

# STUDENT SUCCESS: RETENTION AND GRADUATION



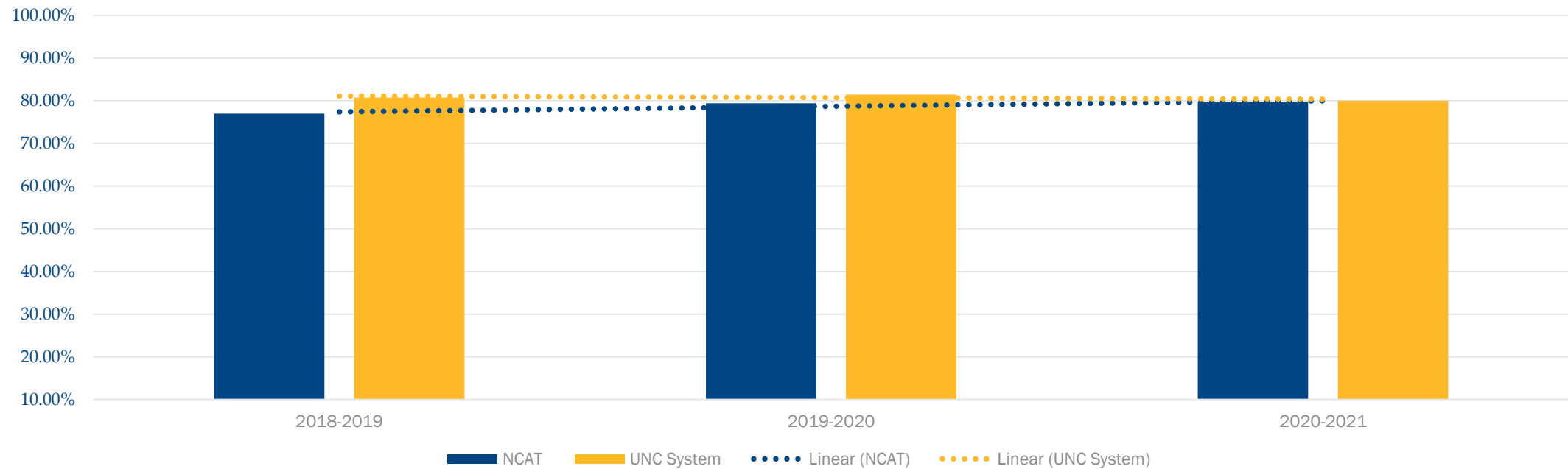
Regina Williams Davis - Interim Vice Provost for Student Success and University Registrar  
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April 22, 2022

# RETENTION RATE – 3-YEAR TREND

*NCA&T Compared to the UNC System*

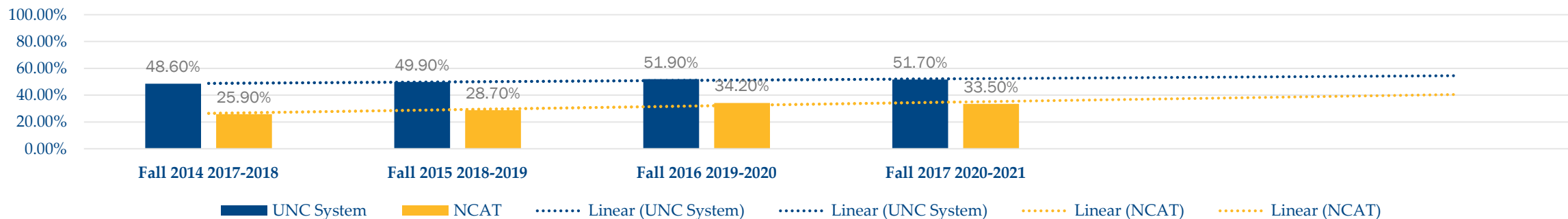
3-Year Retention Rate  
2018-19 through 2020-21



# FOUR-YEAR GRADUATION RATE

## NCA&T Compared to the UNC System

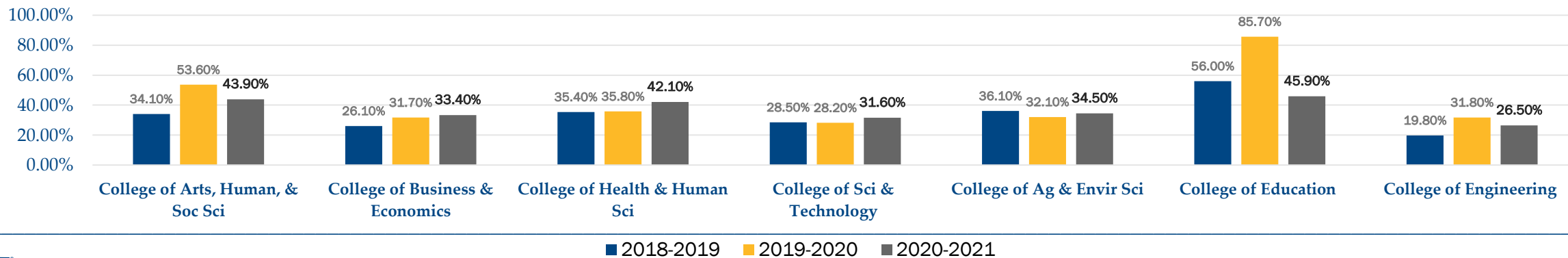
4-YR Graduation Rate



NOTE:

- UNCISO has a +3.1 net improvement.
- NCA&T has a +4.4 net improvement

4-YR Graduation Rate by College



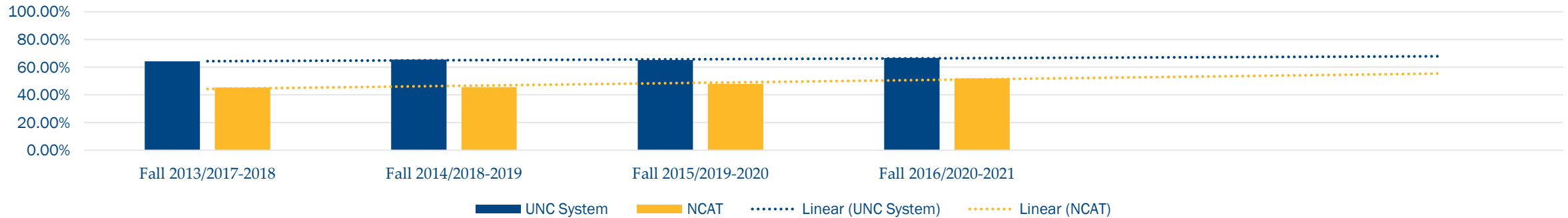
NOTE:

- 5 of 7 Colleges improved from 2019 to 2020.
- 4 of 7 improved from 2020 to 2021

# FIVE-YEAR GRADUATION RATE

## NCA&T Compared to the UNC System

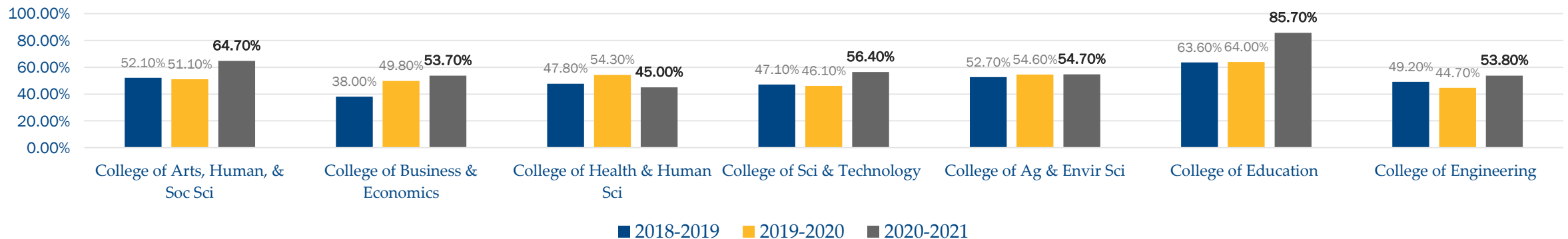
5-YR Graduation Rate



NOTE:

- UNC System has a +2.5 net improvement.
- NCAT has a +6.6 net improvement

5-YR Graduation Rate by College



NOTE:

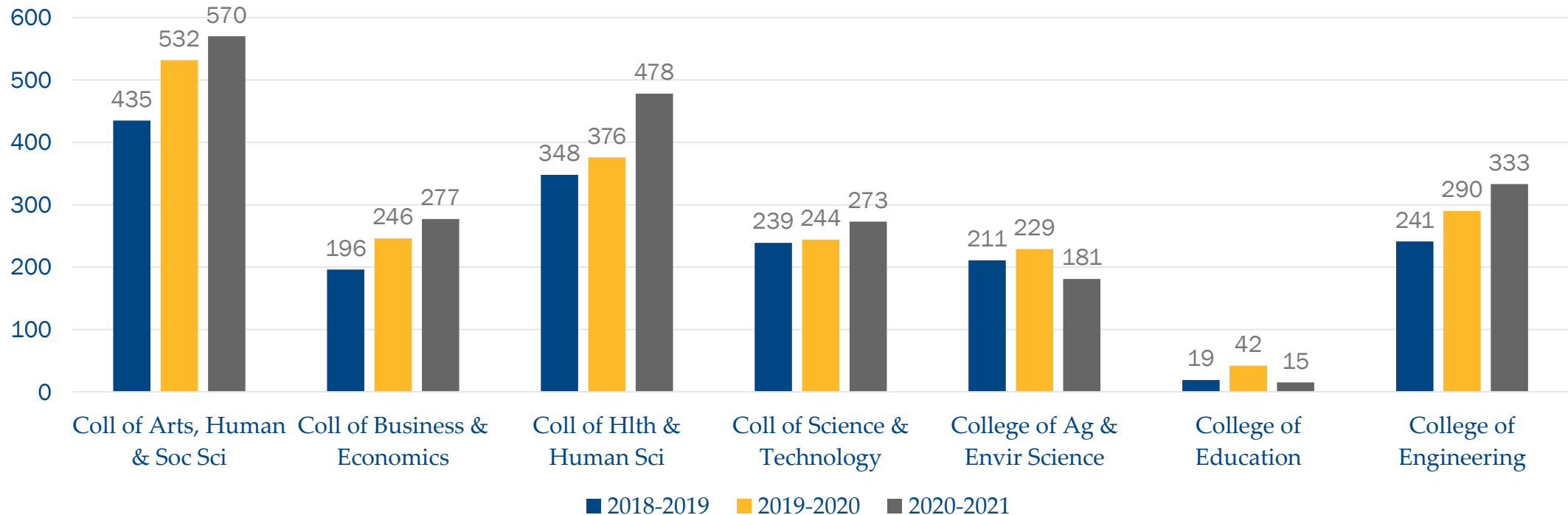
- 4 of 7 Colleges improved from 2019 to 2020.
- 6 of 7 improved from 2020 to 2021.

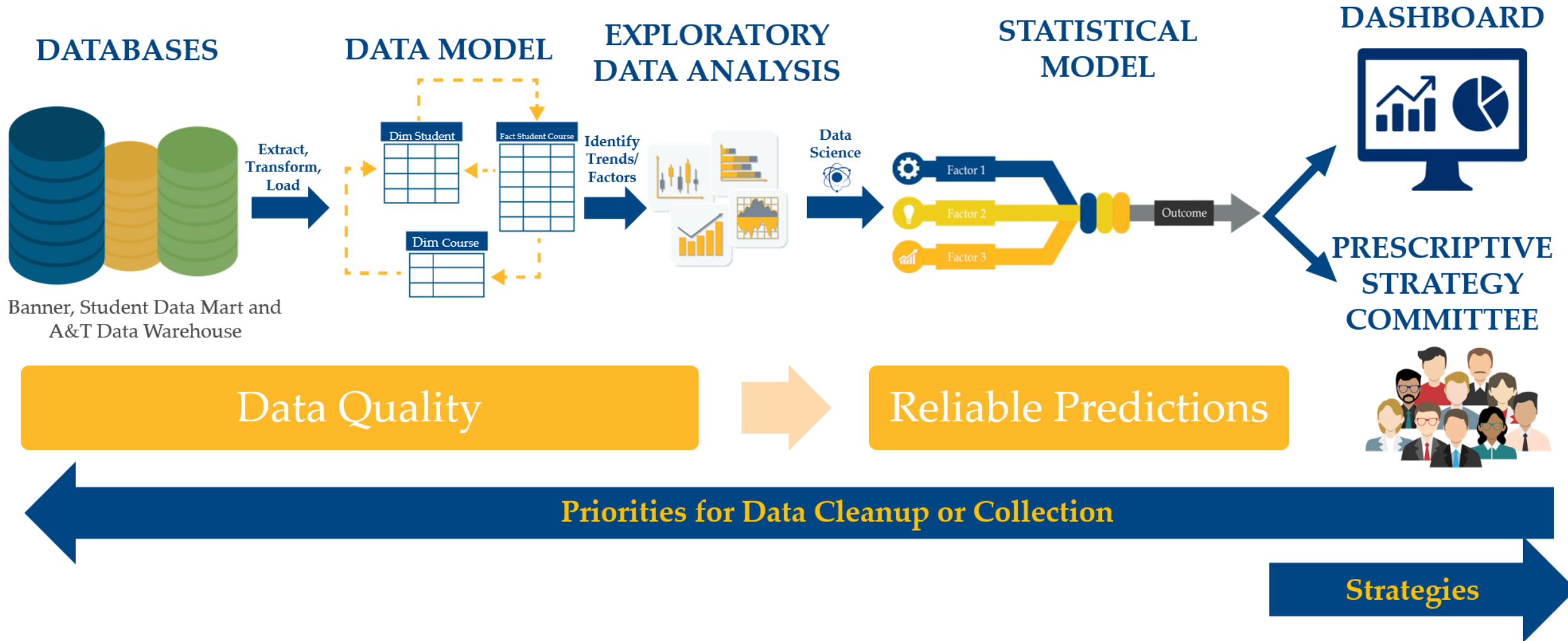
# BACHELOR'S DEGREES AWARDED

NOTE:

- 5 of 7 Colleges are trending upward.
- 7 of 7 improved from 2019 to 2020.

Bachelors Degrees Awarded



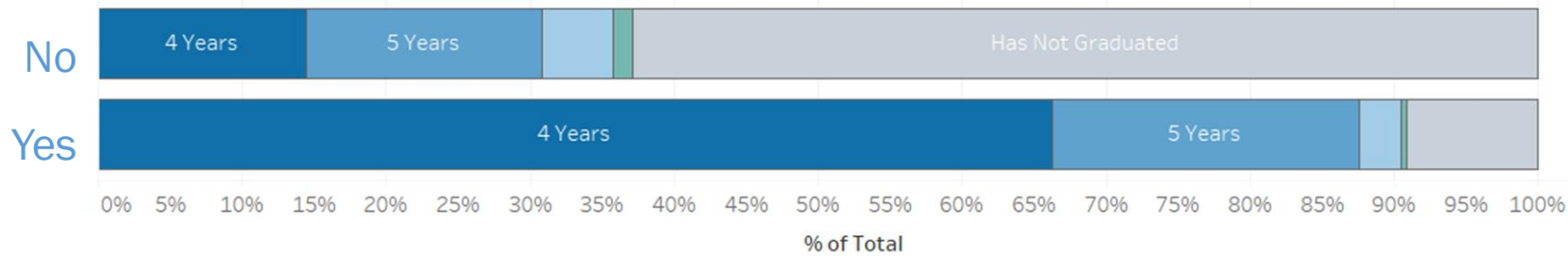


# NCA&T MILESTONE MODEL

## The Early Indicator

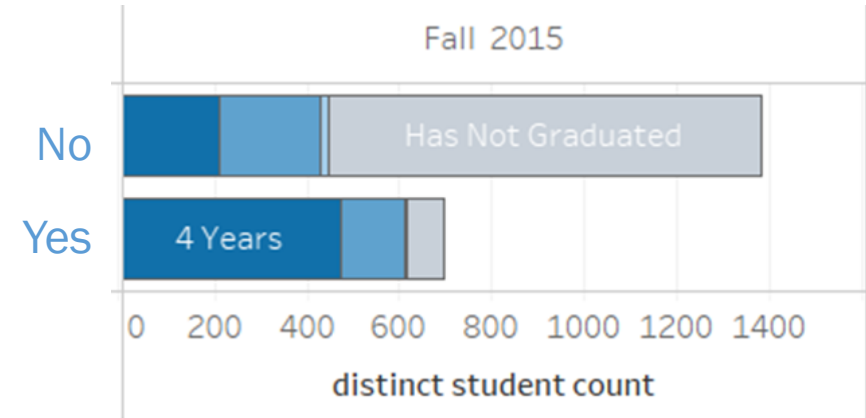
3.0 GPA after 4 terms vs Graduated after X Years (Percent)  
Matriculation Terms: Fall 2013, Fall 2014, Fall 2015

Hit  
Milestone



Graduated Within (Stacked)

■ 4 Years ■ 5 Years ■ 6 years ■ More than 6.. ■ Has Not Gra..



**ABOUT HALF OF STUDENTS NOT HITTING THE MILESTONE AREN'T ENROLLED AFTER 4 TERMS**

# WHAT DOES THE PREDICTIVE MODEL TELL US?

- Focus on academic support for hitting the milestone: 3.0 GPA at the end of four terms.
- Provide support for courses that affect the GPA during the first four terms.
- Create a campaign around the 3.0 GPA goal.
- Educate academic advisors, college deans and department chairs of predictive outcomes

Snapshot Term Parameter  
Fall 2021

General Education DFW Report  
Red courses have a DFW rate >=30%

Course Parameter  
General Education Math

Show C- on separate column  
 Yes  
 No

Headcount Filter  
From 3

Course Abbreviation	Grade Grouping		
	Grand Total	ABC	DFW
MATH 101	287 (100.00%)	213 (74.22%)	74 (25.78%)
MATH 101E	670 (100.00%)	453 (67.61%)	214 (31.94%)
MATH 102	219 (100.00%)	144 (65.75%)	75 (34.25%)
MATH 103	515 (100.00%)	355 (68.93%)	160 (31.07%)
MATH 104	274 (100.00%)	131 (47.81%)	143 (52.19%)
MATH 107	20 (100.00%)	15 (75.00%)	5 (25.00%)
MATH 108	45 (100.00%)	34 (75.56%)	11 (24.44%)
MATH 110	295 (100.00%)	246 (83.39%)	49 (16.61%)
MATH 111	313 (100.00%)	264 (84.35%)	49 (15.65%)
MATH 112	218 (100.00%)	156 (71.56%)	62 (28.44%)
MATH 131	465 (100.00%)	352 (75.70%)	113 (24.30%)
MATH 132	213 (100.00%)	138 (64.79%)	75 (35.21%)
MATH 224	300 (100.00%)	250 (83.33%)	50 (16.67%)
MATH 231	222 (100.00%)	179 (80.63%)	43 (19.37%)

## Courses that impact Grade Point Average in Early Terms

“Obstacle courses”:

- CHEM 103 Foundations of Chemistry
- CHEM 106 General Chemistry VI
- HIST 130 NC A&T SU: Leg Soc Act
- MATH 103 College Algebra and Trig for Eng Sci I
- MATH 131 Calculus 1
- PHYS 101 Introduction to Astronomy

Failing one of these courses decreases the likelihood of graduating within four years



Fall 2019 New Student  
Milestone Model Last Trained: 3/16/2022

✓ Professional advisors will be able to use a dashboard with key predictors for hitting the milestone

3 - Medium Milestone Likelihood



(negative numbers indicate aid exceeds need)

*THANK YOU.*

*AGG  
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