

## AN ANALYSIS OF S-STEM STUDENT SUCCESS AFTER TWO YEARS

### FOREWARD

See foreword from prior reports.

### METHODOLOGY

The data presented here comes primarily from IWU's Colleague database. OIR used Rapid Insight software for data collection and formatting, and entered data into the tables by hand. Tableau was used to generate the map visual.

This report benchmarks the S-STEM program students against two other groups:

- *R-STEM (Regular STEM)*: Students who are in the same majors (Biology, Biochemistry, Chemistry, or Physics), but are not part of the S-STEM program.
- *Non-STEM*: Students who are not one of the four STEM majors of Biology, Biochemistry, Chemistry or Physics.
  - Note: Secondary education majors attached to a STEM major are combined with their specialty area. Thus a Biology Education major will simply be in the Biology category.

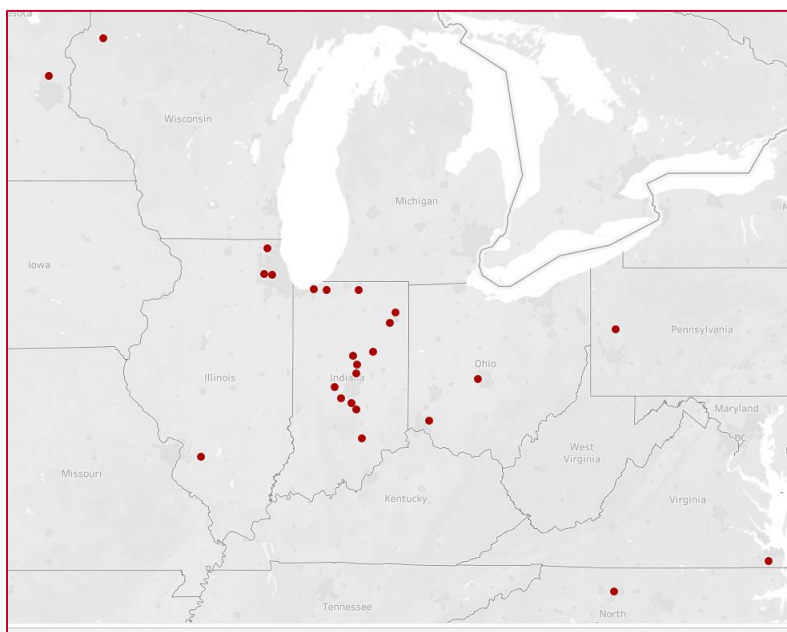
All students in this study are part of the Fall 2016 or Fall 2017 first-time freshmen cohorts.

### RESULTS

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#### *Home Locations of S-STEM Students*

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## Part Two: Overall Second-Year Student Success Outcomes

	S-STEM <i>N=26</i>	R-STEM <i>N=30</i>	Non-STEM <i>N=1,415</i>
1 <sup>st</sup> to 2 <sup>nd</sup> Year Retention Rate	96.1%	76.9%	78.2%
1 <sup>st</sup> to 3 <sup>rd</sup> Year Retention Rate*	90.0%	71.4%	68.8%
Mean First Year GPA	3.48	3.12	3.20
Mean Second Year GPA	3.31	3.20	3.34
Mean Cumulative GPA (as of August 2019)	3.34	2.87	3.09

\*Note 1: The 1<sup>st</sup>-3<sup>rd</sup> Yr. retention rates only include the 2016 cohort, since the 2017 cannot be measured until Fall 2019.

\*Note 2: Retention is defined as the rate at which the students returned the following semester/year. It does not measure if they stayed in the major.

## Part Three: Mean GPA's by Major

Major	1st-Year GPA		2nd-Year GPA		Cumulative GPA	
	S-STEM	R-STEM	S-STEM	R-STEM	S-STEM	R-STEM
Biology	3.24	3.01	3.02	3.05	3.18	2.76
Biochemistry	3.53	3.26	3.35	n/a	3.50	n/a
Chemistry	3.66	3.31	3.62	3.50	3.69	3.37
Physics	3.77	3.97	3.21	3.64	3.42	3.76
Non-STEM	3.20		3.34		3.09	