -0.04768 | 1.00000 | | | | | | | | | | | | | | | |
| Transfer GPA | 0.04656 | -0.02072 | -0.21330 | 1.00000 | | | | | | | | | | | | | | |
| Major (Georgia Tech) | -0.03105 | 0.01911 | -0.00927 | -0.00548 | 1.00000 | | | | | | | | | | | | | |
| **Cumulative GPA*** | -0.09618 | 0.04917 | -0.17413 | 0.28416 | 0.00804 | 1.00000 | | | | | | | | | | | | |
| ACT Composite Score | -0.11756 | -0.10280 | 0.08220 | 0.04609 | 0.00853 | 0.03421 | 1.00000 | | | | | | | | | | | |
| SAT Composite Score | -0.12688 | -0.13078 | 0.09780 | 0.02510 | 0.00253 | 0.04658 | 0.29282 | 1.00000 | | | | | | | | | | |
| State of Residence | -0.42576 | -0.21799 | -0.01385 | 0.06241 | 0.00923 | 0.10920 | 0.18617 | 0.18259 | 1.00000 | | | | | | | | | |
| First-Generation | -0.04369 | -0.04601 | -0.00198 | -0.03653 | 0.02231 | -0.08750 | -0.01588 | -0.03270 | 0.04157 | 1.00000 | | | | | | | | |
| Financial Aid | -0.30822 | -0.13178 | -0.00011 | 0.14825 | 0.00546 | 0.17134 | 0.13398 | 0.13897 | 0.44165 | -0.01135 | 1.00000 | | | | | | | |
| Degree Program Length | 0.05500 | 0.07917 | -0.06140 | 0.01637 | -0.00230 | -0.15013 | -0.02384 | -0.02465 | -0.09732 | -0.07840 | -0.07713 | 1.00000 | | | | | | |
| **Retained 1st Yr.** | -0.05542 | 0.01618 | -0.11005 | 0.04099 | -0.00720 | 0.58364 | 0.05956 | 0.06003 | 0.07930 | -0.09467 | 0.10325 | -0.21365 | 1.00000 | | | | | |
| **Retained 2nd Yr.** | -0.07804 | 0.03941 | -0.16849 | 0.09062 | -0.01224 | 0.39966 | 0.09658 | 0.08324 | 0.10793 | -0.14689 | 0.14064 | -0.09129 | 0.57566 | 1.00000 | | | | |
| **Retained 3rd Yr.** | -0.05529 | 0.09072 | -0.20877 | 0.11139 | -0.01795 | 0.33645 | 0.07899 | 0.10475 | 0.08190 | -0.20238 | 0.13739 | -0.03468 | 0.42406 | 0.72428 | 1.00000 | | | |
| **Retained 4th Yr.** | -0.01988 | 0.14749 | -0.19809 | 0.11492 | -0.02463 | 0.28942 | 0.03127 | 0.08856 | 0.01945 | -0.23382 | 0.10161 | 0.00727 | 0.33093 | 0.56736 | 0.77056 | 1.00000 | | |
| **Retained 5th Yr.** | -0.01702 | 0.18808 | -0.18936 | 0.11763 | -0.04288 | 0.22805 | -0.00129 | 0.05723 | 0.00784 | -0.30892 | 0.08910 | 0.07046 | 0.23382 | 0.40179 | 0.54896 | 0.70305 | 1.00000 | |
| **Retained 6th Yr.** | 0.00133 | 0.18768 | -0.10637 | 0.06944 | -0.02591 | 0.14282 | -0.01405 | 0.02572 | -0.02626 | -0.47246 | 0.03786 | 0.16785 | 0.15287 | 0.26068 | 0.35191 | 0.45044 | 0.63806 | 1.00000 |

Table 17. Transfer Variables Correlation to Retention

| Factors of Time-to-Graduation | Transfer College | College Type | Transfer Credit Hrs. | Transfer GPA | College of Study | Major (Georgia Tech) | Coop Sem (N) | Intern Sem. (N) | Cumulative GPA | First-Generation | Military Status | Disability | Major Changes (N) | Financial Aid | Degree Prgm Length | Yrs. to Grad. (N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Transfer College | 1.00000 | | | | | | | | | | | | | | | |
| College Type | 0.18727 | 1.00000 | | | | | | | | | | | | | | |
| Transfer Credit Hrs. | -0.06772 | -0.04768 | 1.00000 | | | | | | | | | | | | | |
| Transfer GPA | 0.04656 | -0.02072 | -0.21330 | 1.00000 | | | | | | | | | | | | |
| College of Study | 0.03519 | 0.06030 | -0.03283 | -0.10257 | 1.00000 | | | | | | | | | | | |
| Major (Georgia Tech) | -0.03105 | 0.01911 | -0.00927 | -0.00548 | 0.03662 | 1.00000 | | | | | | | | | | |
| Coop Sem (N) | 0.03819 | 0.00522 | 0.01597 | 0.01396 | -0.02099 | 0.05538 | 1.00000 | | | | | | | | | |
| Intern Sem. (N) | -0.03573 | -0.01814 | 0.04217 | 0.04292 | -0.00770 | 0.02412 | 0.02330 | 1.00000 | | | | | | | | |
| Cumulative GPA | -0.09618 | 0.04917 | -0.17413 | 0.28416 | 0.00291 | 0.00804 | -0.03594 | -0.01879 | 1.00000 | | | | | | | |
| First-Generation | -0.04369 | -0.04601 | -0.00198 | -0.03653 | 0.01931 | 0.02231 | 0.03068 | 0.02453 | -0.08750 | 1.00000 | | | | | | |
| Military Status | -0.02289 | -0.02110 | -0.03895 | 0.01686 | -0.00493 | -0.00917 | -0.01653 | 0.01189 | 0.04696 | -0.02710 | 1.00000 | | | | | |
| Disability | -0.01707 | 0.00518 | -0.02661 | 0.05378 | -0.01750 | -0.03819 | -0.00220 | -0.01190 | 0.07532 | -0.01022 | 0.02796 | 1.00000 | | | | |
| Major Changes (N) | 0.06875 | 0.01820 | -0.07250 | -0.05292 | 0.11019 | 0.00165 | -0.01612 | 0.03769 | -0.11521 | 0.02007 | -0.00319 | -0.04948 | 1.00000 | | | |
| Financial Aid | -0.30822 | -0.13178 | -0.00011 | 0.14825 | -0.09778 | 0.00546 | -0.01920 | 0.05484 | 0.17134 | -0.01135 | 0.02654 | 0.04731 | -0.06064 | 1.00000 | | |
| Degree Program Length | 0.05500 | 0.07917 | -0.06140 | 0.01637 | 0.02513 | -0.00230 | 0.01307 | 0.03065 | -0.15013 | -0.07840 | -0.01568 | -0.02093 | 0.04218 | -0.07713 | 1.00000 | |
| **Years to Grad. (N)** | -0.01139 | -0.02214 | 0.08164 | -0.01646 | 0.07034 | -0.00154 | -0.03889 | -0.02041 | 0.03000 | -0.03007 | 0.01729 | 0.01555 | -0.03031 | 0.03172 | 0.00369 | 1.00000 |

| Graduation Factors | Transfer College | College Type | Transfer Credit Hrs. | Transfer GPA | College of Study | Major (Georgia Tech) | Coop Sem (N) | Intern Sem. (N) | Cumulative GPA | First-Generation | Military Status | Disability | Major Changes (N) | Financial Aid | Degree Prgm Length | 1 Yr. or Less | 2 Yrs. or Less | 3 Yrs. or Less | 4 Yrs. or Less |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Transfer College | 1.00000 | | | | | | | | | | | | | | | | | | |
| College Type | 0.18727 | 1.00000 | | | | | | | | | | | | | | | | | |
| Transfer Credit Hrs. | -0.06772 | -0.04768 | 1.00000 | | | | | | | | | | | | | | | | |
| Transfer GPA | 0.04656 | -0.02072 | -0.21330 | 1.00000 | | | | | | | | | | | | | | | |
| College of Study | 0.03519 | 0.06030 | -0.03283 | -0.10257 | 1.00000 | | | | | | | | | | | | | | |
| Major (Georgia Tech) | -0.03105 | 0.01911 | -0.00927 | -0.00548 | 0.03662 | 1.00000 | | | | | | | | | | | | | |
| Coop Sem (N) | 0.03819 | 0.00522 | 0.01597 | 0.01396 | -0.02099 | 0.05538 | 1.00000 | | | | | | | | | | | | |
| Intern Sem. (N) | -0.03573 | -0.01814 | 0.04217 | 0.04292 | -0.00770 | 0.02412 | 0.02330 | 1.00000 | | | | | | | | | | | |
| **Cumulative GPA*** | -0.09618 | 0.04917 | -0.17413 | 0.28416 | 0.00291 | 0.00804 | -0.03594 | -0.01879 | 1.00000 | | | | | | | | | | |
| First-Generation | -0.04369 | -0.04601 | -0.00198 | -0.03653 | 0.01931 | 0.02231 | 0.03068 | 0.02453 | -0.08750 | 1.00000 | | | | | | | | | |
| Military Status | -0.02289 | -0.02110 | -0.03895 | 0.01686 | -0.00493 | -0.00917 | -0.01653 | 0.01189 | 0.04696 | -0.02710 | 1.00000 | | | | | | | | |
| Disability | -0.01707 | 0.00518 | -0.02661 | 0.05378 | -0.01750 | -0.03819 | -0.00220 | -0.01190 | 0.07532 | -0.01022 | 0.02796 | 1.00000 | | | | | | | |
| Major Changes (N) | 0.06875 | 0.01820 | -0.07250 | -0.05292 | 0.11019 | 0.00165 | -0.01612 | 0.03769 | -0.11521 | 0.02007 | -0.00319 | -0.04948 | 1.00000 | | | | | | |
| Financial Aid | -0.30822 | -0.13178 | -0.00011 | 0.14825 | -0.09778 | 0.00546 | -0.01920 | 0.05484 | 0.17134 | -0.01135 | 0.02654 | 0.04731 | -0.06064 | 1.00000 | | | | | |
| Degree Prgm Length | 0.05500 | 0.07917 | -0.06140 | 0.01637 | 0.02513 | -0.00230 | 0.01307 | 0.03065 | -0.15013 | -0.07840 | -0.01568 | -0.02093 | 0.04218 | -0.07713 | 1.00000 | | | | |
| **1 Yr. or Less** | -0.04971 | 0.04032 | -0.16200 | 0.05212 | -0.04937 | -0.01088 | -0.06895 | -0.11354 | 0.59863 | -0.08726 | 0.00444 | 0.05441 | -0.15035 | 0.07494 | -0.20819 | 1.00000 | | | |
| **2 Yrs. or Less** | -0.04122 | 0.06326 | -0.26483 | 0.09663 | -0.01507 | -0.01508 | -0.05969 | -0.12747 | 0.33883 | -0.14913 | 0.01435 | 0.01745 | -0.06616 | 0.09579 | -0.05988 | 0.53489 | 1.00000 | | |
| **3 Yrs. or Less** | -0.04092 | 0.09567 | -0.24113 | 0.09560 | -0.00515 | -0.01555 | -0.10684 | -0.15302 | 0.29292 | -0.20161 | 0.01678 | -0.00191 | -0.06899 | 0.11977 | -0.02485 | 0.40066 | 0.74861 | 1.00000 | |
| **4 Yrs. or Less** | -0.01799 | 0.14541 | -0.19817 | 0.10502 | 0.00086 | -0.02225 | -0.13200 | -0.15919 | 0.27393 | -0.23537 | 0.02938 | 0.00342 | -0.07784 | 0.10166 | 0.01152 | 0.32303 | 0.57138 | 0.79269 | 1.00000 |

Table 18. Transfer Variables Correlation to Graduation and Time-to-Graduation

## Transfer Variables and Their Association to and Impact on Graduation, Retention, and Excess Credit Hours

To further test the relationship and/or dependency of certain transfer variables, a linear regression (Ordinary Least Squares or OLS) was used to measure the impact these variables have on transfer students' retention and graduation. The coefficients shown resulted from the number of observations (N=6,733) in the data when comparing variables or factors that impact (a.) transfer student retention, (b.) graduation rates, and (c.) time-to-graduation.

Variables with positive coefficients indicate a positive correlation to graduation and retention while variables with negative coefficients indicate a negative correlation to these variables. Transfer variables, such as transfer credit, transfer GPA, major, etc., with *P-Values* less than 0.05 (≤ 0.05) are *statistically significant* whereas those with *P-Values* greater than 0.05 (> 0.05) are not statistically significant (see Tables 19 and 20); therefore, there is no true or significant change in graduation or retention based on the transfer variables observed (Warner, 2008). The coefficients shown in Figures *H* and *I* show the relationship among these variables. It is also important to note that transfer variables deemed as *statistically significant* may not necessarily imply that the relationship (positive or negative) to graduation and retention can be used solely for predicting graduation and retention (Montgomery, Douglas C., et al., 2012).

### *Impact of Transfer Variables on Retention*

| Transfer Variable | 1st-Yr Retention P-Value | 2nd-Yr Retention P-Value | 3rd-Yr Retention P-value | 4th-Yr Retention P-value |
|---|---|---|---|---|
| Transfer College * | 4.8733E-09 | 7.30074E-19 | 8.54419E-17 | 3.65459E-10 |
| College Type * | 0.094974315 | 0.000115486 | 5.27689E-15 | 1.08039E-34 |
| Transfer Credit Hrs. * | 4.80018E-19 | 2.84091E-40 | 7.64166E-61 | 8.61946E-53 |
| Transfer GPA | 0.152700406 | 2.95524E-06 | 7.76817E-09 | 2.55679E-10 |
| Major (Georgia Tech) * | 0.474928373 | 0.2239468 | 0.087275401 | 0.023913242 |
| First-Generation * | 1.71964E-15 | 2.93476E-35 | 2.15429E-65 | 3.31855E-85 |

** Indicates statistical significance*

Table 19. Linear Regression Results: Transfer Variables Impact on Retention

Transfer variables that were statistically significant in impacting transfer students' retention at Georgia Tech were:

- **Transfer College** - Students' transfer college does negatively impact retention with the greatest impact on second (r = -0.056215) and third-year (r = -0.054327) retention.
- **College Type** - Although small, there is a positive association between transfer college type and retention, with the greatest impact on third-year retention (r = 0.00015).
- **Transfer Credit Hours** - There is a negative association between the number of transfer credits students' have and retention, with the greatest impact on third-year retention (r = -0.145302).
- **Transfer GPA** - Students' transfer GPA positivity impacts retention with the greatest impact on third (r = 0.085123) and fourth-year (r = 0.091246) retention.

(Impact of Transfer Variables on Retention continued)

- **First-Generation** - While statistically significant, there is a low association between first-generation transfer students and retention, with the greatest impact on fourth-year retention (r = -0.002386).
- **Major (Georgia Tech**) - Transfer students' major at Georgia Tech negatively impacts retention with the greatest impact on fourth-year (r = -0.448709) retention.

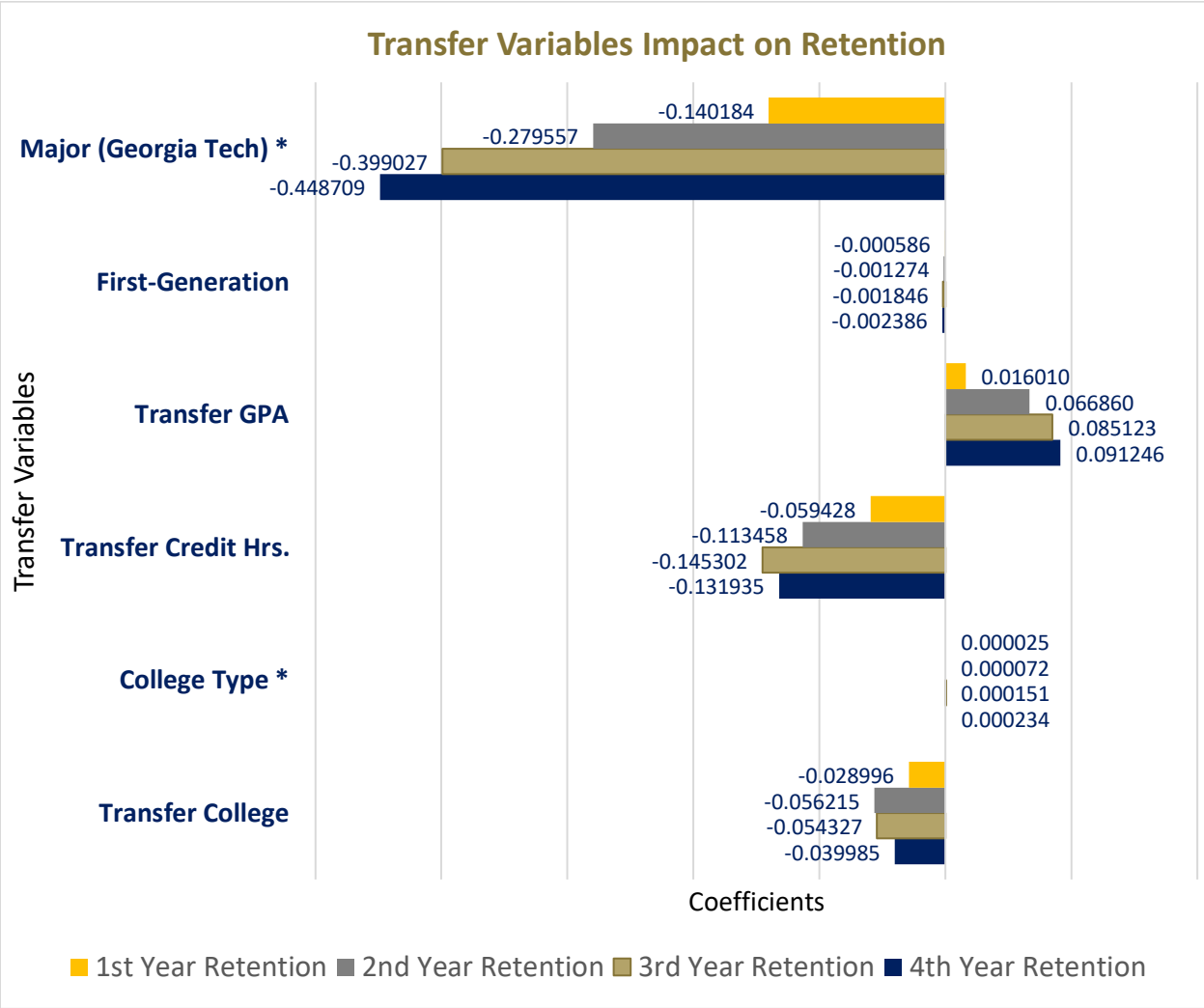



Figure H. Linear Regression Results Graph: Transfer Variables Impact on Retention

## *Impact of Transfer Variables on Graduation and Time-to-Graduation*

| Transfer Variable | Overall Time-to-Graduation P-Value | Graduate 2-Yrs or Less P-Value | Graduate 3-Yrs or Less P-Value | Graduate 4-Yrs or Less P-Value |
|---|---|---|---|---|
| **Transfer College *** | 0.508956032 | **4.88859E-05** | **0.000102647** | **0.004118748** |
| **College Type *** | 0.156394313 | **1.82038E-09** | **4.10402E-19** | **2.55851E-38** |
| **Transfer Credit Hrs. *** | **6.90439E-11** | **1.8692E-107** | **1.87224E-88** | **1.06989E-54** |
| **Transfer GPA*** | 0.616984618 | **0.009943892** | **0.005999296** | **5.02557E-06** |
| Major (Georgia Tech) | 0.759493401 | 0.275200978 | 0.382811958 | 0.220196266 |
| **Coop Semesters (N)*** | **0.00145237** | **7.4116E-05** | **5.86804E-16** | **1.09038E-25** |
| **Intern Semesters (N)*** | **0.05441918** | **8.55288E-23** | **4.8242E-35** | **7.17861E-39** |
| **First-Generation*** | **0.03052388** | **1.98086E-37** | **2.17219E-64** | **6.61681E-83** |
| Military | 0.133520673 | 0.792604941 | 0.992629342 | 0.178192334 |
| **Disability*** | 0.218867424 | 0.696873954 | **0.026314586** | 0.080830573 |
| **Major Changes (N) *** | 0.072535507 | **5.04785E-09** | **2.03153E-09** | **3.06923E-11** |
| **Financial Aid*** | **0.015036961** | **9.41612E-11** | **2.0454E-20** | **2.58674E-17** |
| **Degree Prgm Length*** | 0.293729918 | **1.14496E-11** | **0.000100511** | 0.342577303 |
| ** Indicates statistical significance* | | | | |

Table 20. Linear Regression Results: Transfer Variables Impact on Graduation and Time-to-Graduation

Transfer variables that were statistically significant in impacting transfer students' graduation and time-to-graduation were:

- **Transfer College –** While the impact is low, students' transfer College does negatively impact graduation, especially their ability to graduate ≤ 3 years (r = -0.024107). However, it can positively impact their overall time-to-graduation.
- **College Type –** Although the impact is low, the type of college from which students transfer does positively impact their ability to graduate.
- **Transfer Credit Hours -** There is a negative association between the number of transfer credits students' have and graduation, with the greatest impact on students' ability to graduate in two years or less (r = -0.141355), or three years or less (r = -0.161464).
- **Transfer GPA -** Students' transfer GPA positivity impacts graduation with the greatest impact on transfer students' ability to graduate within four years (r = 0.064007).
- **Coop Semesters (N) –** The number of semesters in which transfer students coop negatively impacts their ability to graduate within four years (r = -0.225109) or and even three years (r = -0.168325) or less, as well as their overall time to graduation (r = -2.149988). It is important to note the multicollinearity (*r-value* > 1.0) of the overall time-to-graduation, as there are multiple variables within the line of association, thus the *r-value* is increased.
- **Intern Semesters (N) -** The number of semesters in which transfer students intern negatively impacts their ability to graduate within four years (r = -0.292335) or and even three years (r = -0.268339) or less, as well as their overall time to graduation (r = -1.351856). As with coop semesters, there are multiple variables within the line of association to overall time-to-graduation, thus the *r-value* increases and is > 1.0.
- **First-Generation –** There is a negative association between being a first-generation transfer student and the ability to graduate four years or less (r = -0.424272), three years or less (r = -0.360269), and overall time-to-graduation (r = -1.480552). Again, as with the number of semesters transfer students' coop or intern, there are multiple variables within the line of association (multicollinearity) to overall time-to-graduation, thus the *r-value* increases and is > 1.0.

- **Disability -** There is a negative association between having a disability and graduating in three years or less (r = -0.100230).
- **Major Changes (N)** – The number of times transfer students' change their major negatively impacts students' ability to  four year or less (r = -0.168601), three years or less (r = -0.168601), and overall time-to-graduation.
- **Financial Aid** – While the impact is low, transfer students' financial aid does positively impact their ability to graduate in four years or less (r = 0.033348), three years or less (r = 0.035403), and their overall time-to-graduation (r = 0.301489).
- **Degree Program Length -** The length of transfer students' degree program positively impacts their ability to graduate in three years or less (r = 0.301489), four years or less (r = 0.301489), and their overall time-to-graduation (r = 0.292614).

(Continued on next page)

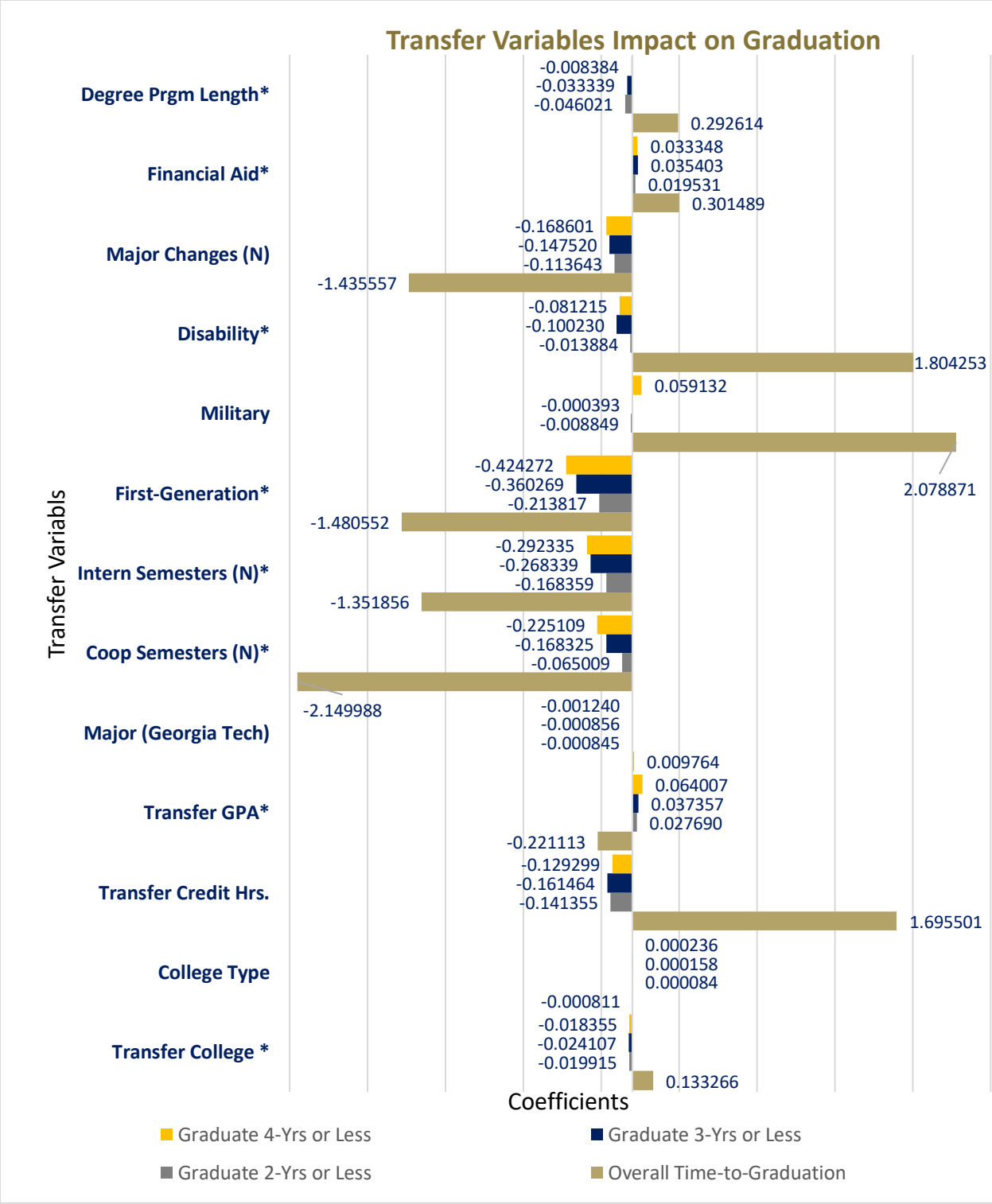



Figure I. Linear Regression Results Graph: Transfer Variables Impact on Graduation and Time-to-Graduation

*Impact of Transfer Variables on Excess Credit Hours*

| Transfer Variable | P-value | *Coefficients* |
|---|---|---|
| College of Study | 0.844120647 | -0.006342 |
| Major | 0.069333266 | -0.007217 |
| Transfer College | 0.081956683 | -0.043910 |
| **College Type *** | **1.35872E-16** | 0.000595 |
| **Transfer Credit Hrs *** | **9.12346E-29** | -0.367320 |
| **Transfer GPA*** | **0.002379414** | 0.173736 |
| **Coop Sem (N) *** | **4.38898E-11** | -0.561110 |
| **Intern Sem. (N)*** | **0.029088935** | -0.194907 |
| **GT Credits Earned *** | **3.6359E-230** | -0.777457 |
| **Cumulative GPA *** | **3.20245E-12** | 0.190917 |
| **First-Generation *** | **1.1544E-28** | -0.967744 |
| Major Changes (N) | 0.087875957 | 0.174194 |
| **Financial Aid *** | **1.69964E-05** | 0.067190 |
| **Degree Prgm Length*** | **0.012203982** | 0.088619 |
| **Time-to-Graduation *** | **0.01030052** | 0.003914 |

** indicates statistical significance*

Figure J. Linear Regression Results Graph: Transfer Variables Impact on Excess Credit Hours

Contrary to the previous regression models presented in this study, it is important to note that negative associations in this particular model do **not** infer **problematic causality**. This particular model **identifies variables that contribute to transfer students' having excess credit hours** upon graduating. Therefore, positive associations can be viewed as contributing factors to excess credit hours.

Ranked in from highest impact to lowest impact, the transfer variables that were **statistically significant in contributing (positive association) to transfer students having excess credit hours** were:

- **Cumulative GPA** (r = 0.190917)
- **Transfer GPA** (r = 0.173736)
- **Degree Program Length** (r = 0.088619)
- **Financial Aid** (r = 0.067190 )
- **Time-to-Graduation** (r = 0.003914)
- **College Type** (r = 0.000595)

Variables that were statistically significant in mitigating (negative association) transfer **students having excess credit hours** were:

- **First-Generation [Being]** (r = -0.967744)
- **GT Credits Earned** (r = -0.777457)
- **Coop Semesters (N)** (r = -0.561110)
- **Transfer Credit Hours** (r = -0.367320)
- **Intern Semesters (N)** (r = -0.194907)

## Probability of Transfer Students Being Retained Through Graduation

A Logistic Regression (LR) was used to examine the association between transfer student variables and graduation and retention as continuous outcomes (Teo, 2013). Specifically, categorical transfer variables were measured against graduation and retention to predict the probability of being retained through graduation. The logistic regression models shown illustrate the likelihood of transfer students being retained and graduating within a given population and/or category by percentages (See Tables 21, 22, 23, and 24).

Tables 21, 22, 23, and 24 provide the detailed results of the logistic regression analysis. These models show the likelihood of students being retained through graduation and are broken down by transfer student characteristics, population, and category. Please review the aforementioned tables for a complete breakdown by attribute. As indicated throughout this study, since this study focused on transfer students, the logistic regression also includes the probability of graduating in one, two, and three years.

(Continued on next page)

*Likelihood of Transfer Students within A Given Population, Classification, or Category*

| Sex | Retain 1 Year | Retain 2 Year | 1 Yr or Less | 2 Yrs or Less | 3 Yrs or Less | 4 Yrs or Less |
|---|---|---|---|---|---|---|
| Female | 95.24% | 92.35% | 2.21% | 26.74% | 68.61% | 87.01% |
| Male | 94.45% | 90.01% | 1.99% | 29.21% | 68.18% | 83.91% |
| Unknown | 95.24% | 92.35% | 2.21% | 26.74% | 68.61% | 87.01% |
| **Race Ethnicity** | **Retain 1 Year** | **Retain 2 Year** | **1 Yr or Less** | **2 Yrs or Less** | **3 Yrs or Less** | **4 Yrs or Less** |
| White | 94.94% | 91.09% | 2.25% | 29.72% | 68.79% | 86.76% |
| Asian | 96.77% | 93.35% | 1.96% | 25.55% | 68.58% | 84.81% |
| Hispanic | 95.27% | 92.19% | 0.41% | 25.19% | 66.77% | 85.96% |
| Black | 91.89% | 87.40% | 0.88% | 24.40% | 62.33% | 78.46% |
| Two or More | 94.85% | 91.26% | 1.29% | 26.23% | 63.76% | 81.08% |
| NR Alien | 91.37% | 85.62% | 3.58% | 35.36% | 72.61% | 83.08% |
| Pacific Isle | 100.00% | 100.00% | 0.00% | 50.00% | 50.00% | 100.00% |
| American Indian | 100.00% | 66.67% | 0.00% | 33.33% | 33.33% | 0.00% |
| Unknown | 95.45% | 87.50% | 0.00% | 18.75% | 77.78% | 60.00% |
| **ACT Composite Score** | **Retain 1 Year** | **Retain 2 Year** | **1 Yr or Less** | **2 Yrs or Less** | **3 Yrs or Less** | **4 Yrs or Less** |
| ≤ 16 | 85.71% | 83.33% | 0.00% | 16.67% | 66.67% | 100.00% |
| 17 - 19 | 100.00% | 89.47% | 0.00% | 31.58% | 70.97% | 84.62% |
| 20 - 23 | 93.49% | 93.16% | 1.40% | 31.58% | 70.55% | 89.68% |
| 24 - 27 | 96.86% | 94.26% | 1.74% | 28.48% | 69.90% | 86.32% |
| 28 - 32 | 97.30% | 92.76% | 1.42% | 24.25% | 65.53% | 88.01% |
| 33 - 36 | 98.23% | 97.45% | 1.77% | 19.75% | 68.13% | 89.29% |
| No ACT | 93.68% | 89.22% | 2.30% | 29.62% | 68.38% | 83.49% |
| **SAT Composite Score** | **Retain 1 Year** | **Retain 2 Year** | **1 Yr or Less** | **2 Yrs or Less** | **3 Yrs or Less** | **4 Yrs or Less** |
| < 600 | 100.00% | 50.00% | 0.00% | 0.00% | 50.00% | 50.00% |
| 600 - 699 | 100.00% | 50.00% | 0.00% | 0.00% | 50.00% | 50.00% |
| 700 - 799 | 100.00% | 50.00% | 0.00% | 0.00% | 0.00% | 100.00% |
| 800 - 899 | 100.00% | 100.00% | 8.70% | 59.09% | 90.48% | 100.00% |
| 900 - 999 | 96.23% | 94.23% | 0.00% | 30.77% | 77.08% | 88.37% |
| 1000 - 1099 | 97.21% | 93.98% | 1.12% | 34.34% | 72.73% | 87.59% |
| 1100 - 1199 | 95.82% | 92.33% | 0.78% | 29.55% | 66.99% | 86.18% |
| 1200 - 1299 | 95.59% | 92.32% | 1.56% | 25.60% | 68.40% | 87.63% |
| 1300 - 1399 | 97.42% | 92.15% | 1.13% | 25.11% | 62.20% | 86.36% |
| 1400 - 1499 | 96.92% | 91.70% | 1.98% | 16.61% | 67.30% | 90.22% |
| 1500 - 1600 | 94.69% | 94.03% | 1.77% | 17.91% | 73.08% | 88.24% |
| No SAT | 93.31% | 89.34% | 2.55% | 30.55% | 68.77% | 82.83% |

Table 21a. Probability of students being retained through graduation based on a Given Population, Classification, or Category

| First-Generation | Retain 1 Year | Retain 2 Year | 1 Yr or Less | 2 Yrs or Less | 3 Yrs or Less | 4 Yrs or Less |
|---|---|---|---|---|---|---|
| Yes | 93.86% | 90.43% | 2.22% | 25.30% | 69.46% | 83.49% |
| No | 94.90% | 90.81% | 2.11% | 28.27% | 66.98% | 84.51% |
| Unknown | 94.23% | 90.27% | 1.48% | 32.52% | 72.78% | 86.16% |
| **Military Status** | **Retain 1 Year** | **Retain 2 Year** | **1 Yr or Less** | **2 Yrs or Less** | **3 Yrs or Less** | **4 Yrs or Less** |
| 1 (Yes) | 93.54% | 88.51% | 1.12% | 26.01% | 60.57% | 77.61% |
| 0 (No) | 94.76% | 90.83% | 2.12% | 28.67% | 68.85% | 85.30% |
| Unknown | 93.54% | 88.51% | 1.12% | 26.01% | 60.57% | 77.61% |
| **Disability** | **Retain 1 Year** | **Retain 2 Year** | **1 Yr or Less** | **2 Yrs or Less** | **3 Yrs or Less** | **4 Yrs or Less** |
| 1 (Yes) | 94.22% | 90.11% | 0.87% | 18.73% | 49.32% | 74.69% |
| 0 (No) | 94.71% | 90.72% | 2.13% | 29.14% | 69.51% | 85.37% |
| Unknown | 94.22% | 90.11% | 0.87% | 18.73% | 49.32% | 74.69% |
| **Financial Aid** | **Retain 1 Year** | **Retain 2 Year** | **1 Yr or Less** | **2 Yrs or Less** | **3 Yrs or Less** | **4 Yrs or Less** |
| HOPE Only | 95.95% | 92.08% | 1.74% | 27.05% | 68.01% | 86.00% |
| HOPE and ZELL | 98.84% | 93.83% | 0.00% | 11.11% | 46.97% | 83.02% |
| PELL Only | 91.13% | 88.40% | 3.07% | 31.20% | 67.91% | 81.97% |
| PELL and HOPE | 96.96% | 92.27% | 1.87% | 28.40% | 66.88% | 86.11% |
| PELL and ZELL | 97.13% | 96.00% | 0.64% | 27.56% | 74.69% | 87.85% |
| PELL, HOPE, and ZELL | 96.43% | 92.31% | 0.00% | 19.23% | 60.00% | 76.92% |
| ZELL Only | 96.76% | 94.17% | 1.46% | 27.11% | 73.76% | 93.48% |
| Other or Unknown | 90.60% | 85.02% | 3.13% | 32.23% | 67.41% | 79.18% |

Table 21b. Probability of students being retained through graduation based on a Given Population, Classification, or Category

| Transfer GPA | Retain 1 Year | Retain 2 Year | 1 Yr or Less | 2 Yrs or Less | 3 Yrs or Less | 4 Yrs or Less |
|---|---|---|---|---|---|---|
| < 2.00 | 92.59% | 76.19% | 3.70% | 23.81% | 50.00% | 100.00% |
| 2.00 - 2.49 | 100.00% | 100.00% | 0.00% | 20.00% | 50.00% | 100.00% |
| 2.50 - 2.99 | 92.59% | 76.19% | 3.70% | 23.81% | 60.00% | 75.00% |
| 3.00 - 3.49 | 94.53% | 89.10% | 3.12% | 32.83% | 65.99% | 79.96% |
| 3.50 - 3.79 | 94.17% | 89.75% | 1.78% | 27.52% | 65.74% | 82.84% |
| 3.80 - 4.00 | 95.12% | 92.05% | 1.93% | 27.20% | 71.11% | 88.56% |
| > 4.00 | 92.59% | 76.19% | 3.70% | 23.81% | 50.00% | 100.00% |
| Unknown | 95.45% | 97.73% | 0.00% | 52.27% | 90.70% | 97.56% |
| **Transfer Credits** | **Retain 1 Year** | **Retain 2 Year** | **1 Yr or Less** | **2 Yrs or Less** | **3 Yrs or Less** | **4 Yrs or Less** |
| ≤ 5 | 95.92% | 97.96% | 0.00% | 48.98% | 87.50% | 97.83% |
| 6 - 11 | 83.33% | 75.00% | 0.00% | 75.00% | 75.00% | 75.00% |
| 12 - 17 | 100.00% | 100.00% | 0.00% | 0.00% | 66.67% | 100.00% |
| 18 - 23 | 98.31% | 96.43% | 0.00% | 0.00% | 33.33% | 81.82% |
| 24 - 30 | 97.01% | 94.17% | 0.00% | 4.29% | 44.08% | 84.62% |
| 31 - 47 | 96.22% | 92.48% | 0.22% | 9.90% | 54.23% | 80.72% |
| 48 - 59 | 94.49% | 90.88% | 1.19% | 26.38% | 67.79% | 84.97% |
| 60 - 89 | 93.81% | 89.68% | 3.54% | 40.55% | 76.18% | 85.80% |
| 90 - 119 | 91.30% | 85.82% | 5.90% | 45.39% | 75.42% | 84.08% |
| ≥ 120 | 80.00% | 72.22% | 15.00% | 38.89% | 66.67% | 77.78% |
| **GT Cumulative GPA** | **Retain 1 Year** | **Retain 2 Year** | **1 Yr or Less** | **2 Yrs or Less** | **3 Yrs or Less** | **4 Yrs or Less** |
| < 2.00 | 55.40% | 27.78% | 0.00% | 0.00% | 0.00% | 0.00% |
| 2.00 - 2.49 | 91.69% | 85.23% | 0.00% | 12.50% | 34.23% | 62.40% |
| 2.50 - 2.99 | 95.67% | 92.75% | 2.06% | 25.80% | 64.99% | 85.59% |
| 3.00 - 3.49 | 96.39% | 93.43% | 1.73% | 30.91% | 74.47% | 92.05% |
| 3.50 - 3.79 | 97.63% | 95.27% | 2.53% | 34.34% | 79.60% | 94.96% |
| 3.80 - 4.00 | 96.34% | 94.64% | 3.36% | 33.48% | 83.52% | 94.51% |
| > 4.00 | 55.40% | 85.23% | 0.00% | 0.00% | 0.00% | 0.00% |
| Unknown | 100.00% | 85.23% | 0.00% | 0.00% | 0.00% | 0.00% |

Table 21c. Probability of students being retained through graduation based on a Given Population, Classification, or Category

| GT Hrs Earned Range | Retain 1 Year | Retain 2 Year | 1 Yr or Less | 2 Yrs or Less | 3 Yrs or Less | 4 Yrs or Less |
|---|---|---|---|---|---|---|
| ≤12 | 42.61% | 4.85% | 0.00% | 0.00% | 0.00% | 0.00% |
| 12 - 23 | 80.72% | 20.80% | 0.00% | 0.00% | 0.00% | 0.00% |
| 24 - 35 | 94.84% | 61.69% | 0.00% | 0.65% | 1.37% | 2.13% |
| 36 - 47 | 96.78% | 86.89% | 2.36% | 8.85% | 26.00% | 34.92% |
| 48 - 59 | 98.08% | 94.31% | 6.20% | 34.43% | 74.12% | 84.21% |
| 60 - 89 | 98.40% | 96.72% | 2.46% | 37.83% | 80.03% | 94.93% |
| 90 - 119 | 99.62% | 99.05% | 0.00% | 6.81% | 53.51% | 86.80% |
| 120 - 129 | 100.00% | 93.75% | 0.00% | 0.00% | 18.75% | 75.00% |
| 130 - 139 | 100.00% | 100.00% | 0.00% | 0.00% | 50.00% | 100.00% |
| 140 - 149 | 100.00% | 100.00% | 0.00% | 0.00% | 25.00% | 75.00% |
| 150 - 159 | 100.00% | 100.00% | 0.00% | 0.00% | 25.00% | 75.00% |
| 160 - 169 | 100.00% | 100.00% | 0.00% | 0.00% | 25.00% | 75.00% |
| 170 - 179 | 100.00% | 100.00% | 0.00% | 0.00% | 25.00% | 75.00% |
| 180 - 189 | 100.00% | 100.00% | 0.00% | 0.00% | 25.00% | 75.00% |
| 190 - 200 | 100.00% | 100.00% | 0.00% | 0.00% | 25.00% | 75.00% |
| > 200 | 100.00% | 100.00% | 0.00% | 0.00% | 25.00% | 75.00% |
| **Coop Sem. (N)** | **Retain 1 Year** | **Retain 2 Year** | **1 Yr or Less** | **2 Yrs or Less** | **3 Yrs or Less** | **4 Yrs or Less** |
| 0 | 94.34% | 90.11% | 2.17% | 29.76% | 69.52% | 84.63% |
| 1 | 100.00% | 97.60% | 0.72% | 16.80% | 60.95% | 84.71% |
| 2 | 100.00% | 97.83% | 0.00% | 18.48% | 64.63% | 84.85% |
| 3 | 100.00% | 98.11% | 0.00% | 3.77% | 44.66% | 88.89% |
| 4 | 100.00% | 100.00% | 0.00% | 0.00% | 27.27% | 88.89% |
| 5 | 100.00% | 100.00% | 0.00% | 0.00% | 0.00% | 50.00% |
| 6 | 100.00% | 100.00% | 0.00% | 0.00% | 0.00% | 50.00% |
| 7 | 100.00% | 100.00% | 0.00% | 0.00% | 0.00% | 50.00% |
| **Intern Sem. (N)** | **Retain 1 Year** | **Retain 2 Year** | **1 Yr or Less** | **2 Yrs or Less** | **3 Yrs or Less** | **4 Yrs or Less** |
| 0 | 94.09% | 89.55% | 2.07% | 29.23% | 68.21% | 83.79% |
| 1 | 99.40% | 97.62% | 2.39% | 25.54% | 71.47% | 92.23% |
| 2 | 97.60% | 95.76% | 0.60% | 22.42% | 64.34% | 85.25% |
| 3 | 100.00% | 100.00% | 2.63% | 18.92% | 63.64% | 85.19% |
| 4 | 100.00% | 100.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 5 | 66.67% | 100.00% | 0.00% | 0.00% | 33.33% | 66.67% |
| 6 | 100.00% | 100.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 7 | 100.00% | 100.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| 9 | 100.00% | 100.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Table 21d. Probability of students being retained through graduation based on a Given Population, Classification, or Category

| No. of Major Changes | Retain 1 Year | Retain 2 Year | 1 Yr or Less | 2 Yrs or Less | 3 Yrs or Less | 4 Yrs or Less |
|---|---|---|---|---|---|---|
| 0 | 94.30% | 90.07% | 2.28% | 31.55% | 71.62% | 85.84% |
| 1 | 96.25% | 92.90% | 1.22% | 17.47% | 57.14% | 81.05% |
| 2 | 95.65% | 93.85% | 0.00% | 9.23% | 42.31% | 79.55% |
| 3 | 100.00% | 100.00% | 0.00% | 20.00% | 20.00% | 40.00% |
| 4 | 95.65% | 100.00% | 0.00% | 20.00% | 42.31% | 40.00% |
| 5 | 95.65% | 100.00% | 0.00% | 20.00% | 42.31% | 40.00% |
| 6 | 95.65% | 100.00% | 0.00% | 20.00% | 42.31% | 40.00% |
| 7 | 95.65% | 100.00% | 0.00% | 20.00% | 42.31% | 40.00% |
| 8 | 95.65% | 100.00% | 0.00% | 20.00% | 42.31% | 40.00% |
| **Degree Prog Cr. Hrs. (N)** | **Retain 1 Year** | **Retain 2 Year** | **1 Yr or Less** | **2 Yrs or Less** | **3 Yrs or Less** | **4 Yrs or Less** |
| 132 | 95.12% | 90.24% | 0.00% | 41.46% | 70.73% | 80.49% |
| 122 | 94.74% | 100.00% | 10.53% | 52.63% | 84.21% | 94.74% |
| 126 | 100.00% | 92.31% | 7.69% | 61.54% | 92.31% | 92.31% |
| 131 | 100.00% | 100.00% | 0.00% | 75.00% | 100.00% | 100.00% |
| 129 | 91.30% | 82.61% | 0.00% | 39.13% | 73.91% | 82.61% |
| 130 | 100.00% | 75.00% | 0.00% | 75.00% | 75.00% | 100.00% |
| 124 | 100.00% | 75.00% | 0.00% | 25.00% | 75.00% | 75.00% |
| 128 | 100.00% | 100.00% | 0.00% | 36.36% | 100.00% | 100.00% |
| Unknown | 94.66% | 90.67% | 2.04% | 28.07% | 67.91% | 84.66% |

Table 21e. Probability of students being retained through graduation based on a Given Population, Classification, or Category

## *Likelihood of Transfer Students Being Retained Through Graduation Based on Transfer College*

| College Type | Retain 1 Year | Retain 2 Year | 1 Yr or Less | 2 Yrs or Less | 3 Yrs or Less | 4 Yrs or Less |
|---|---|---|---|---|---|---|
| 2-Year | 91.35% | 87.30% | 3.46% | 34.43% | 71.62% | 83.33% |
| 4-Year | 95.05% | 91.08% | 1.90% | 27.79% | 67.83% | 84.98% |
| Unknown | 100.00% | 100.00% | 0.00% | 33.33% | 66.67% | 100.00% |

| Transfer College Category | Retain 1 Year | Retain 2 Year | 1 Yr or Less | 2 Yrs or Less | 3 Yrs or Less | 4 Yrs or Less |
|---|---|---|---|---|---|---|
| GICA - Georgia Independent College Assoc. | 95.10% | 88.21% | 2.29% | 44.31% | 79.49% | 88.89% |
| Other - International | 98.13% | 91.67% | 9.35% | 37.50% | 73.91% | 88.61% |
| Out-of-State, 2-Yr Public | 91.56% | 88.00% | 0.63% | 25.78% | 65.96% | 81.33% |
| Out-of-State, 4-Yr Private | 93.67% | 86.73% | 1.90% | 27.43% | 70.51% | 81.25% |
| Out-of-State, 4-Yr Public | 96.13% | 91.96% | 1.55% | 19.35% | 62.50% | 84.38% |
| TCSG - Technical College System of Georgia | 87.50% | 66.67% | 0.00% | 16.67% | 60.00% | 60.00% |
| USG - University System of Georgia | 94.67% | 91.03% | 2.04% | 28.25% | 67.91% | 84.75% |
| Unknown | 100.00% | 100.00% | 0.00% | 33.33% | 66.67% | 100.00% |

| DDEP Transfer Pathway Colleges | Retain 1 Year | Retain 2 Year | 1 Yr or Less | 2 Yrs or Less | 3 Yrs or Less | 4 Yrs or Less |
|---|---|---|---|---|---|---|
| Agnes Scott College | 90.48% | 100.00% | 4.76% | 30.77% | 70.00% | 83.33% |
| Berry College | 97.73% | 85.29% | 0.00% | 58.82% | 90.91% | 92.86% |
| Clark Atlanta University | 91.67% | 80.00% | 0.00% | 10.00% | 55.56% | 66.67% |
| Covenant College | 100.00% | 92.31% | 6.06% | 80.77% | 89.47% | 100.00% |
| Dillard University | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 0.00% |
| Elon University (former Elon College) | 100.00% | 90.00% | 0.00% | 60.00% | 100.00% | 100.00% |
| Emory University | 90.70% | 88.89% | 3.49% | 52.78% | 82.76% | 92.00% |
| Furman University | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 0.00% |
| Jacksonville University | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 0.00% |
| LaGrange College | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 0.00% |
| Miami Dade | 86.05% | 82.05% | 0.00% | 15.38% | 46.67% | 64.00% |
| Montgomery College - Rockville, MD | 100.00% | 83.33% | 0.00% | 16.67% | 100.00% | 100.00% |
| Morehouse College | 100.00% | 58.33% | 0.00% | 8.33% | 62.50% | 71.43% |
| Oglethorpe University | 94.59% | 93.10% | 2.70% | 31.03% | 65.00% | 88.89% |
| Piedmont Univ. (former Piedmont College) | 100.00% | 75.00% | 0.00% | 33.33% | 70.00% | 75.00% |
| Presbyterian College | 100.00% | 100.00% | 0.00% | 50.00% | 100.00% | 0.00% |
| Spelman College | 100.00% | 100.00% | 0.00% | 43.75% | 92.31% | 90.91% |
| Wesleyan College | 100.00% | 100.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Xavier University | 83.33% | 83.33% | 0.00% | 16.67% | 75.00% | 100.00% |
| Non-DDEP College | 94.72% | 90.91% | 2.04% | 27.62% | 67.72% | 84.66% |

| DDEP HBCU | Retain 1 Year | Retain 2 Year | 1 Yr or Less | 2 Yrs or Less | 3 Yrs or Less | 4 Yrs or Less |
|---|---|---|---|---|---|---|
| 1 (Yes) | 96.61% | 82.00% | 0.00% | 22.00% | 76.92% | 82.86% |
| 0 (No) | 94.66% | 90.77% | 2.08% | 28.57% | 68.20% | 84.76% |
| Unknown | 100.00% | 100.00% | 0.00% | 33.33% | 66.67% | 100.00% |

Table 23. Probability of Students Being Retained Through Graduation Based on Transfer College

## *Likelihood of Transfer Students by College Being Retained Through Graduation*

| College | Major Name | Retain 1 Year | Retain 2 Year | 1 Yr or Less | 2 Yrs or Less | 3 Yrs or Less | 4 Yrs or Less |
|---|---|---|---|---|---|---|---|
| College of Engineering | Aerospace Engineering | 94.81% | 89.63% | 0.27% | 23.41% | 62.14% | 81.35% |
| | Biomedical Engineering | 93.80% | 93.46% | 0.36% | 30.84% | 71.51% | 89.66% |
| | Chemical and Biomolecular Eng | 92.63% | 88.68% | 0.32% | 8.68% | 51.34% | 74.03% |
| | Civil Engineering | 93.13% | 92.00% | 2.67% | 41.33% | 80.95% | 93.15% |
| | Computer Engineering | 95.58% | 90.46% | 0.88% | 28.27% | 71.16% | 83.03% |
| | Electrical Engineering | 95.65% | 87.54% | 2.30% | 31.45% | 69.44% | 78.69% |
| | Environmental Engineering | 97.62% | 91.89% | 1.19% | 32.43% | 70.69% | 89.36% |
| | Industrial Engineering | 94.97% | 91.97% | 3.07% | 26.76% | 69.42% | 89.30% |
| | Materials Science & Engr | 98.59% | 96.77% | 1.41% | 27.42% | 67.92% | 88.64% |
| | Mechanical Engineering | 93.75% | 88.65% | 2.04% | 36.16% | 73.32% | 86.52% |
| | Nuclear & Radiological Engr | 96.72% | 89.66% | 3.28% | 13.79% | 72.34% | 92.11% |
| | Undeclared Coll of Engr | 85.71% | 83.33% | 0.00% | 33.33% | 75.00% | 0.00% |
| College of Computing | Computer Science | 95.03% | 94.34% | 1.70% | 29.49% | 73.33% | 87.17% |
| College of Design | Architecture | 98.75% | 93.85% | 0.00% | 9.23% | 43.90% | 80.00% |
| | Building Construction | 85.71% | 83.33% | 0.00% | 33.33% | 75.00% | 0.00% |
| | Industrial Design | 95.52% | 86.96% | 0.00% | 8.70% | 39.13% | 66.67% |
| | Music Technology | 84.62% | 88.89% | 0.00% | 0.00% | 14.29% | 0.00% |
| | Pre-Architecture | 88.00% | 88.00% | 0.00% | 4.00% | 60.00% | 84.00% |
| | Pre-Building Construction | 85.71% | 83.33% | 0.00% | 33.33% | 75.00% | 0.00% |
| | Pre-Industrial Design | 94.29% | 88.57% | 0.00% | 11.43% | 34.29% | 85.71% |
| College of Sciences | Applied Mathematics | 89.19% | 83.78% | 2.70% | 29.73% | 56.76% | 78.38% |
| | Applied Physics | 92.86% | 80.00% | 0.00% | 10.00% | 50.00% | 80.00% |
| | Biochemistry | 90.79% | 87.72% | 1.32% | 29.82% | 69.77% | 75.86% |
| | Biology | 95.42% | 90.11% | 1.53% | 24.18% | 68.75% | 89.36% |
| | Chemistry | 95.83% | 92.45% | 1.39% | 30.19% | 68.29% | 83.33% |
| | Discrete Mathematics | 71.43% | 71.43% | 0.00% | 35.71% | 64.29% | 71.43% |
| | Earth & Atmospheric Sciences | 96.30% | 88.24% | 0.00% | 35.29% | 53.33% | 69.23% |
| | Mathematics | 90.51% | 81.82% | 0.73% | 15.58% | 42.11% | 68.42% |
| | Neuroscience | 97.37% | 95.83% | 0.00% | 12.50% | 66.67% | 83.33% |
| | Physics | 93.91% | 89.29% | 2.61% | 25.00% | 59.68% | 75.56% |
| | Psychology | 89.47% | 84.62% | 5.26% | 38.46% | 77.78% | 85.71% |
| | Undeclared Coll of Sciences | 85.71% | 83.33% | 0.00% | 33.33% | 75.00% | 0.00% |
| Ivan Allen College | Applied Lang/Intercultural St | 85.71% | 83.33% | 0.00% | 33.33% | 75.00% | 50.00% |
| | Computational Media | 95.24% | 93.81% | 1.19% | 21.24% | 70.51% | 89.80% |
| | Econ & Int'l Affairs | 95.83% | 88.89% | 0.00% | 11.11% | 58.33% | 66.67% |
| | Economics | 96.77% | 89.83% | 2.15% | 32.20% | 60.00% | 80.00% |
| | Global Econ/Mod Lang | 81.82% | 100.00% | 0.00% | 28.57% | 50.00% | 80.00% |
| | History, Technology, & Society | 94.44% | 90.91% | 5.56% | 18.18% | 50.00% | 66.67% |
| | International Affairs | 91.18% | 76.19% | 2.94% | 28.57% | 61.54% | 100.00% |
| | Int'l Affairs & Mod Lang | 100.00% | 100.00% | 0.00% | 7.69% | 50.00% | 85.71% |
| | Lit., Media, & Communication | 98.25% | 89.47% | 3.51% | 28.95% | 76.92% | 91.67% |
| | Public Policy | 96.00% | 100.00% | 0.00% | 28.57% | 77.78% | 80.00% |
| | Science, Technology, & Culture | 85.71% | 83.33% | 0.00% | 33.33% | 75.00% | 0.00% |
| | Undeclared Ivan Allen College | 85.71% | 83.33% | 0.00% | 33.33% | 75.00% | 0.00% |
| Scheller College of Business | Business Administration | 98.14% | 93.88% | 9.31% | 46.26% | 79.75% | 92.06% |
| Unknown | Unknown | 92.86% | 96.23% | 1.79% | 16.98% | 54.35% | 78.57% |

Table 22. Probability of students being retained through graduation based on Major and College of Study

## *Likelihood of Transfer Students by State of Residence Being Retained Through Graduation*

| Resident State | Retain 1 Year | Retain 2 Year | 1 Yr or Less | 2 Yrs or Less | 3 Yrs or Less | 4 Yrs or Less |
|---|---|---|---|---|---|---|
| Alabama | 93.33% | 100.00% | 0.00% | 16.67% | 60.00% | 100.00% |
| Alaska | 100.00% | 100.00% | 0.00% | 100.00% | 100.00% | 100.00% |
| Arizona | 100.00% | 100.00% | 0.00% | 0.00% | 60.00% | 100.00% |
| Arkansas | 100.00% | 100.00% | 0.00% | 100.00% | 100.00% | 100.00% |
| California | 94.00% | 83.33% | 2.00% | 23.33% | 52.38% | 64.71% |
| Colorado | 75.00% | 80.00% | 0.00% | 40.00% | 100.00% | 100.00% |
| Connecticut | 83.33% | 80.00% | 0.00% | 0.00% | 25.00% | 33.33% |
| Delaware | 100.00% | 100.00% | 0.00% | 50.00% | 50.00% | 100.00% |
| District of Columbia | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Florida | 93.69% | 87.64% | 0.90% | 24.72% | 66.22% | 75.86% |
| Georgia | 95.37% | 91.66% | 1.81% | 27.44% | 67.49% | 85.15% |
| Hawaii | 100.00% | 0.00% | 0.00% | 0.00% | 50.00% | 50.00% |
| Idaho | 100.00% | 100.00% | 0.00% | 100.00% | 100.00% | 100.00% |
| Illinois | 86.67% | 75.00% | 6.67% | 25.00% | 40.00% | 50.00% |
| Indiana | 100.00% | 100.00% | 0.00% | 50.00% | 100.00% | 100.00% |
| International * | 91.94% | 86.37% | 3.75% | 35.83% | 73.83% | 84.63% |
| Iowa | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Kansas | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Kentucky | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Louisiana | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Maine | 100.00% | 100.00% | 0.00% | 0.00% | 0.00% | 100.00% |
| Maryland | 100.00% | 84.62% | 6.25% | 23.08% | 80.00% | 80.00% |
| Massachusetts | 88.24% | 85.71% | 0.00% | 28.57% | 72.73% | 88.89% |
| Michigan | 85.71% | 57.14% | 0.00% | 42.86% | 83.33% | 83.33% |
| Minnesota | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |

Table 24a. Probability of students being retained through graduation based on the State of Residence

| Resident State | Retain 1 Year | Retain 2 Year | 1 Yr or Less | 2 Yrs or Less | 3 Yrs or Less | 4 Yrs or Less |
|---|---|---|---|---|---|---|
| Mississippi | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Missouri | 71.43% | 75.00% | 0.00% | 0.00% | 66.67% | 100.00% |
| Montana | 100.00% | 100.00% | 0.00% | 100.00% | 100.00% | 100.00% |
| Nebraska | 100.00% | 100.00% | 0.00% | 0.00% | 0.00% | 100.00% |
| Nevada | 100.00% | 100.00% | 0.00% | 100.00% | 100.00% | 100.00% |
| New Hampshire | 100.00% | 100.00% | 0.00% | 50.00% | 100.00% | 100.00% |
| New Jersey | 94.12% | 89.47% | 0.00% | 21.05% | 60.00% | 75.00% |
| New Mexico | 50.00% | 100.00% | 0.00% | 0.00% | 50.00% | 100.00% |
| New York | 94.74% | 92.86% | 0.00% | 21.43% | 66.67% | 50.00% |
| North Carolina | 90.48% | 100.00% | 0.00% | 60.00% | 85.71% | 90.91% |
| North Dakota | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Ohio | 88.89% | 100.00% | 11.11% | 50.00% | 66.67% | 100.00% |
| Oklahoma | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Oregon | 100.00% | 100.00% | 25.00% | 75.00% | 100.00% | 100.00% |
| Other U.S. Territory | 100.00% | 100.00% | 0.00% | 0.00% | 50.00% | 100.00% |
| Pennsylvania | 100.00% | 75.00% | 0.00% | 12.50% | 71.43% | 100.00% |
| Puerto Rico | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Rhode Island | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| South Carolina | 100.00% | 100.00% | 0.00% | 12.50% | 20.00% | 50.00% |
| South Dakota | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Tennessee | 100.00% | 100.00% | 0.00% | 38.46% | 66.67% | 100.00% |
| Texas | 90.32% | 90.91% | 0.00% | 13.64% | 55.56% | 71.43% |
| Unknown | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Utah | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Vermont | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Virginia | 100.00% | 81.82% | 0.00% | 9.09% | 75.00% | 85.71% |
| Washington | 80.00% | 100.00% | 0.00% | 100.00% | 100.00% | 100.00% |
| West Virginia | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Wisconsin | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| Wyoming | 100.00% | 100.00% | 0.00% | 0.00% | 100.00% | 100.00% |

Table 24b. Probability of students being retained through graduation based on the State of Residence

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# Appendix-A. Retention Rates by Georgia Tech College of Study

| College | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| College of Computing | 2015 | 62 | 98.39% | 100.00% | 96.77% | 95.16% | 96.77% | 96.77% |
| | 2016 | 68 | 92.65% | 94.12% | 89.71% | 89.71% | 92.65% | |
| | 2017 | 91 | 97.80% | 95.60% | 92.31% | 89.01% | | |
| | 2018 | 92 | 95.65% | 94.57% | 89.13% | | | |
| | 2019 | 115 | 99.13% | 100.00% | | | | |
| | Average | | **96.72%** | **96.86%** | **91.98%** | **91.29%** | **94.71%** | **96.77%** |
| College of Design | 2015 | 18 | 88.89% | 83.33% | 88.89% | 88.89% | 83.33% | 83.33% |
| | 2016 | 27 | 96.30% | 92.59% | 85.19% | 92.59% | 88.89% | |
| | 2017 | 30 | 96.67% | 90.00% | 73.33% | 90.00% | | |
| | 2018 | 36 | 94.44% | 97.22% | 80.56% | | | |
| | 2019 | 45 | 97.78% | 93.33% | | | | |
| | Average | | **94.81%** | **91.30%** | **81.99%** | **90.49%** | **86.11%** | **83.33%** |
| College of Engineering | 2015 | 463 | 95.68% | 91.58% | 90.28% | 90.93% | 92.22% | 92.01% |
| | 2016 | 523 | 94.46% | 89.67% | 91.01% | 91.40% | 93.50% | |
| | 2017 | 593 | 94.77% | 91.74% | 88.87% | 90.56% | | |
| | 2018 | 383 | 95.82% | 91.12% | 88.51% | | | |
| | 2019 | 388 | 96.13% | 92.01% | | | | |
| | Average | | **95.37%** | **91.22%** | **89.67%** | **90.96%** | **92.86%** | **92.01%** |
| College of Sciences | 2015 | 60 | 88.33% | 83.33% | 83.33% | 83.33% | 81.67% | 85.00% |
| | 2016 | 68 | 85.29% | 83.82% | 76.47% | 83.82% | 82.35% | |
| | 2017 | 94 | 92.55% | 88.30% | 86.17% | 87.23% | | |
| | 2018 | 81 | 95.06% | 93.83% | 83.95% | | | |
| | 2019 | 118 | 94.07% | 89.83% | | | | |
| | Average | | **91.06%** | **87.82%** | **82.48%** | **84.80%** | **82.01%** | **85.00%** |
| Ivan Allen College of Liberal Arts | 2015 | 20 | 95.00% | 90.00% | 85.00% | 90.00% | 90.00% | 90.00% |
| | 2016 | 28 | 100.00% | 85.71% | 92.86% | 92.86% | 92.86% | |
| | 2017 | 38 | 92.11% | 84.21% | 89.47% | 89.47% | | |
| | 2018 | 77 | 96.10% | 93.51% | 90.91% | | | |
| | 2019 | 82 | 97.56% | 92.68% | | | | |
| | Average | | **96.15%** | **89.22%** | **89.56%** | **90.78%** | **91.43%** | **90.00%** |
| Scheller College of Business | 2015 | 59 | 98.31% | 100.00% | 96.61% | 100.00% | 100.00% | 100.00% |
| | 2016 | 47 | 100.00% | 89.36% | 93.62% | 93.62% | 95.74% | |
| | 2017 | 53 | 96.23% | 96.23% | 92.45% | 98.11% | | |
| | 2018 | 45 | 100.00% | 93.33% | 93.33% | | | |
| | 2019 | 43 | 95.35% | 95.35% | | | | |
| | Average | | **97.98%** | **94.85%** | **94.00%** | **97.24%** | **97.87%** | **100.00%** |
| Unknown, Undecided, or Non-Degree | 2015 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | Average | | **100.00%** | **100.00%** | **100.00%** | **100.00%** | **100.00%** | **100.00%** |

# Appendix-B. Retention Rates by Race/Ethnicity

| Race/Ethnicity | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| Amer Indian | 2017 | <10 | 100.00% | 0.00% | 0.00% | 0.00% | | |
| | 2018 | <10 | 100.00% | 100.00% | 100.00% | | | |
| | Average | | **100.00 %** | **50.00%** | **50.00%** | **0.00%** | | |
| Asian | 2015 | 104 | 97.12% | 93.27% | 88.46% | 91.35% | 91.35% | 91.35% |
| | 2016 | 140 | 97.14% | 90.71% | 95.00% | 92.86% | 94.29% | |
| | 2017 | 196 | 97.96% | 95.92% | 94.90% | 93.37% | | |
| | 2018 | 188 | 96.28% | 92.55% | 88.30% | | | |
| | 2019 | 219 | 98.17% | 96.80% | | | | |
| | 2020 | 313 | 98.40% | | | | | |
| | Average | | **97.51%** | **93.85%** | **91.66%** | **92.52%** | **92.82%** | **91.35%** |
| Black | 2015 | 63 | 98.41% | 95.24% | 95.24% | 93.65% | 96.83% | 96.83% |
| | 2016 | 75 | 90.67% | 84.00% | 78.67% | 81.33% | 85.33% | |
| | 2017 | 64 | 90.63% | 85.94% | 79.69% | 82.81% | | |
| | 2018 | 48 | 93.75% | 89.58% | 85.42% | | | |
| | 2019 | 61 | 93.44% | 85.25% | | | | |
| | 2020 | 76 | 92.11% | | | | | |
| | Average | | **93.17%** | **88.00%** | **84.75%** | **85.93%** | **91.08%** | **96.83%** |
| Hispanic | 2015 | 57 | 96.49% | 92.98% | 92.98% | 94.74% | 94.74% | 92.98% |
| | 2016 | 58 | 94.83% | 89.66% | 89.66% | 89.66% | 93.10% | |
| | 2017 | 74 | 94.59% | 95.95% | 90.54% | 91.89% | | |
| | 2018 | 69 | 97.10% | 91.30% | 92.75% | | | |
| | 2019 | 64 | 96.88% | 92.19% | | | | |
| | 2020 | 74 | 95.95% | | | | | |
| | Average | | **95.97%** | **92.42%** | **91.48%** | **92.09%** | **93.92%** | **92.98%** |
| Pacific Islander | 2018 | <10 | 100.00% | 100.00% | 100.00% | | | |
| | Average | | **100.00%** | **100.00%** | **100.00%** | | | |

# Appendix-B. Retention Rates by Race/Ethnicity (Continued)

| Race Ethnicity | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| Two or More | 2015 | 18 | 94.44% | 88.89% | 83.33% | 83.33% | 83.33% | 83.33% |
| | 2016 | 24 | 95.83% | 83.33% | 87.50% | 87.50% | 87.50% | |
| | 2017 | 40 | 92.50% | 92.50% | 92.50% | 87.50% | | |
| | 2018 | 35 | 97.14% | 97.14% | 94.29% | | | |
| | 2019 | 28 | 96.43% | 92.86% | | | | |
| | 2020 | 43 | 100.00% | | | | | |
| | Average | | **96.06%** | **90.94%** | **89.40%** | **86.11%** | **85.42%** | **83.33%** |
| White | 2015 | 299 | 95.32% | 92.31% | 90.30% | 90.97% | 91.97% | 92.31% |
| | 2016 | 371 | 94.88% | 91.64% | 89.76% | 91.91% | 93.26% | |
| | 2017 | 385 | 95.58% | 91.69% | 87.27% | 90.65% | | |
| | 2018 | 316 | 95.25% | 92.41% | 86.39% | | | |
| | 2019 | 294 | 96.26% | 92.18% | | | | |
| | 2020 | 321 | 96.88% | | | | | |
| | Average | | **95.70%** | **92.04%** | **88.43%** | **91.18%** | **92.62%** | **92.31%** |
| Non-Resident Alien | 2015 | 142 | 92.25% | 89.44% | 90.85% | 90.85% | 90.85% | 91.55% |
| | 2016 | 93 | 88.17% | 84.95% | 90.32% | 92.47% | 92.47% | |
| | 2017 | 136 | 91.18% | 86.76% | 86.76% | 90.44% | | |
| | 2018 | 51 | 98.04% | 94.12% | 90.20% | | | |
| | 2019 | 119 | 94.96% | 93.28% | | | | |
| | 2020 | 200 | 98.50% | | | | | |
| | Average | | **93.85%** | **89.71%** | **89.53%** | **91.25%** | **91.66%** | **91.55%** |
| Other or Unknown | 2017 | <10 | 100.00% | 66.67% | 66.67% | 66.67% | 66.67% | 66.67% |
| | 2018 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | 2020 | <10 | 100.00% | | | | | |
| | Average | | **100.00%** | **88.89%** | **83.33%** | **83.33%** | **83.33%** | **66.67%** |

# Appendix-C Retention Rates by Financial Aid

| Financial Aid | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| PELL Only | 2015 | 48 | 95.83% | 95.83% | 91.67% | 93.75% | 95.83% | 95.83% |
| | 2016 | 39 | 89.74% | 79.49% | 89.74% | 92.31% | 92.31% | |
| | 2017 | 46 | 97.83% | 95.65% | 93.48% | 89.13% | | |
| | 2018 | 22 | 95.45% | 81.82% | 90.91% | | | |
| | 2019 | 20 | 90.00% | 85.00% | | | | |
| | 2020 | 33 | 87.88% | | | | | |
| | Average | | **92.79%** | **87.56%** | **91.45%** | **91.73%** | **94.07%** | **95.83%** |
| PELL and HOPE | 2015 | 107 | 99.07% | 94.39% | 96.26% | 93.46% | 95.33% | 94.39% |
| | 2016 | 121 | 97.52% | 92.56% | 89.26% | 89.26% | 93.39% | |
| | 2017 | 138 | 96.38% | 95.65% | 94.93% | 94.93% | | |
| | 2018 | 137 | 97.08% | 91.97% | 86.13% | | | |
| | 2019 | 90 | 97.78% | 88.89% | | | | |
| | 2020 | 88 | 98.86% | | | | | |
| | Average | | **97.78%** | **92.69%** | **91.64%** | **92.55%** | **94.36%** | **94.39%** |
| PELL and ZELL | 2015 | 16 | 93.75% | 93.75% | 87.50% | 93.75% | 93.75% | 93.75% |
| | 2016 | 27 | 96.30% | 88.89% | 88.89% | 88.89% | 88.89% | |
| | 2017 | 47 | 100.00% | 97.87% | 97.87% | 97.87% | | |
| | 2018 | 51 | 98.04% | 96.08% | 88.24% | | | |
| | 2019 | 58 | 98.28% | 100.00% | | | | |
| | 2020 | 72 | 95.83% | | | | | |
| | Average | | **97.03%** | **95.32%** | **90.62%** | **93.50%** | **91.32%** | **93.75%** |
| HOPE Only | 2015 | 214 | 95.79% | 92.52% | 89.72% | 92.06% | 92.99% | 92.99% |
| | 2016 | 262 | 96.18% | 91.60% | 91.98% | 92.37% | 94.27% | |
| | 2017 | 286 | 95.45% | 92.66% | 86.71% | 90.21% | | |
| | 2018 | 233 | 95.28% | 93.56% | 87.55% | | | |
| | 2019 | 218 | 97.25% | 92.20% | | | | |
| | 2020 | 254 | 98.03% | | | | | |
| | Average | | **95.99%** | **92.51%** | **88.99%** | **91.54%** | **93.63%** | **92.99%** |
| HOPE and ZELL | 2015 | 13 | 100.00% | 84.62% | 84.62% | 92.31% | 92.31% | 92.31% |
| | 2016 | 22 | 100.00% | 95.45% | 90.91% | 95.45% | 95.45% | |
| | 2017 | 12 | 100.00% | 100.00% | 75.00% | 75.00% | | |
| | 2018 | 11 | 90.91% | 81.82% | 72.73% | | | |
| | 2019 | 14 | 100.00% | 100.00% | | | | |
| | 2020 | 5 | 100.00% | | | | | |
| | Average | | **98.18%** | **92.38%** | **80.81%** | **87.59%** | **93.88%** | **92.31%** |

# Appendix-C Retention Rates by Financial Aid (Continued)

| Financial Aid | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| ZELL Only | 2015 | 53 | 94.34% | 94.34% | 94.34% | 94.34% | 94.34% | 94.34% |
| | 2016 | 104 | 93.27% | 92.31% | 91.35% | 93.27% | 93.27% | |
| | 2017 | 128 | 98.44% | 96.88% | 92.97% | 94.53% | | |
| | 2018 | 138 | 97.10% | 94.93% | 93.48% | | | |
| | 2019 | 177 | 96.05% | 93.22% | | | | |
| | 2020 | 240 | 98.75% | | | | | |
| | Average | | **96.32%** | **94.33%** | **93.03%** | **94.05%** | **93.80%** | **94.34%** |
| PELL, HOPE, and ZELL | 2015 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 100.00% | 85.71% | 85.71% | 85.71% | 85.71% | |
| | 2017 | <10 | 100.00% | 66.67% | 66.67% | 66.67% | | |
| | 2018 | <10 | 85.71% | 100.00% | 100.00% | | | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | 2020 | <10 | 100.00% | | | | | |
| | Average | | **97.14%** | **90.48%** | **88.10%** | **84.13%** | **92.86%** | **100.00%** |
| Other or Unknown | 2015 | 230 | 93.04% | 89.57% | 88.26% | 88.26% | 88.26% | 89.13% |
| | 2016 | 179 | 88.83% | 84.36% | 85.47% | 87.71% | 88.83% | |
| | 2017 | 239 | 89.54% | 83.26% | 83.26% | 85.77% | | |
| | 2018 | 115 | 94.78% | 89.57% | 86.09% | | | |
| | 2019 | 209 | 95.22% | 94.26% | | | | |
| | 2020 | 338 | 96.75% | | | | | |
| | Average | | **93.03%** | **88.20%** | **85.77%** | **87.25%** | **88.54%** | **89.13%** |

# Appendix-D Retention Rates by Transferring College Category

| Prior College Category | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| USG - University System of Georgia | 2015 | 509 | 95.48% | 92.73% | 90.96% | 91.55% | 92.34% | 92.53% |
| | 2016 | 599 | 93.82% | 89.65% | 89.48% | 90.82% | 92.49% | |
| | 2017 | 663 | 94.87% | 92.76% | 88.99% | 90.95% | | |
| | 2018 | 574 | 95.99% | 92.86% | 87.63% | | | |
| | 2019 | 570 | 97.02% | 93.68% | | | | |
| | 2020 | 670 | 97.76% | | | | | |
| | Average | | **95.82%** | **92.34%** | **89.27%** | **91.11%** | **92.41%** | **92.53%** |
| GICA - Georgia Independent College Assoc. | 2015 | 33 | 93.94% | 84.85% | 87.88% | 90.91% | 90.91% | 90.91% |
| | 2016 | 57 | 100.00% | 84.21% | 89.47% | 92.98% | 92.98% | |
| | 2017 | 46 | 95.65% | 91.30% | 89.13% | 89.13% | | |
| | 2018 | 40 | 92.50% | 87.50% | 87.50% | | | |
| | 2019 | 48 | 91.67% | 89.58% | | | | |
| | 2020 | 55 | 98.18% | | | | | |
| | Average | | **95.32%** | **87.49%** | **88.50%** | **91.01%** | **91.95%** | **90.91%** |
| Out-of-State, 4-Yr Public | 2015 | 37 | 94.59% | 97.30% | 91.89% | 94.59% | 97.30% | 97.30% |
| | 2016 | 31 | 100.00% | 100.00% | 96.77% | 96.77% | 96.77% | |
| | 2017 | 75 | 96.00% | 88.00% | 86.67% | 89.33% | | |
| | 2018 | 55 | 96.36% | 94.55% | 92.73% | | | |
| | 2019 | 104 | 96.15% | 91.35% | | | | |
| | 2020 | 168 | 97.02% | | | | | |
| | Average | | **96.69%** | **94.24%** | **92.02%** | **93.57%** | **97.04%** | **97.30%** |
| Out-of-State, 4-Yr Private | 2015 | 23 | 100.00% | 91.30% | 95.65% | 95.65% | 91.30% | 91.30% |
| | 2016 | 16 | 81.25% | 75.00% | 75.00% | 81.25% | 75.00% | |
| | 2017 | 23 | 91.30% | 82.61% | 91.30% | 82.61% | | |
| | 2018 | 13 | 100.00% | 92.31% | 92.31% | | | |
| | 2019 | 33 | 96.97% | 90.91% | | | | |
| | 2020 | 43 | 95.35% | | | | | |
| | Average | | **94.15%** | **86.43%** | **88.57%** | **86.50%** | **83.15%** | **91.30%** |

# Appendix-D Retention Rates by Transferring College Category (Continued)

| Prior College Category | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| **TCSG - Technical College System of Georgia** | 2015 | <10 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| | 2017 | <10 | 100.00% | 75.00% | 75.00% | 75.00% | | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | Average | | **66.67%** | **58.33%** | **37.50%** | **37.50%** | **0.00%** | **0.00%** |
| **Out-of-State, 2-Yr Public** | 2015 | 56 | 94.64% | 87.50% | 85.71% | 83.93% | 85.71% | 85.71% |
| | 2016 | 30 | 86.67% | 93.33% | 90.00% | 90.00% | 93.33% | |
| | 2017 | 67 | 92.54% | 86.57% | 86.57% | 88.06% | | |
| | 2018 | 21 | 95.24% | 85.71% | 85.71% | | | |
| | 2019 | 32 | 93.75% | 96.88% | | | | |
| | 2020 | 85 | 95.29% | | | | | |
| | Average | | **93.02%** | **90.00%** | **87.00%** | **87.33%** | **89.52%** | **85.71%** |
| **Other - International** | 2015 | 22 | 95.45% | 95.45% | 95.45% | 100.00% | 100.00% | 100.00% |
| | 2016 | 27 | 96.30% | 88.89% | 92.59% | 85.19% | 92.59% | |
| | 2017 | 21 | 100.00% | 100.00% | 90.48% | 100.00% | | |
| | 2018 | 11 | 100.00% | 100.00% | 100.00% | | | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | 2020 | 11 | 100.00% | | | | | |
| | Average | | **98.63%** | **96.87%** | **94.63%** | **95.06%** | **96.30%** | **100.00%** |
| **Unknown** | 2015 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | |
| | Average | | **100.00%** | **100.00%** | **100.00%** | **100.00%** | **100.00%** | **100.00%** |

# Appendix-E. Retention Rates by DDEP Transfer Pathway College

| DDEP Pathway College | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| Agnes Scott College | 2015 | <10 | 100.00% | 100.00% | 0.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | |
| | 2017 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | | |
| | 2018 | <10 | 100.00% | 100.00% | 100.00% | | | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | 2020 | <10 | 100.00% | | | | | |
| | Average | | **100.00%** | **100.00%** | **75.00%** | **100.00%** | **100.00%** | **100.00%** |
| Berry College | 2015 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | 14 | 100.00% | 71.43% | 100.00% | 100.00% | 100.00% | |
| | 2017 | 11 | 90.91% | 90.91% | 81.82% | 81.82% | | |
| | 2018 | <10 | 100.00% | 100.00% | 80.00% | | | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | 2020 | <10 | 100.00% | | | | | |
| | Average | | **98.48%** | **92.47%** | **90.45%** | **93.94%** | **100.00%** | **100.00%** |
| Clark Atlanta University | 2015 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 100.00% | 83.33% | 66.67% | 66.67% | 83.33% | |
| | 2017 | <10 | 100.00% | 50.00% | 100.00% | 100.00% | | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | 2020 | <10 | 50.00% | | | | | |
| | Average | | **90.00%** | **83.33%** | **88.89%** | **88.89%** | **91.67%** | **100.00%** |
| Covenant College | 2015 | <10 | 100.00% | 80.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 100.00% | 100.00% | 80.00% | 100.00% | 100.00% | |
| | 2017 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | | |
| | 2018 | <10 | 100.00% | 75.00% | 75.00% | | | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | 2020 | <10 | 100.00% | | | | | |
| | Average | | **100.00%** | **91.00%** | **88.75%** | **100.00%** | **100.00%** | **100.00%** |
| Elon University | 2015 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | |
| | 2017 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | | |
| | 2019 | <10 | 100.00% | 0.00% | | | | |
| | 2020 | <10 | 100.00% | | | | | |
| | Average | | **100.00%** | **75.00%** | **100.00%** | **100.00%** | **100.00%** | **100.00%** |
| Emory University | 2015 | 14 | 85.71% | 85.71% | 85.71% | 85.71% | 85.71% | 85.71% |
| | 2016 | 14 | 100.00% | 92.86% | 92.86% | 100.00% | 92.86% | |
| | 2017 | 14 | 92.86% | 85.71% | 92.86% | 92.86% | | |
| | 2018 | <10 | 71.43% | 71.43% | 85.71% | | | |
| | 2019 | 14 | 85.71% | 100.00% | | | | |
| | 2020 | 14 | 100.00% | | | | | |
| | Average | | **89.29%** | **87.14%** | **89.29%** | **92.86%** | **89.29%** | **85.71%** |

# Appendix-E. Retention Rates by DDEP Transfer Pathway College (Continued)

| DDEP Pathway College | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| **Jacksonville University** | 2019 | <10 | 100.00% | 100.00% | | | | |
| | Average | | **100.00%** | **100.00%** | | | | |
| **LaGrange College** | 2018 | <10 | 100.00% | 100.00% | 100.00% | | | |
| | Average | | **100.00%** | **100.00%** | **100.00%** | | | |
| **Miami-Dade College** | 2015 | 11 | 90.91% | 72.73% | 63.64% | 72.73% | 72.73% | 72.73% |
| | 2016 | 7 | 71.43% | 85.71% | 85.71% | 71.43% | 85.71% | |
| | 2017 | 4 | 100.00% | 100.00% | 100.00% | 75.00% | | |
| | 2018 | 5 | 80.00% | 60.00% | 60.00% | | | |
| | 2019 | 8 | 100.00% | 100.00% | | | | |
| | 2020 | 4 | 100.00% | | | | | |
| | Average | | **90.39%** | **83.69%** | **77.34%** | **73.05%** | **79.22%** | **72.73%** |
| **Montgomery College Rockville** | 2015 | <10 | 100.00% | 50.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | |
| | 2017 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | 2020 | <10 | 100.00% | | | | | |
| | Average | | **100.00%** | **87.50%** | **100.00%** | **100.00%** | **100.00%** | **100.00%** |
| **Morehouse College** | 2015 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 100.00% | 60.00% | 80.00% | 80.00% | 80.00% | |
| | 2017 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | | |
| | 2018 | <10 | 100.00% | 0.00% | 0.00% | | | |
| | 2019 | <10 | 100.00% | 50.00% | | | | |
| | 2020 | <10 | 100.00% | | | | | |
| | Average | | **100.00%** | **62.00%** | **70.00%** | **93.33%** | **90.00%** | **100.00%** |
| **Oglethorpe University** | 2017 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | | |
| | 2018 | 11 | 90.91% | 90.91% | 90.91% | | | |
| | 2019 | <10 | 87.50% | 87.50% | | | | |
| | 2020 | <10 | 100.00% | | | | | |
| | Average | | **94.60%** | **92.80%** | **95.45%** | **100.00%** | | |
| **Piedmont College** | 2015 | <10 | 100.00% | 50.00% | 50.00% | 50.00% | 50.00% | 50.00% |
| | 2016 | <10 | 100.00% | 75.00% | 75.00% | 75.00% | 75.00% | |
| | 2017 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | | |
| | 2018 | <10 | 100.00% | 100.00% | 100.00% | | | |
| | 2019 | <10 | 100.00% | 50.00% | | | | |
| | 2020 | <10 | 100.00% | | | | | |
| | Average | | **100.00%** | **75.00%** | **81.25%** | **75.00%** | **62.50%** | **50.00%** |

# Appendix-E. Retention Rates by DDEP Transfer Pathway College (Continued)

| DDEP Pathway College | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| **Presbyterian College** | 2018 | <10 | 100.00% | 100.00% | 100.00% | | | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | Average | | **100.00%** | **100.00%** | **100.00%** | | | |
| **Spelman College** | 2015 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | |
| | 2017 | <10 | 100.00% | 100.00% | 50.00% | 50.00% | | |
| | 2018 | <10 | 100.00% | 100.00% | 100.00% | | | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | 2020 | <10 | 100.00% | | | | | |
| | Average | | **100.00%** | **100.00%** | **87.50%** | **83.33%** | **100.00%** | **100.00%** |
| **Wesleyan College** | 2017 | <10 | 100.00% | 100.00% | 0.00% | 0.00% | | |
| | Average | | **100.00%** | **100.00%** | **0.00%** | **0.00%** | | |
| **Xavier University** | 2016 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | |
| | 2017 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | | |
| | 2018 | <10 | 100.00% | 100.00% | 100.00% | | | |
| | 2019 | <10 | 50.00% | 50.00% | | | | |
| | Average | | **87.50%** | **87.50%** | **100.00%** | **100.00%** | **100.00%** | |

# Appendix-F. Retention Rates by Transferring College Category

| Transferring College Category | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| USG - University System of Georgia | 2015 | 509 | 95.48% | 92.73% | 90.96% | 91.55% | 92.34% | 92.53% |
| | 2016 | 599 | 93.82% | 89.65% | 89.48% | 90.82% | 92.49% | |
| | 2017 | 663 | 94.87% | 92.76% | 88.99% | 90.95% | | |
| | 2018 | 574 | 95.99% | 92.86% | 87.63% | | | |
| | 2019 | 570 | 97.02% | 93.68% | | | | |
| | 2020 | 670 | 97.76% | | | | | |
| | Average | | **95.82%** | **92.34%** | **89.27%** | **91.11%** | **92.41%** | **92.53%** |
| GICA - Georgia Independent College Assoc. | 2015 | 33 | 93.94% | 84.85% | 87.88% | 90.91% | 90.91% | 90.91% |
| | 2016 | 57 | 100.00% | 84.21% | 89.47% | 92.98% | 92.98% | |
| | 2017 | 46 | 95.65% | 91.30% | 89.13% | 89.13% | | |
| | 2018 | 40 | 92.50% | 87.50% | 87.50% | | | |
| | 2019 | 48 | 91.67% | 89.58% | | | | |
| | 2020 | 55 | 98.18% | | | | | |
| | Average | | **95.32%** | **87.49%** | **88.50%** | **91.01%** | **91.95%** | **90.91%** |
| Out-of-State, 4-Yr Public | 2015 | 37 | 94.59% | 97.30% | 91.89% | 94.59% | 97.30% | 97.30% |
| | 2016 | 31 | 100.00% | 100.00% | 96.77% | 96.77% | 96.77% | |
| | 2017 | 75 | 96.00% | 88.00% | 86.67% | 89.33% | | |
| | 2018 | 55 | 96.36% | 94.55% | 92.73% | | | |
| | 2019 | 104 | 96.15% | 91.35% | | | | |
| | 2020 | 168 | 97.02% | | | | | |
| | Average | | **96.69%** | **94.24%** | **92.02%** | **93.57%** | **97.04%** | **97.30%** |
| Out-of-State, 4-Yr Private | 2015 | 23 | 100.00% | 91.30% | 95.65% | 95.65% | 91.30% | 91.30% |
| | 2016 | 16 | 81.25% | 75.00% | 75.00% | 81.25% | 75.00% | |
| | 2017 | 23 | 91.30% | 82.61% | 91.30% | 82.61% | | |
| | 2018 | 13 | 100.00% | 92.31% | 92.31% | | | |
| | 2019 | 33 | 96.97% | 90.91% | | | | |
| | 2020 | 43 | 95.35% | | | | | |
| | Average | | **94.15%** | **86.43%** | **88.57%** | **86.50%** | **83.15%** | **91.30%** |

# Appendix-F. Retention Rates by College Category (Continued)

| Transferring College Category | Cohort | N (Count) | Retained 1st Yr (%) | Retained 2nd Yr (%) | Retained 3rd Yr (%) | Retained 4th Yr (%) | Retained 5th Yr (%) | Retained 6th Yr (%) |
|---|---|---|---|---|---|---|---|---|
| **TCSG - Technical College System of Georgia** | 2015 | <10 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| | 2017 | <10 | 100.00% | 75.00% | 75.00% | 75.00% | | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | Average | | **66.67%** | **58.33%** | **37.50%** | **37.50%** | **0.00%** | **0.00%** |
| **Out-of-State, 2-Yr Public** | 2015 | 56 | 94.64% | 87.50% | 85.71% | 83.93% | 85.71% | 85.71% |
| | 2016 | 30 | 86.67% | 93.33% | 90.00% | 90.00% | 93.33% | |
| | 2017 | 67 | 92.54% | 86.57% | 86.57% | 88.06% | | |
| | 2018 | 21 | 95.24% | 85.71% | 85.71% | | | |
| | 2019 | 32 | 93.75% | 96.88% | | | | |
| | 2020 | 85 | 95.29% | | | | | |
| | Average | | **93.02%** | **90.00%** | **87.00%** | **87.33%** | **89.52%** | **85.71%** |
| **Other - International** | 2015 | 22 | 95.45% | 95.45% | 95.45% | 100.00% | 100.00% | 100.00% |
| | 2016 | 27 | 96.30% | 88.89% | 92.59% | 85.19% | 92.59% | |
| | 2017 | 21 | 100.00% | 100.00% | 90.48% | 100.00% | | |
| | 2018 | 11 | 100.00% | 100.00% | 100.00% | | | |
| | 2019 | <10 | 100.00% | 100.00% | | | | |
| | 2020 | 11 | 100.00% | | | | | |
| | Average | | **98.63%** | **96.87%** | **94.63%** | **95.06%** | **96.30%** | **100.00%** |
| **Unknown** | 2015 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | |
| | Average | | **100.00%** | **100.00%** | **100.00%** | **100.00%** | **100.00%** | **100.00%** |

# Appendix-G Graduation Rates by Race/Ethnicity

| Race Ethnicity | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| Asian | 2015 | 147 | 41.50% | 75.51% | 84.35% | 90.48% | 90.48% |
| | 2016 | 174 | 31.03% | 69.54% | 86.21% | 89.66% | |
| | 2017 | 232 | 26.29% | 76.29% | 84.05% | | |
| | 2018 | 230 | 32.17% | 55.65% | | | |
| | Average | | **32.75%** | **69.25%** | **84.87%** | **90.07%** | **90.48%** |
| Amer Indian | 2017 | <10 | 0.00% | 0.00% | 0.00% | | |
| | 2018 | <10 | 50.00% | 50.00% | | | |
| | Average | | **25.00%** | **25.00%** | **0.00%** | | |
| Black | 2015 | 77 | 32.47% | 72.73% | 87.01% | 90.91% | 90.91% |
| | 2016 | 94 | 27.66% | 61.70% | 73.40% | 77.66% | |
| | 2017 | 75 | 30.67% | 64.00% | 76.00% | | |
| | 2018 | 54 | 27.78% | 46.30% | | | |
| | Average | | **29.64%** | **61.18%** | **78.81%** | **84.28%** | **90.91%** |
| Hispanic | 2015 | 71 | 33.80% | 73.24% | 88.73% | 90.14% | 91.55% |
| | 2016 | 77 | 27.27% | 71.43% | 85.71% | 89.61% | |
| | 2017 | 87 | 26.44% | 72.41% | 83.91% | | |
| | 2018 | 84 | 32.14% | 51.19% | | | |
| | Average | | **29.91%** | **67.07%** | **86.12%** | **89.88%** | **91.55%** |
| Pacific Islander | 2017 | <10 | 100.00% | 100.00% | 100.00% | | |
| | 2018 | <10 | 0.00% | 0.00% | | | |
| | Average | | **50.00%** | **50.00%** | **100.00%** | | |
| Two or More | 2015 | 32 | 46.88% | 75.00% | 87.50% | 87.50% | 87.50% |
| | 2016 | 28 | 21.43% | 64.29% | 78.57% | 82.14% | |
| | 2017 | 51 | 29.41% | 62.75% | 78.43% | | |
| | 2018 | 38 | 26.32% | 55.26% | | | |
| | Average | | **31.01%** | **64.32%** | **81.50%** | **84.82%** | **87.50%** |
| White | 2015 | 366 | 35.79% | 75.14% | 88.25% | 90.98% | 91.26% |
| | 2016 | 442 | 37.78% | 75.11% | 87.78% | 89.82% | |
| | 2017 | 437 | 30.43% | 71.40% | 84.44% | | |
| | 2018 | 373 | 33.24% | 52.01% | | | |
| | Average | | **34.31%** | **68.41%** | **86.82%** | **90.40%** | **91.26%** |

# Appendix-G Graduation Rates by Race/Ethnicity (Continued)

| Race Ethnicity | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| Non-Resident Alien | 2015 | 149 | 48.32% | 75.84% | 85.91% | 88.59% | 88.59% |
| | 2016 | 99 | 38.38% | 75.76% | 86.87% | 87.88% | |
| | 2017 | 154 | 37.66% | 73.38% | 77.92% | | |
| | 2018 | 58 | 39.66% | 56.90% | | | |
| | Average | | **41.01%** | **70.47%** | **83.57%** | **88.23%** | **88.59%** |
| Other or Unknown | 2016 | <10 | 0.00% | 0.00% | 0.00% | 0.00% | |
| | 2017 | <10 | 25.00% | 75.00% | 75.00% | | |
| | 2018 | <10 | 50.00% | 100.00% | | | |
| | Average | | **25.00%** | **58.33%** | **37.50%** | **0.00%** | |

# Appendix-H Graduation Rates for Transfer Students by Financial Aid

| Financial Aid | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| HOPE | 2015 | 257 | 39.69% | 77.43% | 89.49% | 90.27% | 91.05% |
| | 2016 | 313 | 34.82% | 74.76% | 87.54% | 90.73% | 0.32% |
| | 2017 | 322 | 24.22% | 69.25% | 81.68% | | |
| | 2018 | 271 | 30.63% | 49.82% | 0.37% | 0.37% | 0.37% |
| | Average | | **32.34%** | **67.82%** | **64.77%** | **60.46%** | **30.58%** |
| HOPE and ZELL | 2015 | 15 | 0.00% | 20.00% | 86.67% | 93.33% | 93.33% |
| | 2016 | 26 | 19.23% | 73.08% | 88.46% | 88.46% | |
| | 2017 | 12 | 16.67% | 50.00% | 66.67% | | |
| | 2018 | 13 | 15.38% | 23.08% | | | |
| | Average | | **12.82%** | **41.54%** | **80.60%** | **90.90%** | **93.33%** |
| Other or Unknown | 2015 | 263 | 43.35% | 73.00% | 82.51% | 85.93% | 85.93% |
| | 2016 | 209 | 35.89% | 68.42% | 80.38% | 81.82% | |
| | 2017 | 282 | 34.40% | 69.15% | 75.18% | | |
| | 2018 | 145 | 36.55% | 52.41% | | | |
| | Average | | **37.55%** | **65.75%** | **79.36%** | **83.88%** | **85.93%** |
| PELL | 2015 | 69 | 43.48% | 72.46% | 86.96% | 94.20% | 94.20% |
| | 2016 | 56 | 25.00% | 58.93% | 73.21% | 82.14% | |
| | 2017 | 58 | 37.93% | 81.03% | 84.48% | | |
| | 2018 | 32 | 31.25% | 50.00% | | | |
| | Average | | **34.42%** | **65.61%** | **81.55%** | **88.17%** | **94.20%** |
| PELL and HOPE | 2015 | 152 | 34.87% | 75.66% | 86.84% | 93.42% | 93.42% |
| | 2016 | 152 | 34.21% | 69.74% | 86.18% | 90.13% | |
| | 2017 | 171 | 33.33% | 71.93% | 85.38% | | |
| | 2018 | 159 | 26.42% | 50.31% | | | |
| | Average | | **32.21%** | **66.91%** | **86.13%** | **91.78%** | **93.42%** |
| PELL and ZELL | 2015 | 19 | 36.84% | 78.95% | 94.74% | 94.74% | 94.74% |
| | 2016 | 36 | 30.56% | 69.44% | 86.11% | 86.11% | |
| | 2017 | 52 | 28.85% | 82.69% | 86.54% | | |
| | 2018 | 55 | 43.64% | 69.09% | | | |
| | Average | | **34.97%** | **75.04%** | **89.13%** | **90.43%** | **94.74%** |

# Appendix-H Graduation Rates for Transfer Students by Financial Aid (Continued)

| Financial Aid | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| PELL, HOPE, and ZELL | 2015 | <10 | 0.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 14.29% | 42.86% | 71.43% | 71.43% | |
| | 2017 | <10 | 25.00% | 75.00% | 75.00% | | |
| | 2018 | <10 | 42.86% | 57.14% | | | |
| | Average | | **20.54%** | **68.75%** | **82.14%** | **85.72%** | **100.00%** |
| ZELL | 2015 | 65 | 33.85% | 84.62% | 93.85% | 93.85% | 93.85% |
| | 2016 | 116 | 38.79% | 82.76% | 93.10% | 93.10% | |
| | 2017 | 141 | 30.50% | 77.30% | 93.62% | 0.71% | 0.71% |
| | 2018 | 162 | 36.42% | 59.88% | | | |
| | Average | | **34.89%** | **76.14%** | **93.52%** | **62.55%** | **47.28%** |

# Appendix-I Graduation Rates by DDEP Transfer Pathway College

| DDEP Pathway College | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| **Agnes Scott College** | 2015 | <10 | 0.00% | 66.67% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 0.00% | 100.00% | 100.00% | 100.00% | |
| | 2017 | <10 | 50.00% | 50.00% | 50.00% | | |
| | 2018 | <10 | 50.00% | 75.00% | | | |
| | Average | | **25.00%** | **72.92%** | **83.33%** | **100.00%** | **100.00%** |
| **Berry College** | 2015 | <10 | 33.33% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | 14 | 64.29% | 100.00% | 100.00% | 100.00% | |
| | 2017 | 11 | 63.64% | 81.82% | 81.82% | | |
| | 2018 | <10 | 60.00% | 80.00% | | | |
| | Average | | **55.31%** | **90.45%** | **93.94%** | **100.00%** | **100.00%** |
| **Clark Atlanta University** | 2015 | <10 | 0.00% | 0.00% | 0.00% | 100.00% | 100.00% |
| | 2016 | <10 | 16.67% | 66.67% | 66.67% | 66.67% | |
| | 2017 | <10 | 0.00% | 50.00% | 100.00% | | |
| | Average | | **5.56%** | **38.89%** | **55.56%** | **83.33%** | **100.00%** |
| **Covenant College** | 2015 | <10 | 83.33% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 83.33% | 83.33% | 100.00% | 100.00% | |
| | 2017 | <10 | 100.00% | 100.00% | 100.00% | | |
| | 2018 | <10 | 75.00% | 75.00% | | | |
| | Average | | **85.42%** | **89.58%** | **100.00%** | **100.00%** | **100.00%** |
| **Elon University** | 2015 | <10 | 50.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 50.00% | 100.00% | 100.00% | 100.00% | |
| | 2017 | <10 | 100.00% | 100.00% | 100.00% | | |
| | Average | | **66.67%** | **100.00%** | **100.00%** | **100.00%** | **100.00%** |
| **Emory University** | 2015 | 19 | 52.63% | 78.95% | 89.47% | 89.47% | 89.47% |
| | 2016 | 16 | 62.50% | 87.50% | 93.75% | 93.75% | |
| | 2017 | 15 | 46.67% | 86.67% | 93.33% | | |
| | 2018 | <10 | 25.00% | 75.00% | | | |
| | Average | | **46.70%** | **82.03%** | **92.19%** | **91.61%** | **89.47%** |

# Appendix-I Graduation Rates by DDEP Transfer Pathway College (Continued)

| DDEP Pathway College | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| **Furman University** | 2018 | <10 | 100.00% | 100.00% | | | |
| | Average | | **55.58%** | **85.02%** | **92.19%** | **91.61%** | **89.47%** |
| **LaGrange College** | 2018 | <10 | 0.00% | 100.00% | | | |
| | Average | | **0.00%** | **100.00%** | | | |
| **Miami-Dade College*** | 2015 | 13 | 23.08% | 46.15% | 61.54% | 69.23% | 69.23% |
| | 2016 | <10 | 0.00% | 57.14% | 71.43% | 85.71% | |
| | 2017 | <10 | 20.00% | 60.00% | 60.00% | | |
| | Average | | **14.36%** | **54.43%** | **64.32%** | **77.47%** | **69.23%** |
| **Montgomery College Rockville** | 2018 | <10 | 0.00% | 20.00% | | | |
| | 2015 | <10 | 0.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 0.00% | 100.00% | 100.00% | 100.00% | |
| | 2017 | <10 | 50.00% | 100.00% | 100.00% | | |
| | Average | | **12.50%** | **80.00%** | **100.00%** | **100.00%** | **100.00%** |
| **Morehouse College** | 2015 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 0.00% | 80.00% | 80.00% | 80.00% | |
| | 2017 | <10 | 0.00% | 0.00% | 0.00% | | |
| | 2018 | <10 | 0.00% | 0.00% | | | |
| | Average | | **25.00%** | **45.00%** | **60.00%** | **90.00%** | **100.00%** |
| **Oglethorpe University** | 2015 | <10 | 0.00% | 66.67% | 100.00% | 100.00% | 100.00% |
| | 2017 | <10 | 0.00% | 66.67% | 83.33% | | |
| | 2018 | 11 | 63.64% | 63.64% | | | |
| | Average | | **21.21%** | **65.66%** | **91.67%** | **100.00%** | **100.00%** |

# Appendix-I Graduation Rates by DDEP Transfer Pathway College (Continued)

| DDEP Pathway College | Cohort | Count (N) | Graduated 2-Yrs (%) | Graduated 3-Yrs (%) | Graduated 4-Yrs (%) | Graduated 5-Yrs (%) | Graduated 6-Yrs (%) |
|---|---|---|---|---|---|---|---|
| Piedmont College | 2015 | <10 | 50.00% | 50.00% | 50.00% | 50.00% | 50.00% |
| | 2016 | <10 | 25.00% | 50.00% | 75.00% | 75.00% | |
| | 2017 | <10 | 50.00% | 100.00% | 100.00% | | |
| | 2018 | <10 | 50.00% | 100.00% | | | |
| | Average | | **43.75%** | **75.00%** | **75.00%** | **62.50%** | **50.00%** |
| Presbyterian College | 2018 | <10 | 100.00% | 100.00% | | | |
| | Average | | **100.00%** | **100.00%** | | | |
| Spelman College | 2015 | <10 | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |
| | 2016 | <10 | 0.00% | 100.00% | 100.00% | 100.00% | |
| | 2017 | <10 | 50.00% | 50.00% | 50.00% | | |
| | 2018 | <10 | 100.00% | 100.00% | | | |
| | Average | | **62.50%** | **87.50%** | **83.33%** | **100.00%** | **100.00%** |
| Wesleyan College | 2017 | <10 | 0.00% | 0.00% | 0.00% | | |
| | Average | | **0.00%** | **0.00%** | **0.00%** | | |
| Xavier University | 2016 | <10 | 50.00% | 100.00% | 100.00% | 100.00% | |
| | 2017 | <10 | 0.00% | 100.00% | 100.00% | | |
| | 2018 | <10 | 0.00% | 0.00% | | | |
| | Average | | **16.67%** | **66.67%** | **100.00%** | **100.00%** | |