

Fall 2018 - Spring 2019

Impact Study

Institution Type: HBCU

Enrollment: ~5,151

2016 Graduation Rate: 46.5%

Agenda



Upswing Usage Funnel & Demographic Overview



Breakdown & Analysis of Upswing User Performance



Gateway Courses & Recommendations



Next-Steps & Further Research



Ongoing Reporting & Discussion of Goals

A Student Used Upswing If They...



Completed at least one online tutoring session with an Upswing or College coach

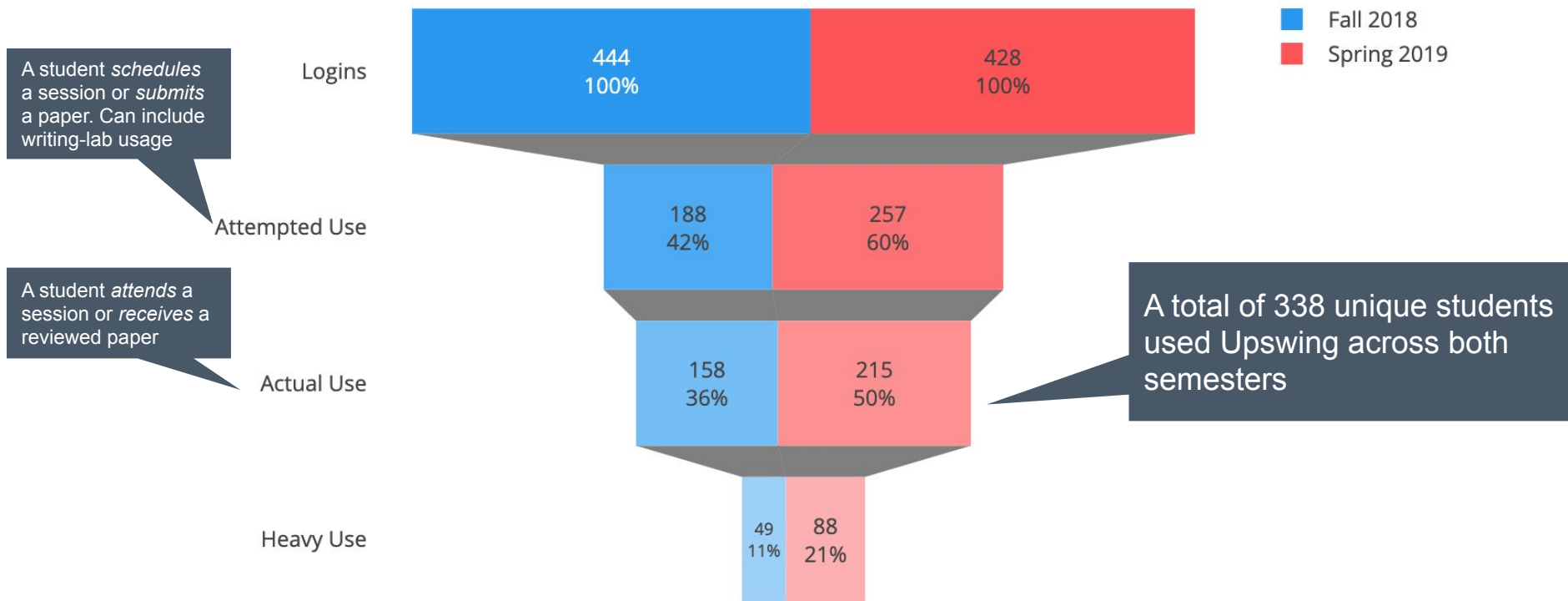


Completed at least one in-person tutoring session with a College coach



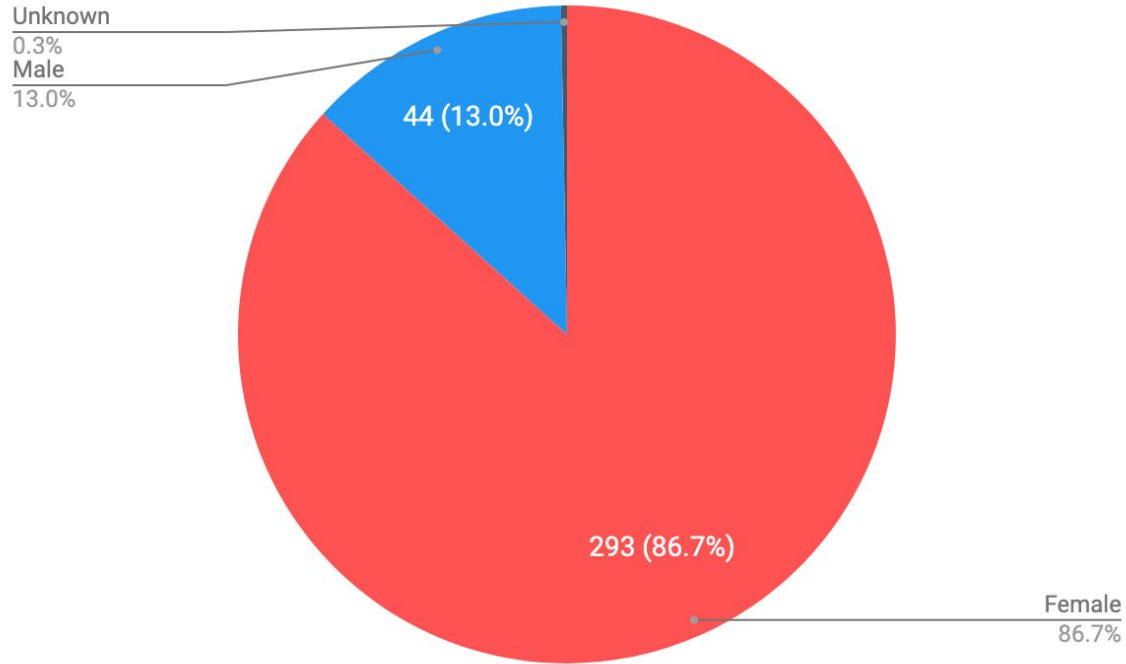
Submitted and received a reviewed paper via Upswing's asynchronous platform

Upswing Usage: Fall 2018 & Spring 2019 Funnel



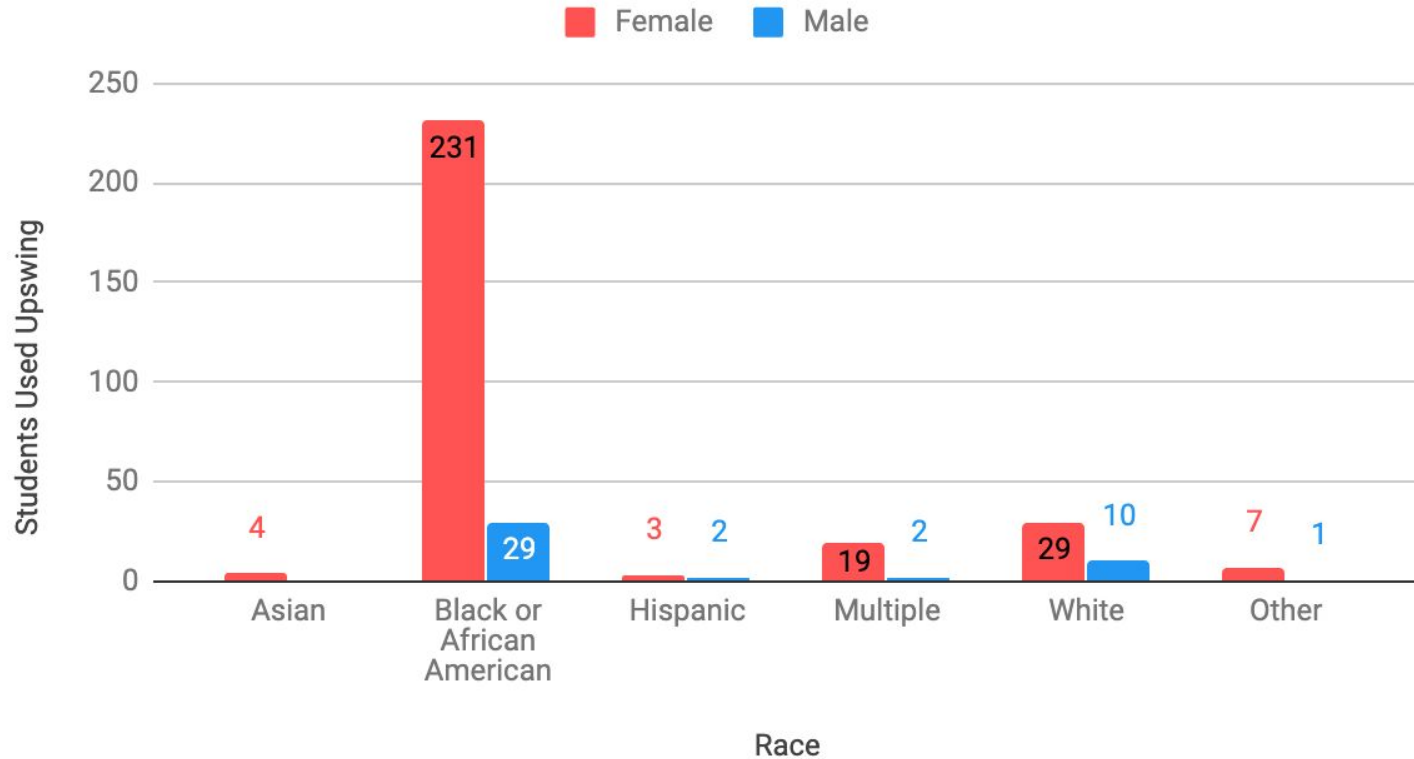
*Source: Upswing internal data + Grade Data given by College. Students were included in these counts if they existed in BOTH Upswing's system as well as College's data

Upswing Usage: Gender Breakdown



*Source: Upswing internal data + Grade Data given by College. Students were included in these counts if they existed in BOTH Upswing's system as well as College's data

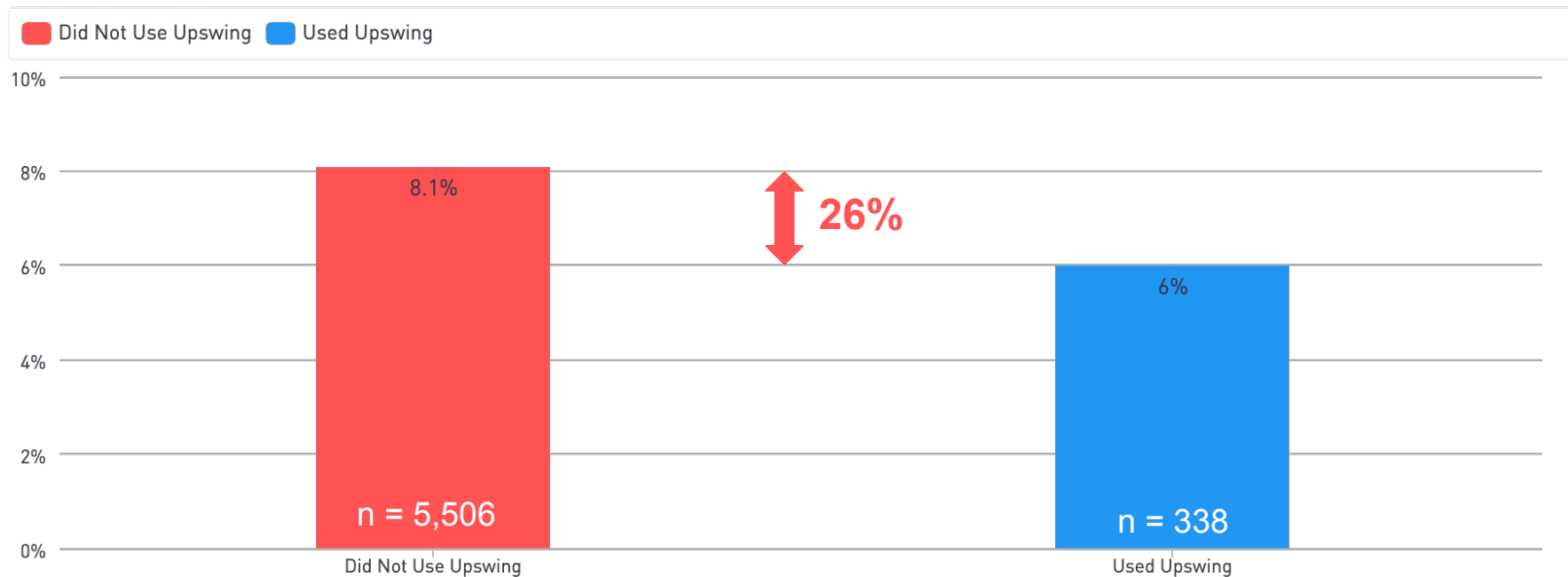
Upswing Usage: Gender & Race Breakdown



*Source: Upswing internal data + grade data given by College.
Students were included in these counts if they existed in BOTH
Upswing's system as well as College's data

Failure/Withdrawal Rates By Upswing Usage

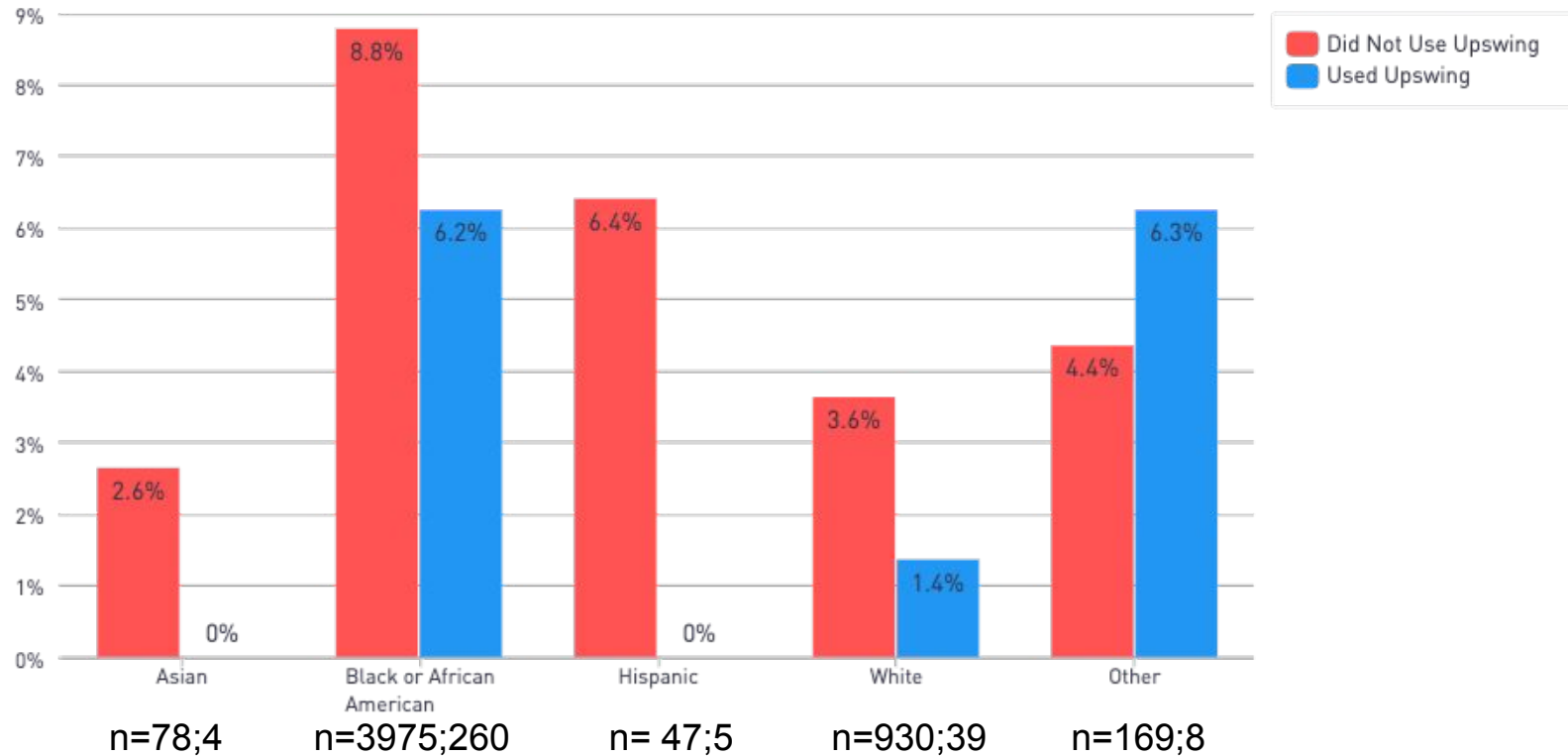
Failure/Withdrawal Rates



*Source: Upswing internal data + grade data given by College.
Students were included in these counts if they existed in BOTH
Upswing's database & College's data

Failure/Withdrawal Rates By Race

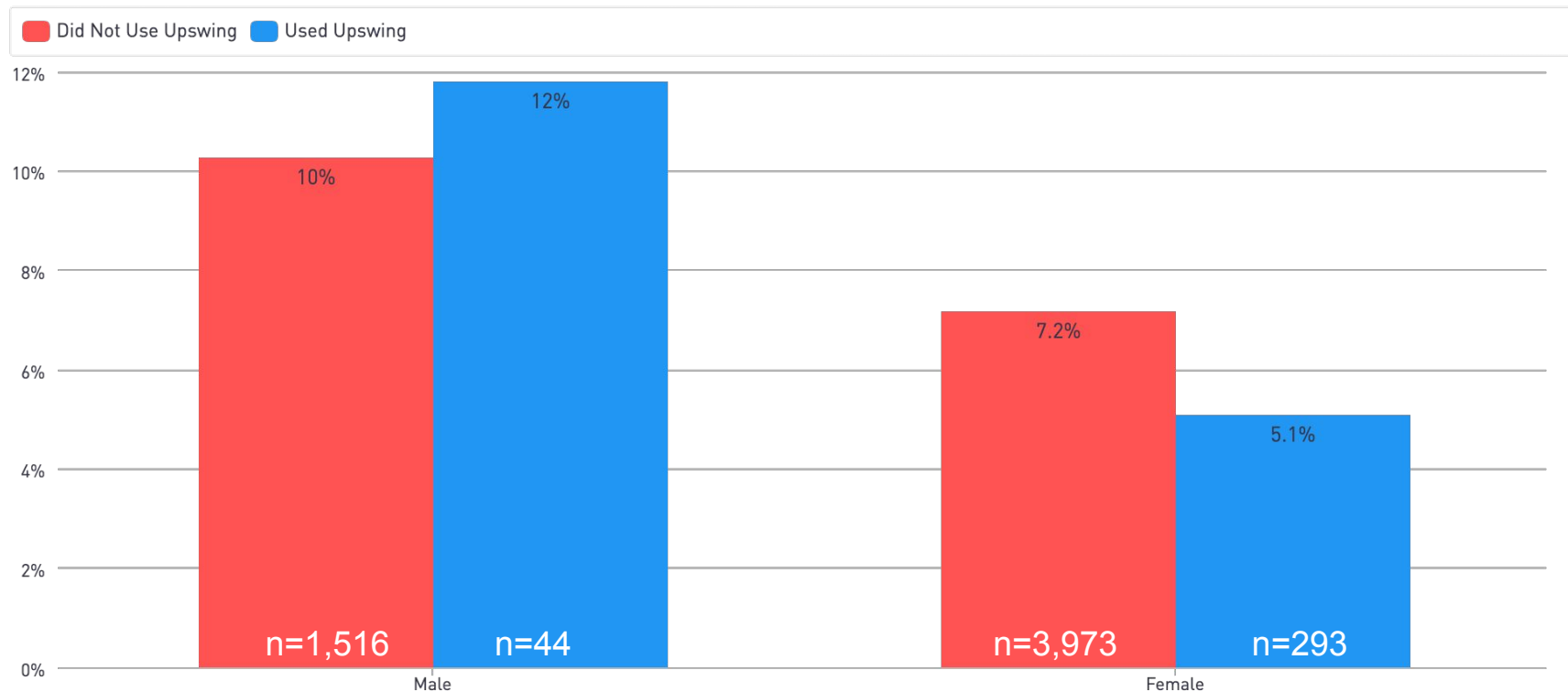
Failure/Withdrawal Rates By Race



*Students that identified with multiple races are not included in this graph

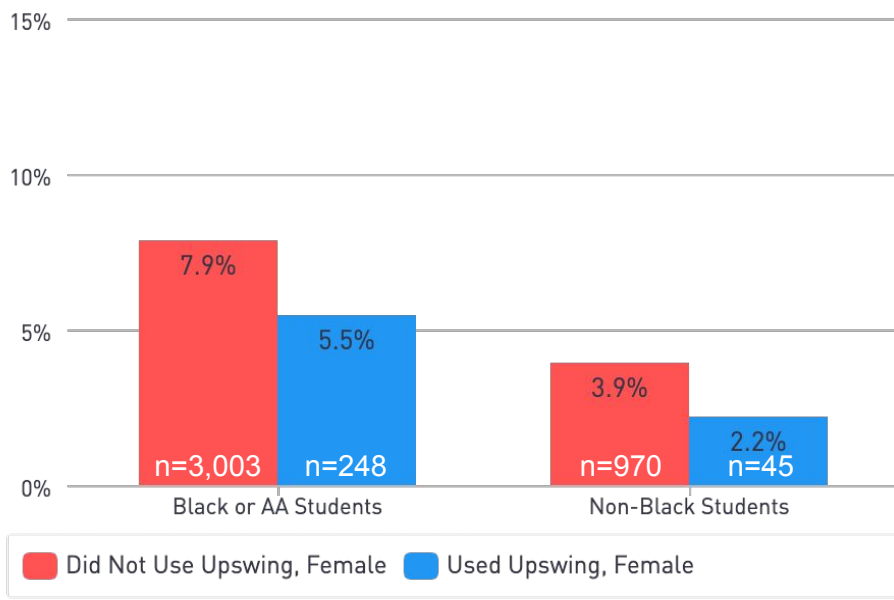
Failure/Withdrawal Rates By Gender

Failure/Withdrawal Rates - By Gender

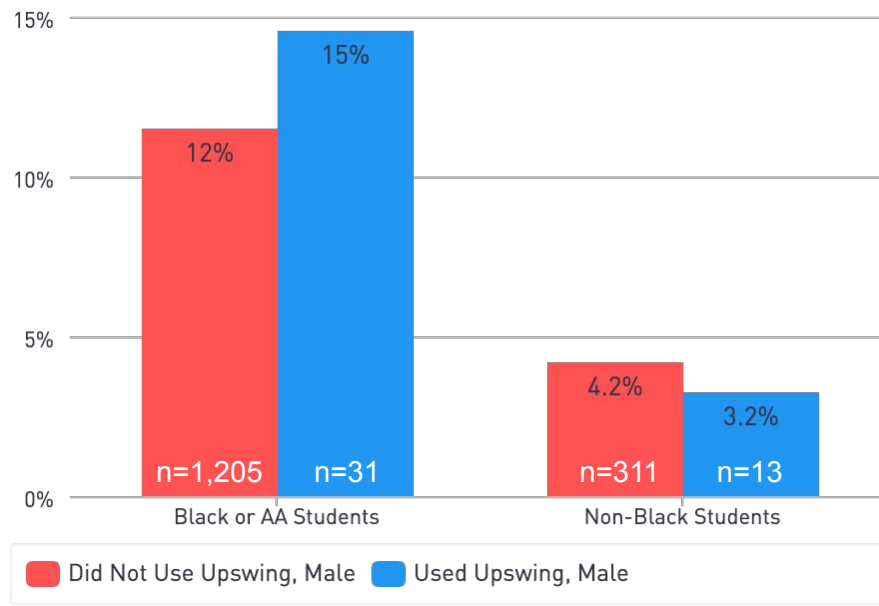


Failure/Withdrawal Rates Broken by Black & Non-Black Students

Female Students



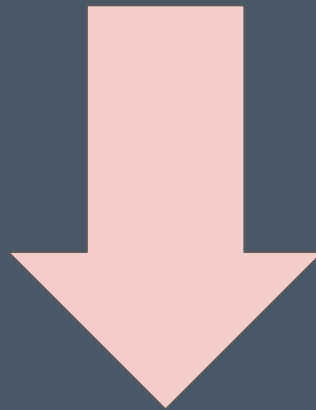
Male Students*



*For students that identified with multiple races, they were included in the "Black or AA" if any of the identified races were Black or African American

*Within race outcomes for Male students are not statistically significant.

**Are certain Upswing-using cohorts
higher/lower performing students to begin
with?**



Black or African American Female Students

USED UPSWING SPRING	AVG FALL TERM GPA	STUDENTS	GRADE COUNT
Did Not Use Upswing in Spring	+0.19 2.84	2385	12,358
Used Upswing in Spring	3.03	152	780

Black or African American Male Students*

USED UPSWING SPRING	AVG FALL TERM GPA	STUDENTS	GRADE COUNT
Did Not Use Upswing in Spring	-0.27 2.56	966	5,068
Used Upswing in Spring	2.29	19	107

- **Black Female students that used Upswing in the Spring had higher Fall GPA's**

- **Black Male students that used Upswing in the Spring had lower Fall GPA's***

*This finding is not statistically significant due to the low volume of usage from Black/AA Male students

*Only student that were present during both semesters were included in this analysis

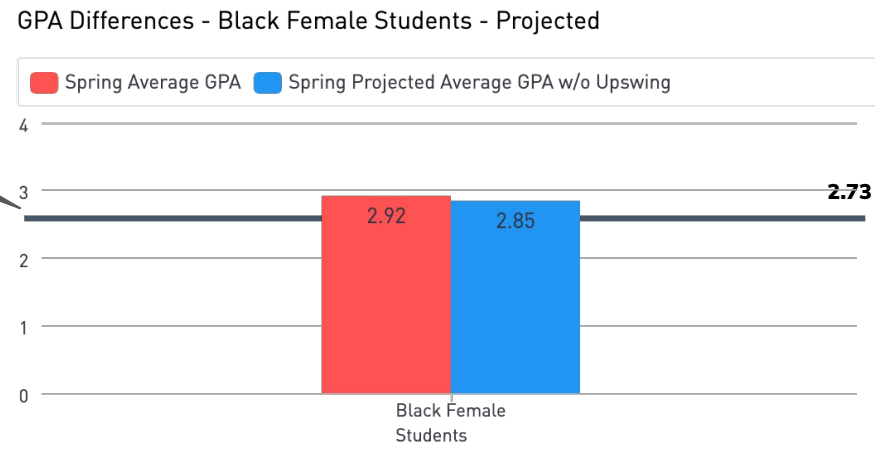
Black or African American Female Students

Would have likely performed 0.07 GPA points worse on average without Upswing

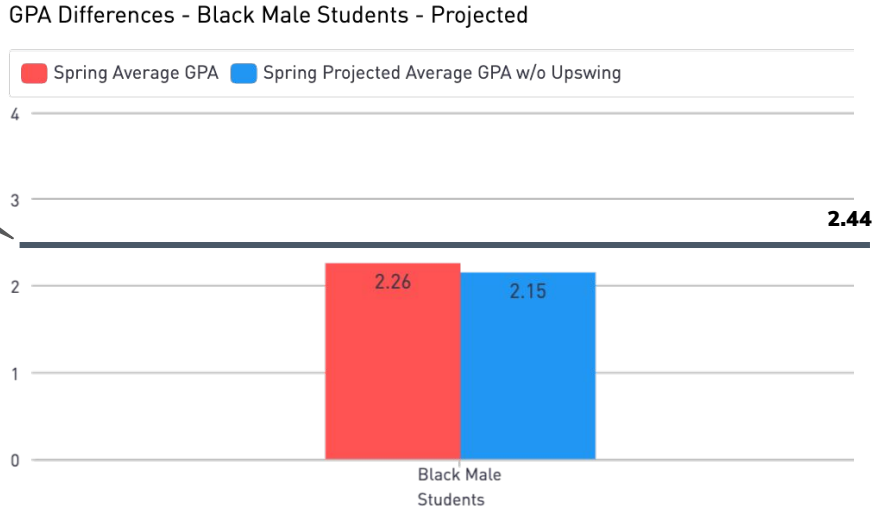
Black or African American Male Students

Would have likely performed 0.11 GPA points worse on average without Upswing

Average GPA for Black Female Students that did not use Upswing in the Spring (2.73)



Average GPA for Black Male Students that did not use Upswing in the Spring (2.44)



Do introductory, “gateway” courses have a cost?



Gateway Course Performance Relative to Average: Split by Semester

	FALL 2018			
COURSE TITLE ↕	GRADE COUNTS	AVG GRADE POINTS	TERM AVG OUTCOME	COURSE DELTA
College Algebra	488	2.31	2.91	-0.60
Elementary Statistics	315	2.26	2.91	-0.65
General Biology I	591	2.35	2.91	-0.56

Fall Upswing Usage
(students, sessions)

Algebra: 13, 25
Statistics: 9, 26
Biology: 5, 8

	SPRING 2019			
COURSE TITLE ↕	GRADE COUNTS	AVG GRADE POINTS	TERM AVG OUTCOME	COURSE DELTA
College Algebra	302	2.03	2.89	-0.86
Elementary Statistics	287	2.59	2.89	-0.30
General Biology I	174	1.68	2.89	-1.21

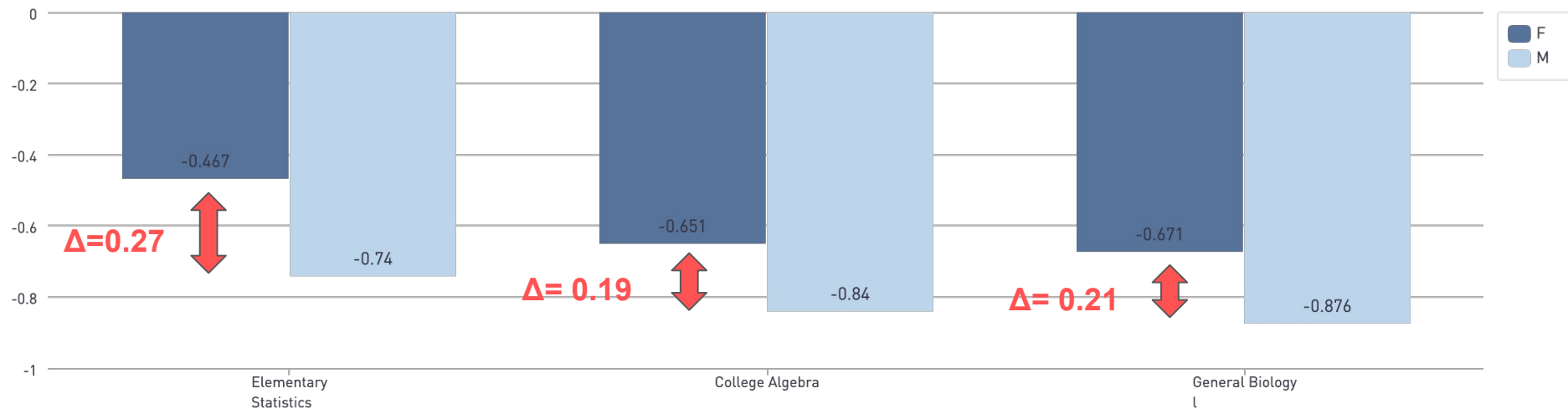
Spring Upswing Usage
(students, sessions)

Algebra: 4, 33
Statistics: 8, 44
Biology: 4, 3

*This dataset only includes grade outcomes that resulted in a letter grade. Withdrawals are not included.

Gateway Course Performance Relative to Average: Split by Gender

Grade Points - Grade Penalty Courses - By Gender



Student Persistence Per Semester

$$(88.60\% - 83.89\%) \times 158 = 7^*$$

Percent of Upswing Users Retained from Fall 2018 to Spring 2019	Percent of Non-Upswing Users Retained from Fall 2018 to Spring 2019	Number of Upswing Users in Fall 2018	Number of students retained as a result of Upswing
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As a result, Upswing has saved approximately \$23,807 dollars due to an increase in the rate of Fall to Spring persistence during the 2018 - 19 academic year.

$$7 \times \$3,401 = \$23,807$$

Students Retained as a result of Upswing	<input type="text"/> In-State Tuition	Total tuition dollars saved as a result of Upswing
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*This assumes this difference in retention rates is a reasonable estimate for retention due to Upswing usage

Next Steps?



Contract Active From: 2018-08-31 to 2019-09-01

1,504

Hours Purchased

Original Value: Contract Active From: 2018-08-31 to 2019-09-01

①

4,688

Total Undergraduate
Enrollment

SAML

Login Type

1,450

Students Ever
Logged In

726

Students Ever
Attempted to Use

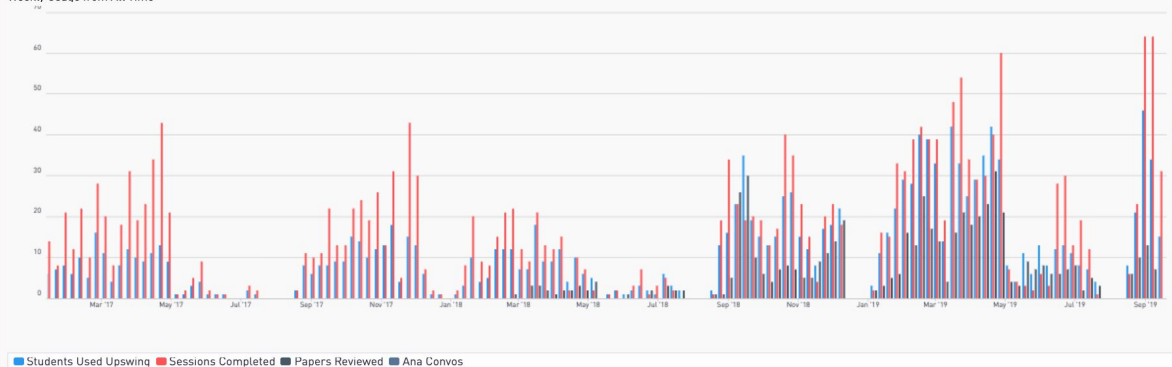
613

Students Ever Used

42%

All Time Login -->
Usage Percent

Weekly Usage from All Time



2,124

Total Completed Sessions all time

2,017

Upswing Coach Completed Sessions all time

107

School Coach Completed Sessions all time

Recap & Recommendations

The distribution of Upswing Users was disproportionately Female in relation to College's enrollment



Utilize programs that focus on Male students to increase awareness of academic support services

Upswing propels high-achievers ahead by 0.07 GPA points, and enables struggling students to do better by 0.11 GPA points on average



Inform academic advisors of support services available to students

Outcomes for “weed-out” courses are substantially lower than the average for other courses. Male students struggle in these courses more than Female students



Identify at-risk students early and require/incentivize two supplemental instruction sessions

For every 23 Upswing-Using students, one additional student persists

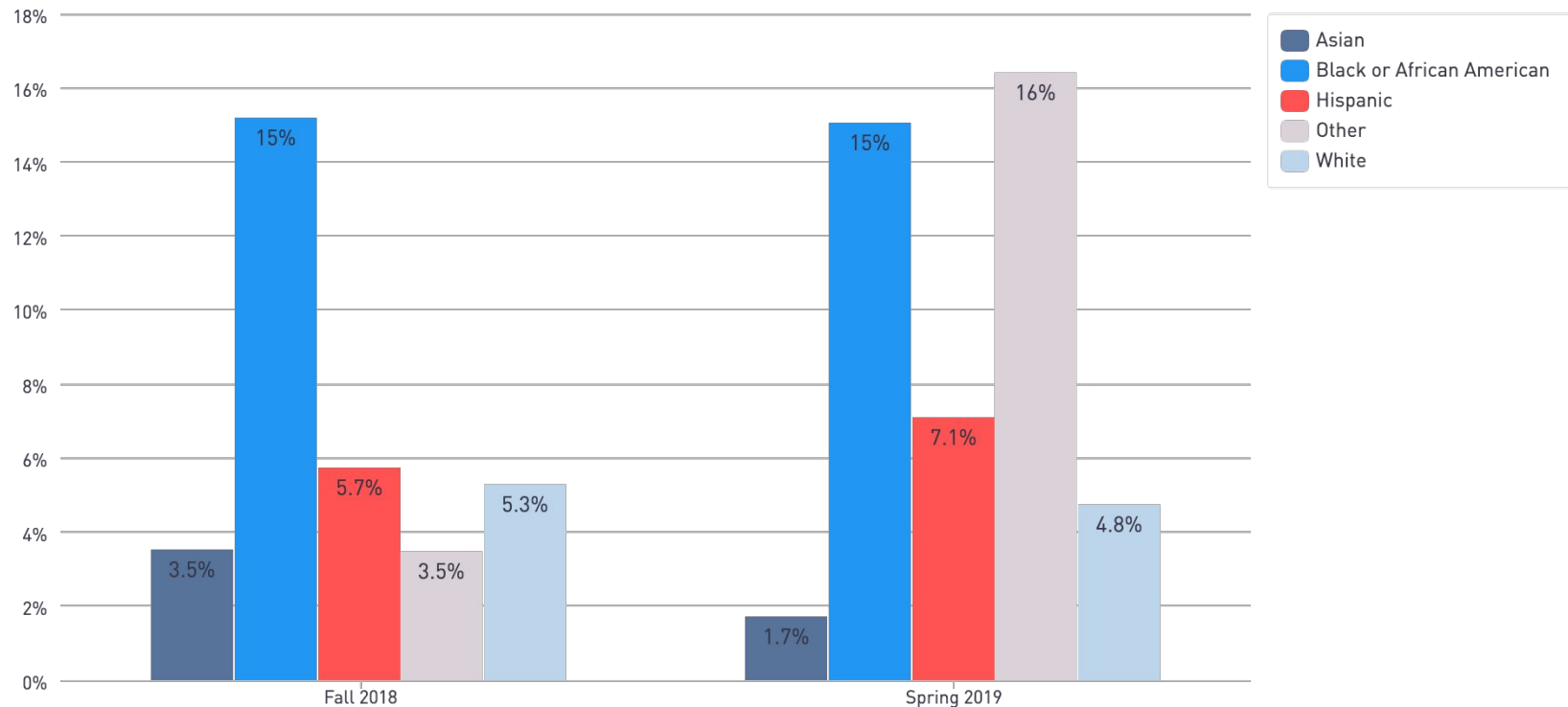


Modify enrollment data to include statistics on persistence, graduation, transfers and attrition

Appendix

Failure/Withdrawal Rates By Race - Regardless of Upswing Usage

Failure/Withdrawal Rates By Race



*Students that identified with multiple races are not included in this graph

Confidence Intervals for Predicted GPAs

Black or African American Female Students

95% Confidence Interval:
2.81 - 2.89

Projected Value:
2.85

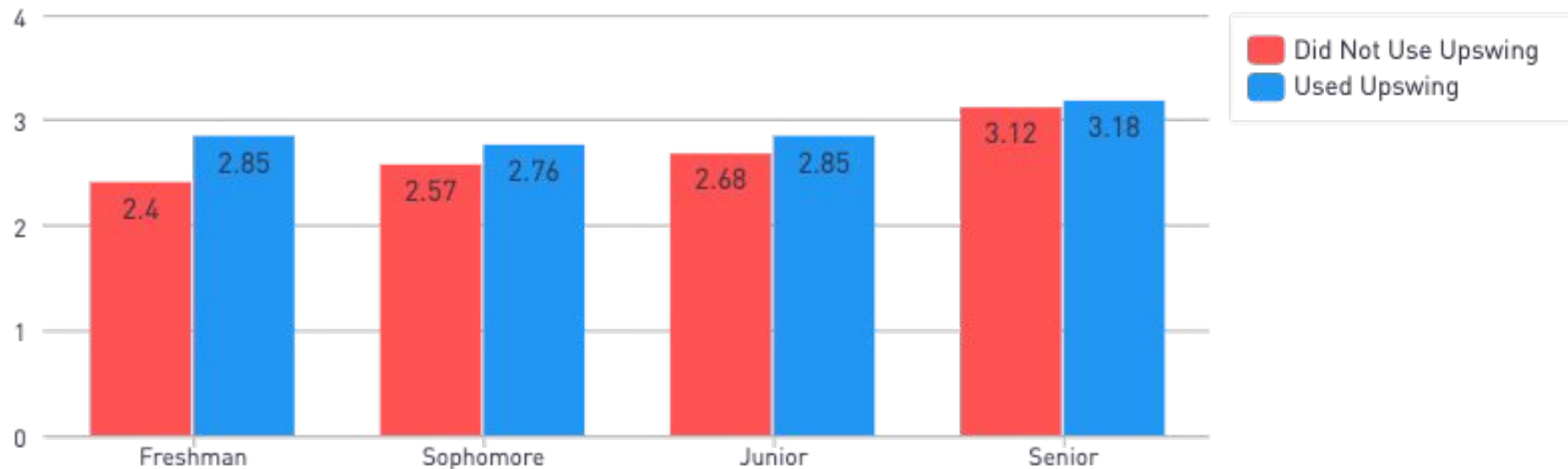
Black or African American Male Students

95% Confidence Interval:
2.02 - 2.42

Projected Value:
2.15

Average GPA Split by Student Classification

Average GPA by Upswing Usage & Classification

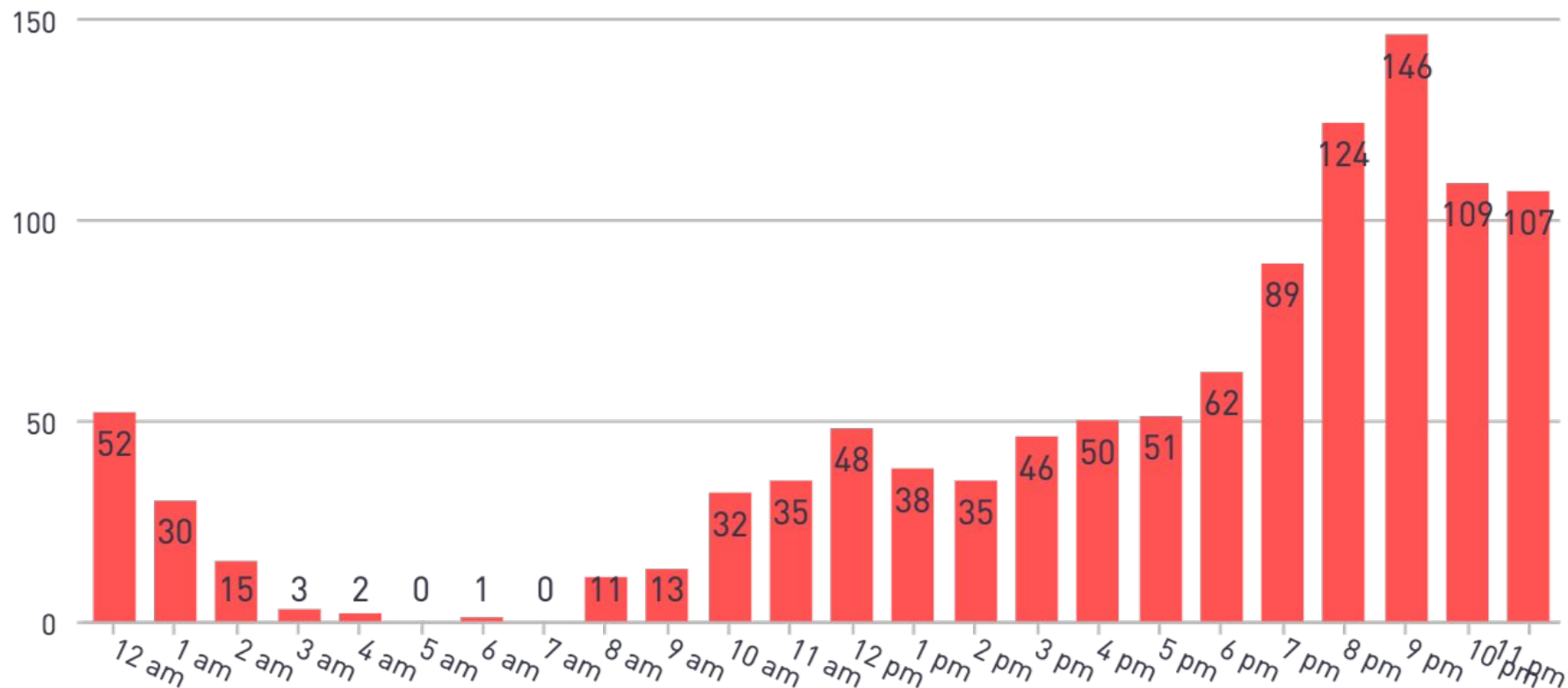


Freshman students that seek tutoring services perform far better than the average freshman

USED UPSWING SPRING	AVG FALL TERM GPA	AVG SPRING TERM GPA	STUDENTS	GRADE COUNT
Did Not Use Upswing in Spring	2.64	2.41	844	4,724
Used Upswing in Spring	3.14	2.81	36	193

+0.5

Tutoring Sessions By Time of Day: 2018-19 Academic Year



Tutoring Sessions By Day of Week: 2018-19 Academic Year

