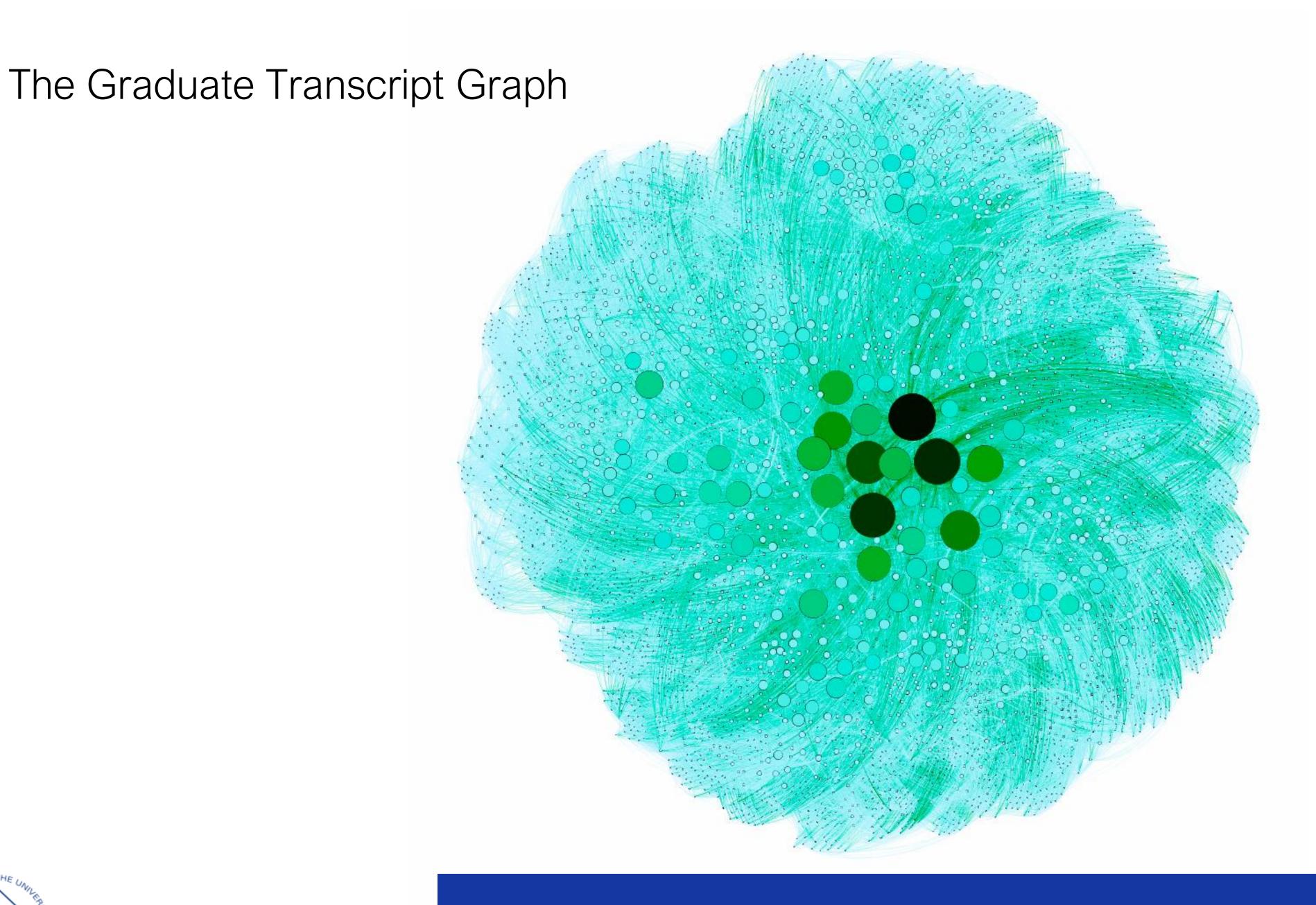
Data, Cognitive Science and Bespoke Education

Dr. Tristan Denley

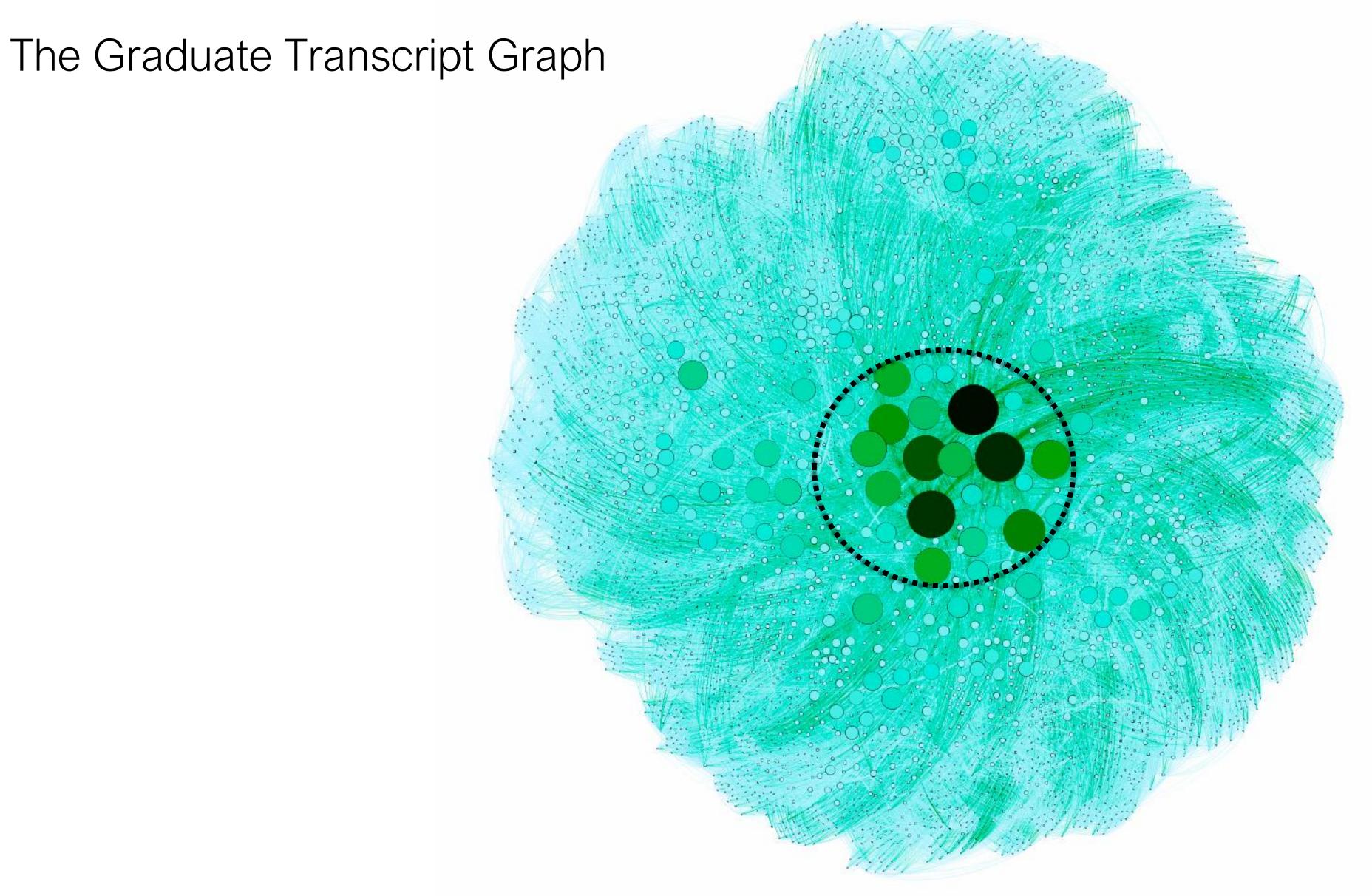
Executive Vice Chancellor for Academic Affairs and Chief Academic Officer
University System of Georgia
Tristan.Denley@usg.edu
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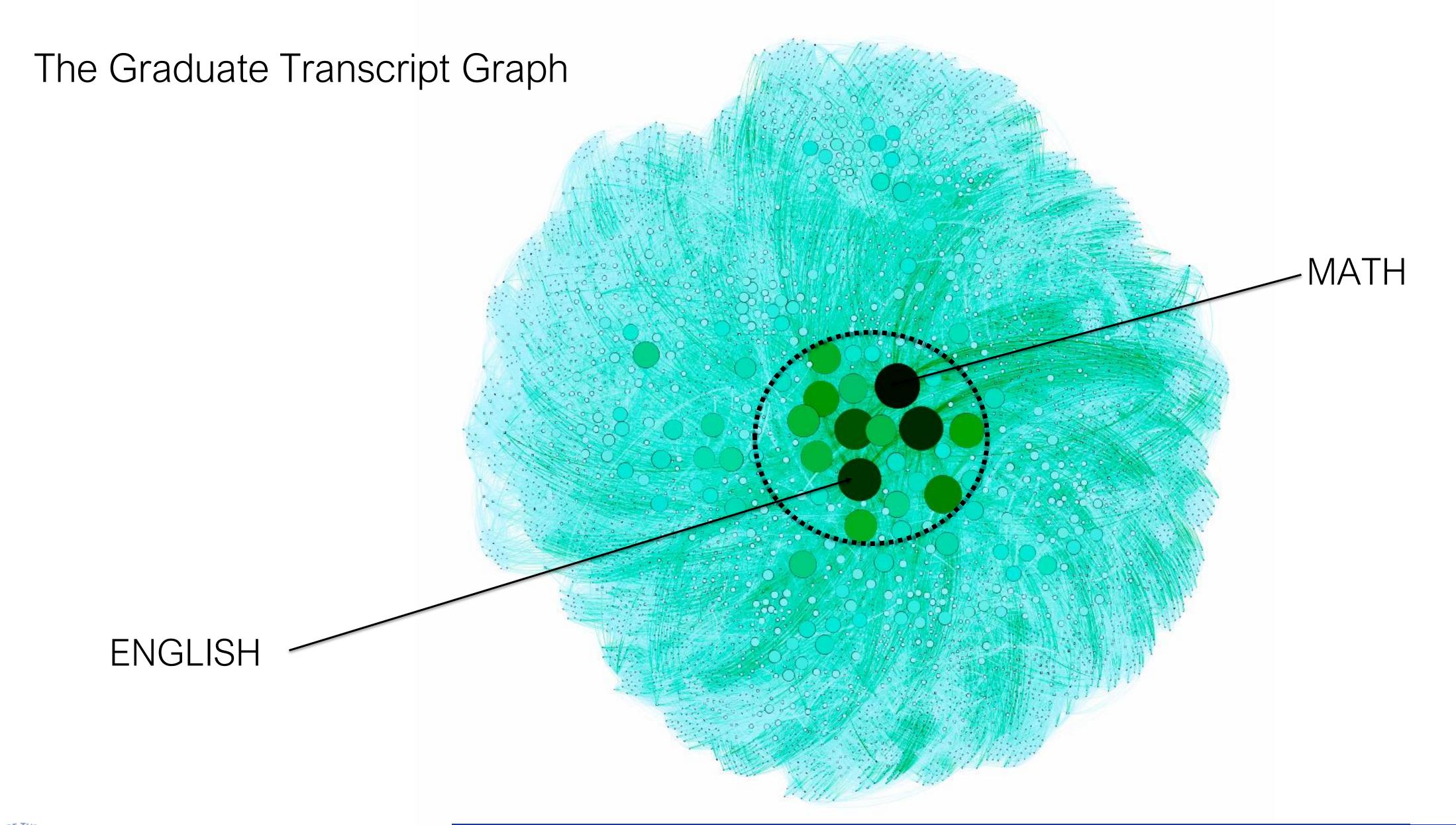
WHAT DATA SAYS ABOUT THE PATHWAYS



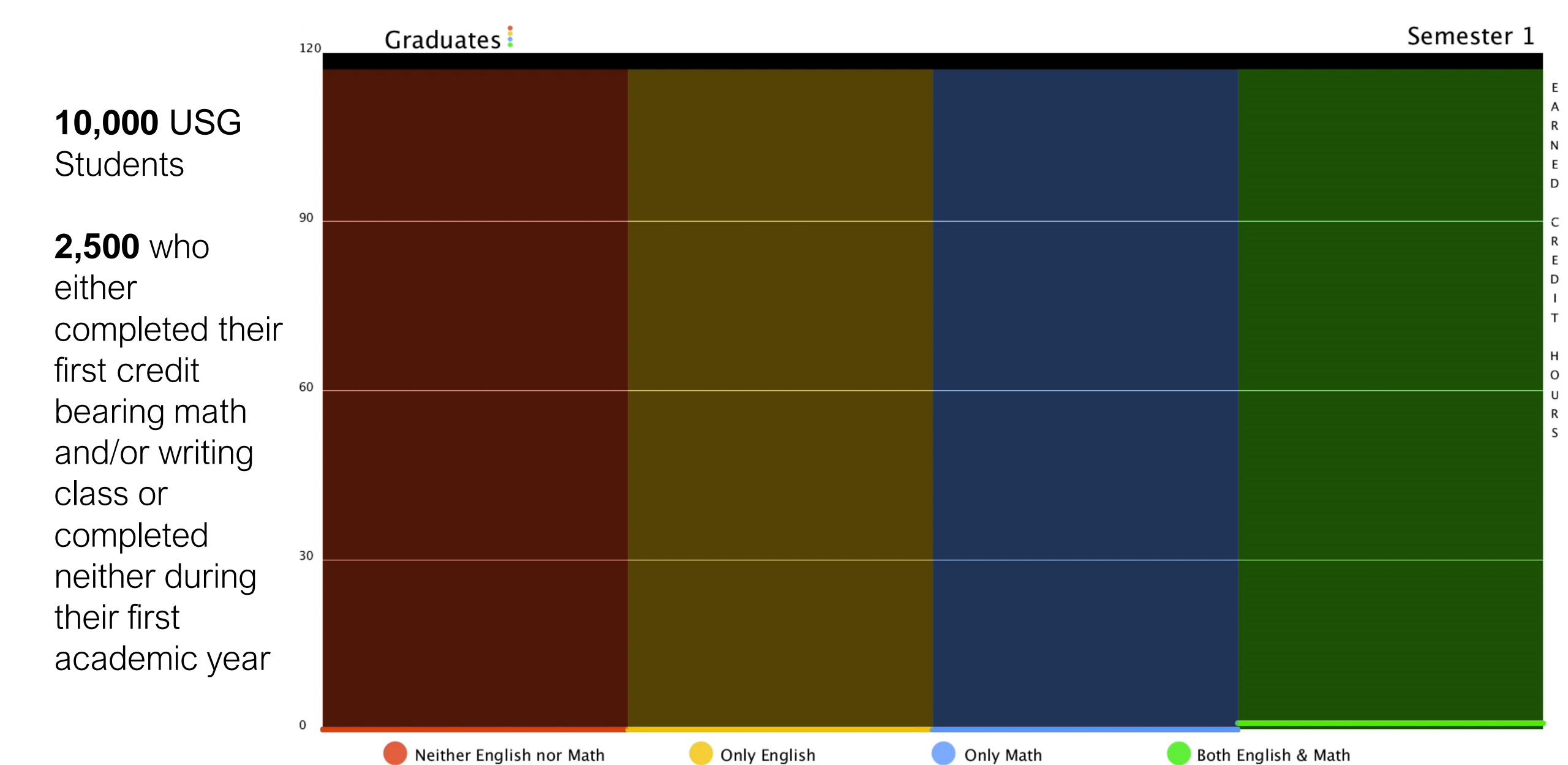








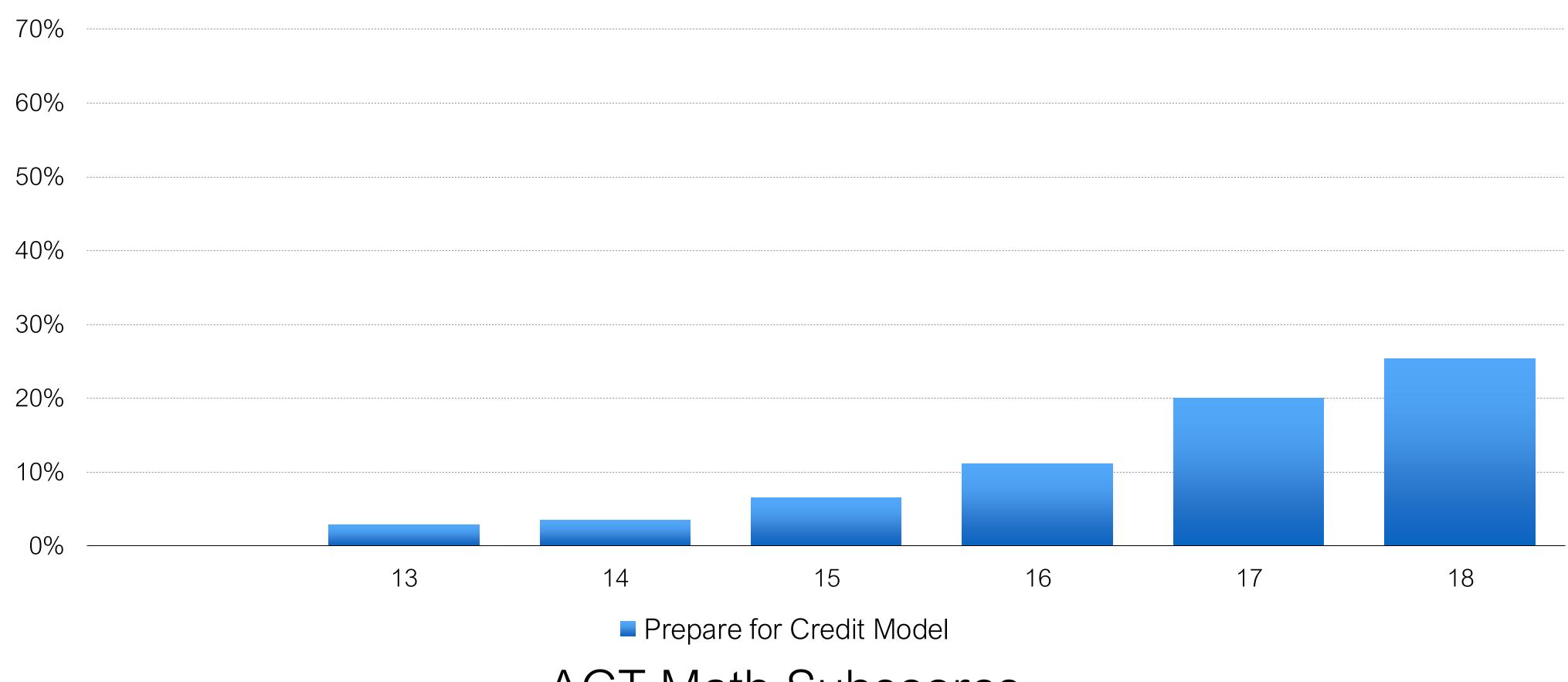








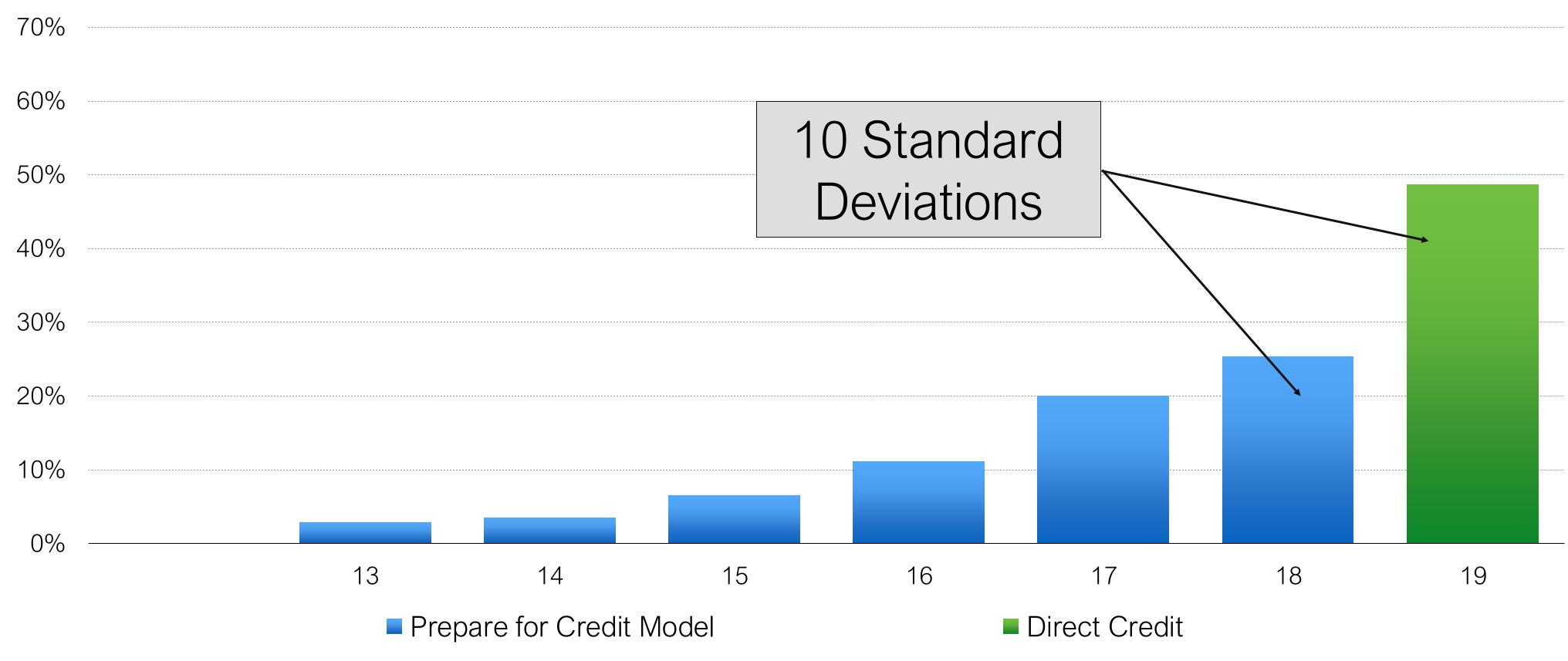
System-wide Math Completion for students beginning in Developmental Mathematics







System-wide Math Completion for students beginning in Developmental Mathematics

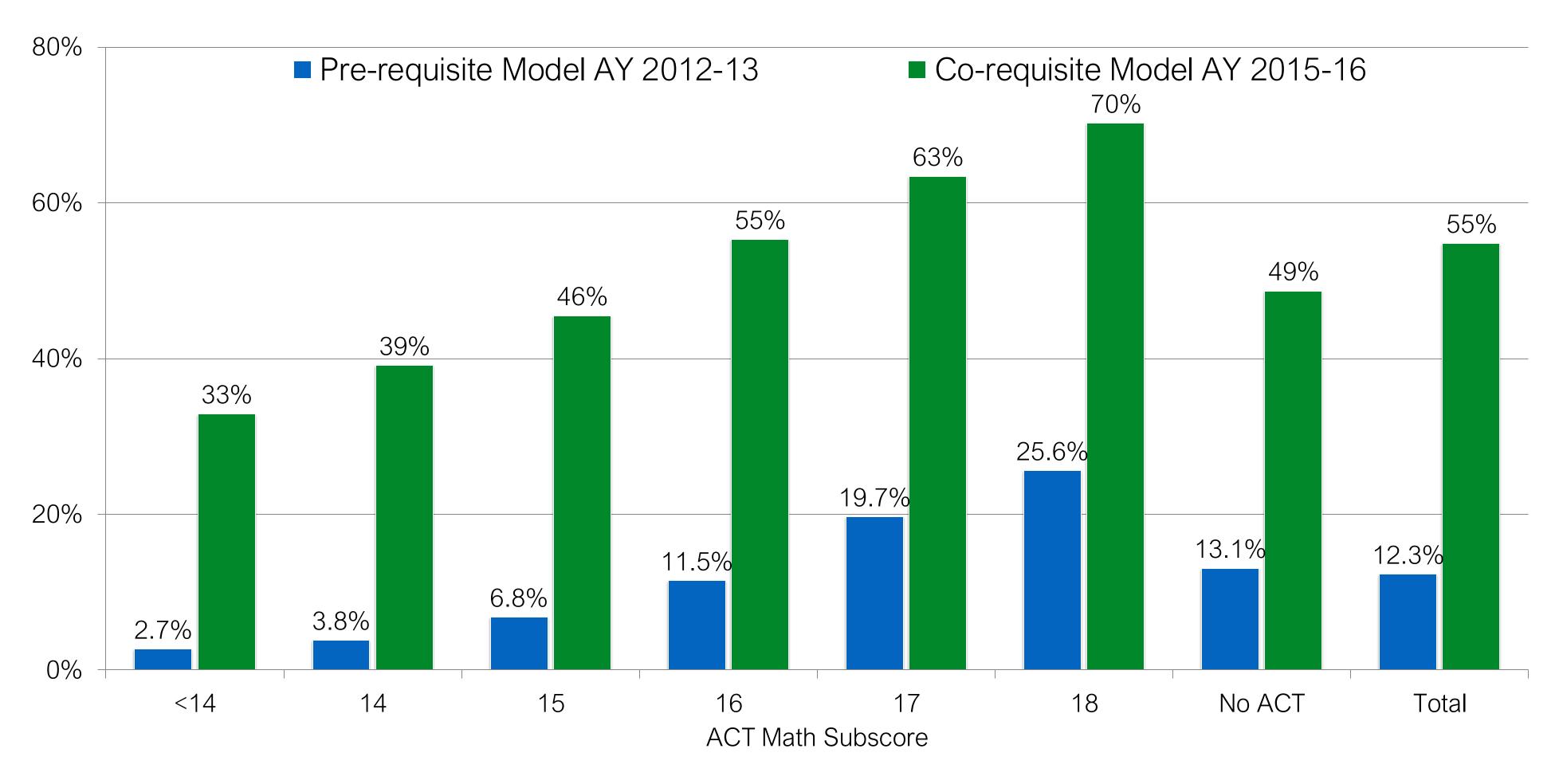


ACT Math Subscores



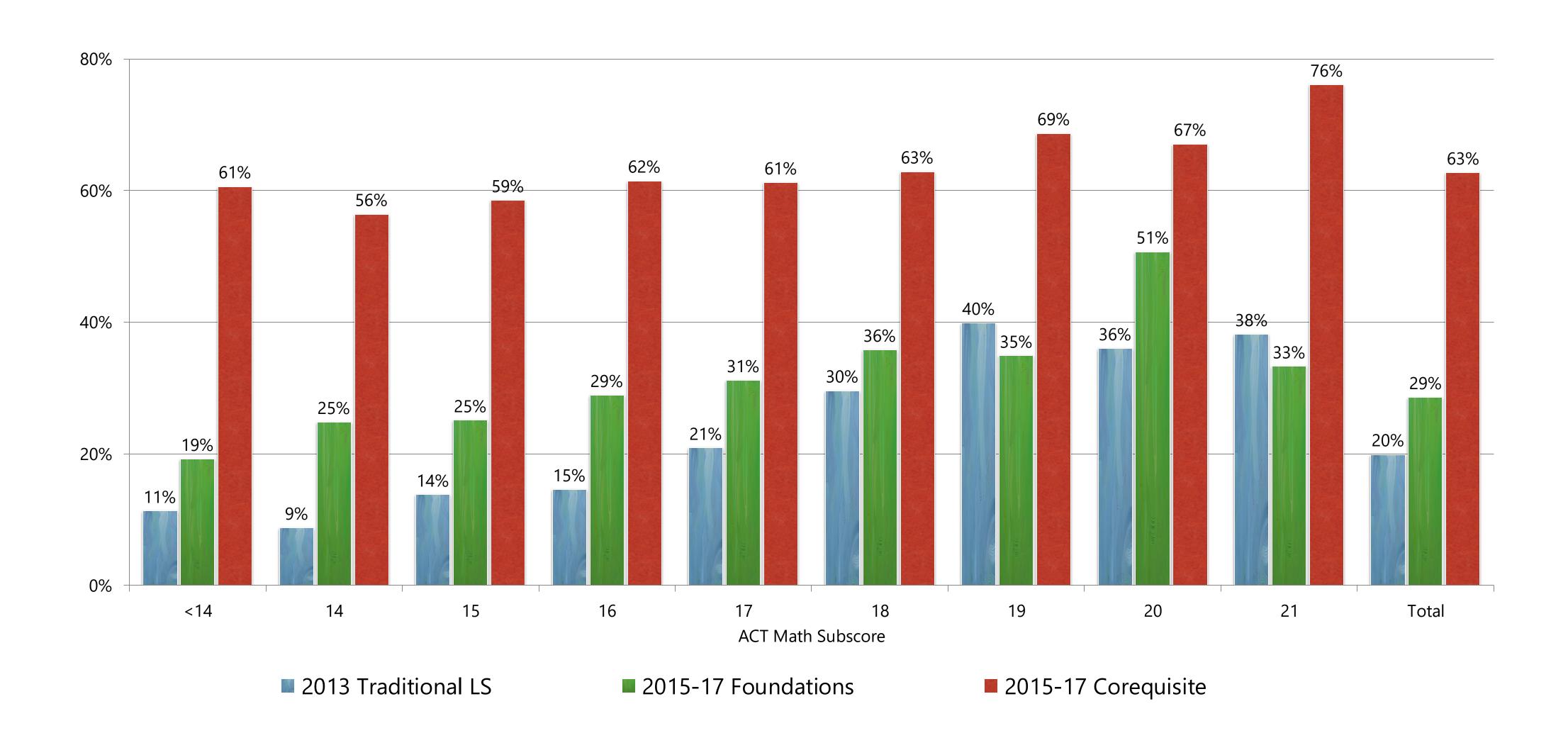
Completion of Gateway Math by ACT Sub-score

Community College Pre-requisite Model vs. Co-requisite Model

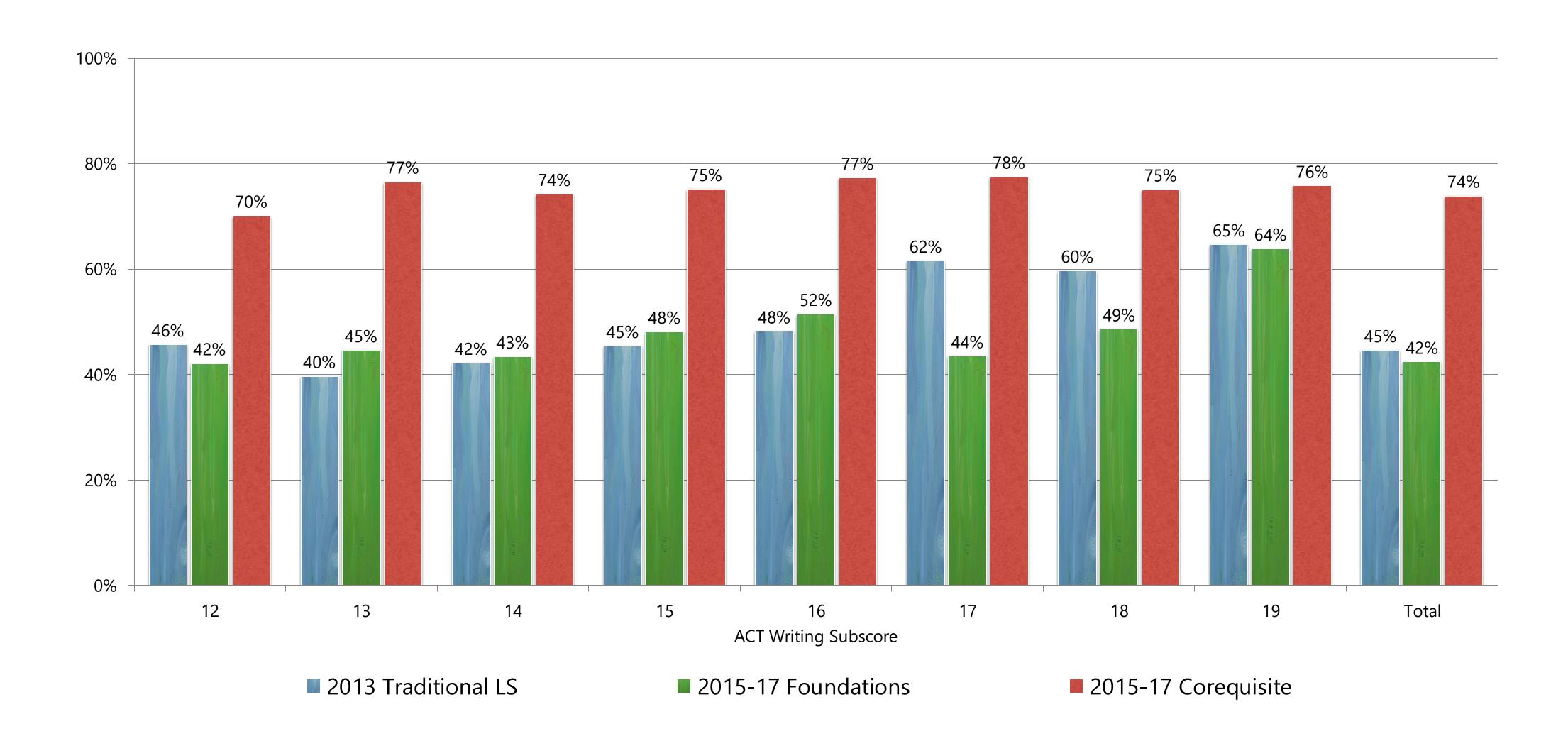




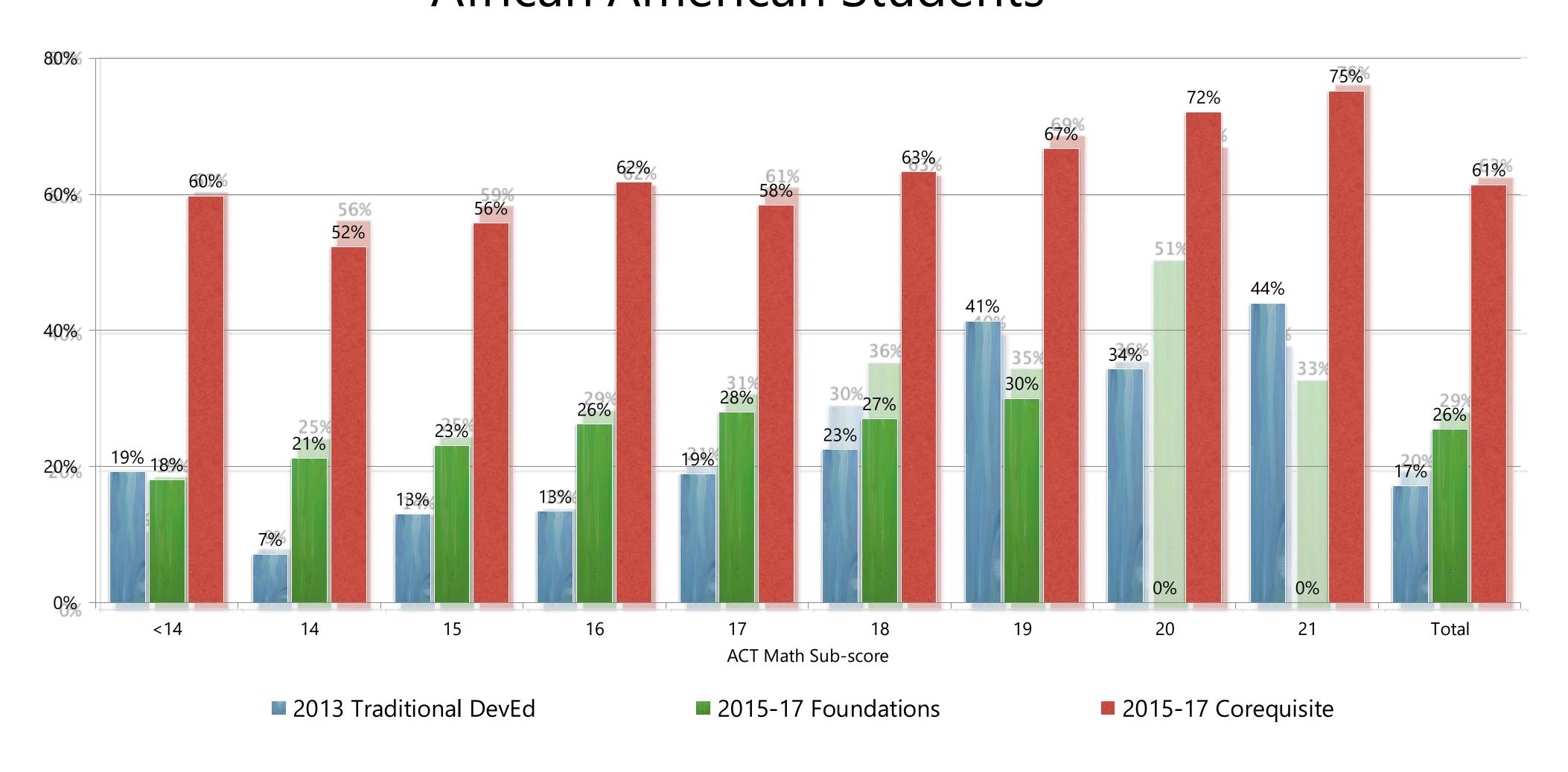
System Comparison of Success in Gateway Math Classes



System Comparison of Success in Gateway English Classes



USG System-wide Comparison of Success in Gateway Math Classes African American Students





Productive Academic Mindset

Perceived purpose of coursework

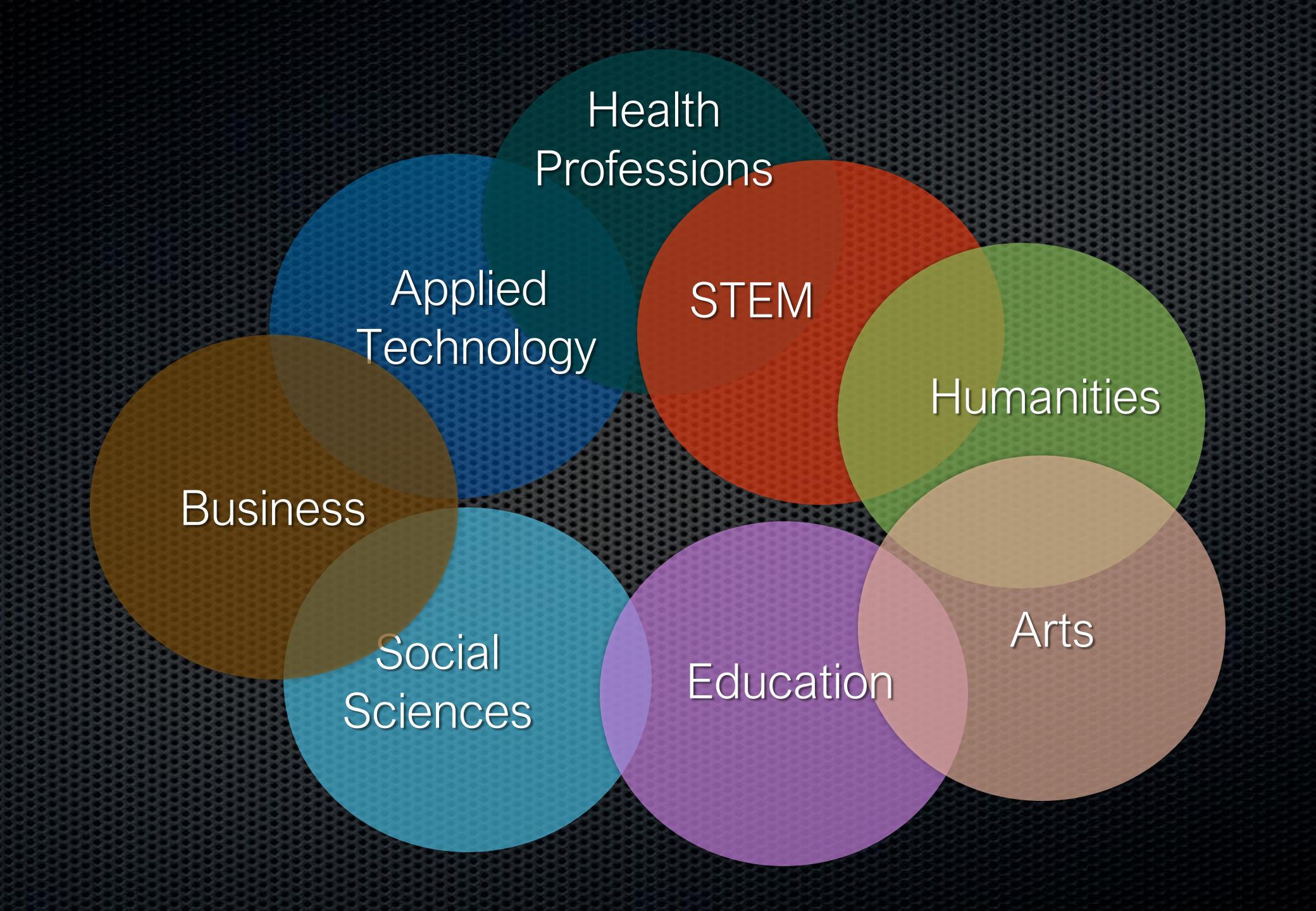
Feel connected to their institution and that they belong...

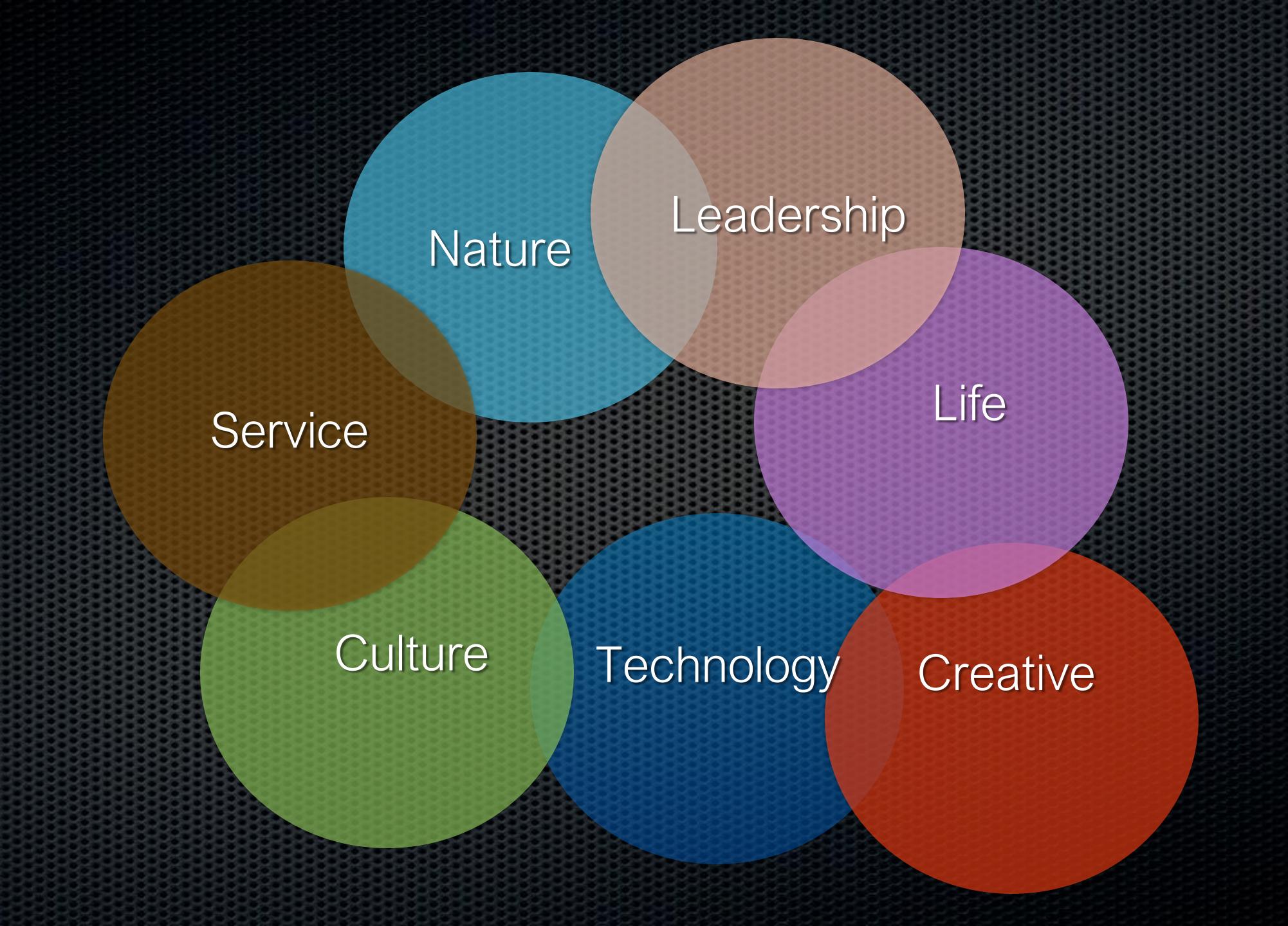
Believe they are capable of learning the material...

Confidence interacting with Faculty and Staff

GRIT and Perseverance



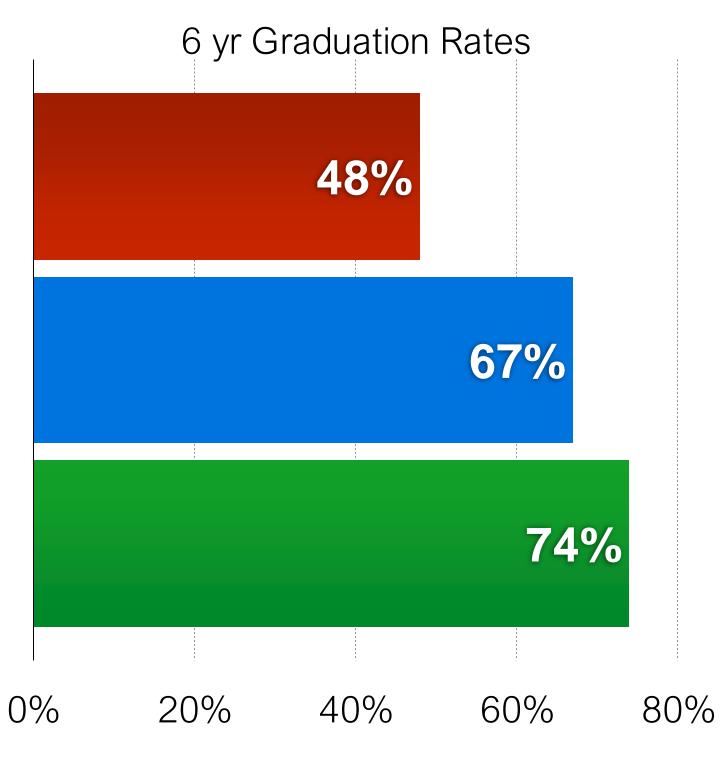




The effect of course enrollments in the first year on graduation rates



- 1st yr Attempted 9hrs in focus area
- 1st yr Earned 9hrs in focus area









- 18 Credit Hours + 42 Hour General Education Core
- •Including:
 - 6 Hours of Experiential Learning
 - 12 Hours at 3000+ Level
 - Curriculum designed in partnership with a major industry with faculty designing to those specifications



nexus degrees approved





Post-production Film Cybersecurity in Financial Technology





Block-chain Machine Learning and Block-chain Data Analysis

USG Momentum Year

Making a purposeful program choice

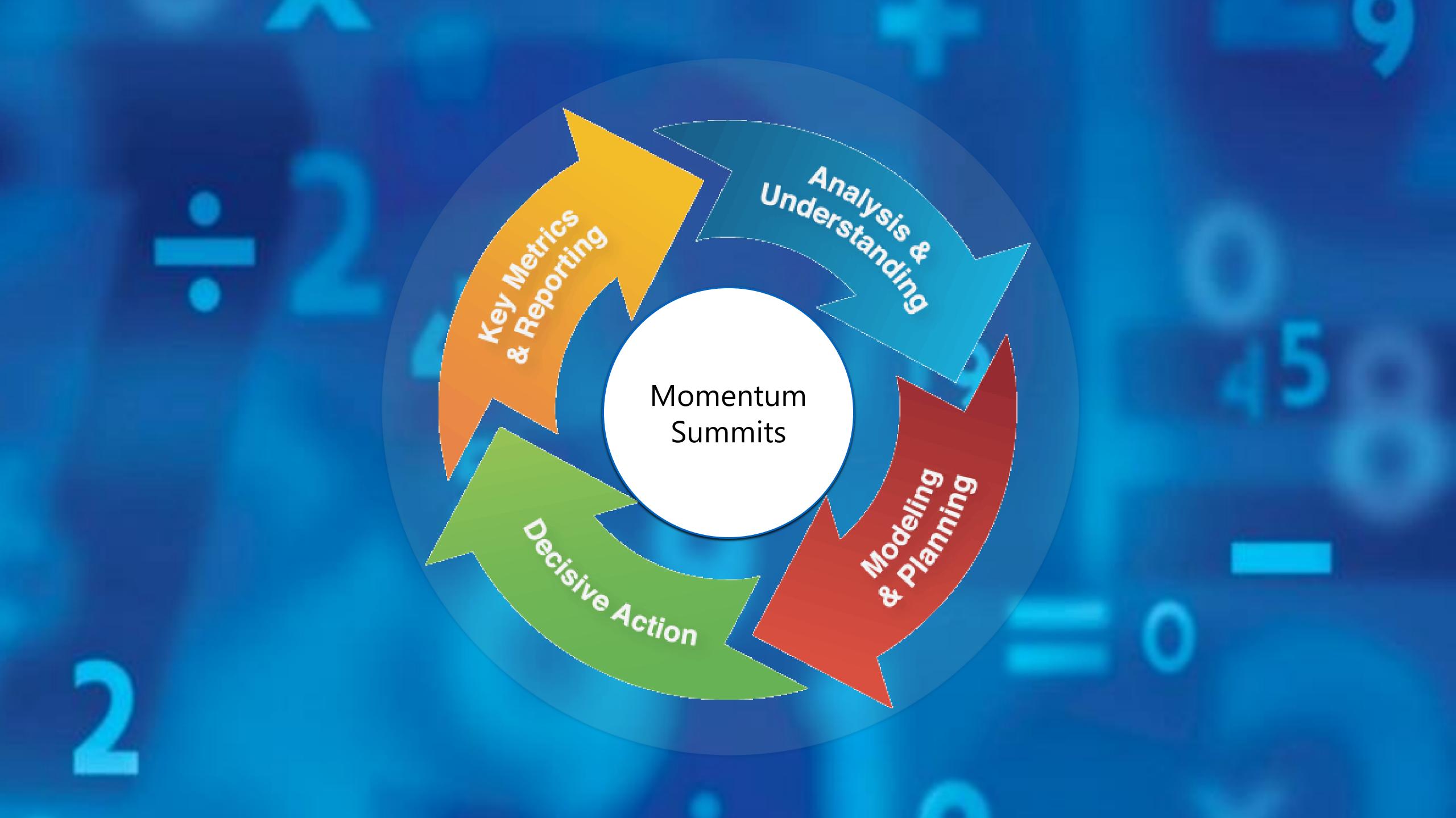
Creating a *productive* Academic Mindset

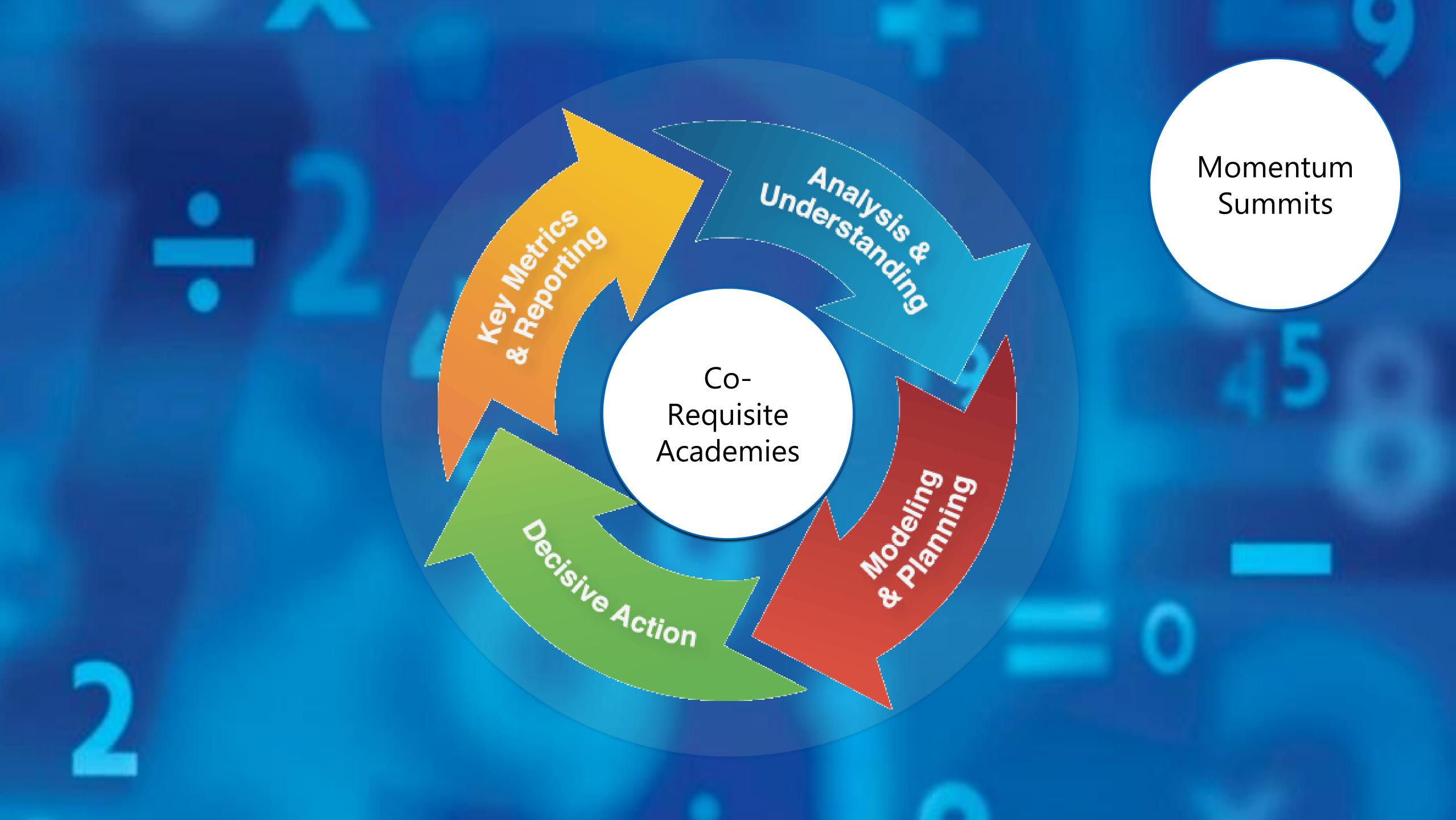
Attempting the first 30 hours of a Clear

Pathway

Attempting 9 hours in Academic Focus

Complete initial English and $M\alpha \tau h$





Co-Requisite Academies



Momentum Summits

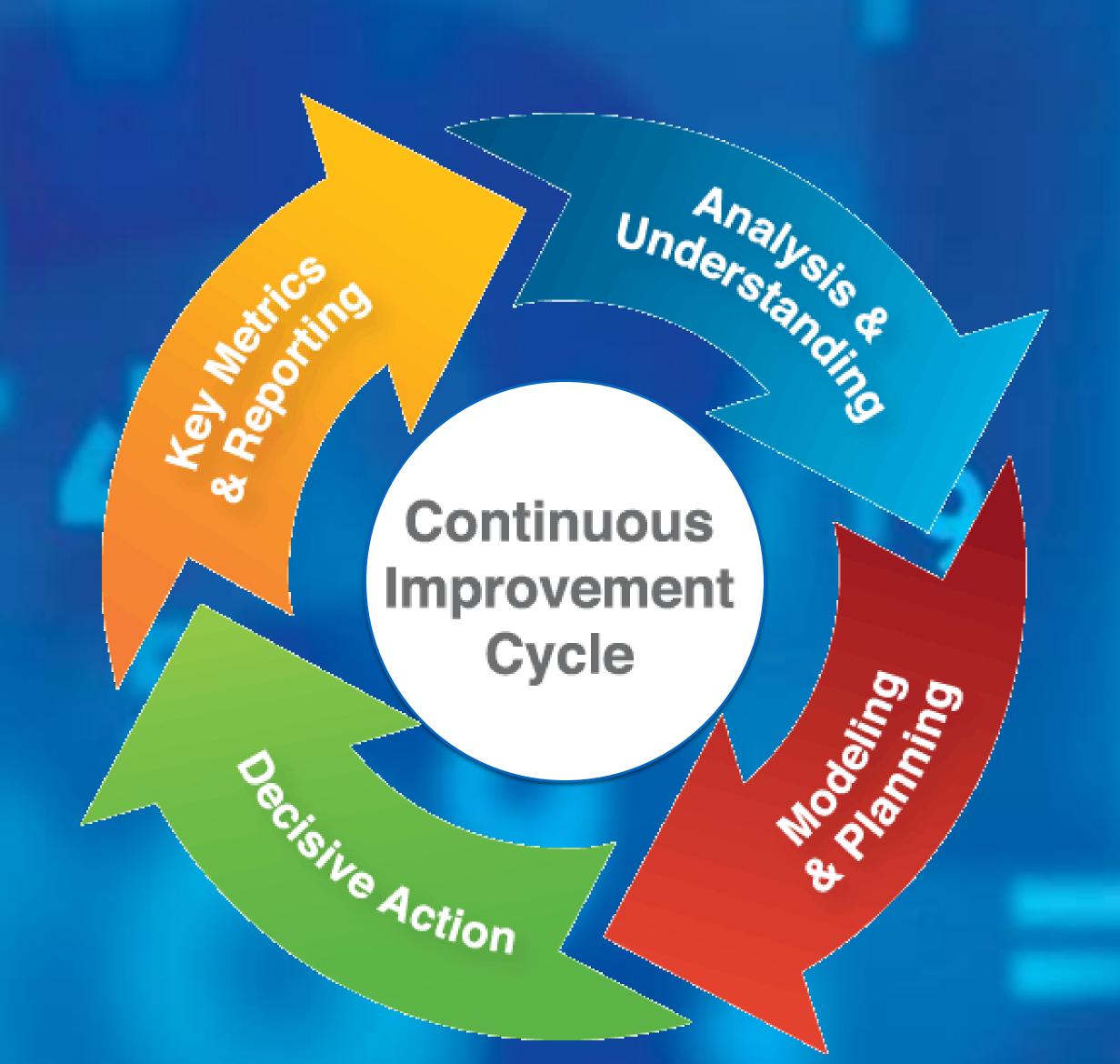
Co-Requisite Academies

Understanding To Suiting Maring Faculty Learning Communities At Scale e Modeling Panning Oecisive Action

Momentum Summits

Advising Summit Co-Requisite Academies

> Advising Summit



Momentum Summits

Faculty
Learning
Communities
At Scale



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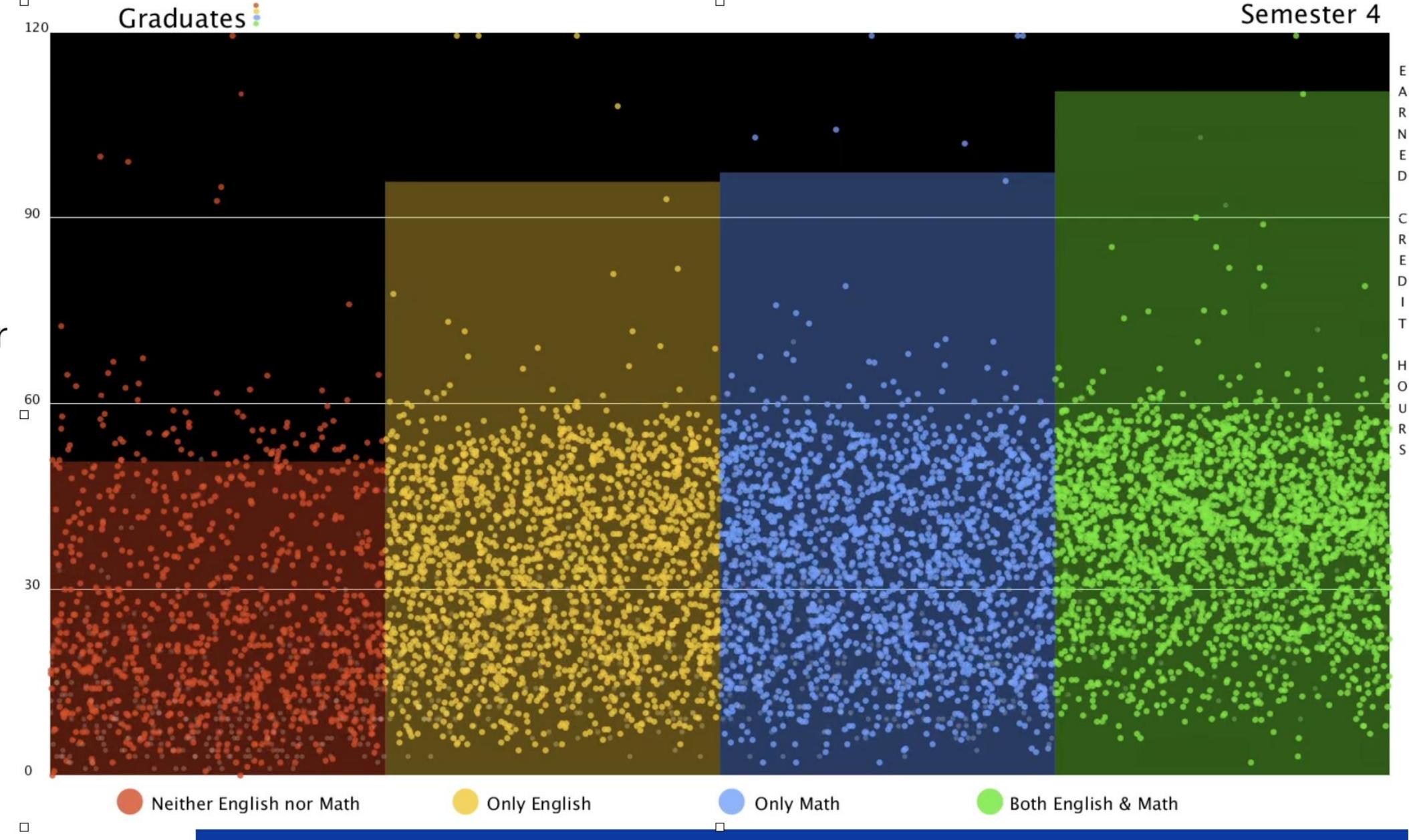
Momentum Metrics

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10,000 USG Students

2,500 who either completed their first credit bearing math and/or writing class or completed neither during their first academic year

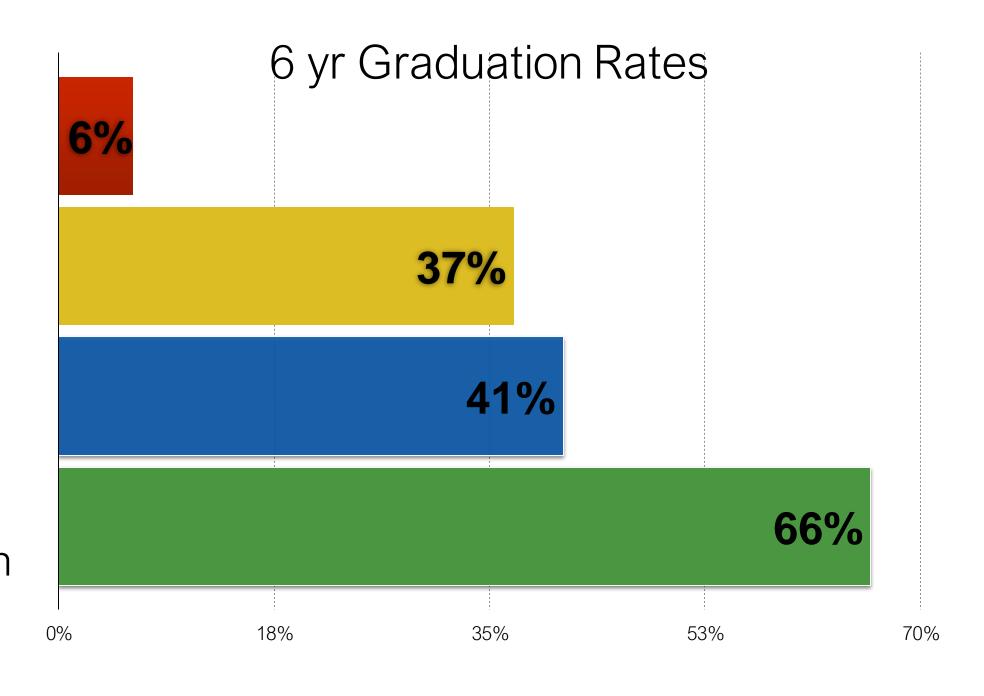




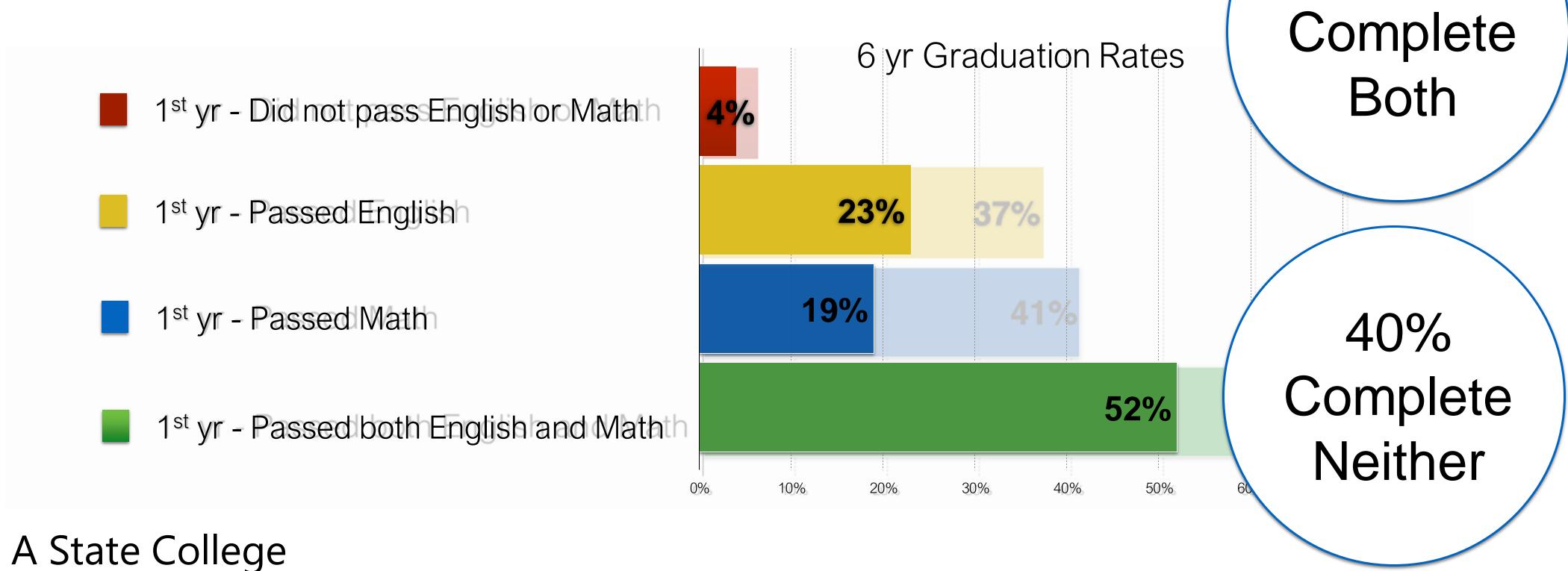
UNIVERSITY SYSTEM OF GEORGIA

English and Math

- 1st yr Did not pass English or Math
- 1st yr Passed English
- 1st yr Passed Math
- 1st yr Passed both English and Math



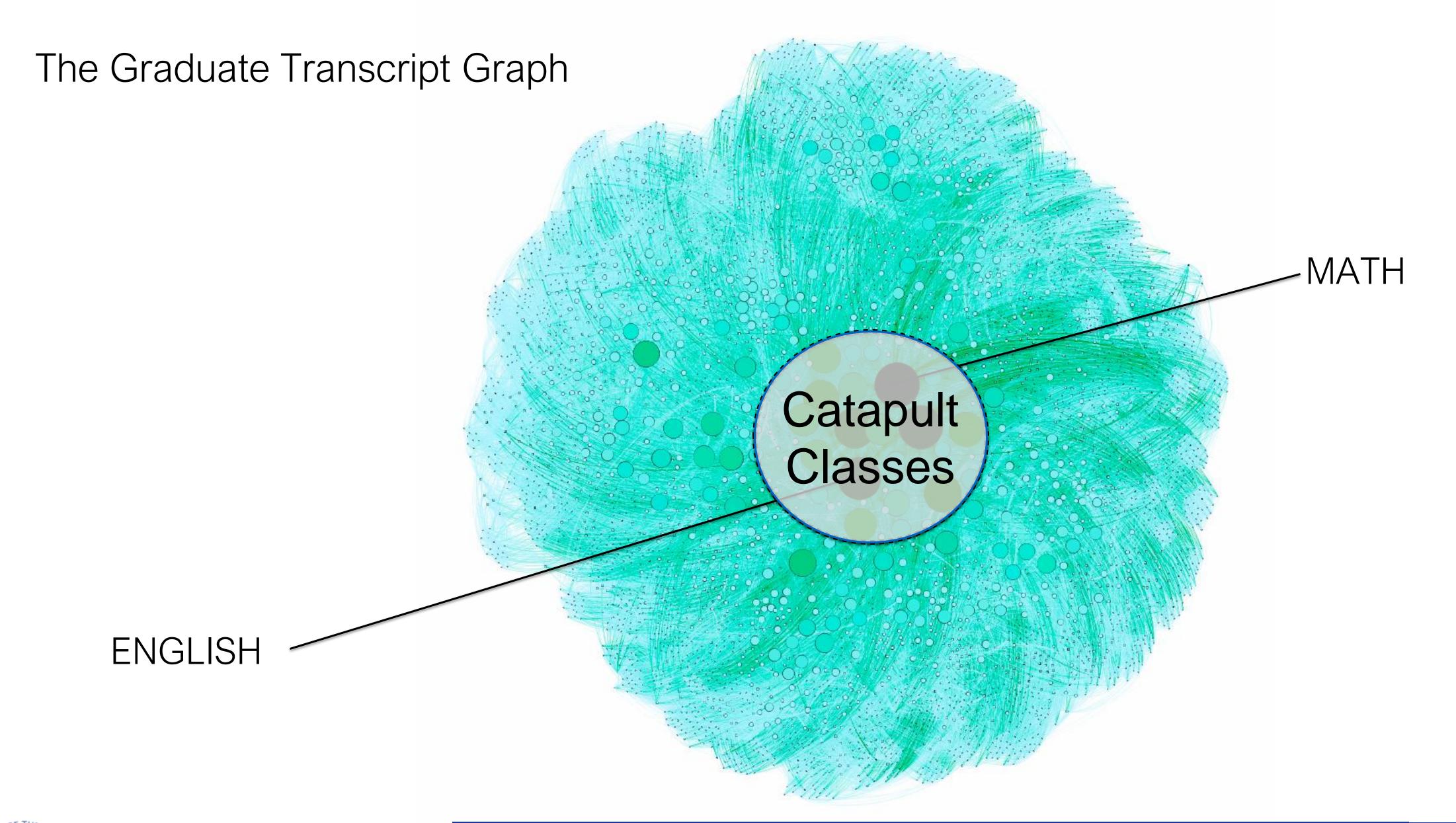
English and $N\alpha \tau h$

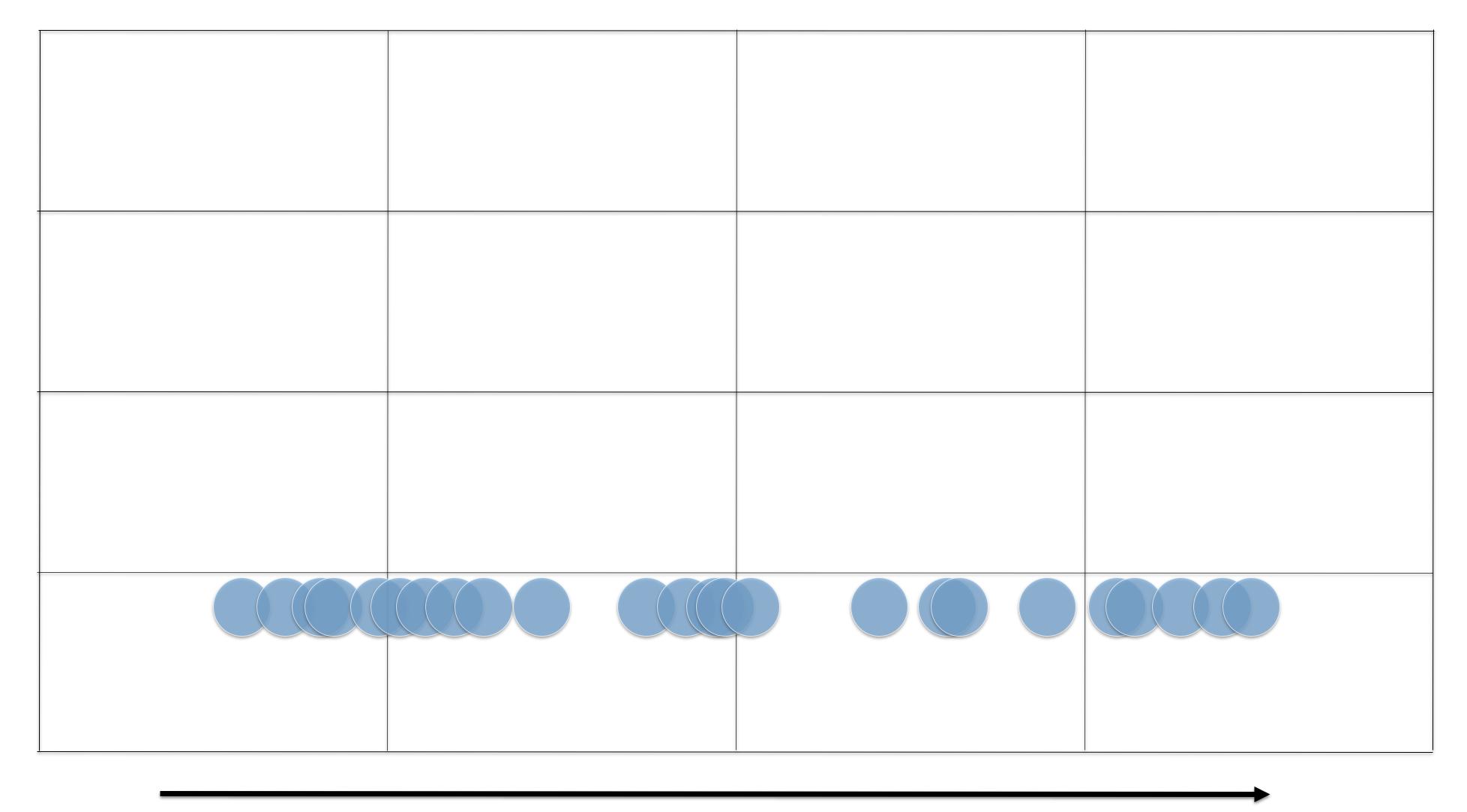


34%







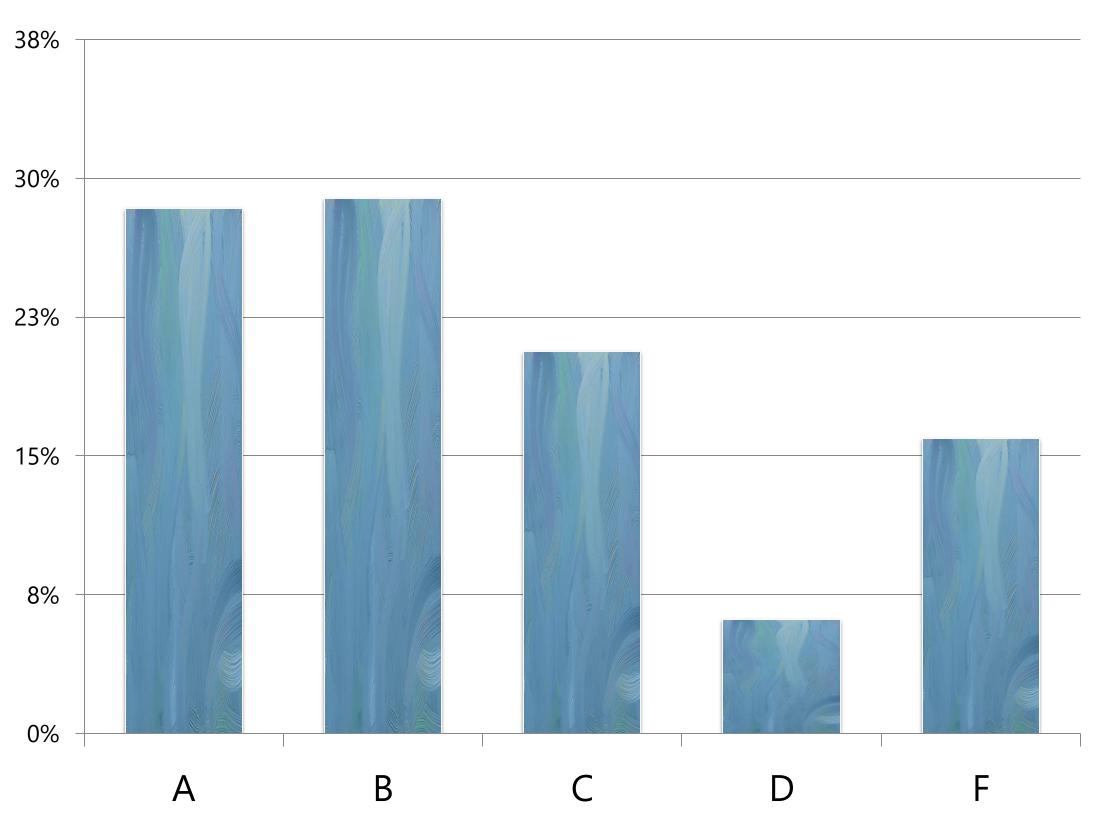


Impact of Student Enrollment

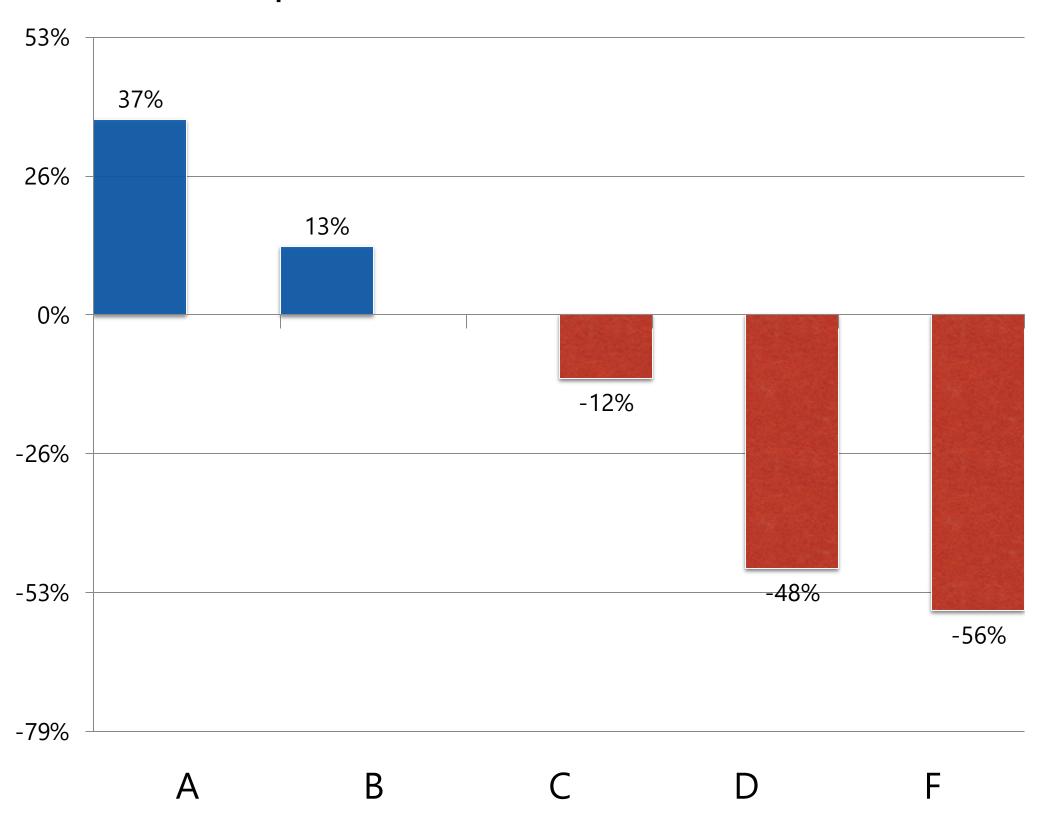


ENGL 1101 - English Composition I



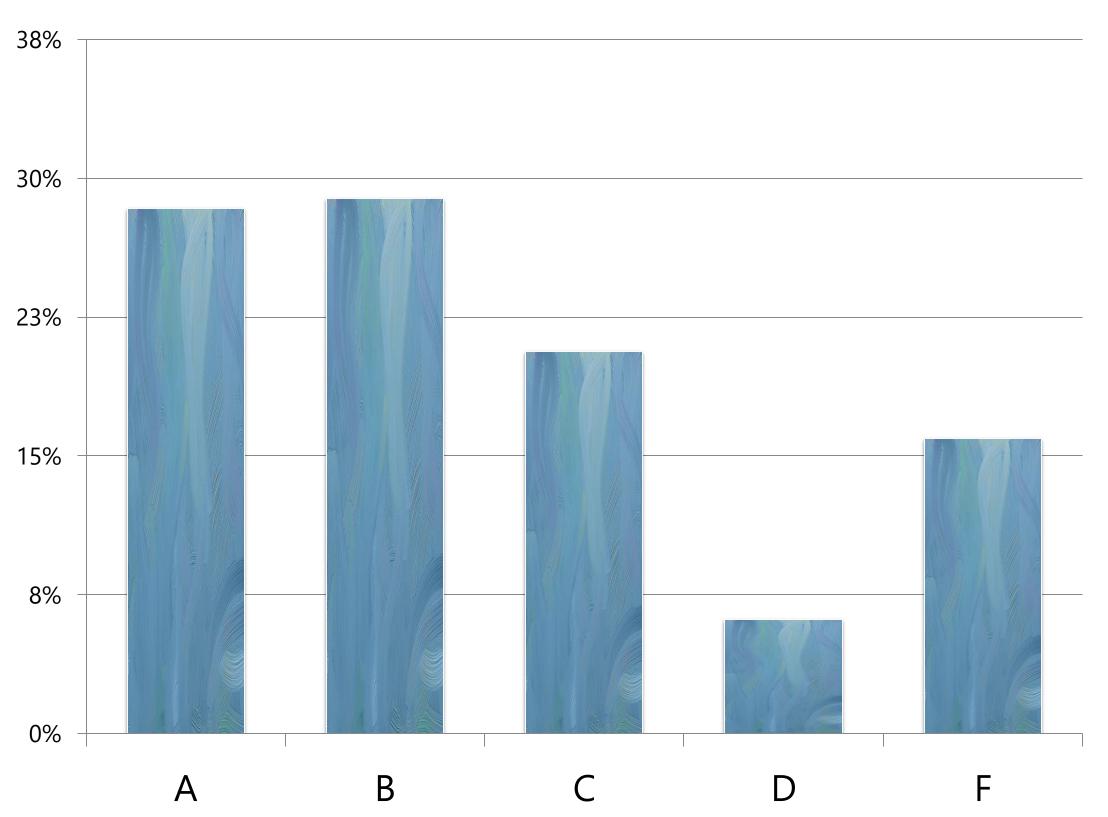


Impact on Graduation Rate

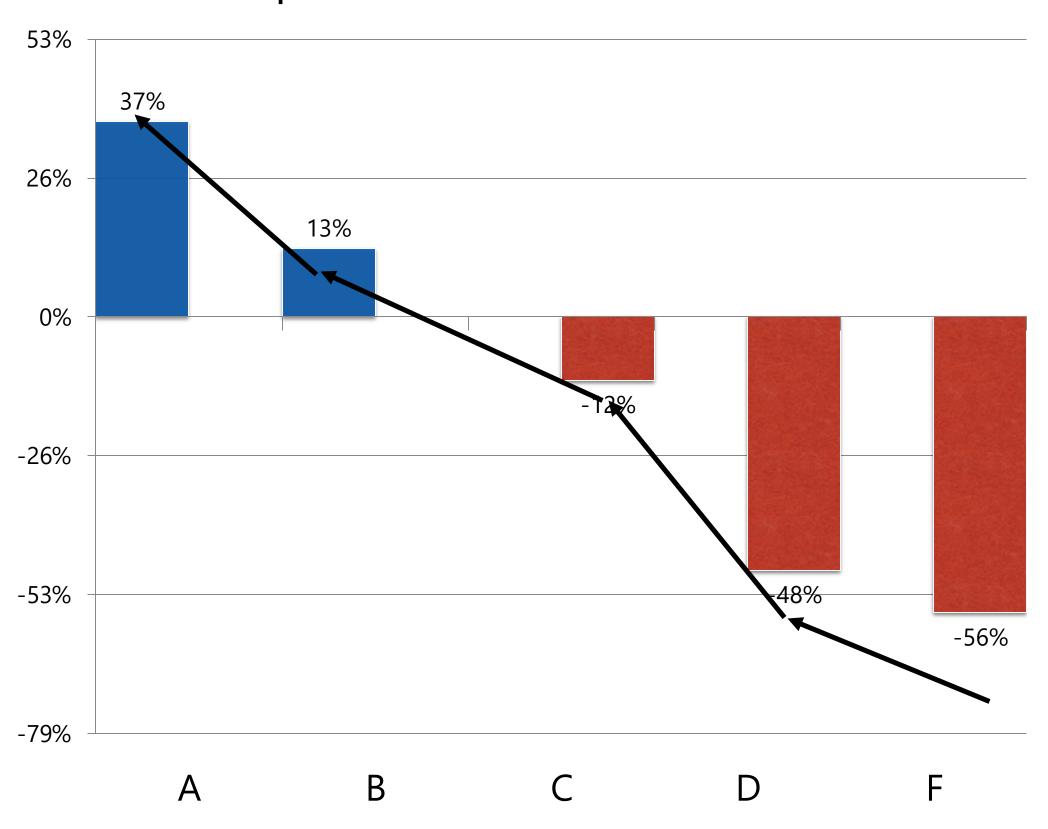


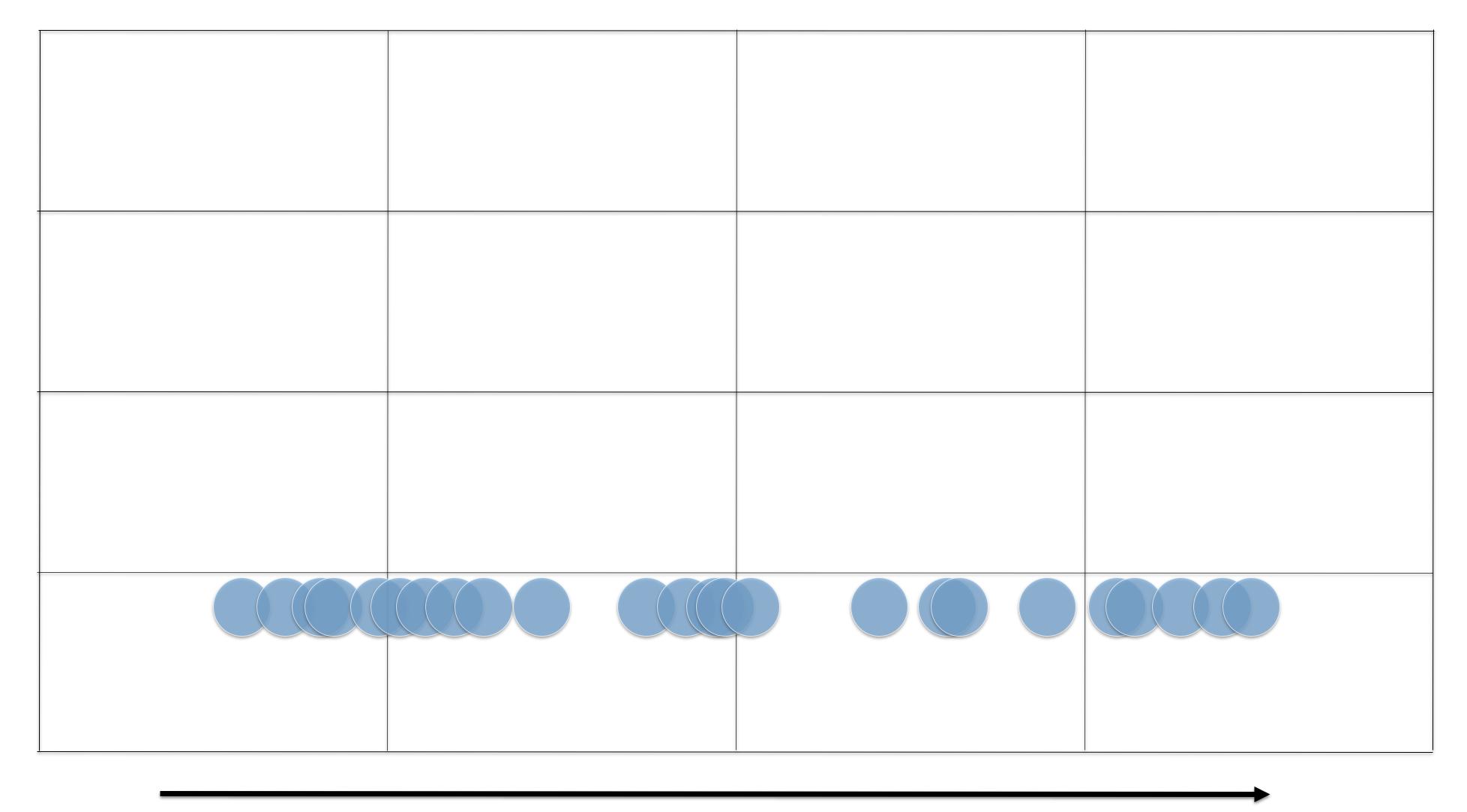
ENGL 1101 - English Composition I





Impact on Graduation Rate





Impact of Student Enrollment



Impact of Student Enrollment











Size of "bubble" depicts the overall impact of increased learning in each class on overall student success metrics.

Productive Academic Mindset

Perceived purpose of coursework

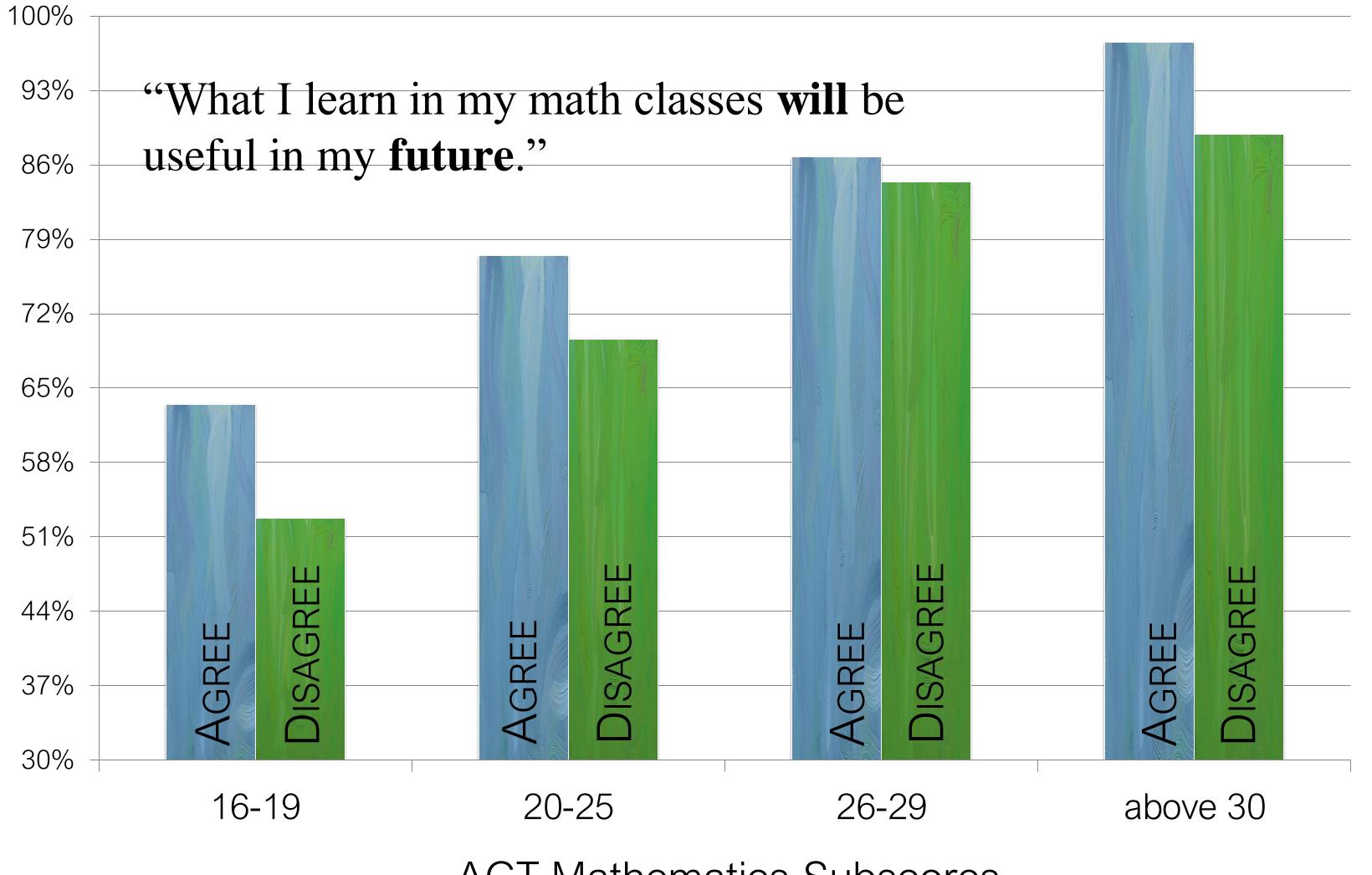
Feel connected to their institution and that they belong...

Believe they are capable of learning the material...

Confidence interacting with Faculty and Staff

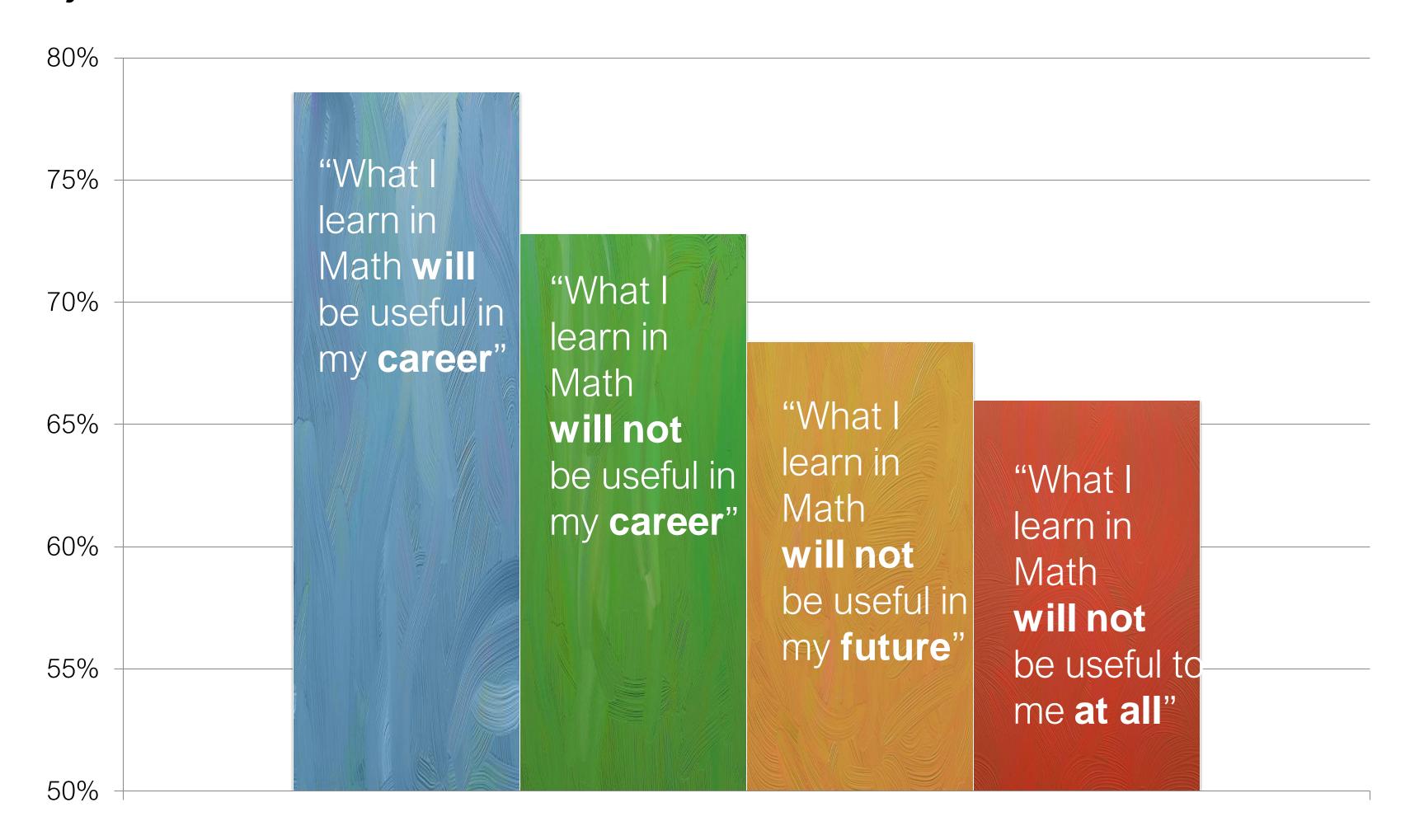
GRIT and Perseverance

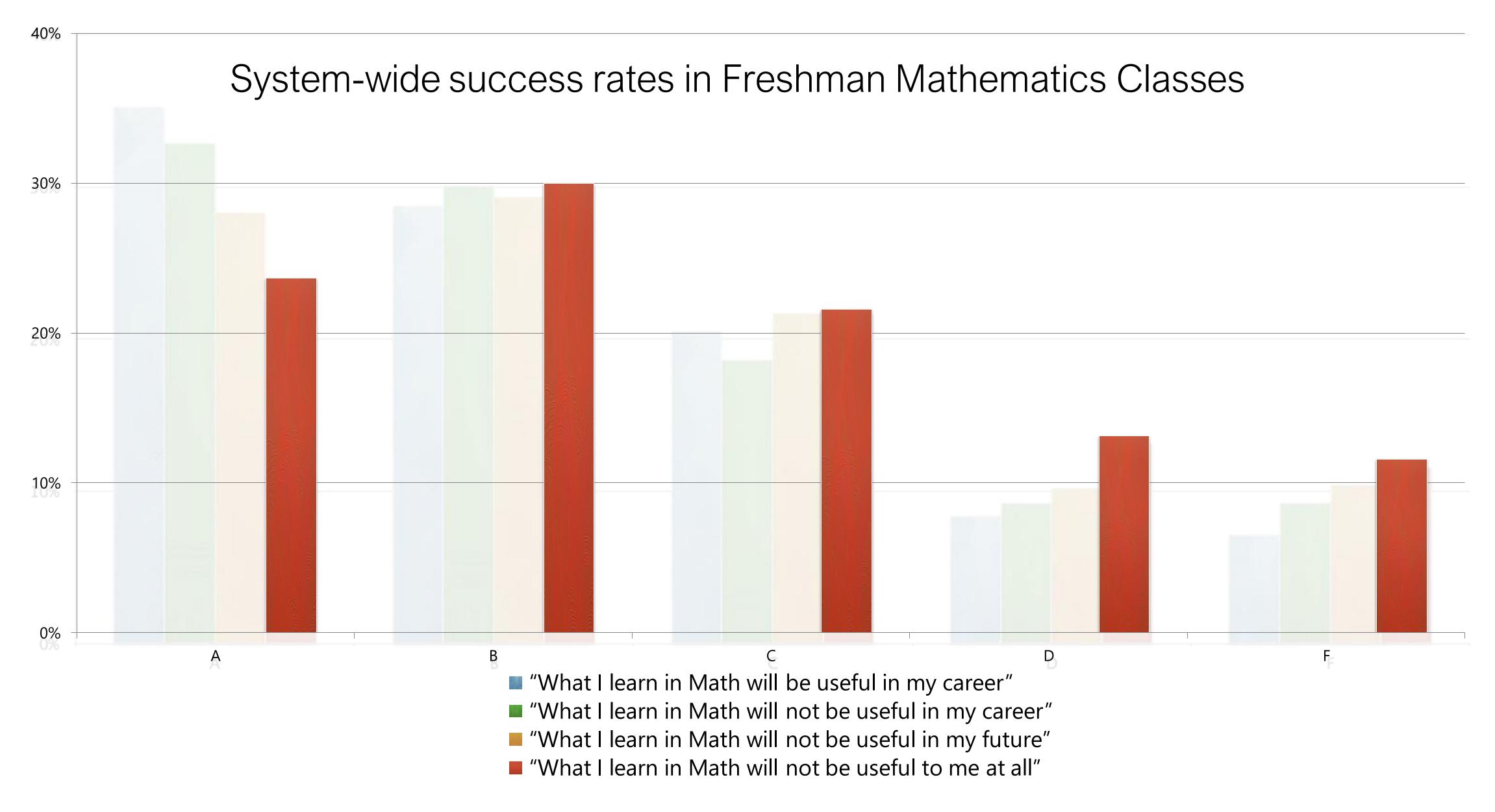
System-wide success rates in Freshman Mathematics Classes



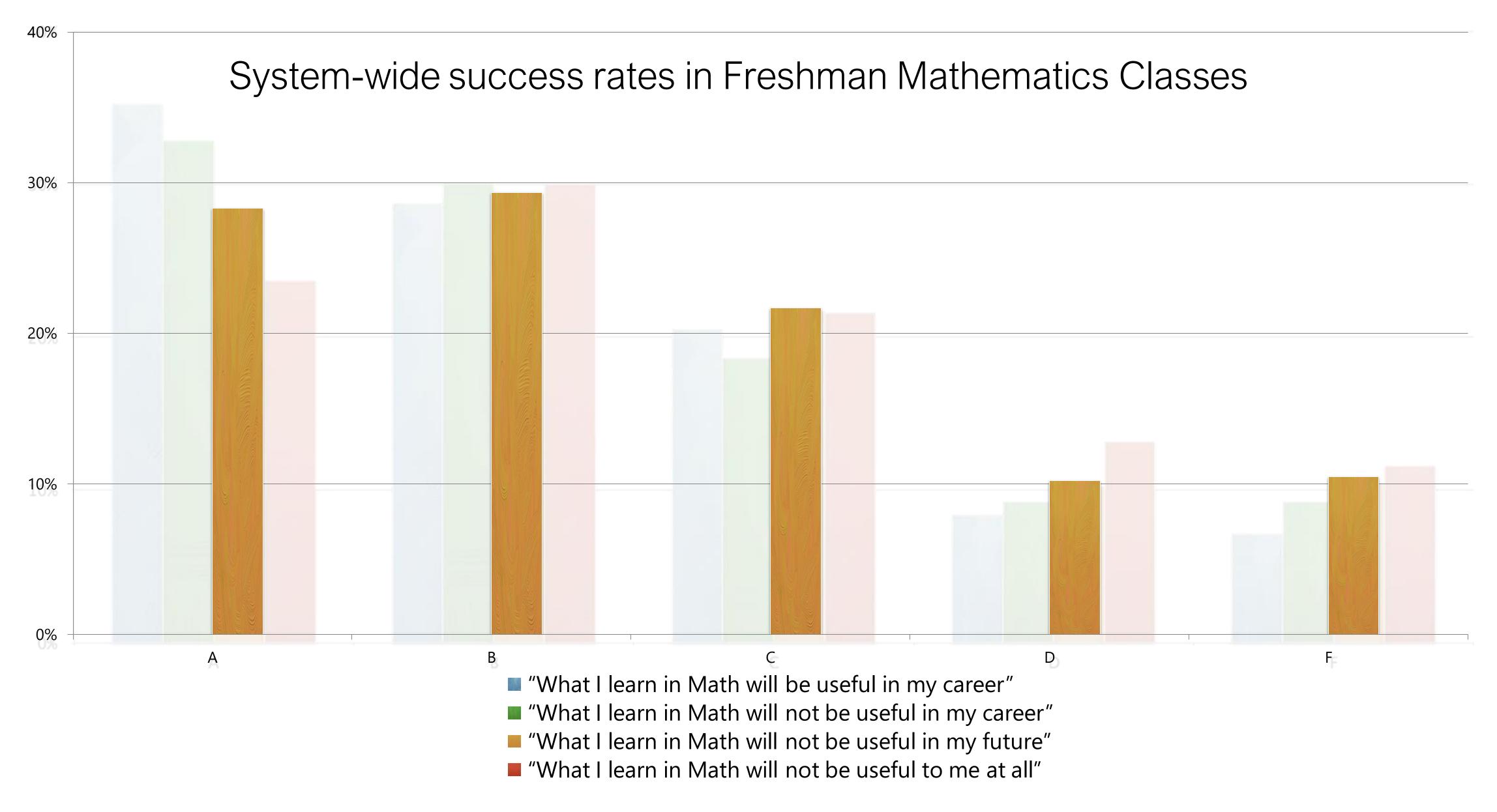
ACT Mathematics Subscores

System-wide success rates in Freshman Mathematics Classes

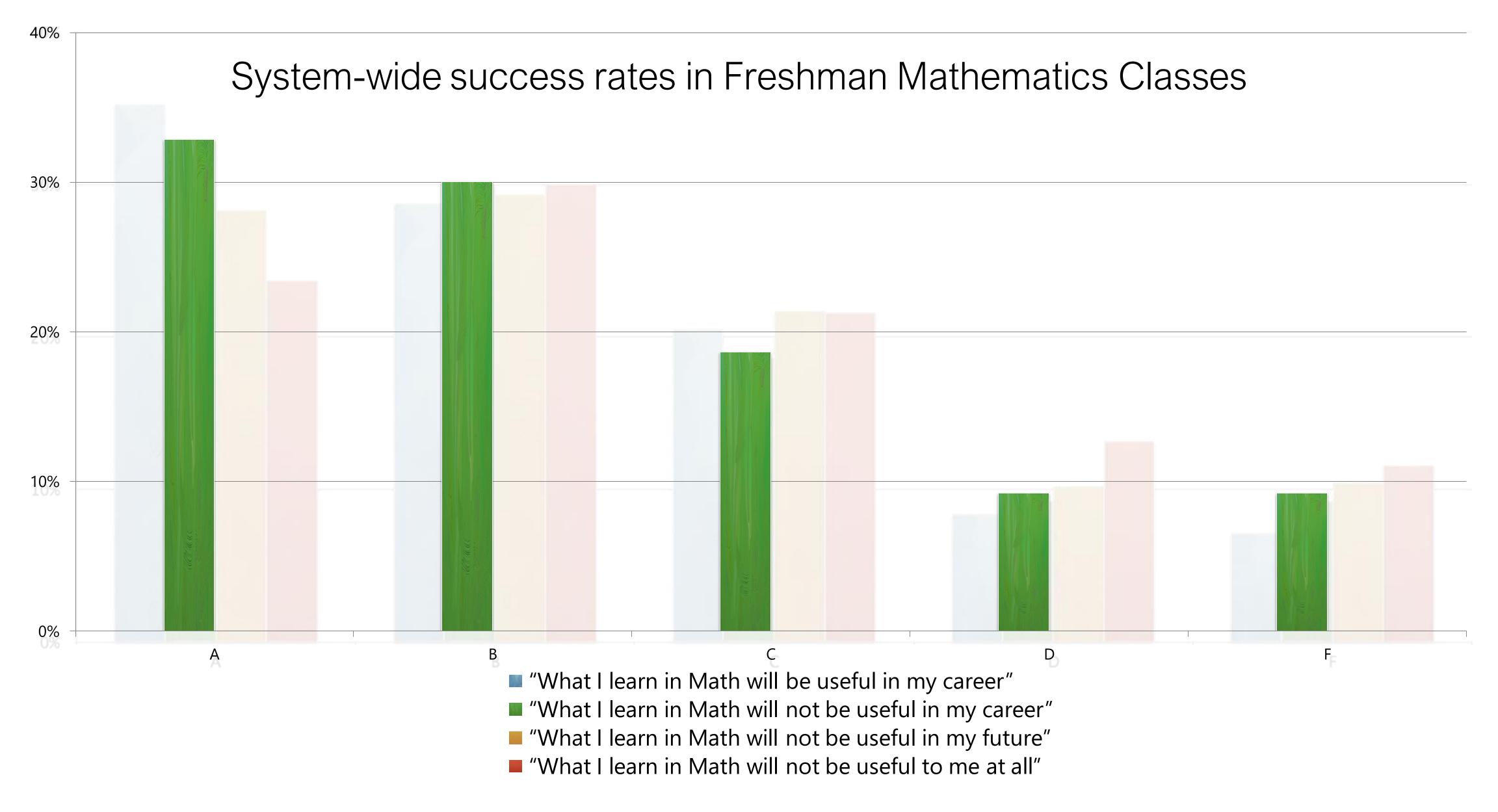




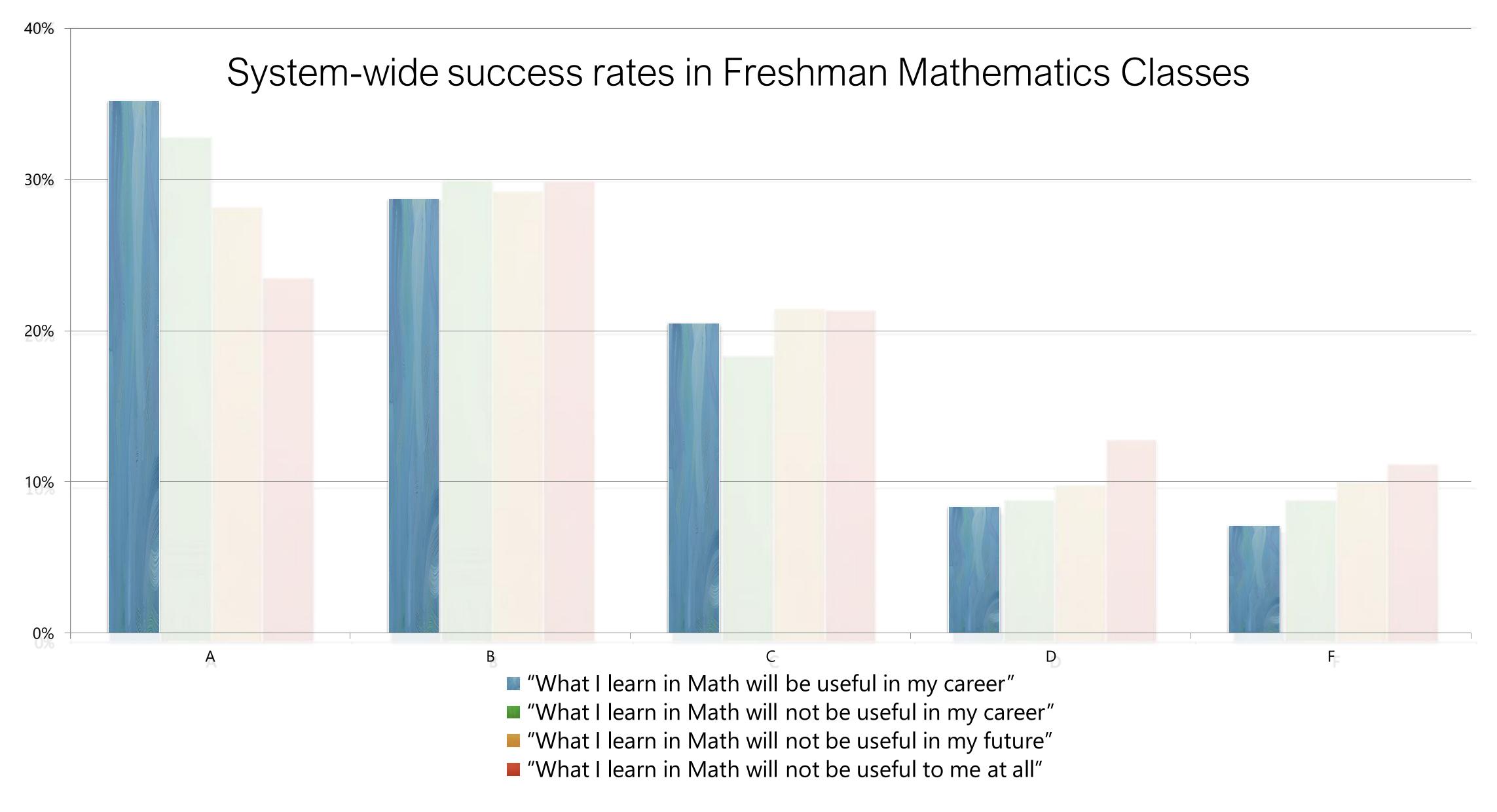






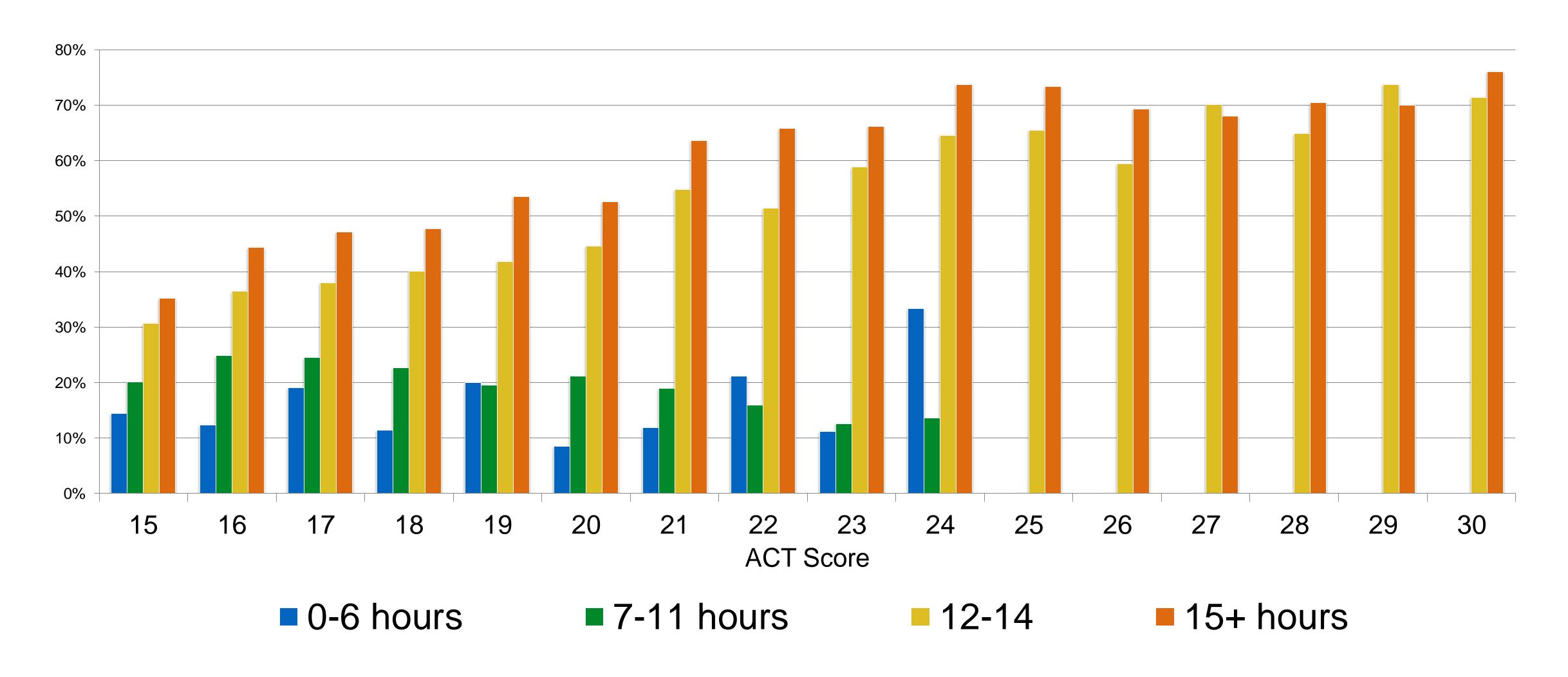






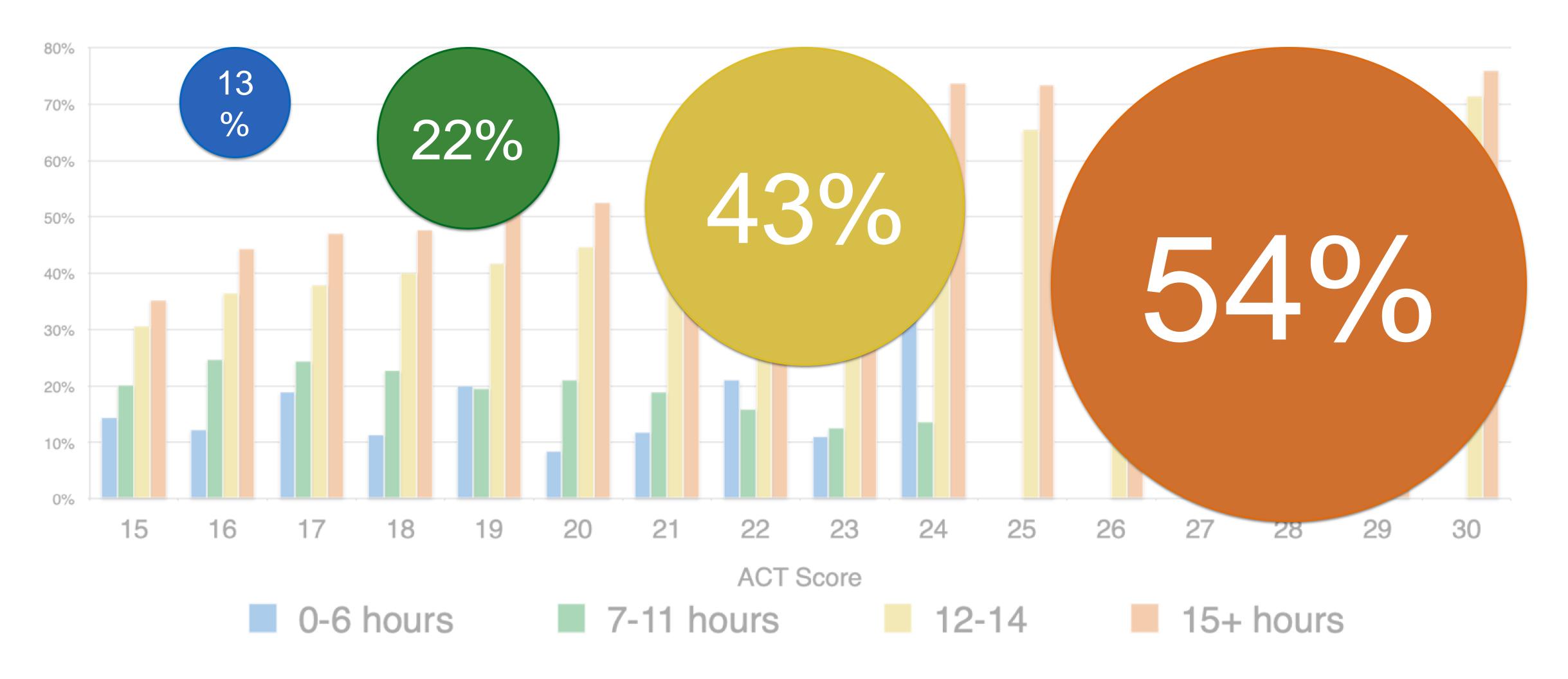


State University 6year Graduation Rates based on hours enrolled in First Semester



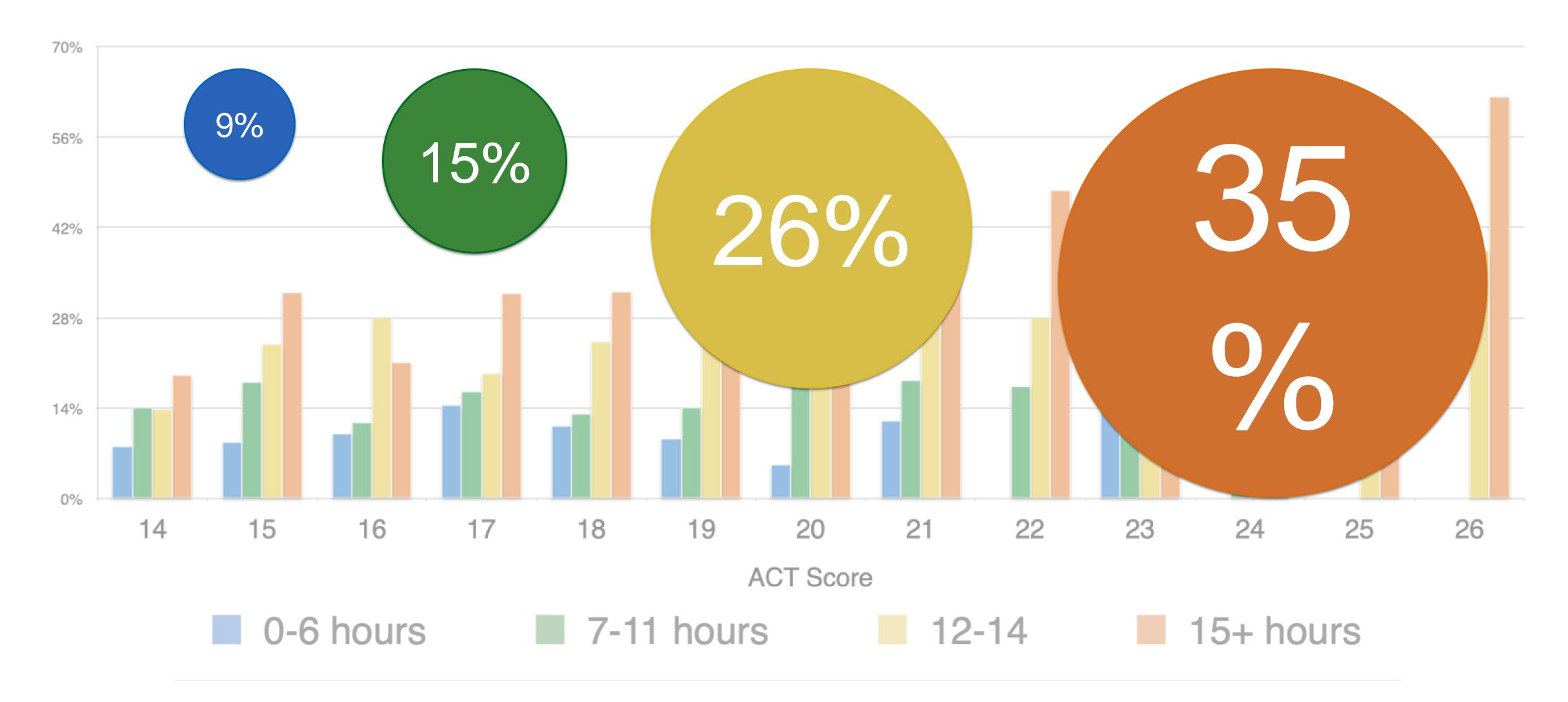


State University 6year Graduation Rates based on hours enrolled in First Semester

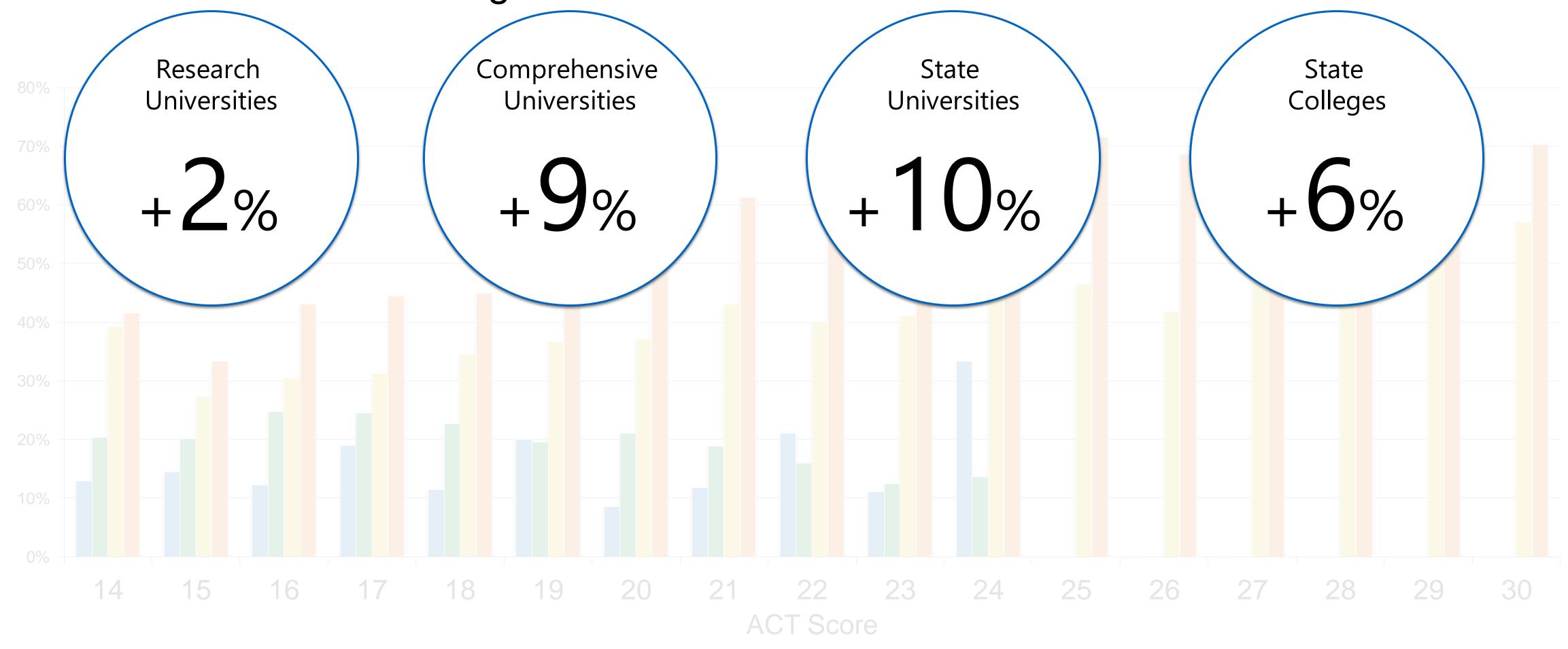




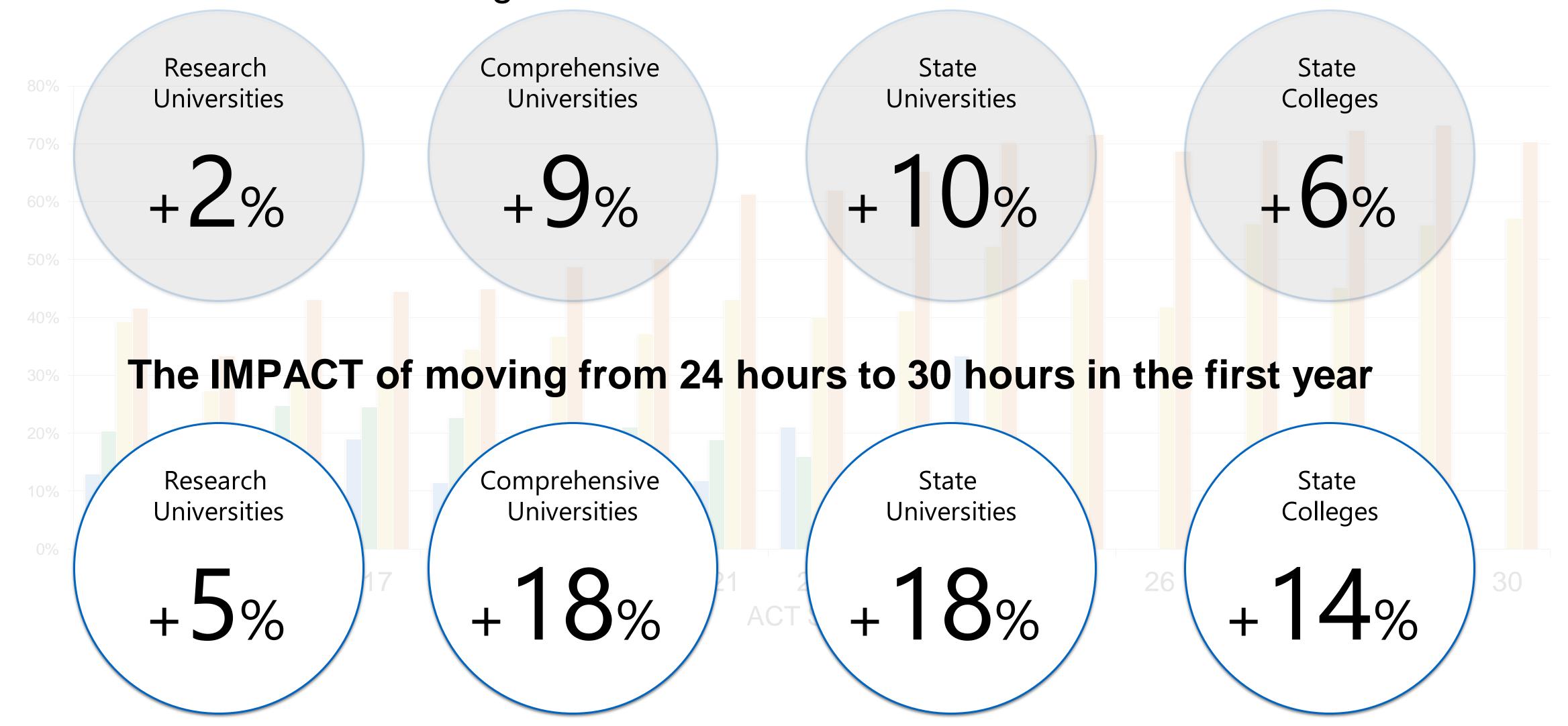
State College 6year Graduation Rates based on hours enrolled in First Semester



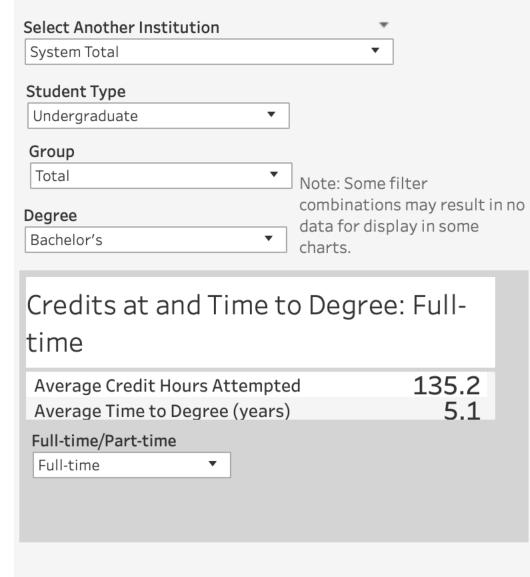
The IMPACT of moving from 12-14 hours to 15 hours in the first semester

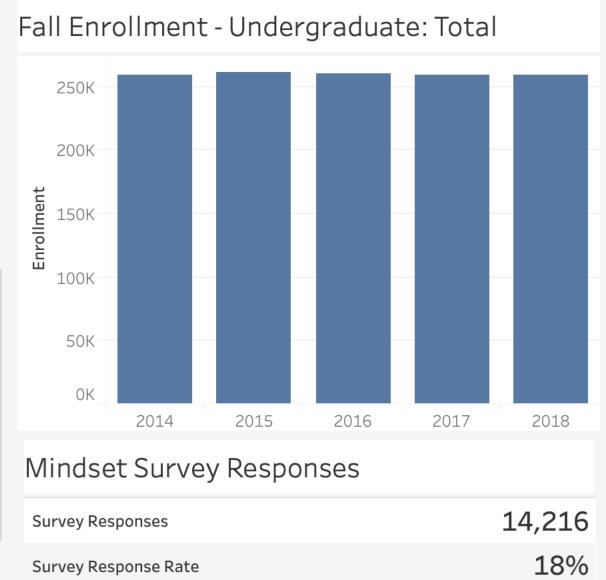


The IMPACT of moving from 12-14 hours to 15 hours in the first semester

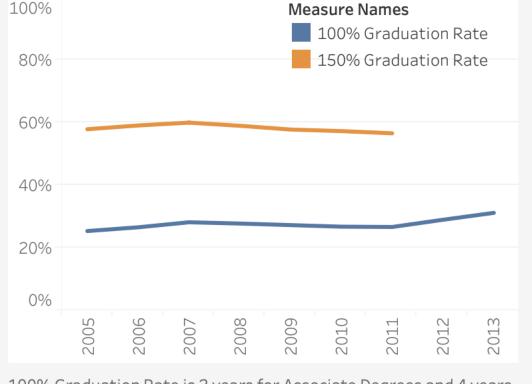


Momentum Data: System Total



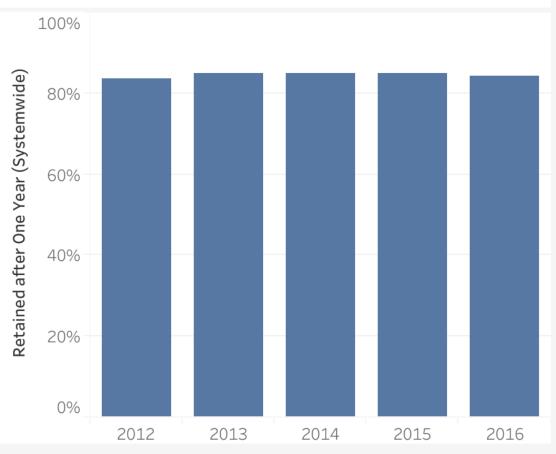


Bachelor's Graduation Rate (Systemwide): Total 100%



100% Graduation Rate is 2 years for Associate Degrees and 4 years for Bachelor's Degrees. 150% Graduation Rate is 3 years for Associate Degrees and 6 years for Bachelor's Degrees. Data is suppressed for cell sizes less than 10 to protect student privacy. Gaps in the trend line reflects cell sizes fewer than 10.

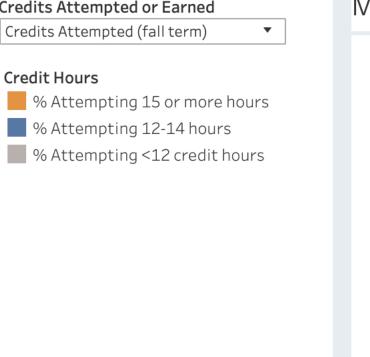
Bachelor's One-Year Retention (Systemwide): Total

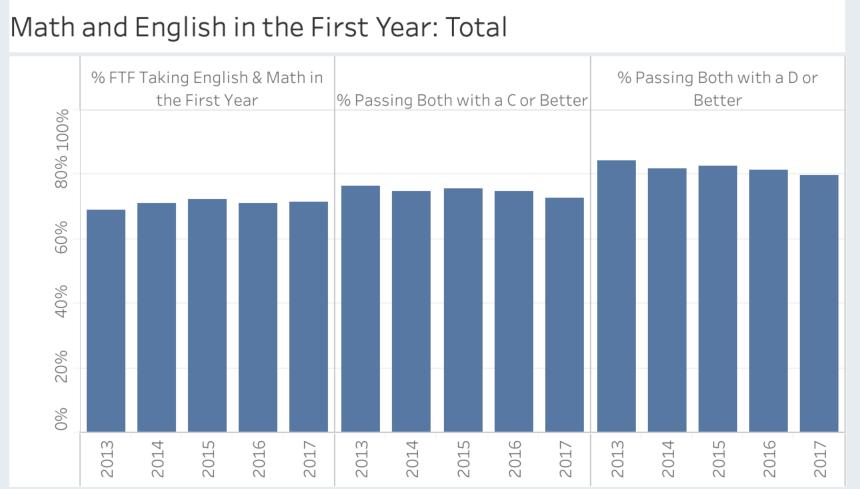


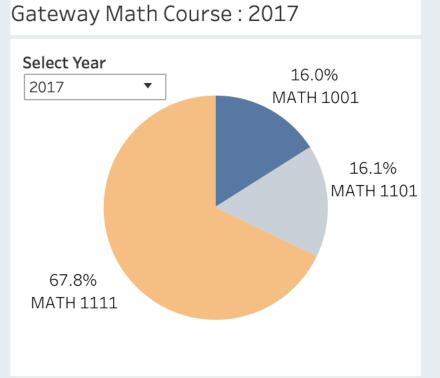
Data is suppressed for cell sizes less than 10 to protect student privacy. Gaps in the trend line reflects cell sizes fewer than 10.

Credit Taking: Undergraduate Credits Attempted or Earned Credits Attempted (fall term) 100% Percentage (credit hours) **Credit Hours** % Attempting 12-14 hours

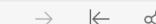
Color shows details about credit hours attempted in the fall semester or earned in the year. The data is filtered on Institution, Student Type and Credit Attempted (Fall)/Earned (Year). Change the Student Type filter above to toggle between First-time Freshmen and Undergraduates.

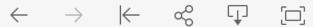






Gateway math course enrollment for students taking Math 1001, Math 1101, or Math 1111. Math coures above Math 1111 are not included.







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