

Mar 28th, 11:30 AM - 1:30 PM

Factors Affecting Student Graduation Rates

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Recommended Citation

Luse, Kaleb, "Factors Affecting Student Graduation Rates" (2017). *Research in the Capitol*. 12.
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ENSURING STUDENT SUCCESS: DETERMINING FACTORS AFFECTING COLLEGE GRADUATION RATES

RESULTS

- High School GPA, students perception of their organizational skills and ability to pay, and whether a student is a first generation student are statistically significant when determining the likelihood of graduating.
- Students who are not first generation students have about 1.4 times the odds of graduating as their first generation counterparts.
- A 1 unit increase in a given student's GPA increases the odds of that student graduating by a factor of almost 5.



QUESTION

What factors make a student more or less likely to graduate from college?

BACKGROUND

- United States government has become increasingly interested with graduation rates.¹
- High school GPA is the best single predictor of whether a student will graduate.²
- SAT/ACT scores have also been shown to be significant in predicting whether a student will graduate.³
- Merit-based scholarships have positive relation to the likelihood a student will graduate but need-based scholarships have a negative effect.⁴

SURVEY & METHODS

- MapWorks survey given to 1900 incoming freshman
- Data obtained from a University in the Midwest
- Results obtained using a logit regression with robust standard errors
- Other tests ran to test for the presence of multicollinearity

REFERENCES

¹ Spellings, M. (2006). *A Test of Leadership: Charting the Future of U.S. Higher Education*. Jessup: Education Publications Center.

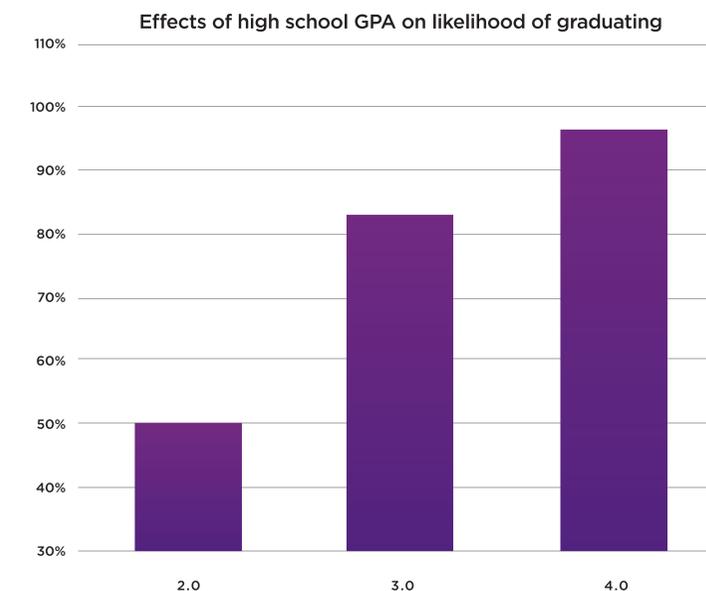
² Astin, A. W. (1993). *What Matters in College*. San Francisco: Jossey-Bass.

³ Zhang, G., Anderson, T., Ohland, M., & Thorndyke, B. (2004). Identifying Factors Influencing Engineering Student Graduation: A Longitudinal and Cross Institutional Study. *Journal of Engineering Education*, 313 - 320.

⁴ Astin, A. W. (1975). *Preventing Students from Dropping Out*. San Francisco: Jossey-Bass.



Do students perceptions affect their ability to graduate college?



CONCLUSIONS

- High School GPA still the single best predictor of a student likelihood of graduating.
- First generation students are less likely to graduate, likely due to less resources
- Students who are confident in organizational skills like managing time are more likely to graduate
- Students perceptions on their ability to pay has an impact on whether they will graduate or not