

## **Attachment 31**

Multiparameter Comparison of UGS Students  
Who Graduated in Four Years Compared with  
the UGS Students From the Same Cohort Who  
Did Not

UGS Program Review  
Fall 2019



## UGS STUDENT COMPARISON

**Objective:** Compare characteristics of UGS students who obtained a degree within four years and those who did not after enrolling as a Freshman in Fall 2014.

### Data Sources:

*Fall 2014\_COLA Toolkit.csv*

- Students enrolled in UGS in Fall of 2014
- Filtered the data to students who started at 2014 as Freshman (based on the classification variable)

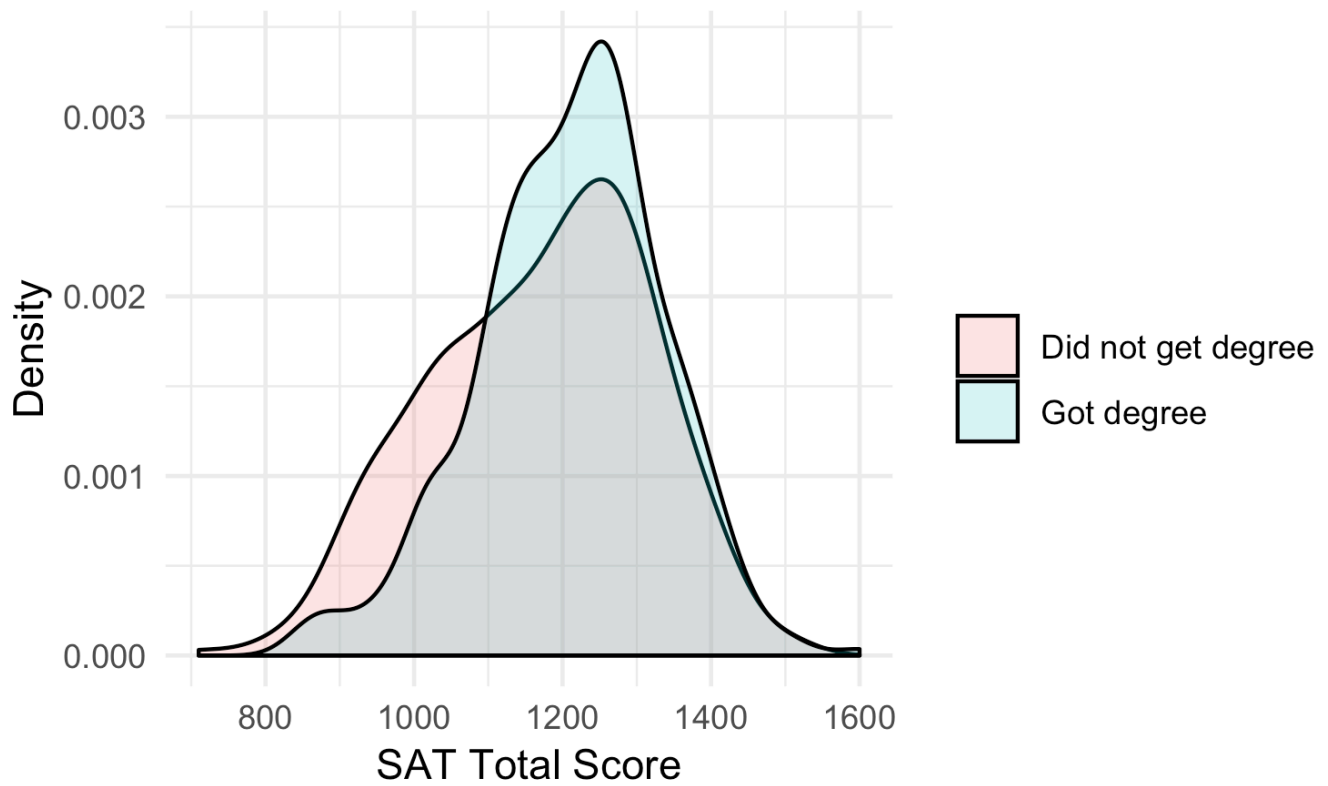
*DEGREES-registrar-sanger\_db-gte-20179.xlsx*

- Information on students who obtained a degree in 2017-18 year
- Matched this data to the previous dataset

### Operational definition of graduating in four years:

- If students had data in the degree dataset then they were indicated as “Got Degree”, if not, they were categorized as “Did not get degree”
  - o Some had multiple records – graduated with multiple majors. I only kept one record for them.
- This definition does not account for students who may have graduated earlier

## SAT



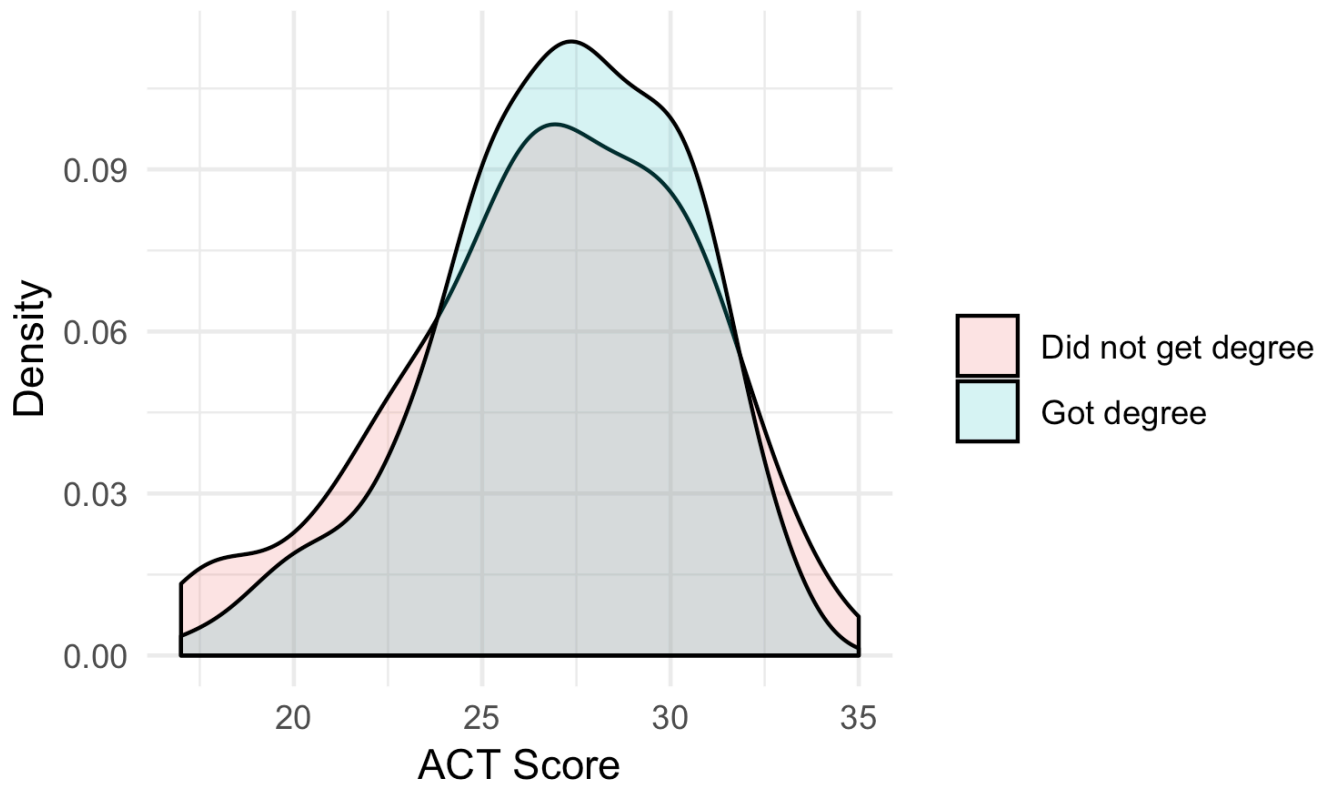
	<i>n</i>	<i>Mean SAT</i>	<i>SD SAT</i>
Did not get degree	371	1170.13	146.31
Got degree	350	1210.34	123.43

### *t*-test results:

$t(710.28) = -4.00, p < .05$

Those who got degree in four years had significantly higher SAT scores than those who did not.

## ACT



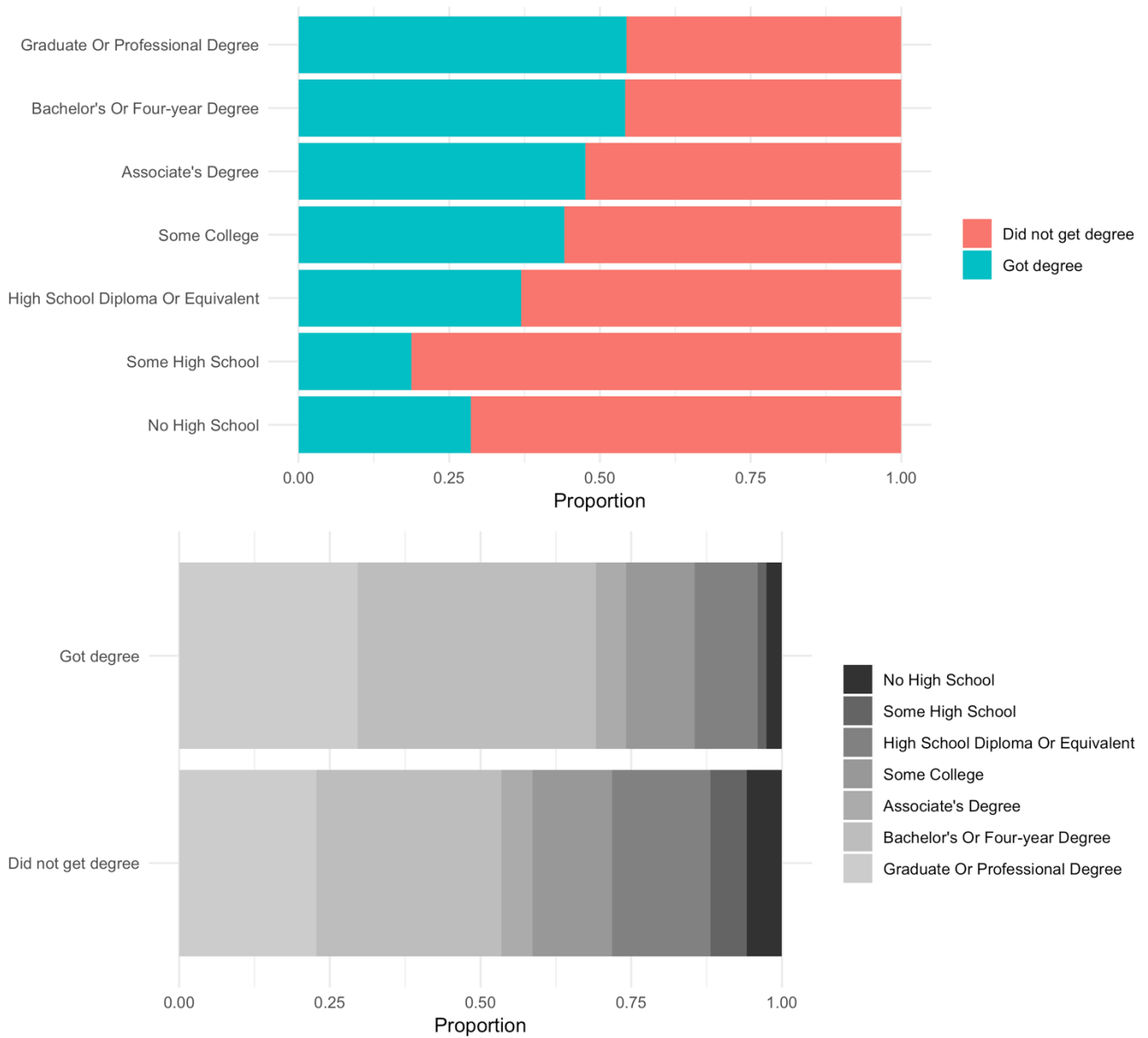
	<i>n</i>	<i>Mean ACT</i>	<i>SD ACT</i>
Did not get degree	246	26.73	3.89
Got degree	228	27.10	3.27

### ***t-test results:***

$t(467.49) = -1.12, p = .26$

No significant difference was found on ACT scores.

## FATHER'S EDUCATION

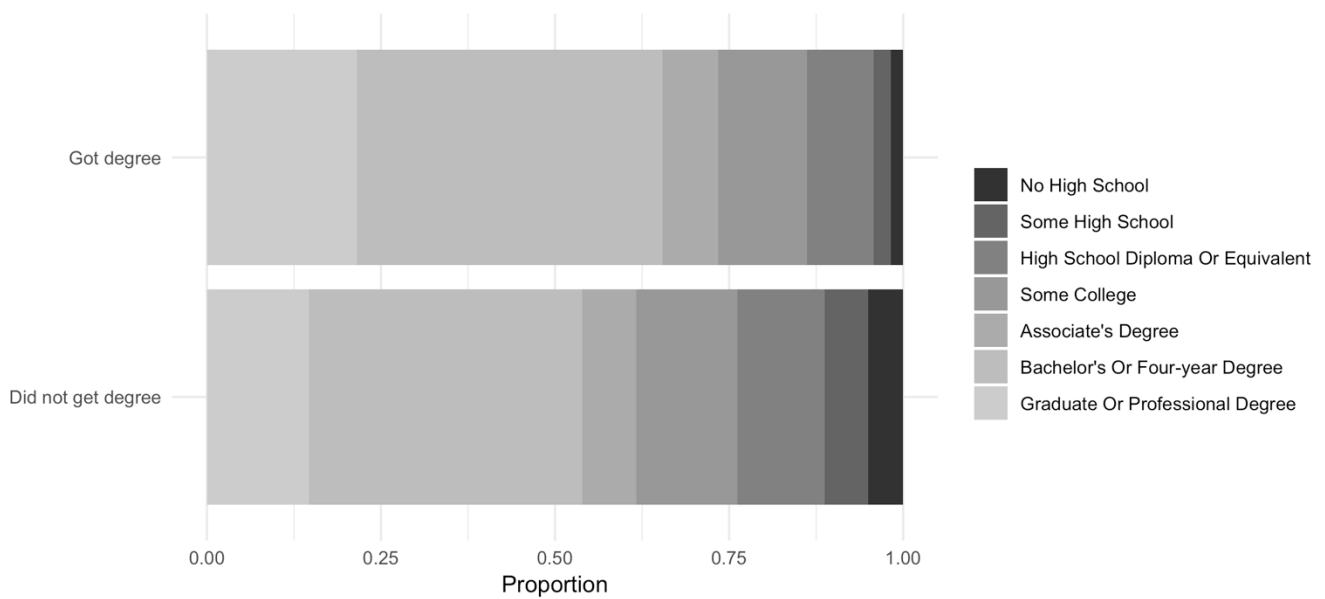
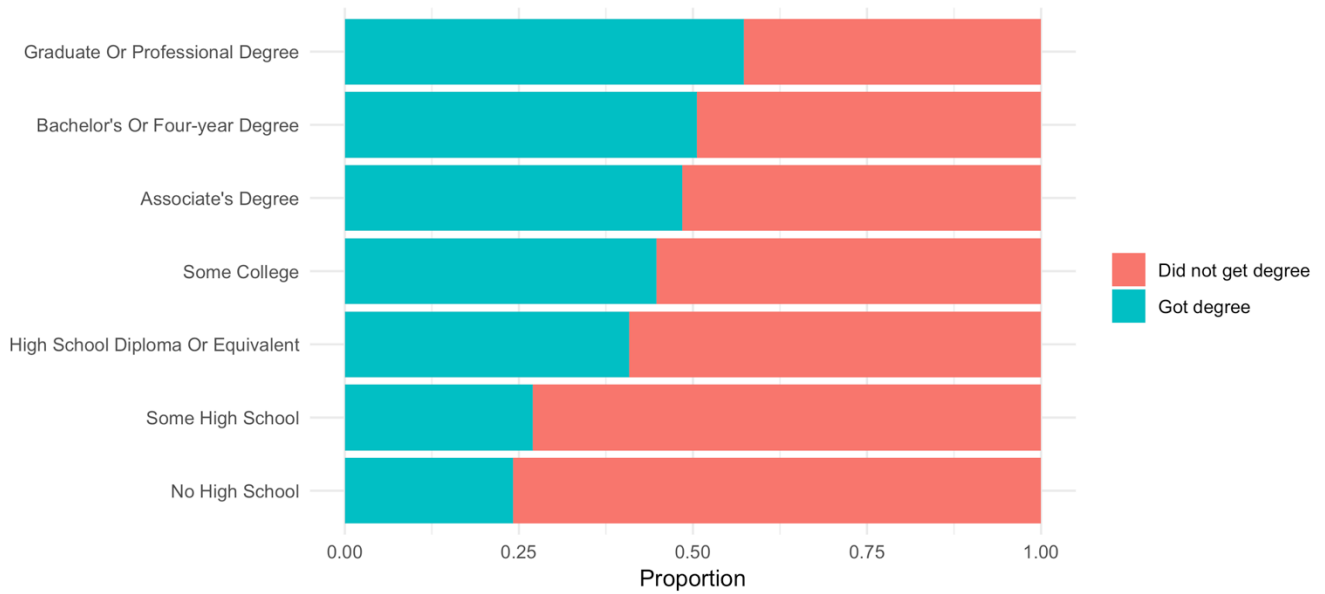


### Chi-Square test results:

$\chi^2 = 30.261, df = 6, p < .05$

Significant relationship between father's education level and getting a degree in four years. Higher proportion of students whose fathers had higher level education obtained college degree within four years.

## MOTHER'S EDUCATION

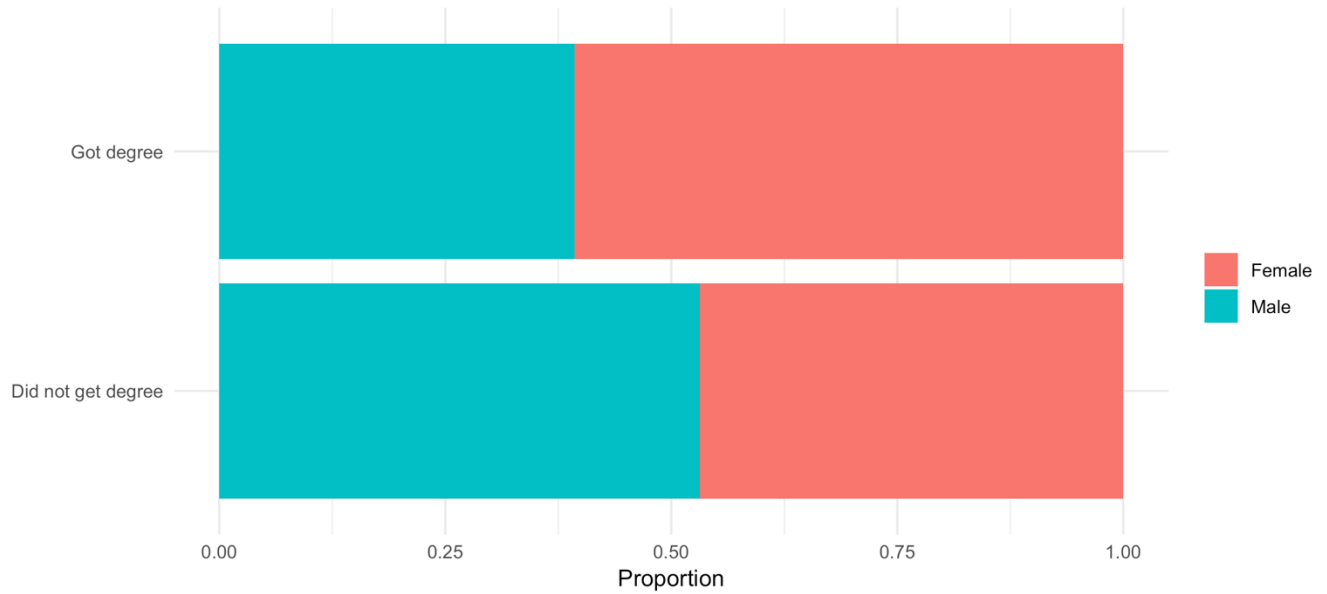


### Chi-Square test results:

$Chi-Square = 30.261, df = 6, p < .05$

Significant relationship between father's education level and getting a degree in four years. Higher proportion of students whose mothers had higher level education obtained college degree within four years.

## SEX



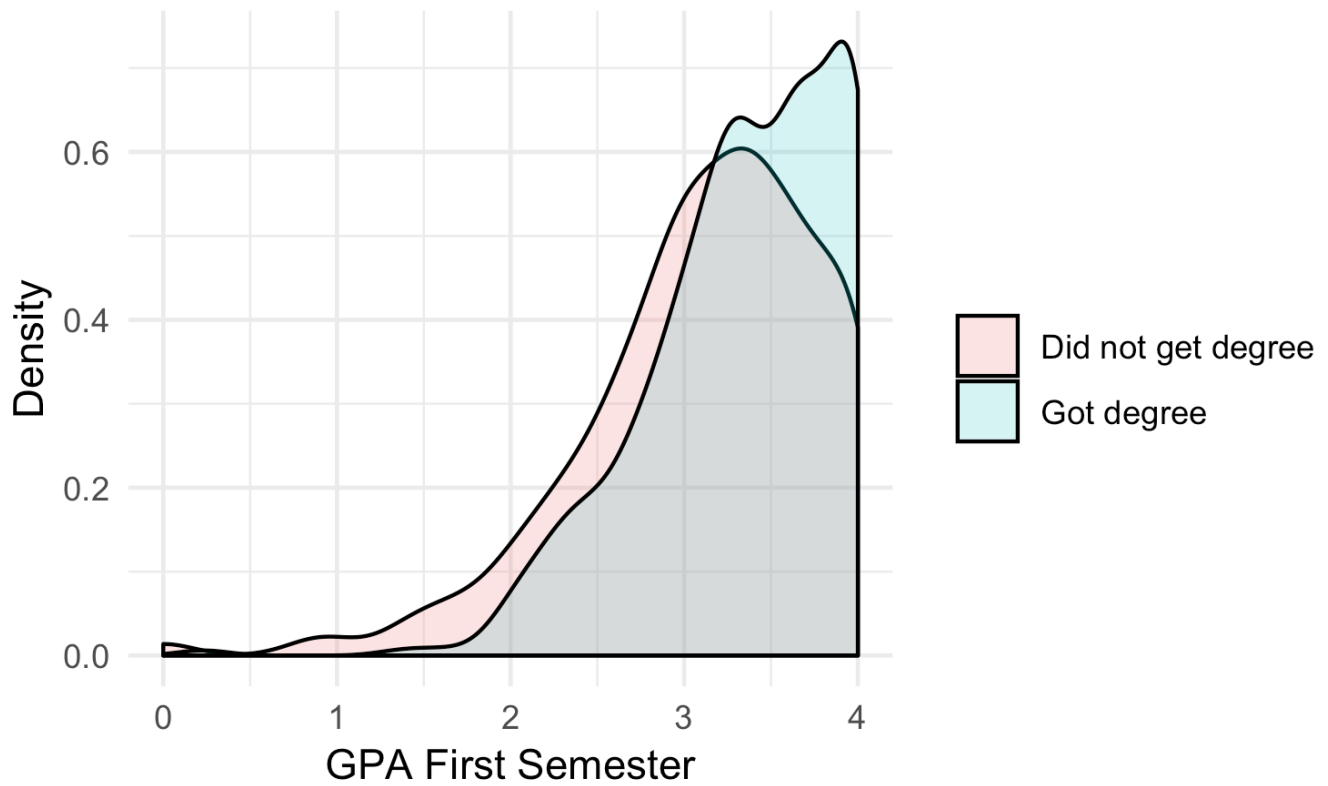
	<i>n Female</i>	<i>Proportion Female</i>
Did not get degree	485	0.47
Got degree	440	0.61

### Chi-Square test results:

*Chi-Square* = 17.302, *df* = 1,  $p < .05$

Significant relationship between sex and getting a degree in four years. 61% of those who obtained a degree within four years were female whereas 47% of those who did not obtain a degree in four years were female.

**GPA AT THE END OF THEIR FIRST SEMESTER ENROLLED (FALL 2014)**



	<i>n</i>	<i>Mean GPA</i>
Did not get degree	485	3.11
Got degree	440	3.35

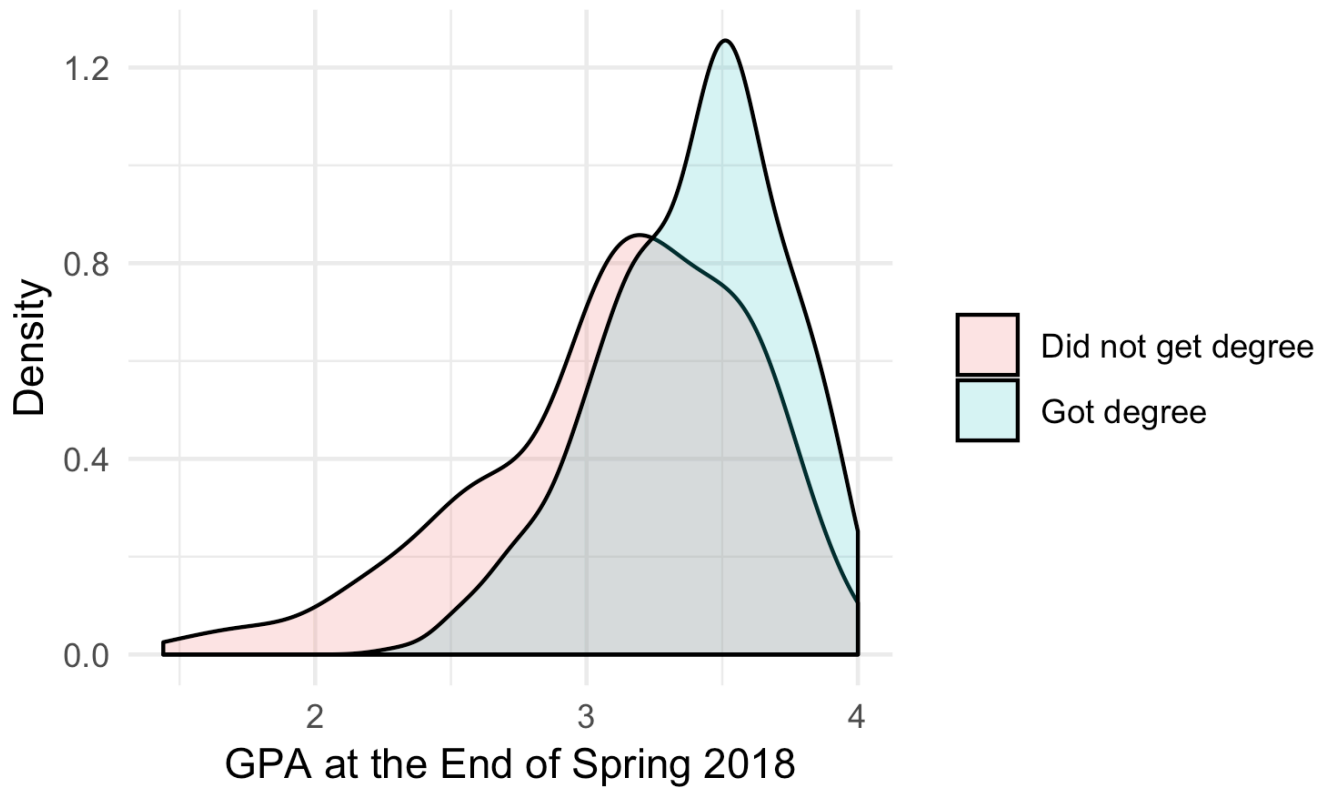
***t*-test results:**

$t(909.48) = -5.87, p < .05$

Those who got degree in four years had significantly higher first semester GPA.



## GPA AT THE END OF SPRING 2018



	<i>n</i>	<i>Mean GPA</i>
Did not get degree	285	3.11
Got degree	399	3.39

### ***t*-test results:**

$t(464.65) = -8.45, p < .05$

Those who got degree in four years had significantly higher GPA at the end of Spring 2018.

Table 1: Overall Grade Point Average (Overall)

