

What Predicts North Star Completion at ACC

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About ACC



70,000 +
Students



80%
Undergraduates



11
Campuses



40%
Hispanic/Latino



73%+
Part-Time



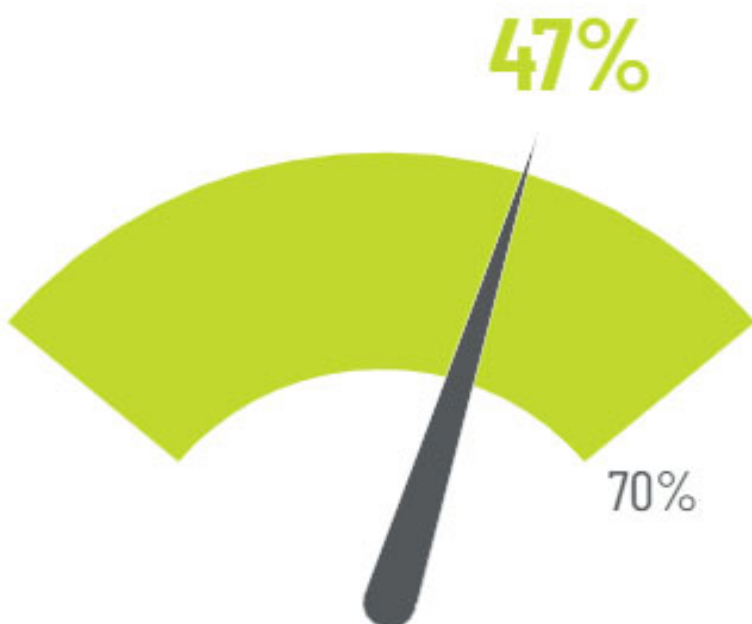
30%+
Age 25 or older



30%
FTIC 3-Yr Transfer



28%
Full-Time FTIC 3-Yr Graduation

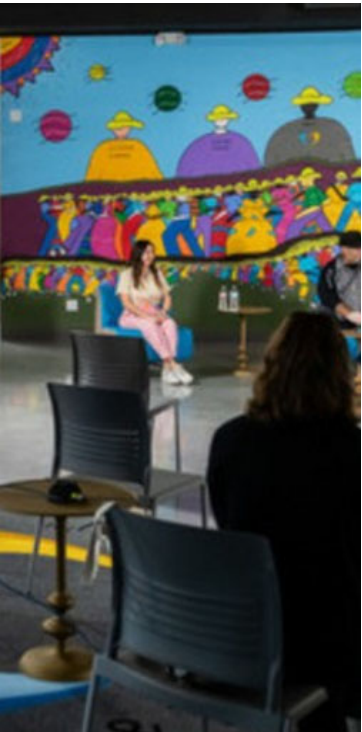


North Star Completion

The percentage of FTIC credential-seeking students who complete within three years of entry to ACC. Completion encompasses those

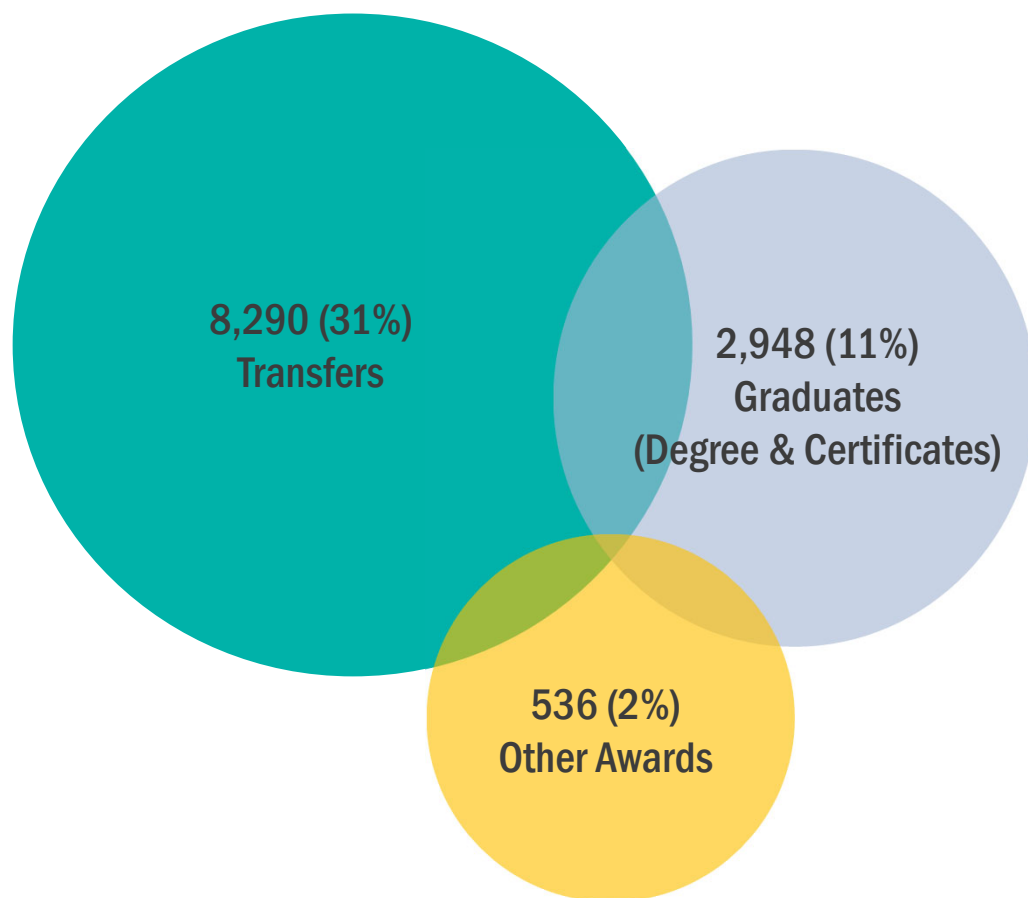
- ⊗ **Graduation:** who earn an associate degree, bachelor's degree, or certificate at ACC or at another institution, or
- ⊗ **Other awards:** who complete another award at ACC (CE Certificate, Institutional Award, OSA/MSA) or
- ⊗ **Transfer:** transfer to a 2-year or 4-year institution

Research Questions



- ❁ **Entry Analysis:** Which factors at the point of entry significantly predict three-year completion for FTIC students?
- ❁ **First Year Analysis:** Which factors within the first year significantly predict three-year completion for FTIC students?
- ❁ **Comparative Analysis:** Do these factors differently impact graduation and transfer outcomes for FTIC students over the three years?

Overview of the Data



26,683 Total
FTIC 2015 - 2020 Cohort

10,075 (38%)
North Star Completion

Methodology

Dependent

Logistic Regression

- ⊗ North Star Completion (Yes/No)
- ⊗ Graduation (Yes/No)
- ⊗ Transfer (Yes/No)

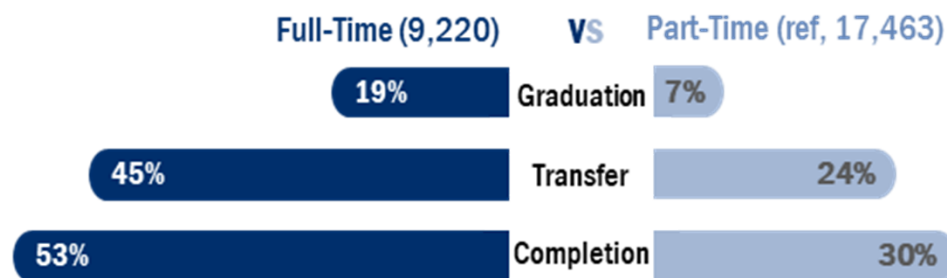
Independent

- ⊗ FT/PT in first term
- ⊗ Dual credit (0, 1-10, 11+)
- ⊗ Race/ethnicity (5 groups)
- ⊗ Gender (2 groups)
- ⊗ Age group (25+ vs 25-)
- ⊗ Residency (4 groups)
- ⊗ Low-income (Yes/No)
- ⊗ W/M/R mandated (Yes/No)

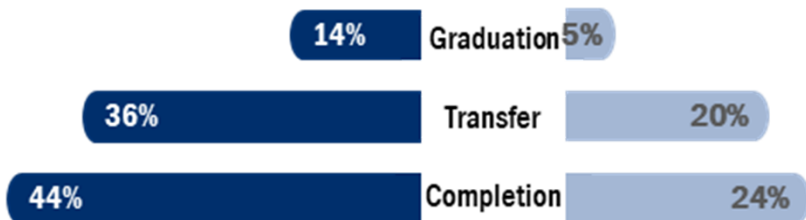
Independent

- ⊗ High school rank (11 groups)
- ⊗ Intent (4 groups)
- ⊗ Area of study (11 groups)
- ⊗ Cohort group (2 groups)
- ⊗ Need-Based Financial aid (Yes/No)
- ⊗ Major region for class taking (6 groups)

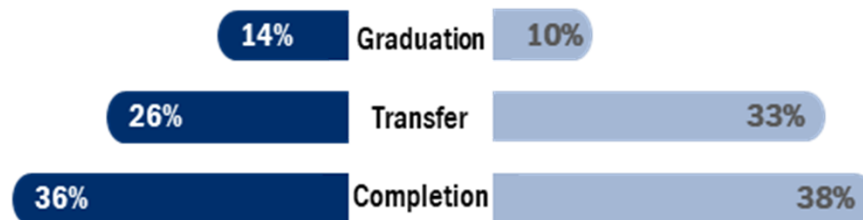
Description of Key Variables



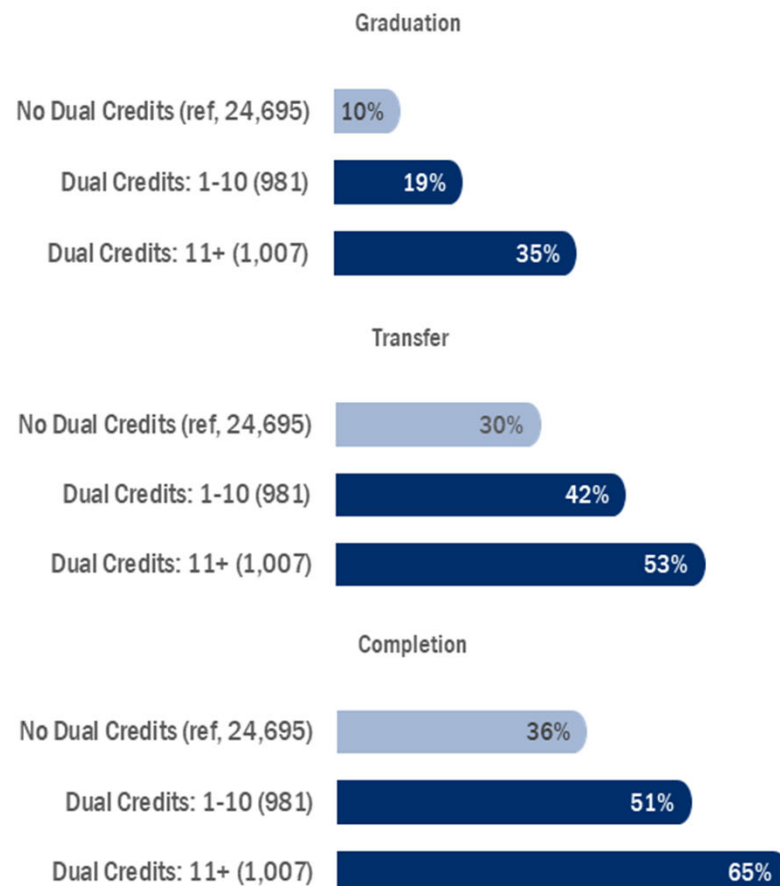
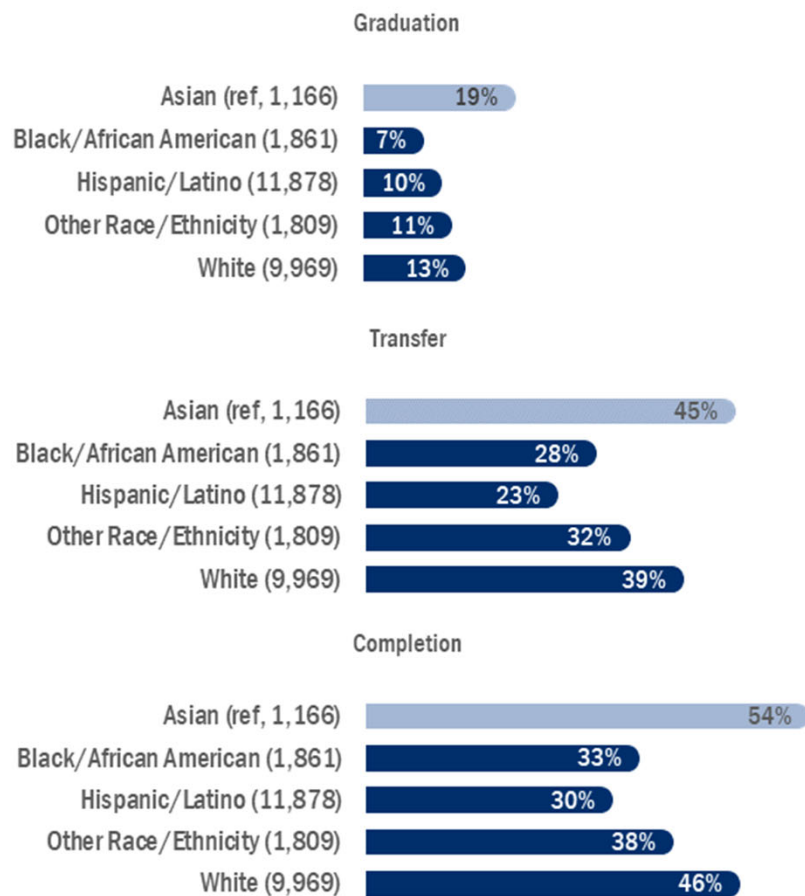
Not Mandated to Math (8,439) VS Mandated to Math (ref, 18,244)



Received Financial Aid (6,993) VS Not Received (ref, 19,690)

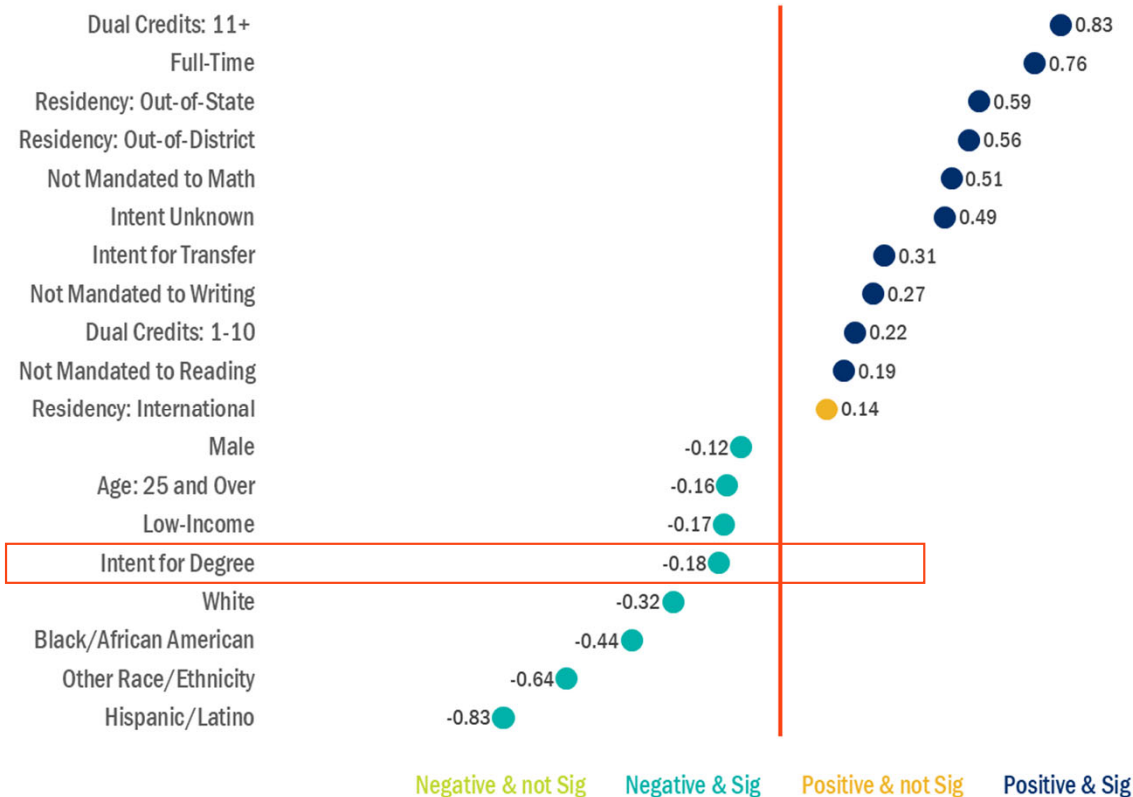


Description of Key Variables



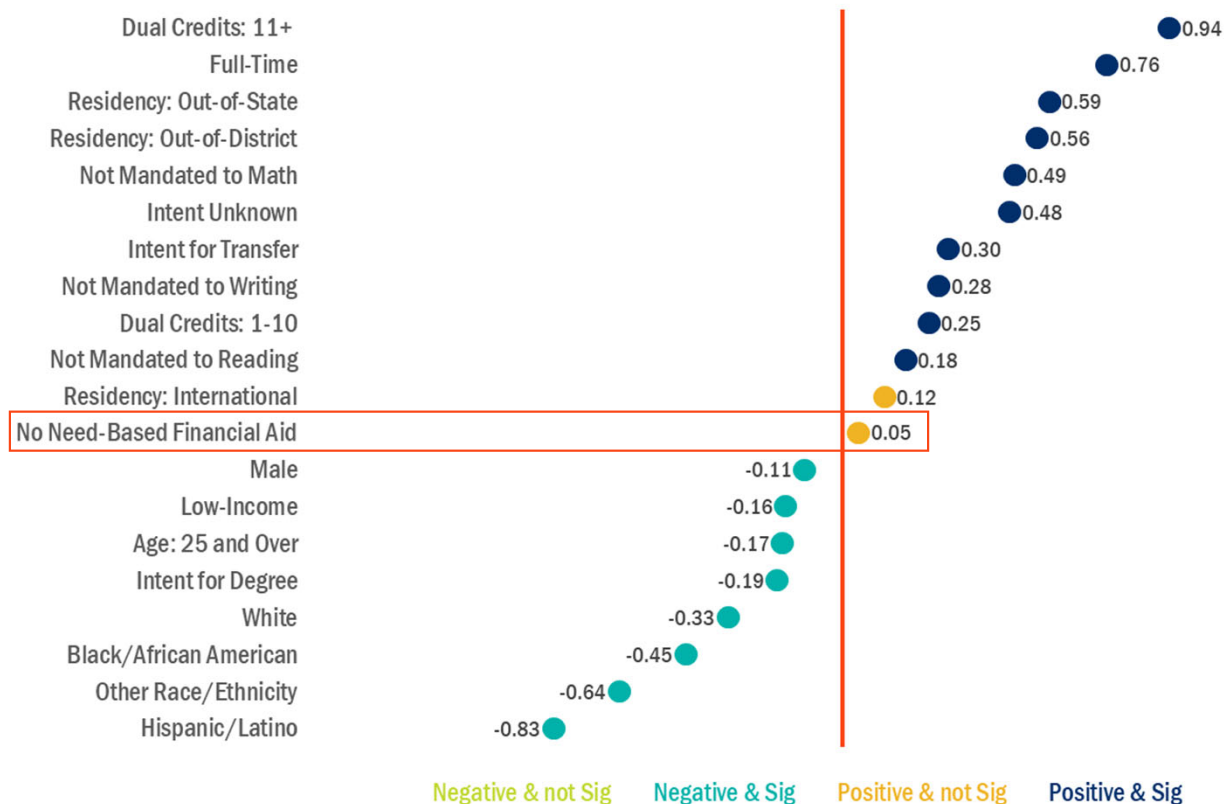
Key Findings

Log Odds of Logistic Models for Entry Analysis on Completion



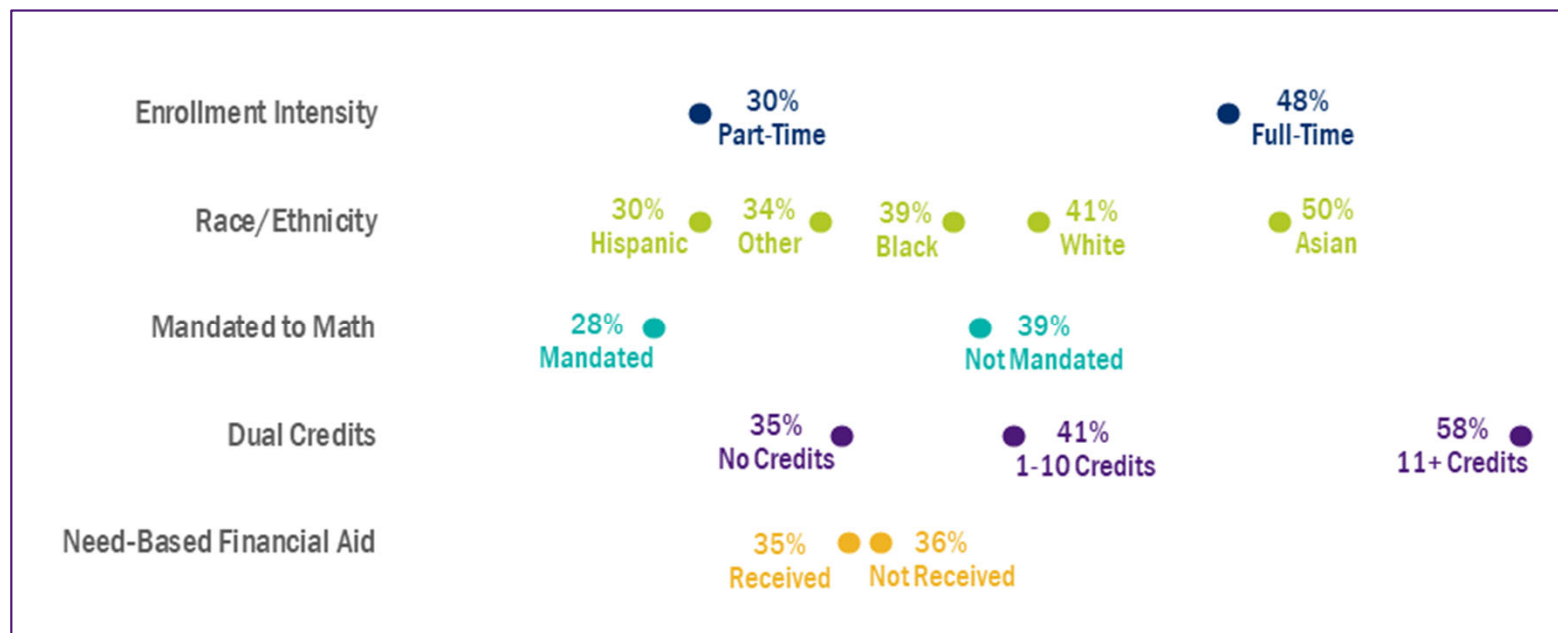
Key Findings

Log Odds of Logistic Models for First Year Analysis on Completion



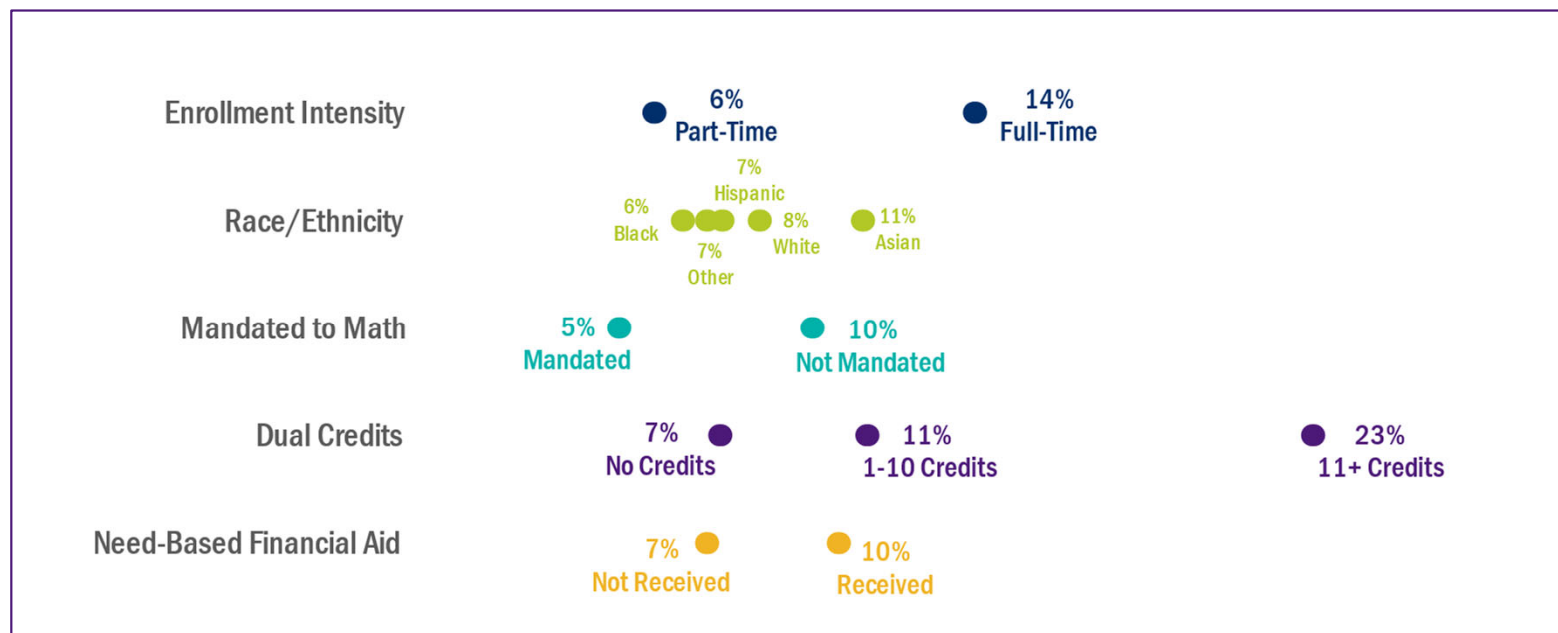
Key Findings

Estimated Probability of North Star Completion



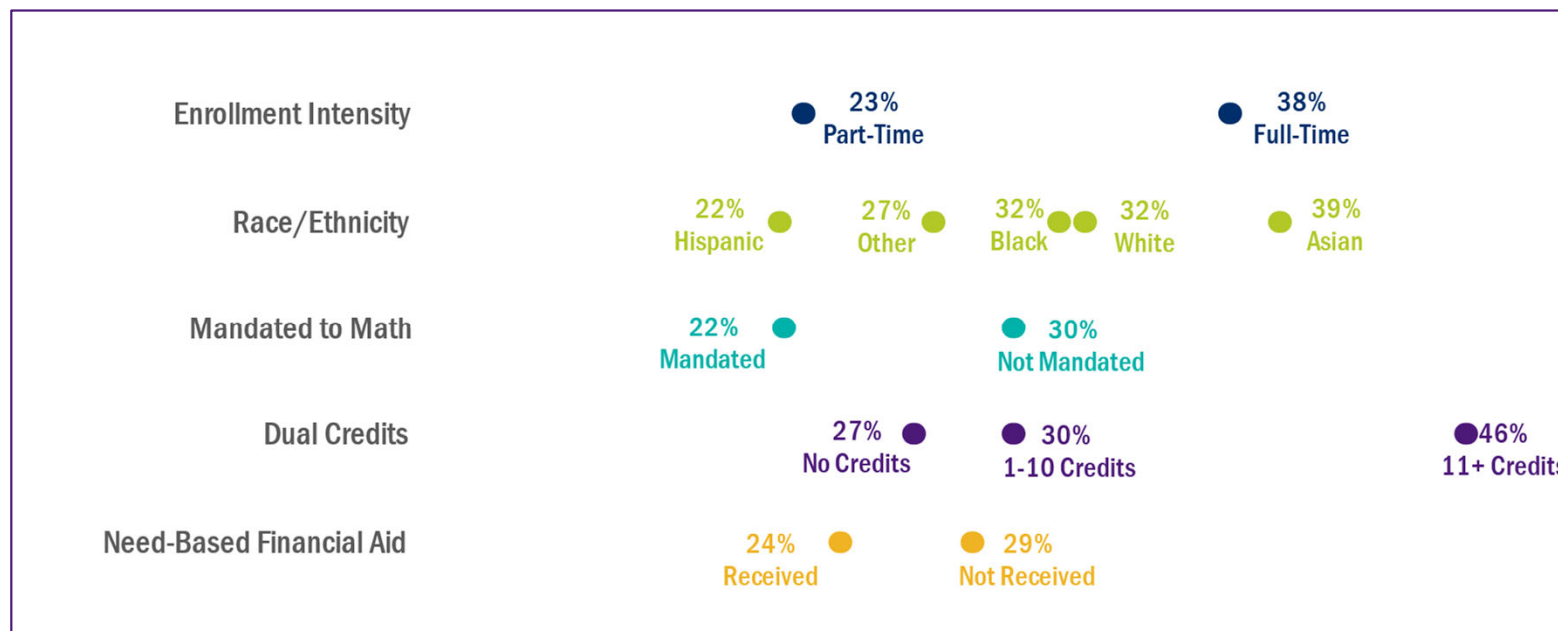
Key Findings

Estimated Probability of Graduation



Key Findings

Estimated Probability of Transfer



Conclusion

Similarly Impacting Graduation, Transfer, and Completion

Positive

- ✿ Full-time in first term
- ✿ Dual credit (1-10, 11+)
- ✿ Asian
- ✿ Female
- ✿ Not low-income
- ✿ Not W/M/R mandated
- ✿ Higher high school rank

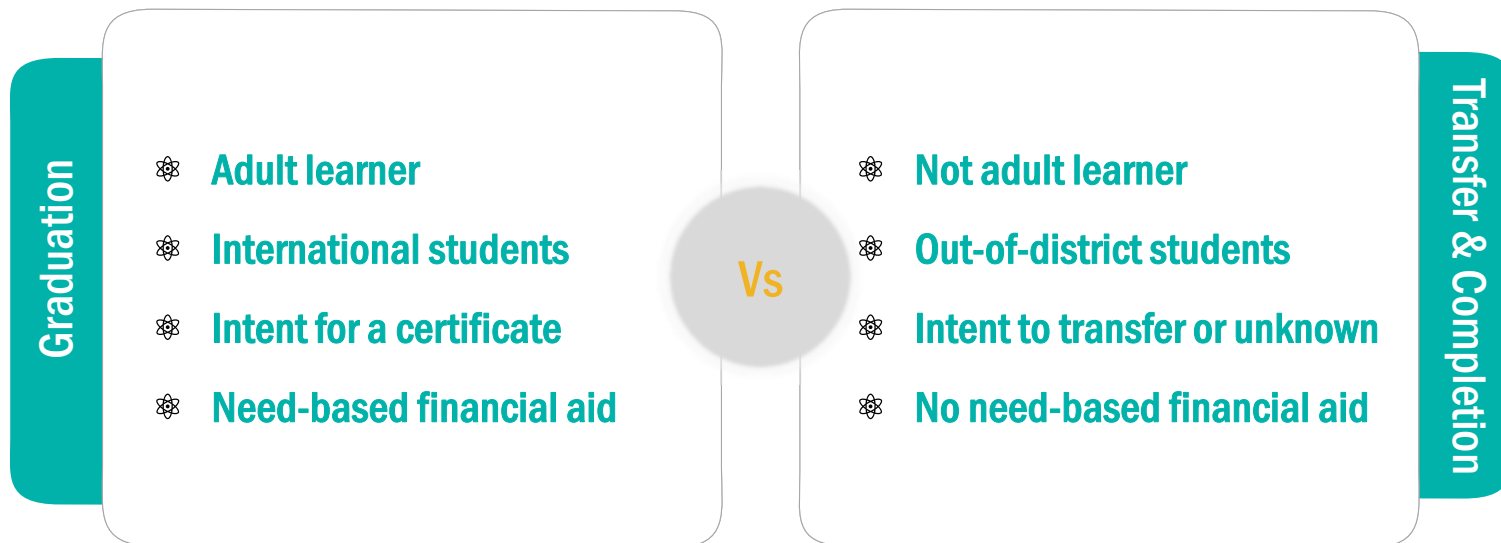
Vs

- ✿ Part-time in first term
- ✿ Dual credit (0)
- ✿ Not Asian
- ✿ Male
- ✿ Low-income
- ✿ W/M/R mandated
- ✿ Lower high school rank

Negative

Conclusion

Differentially Impacting Graduation, Transfer, and Completion



Discussion



(N = 26,683)	Model 1 - Entry Data			Model 2 - Entry + One Year Data		
	Completion	Graduation	Transfer	Completion	Graduation	Transfer
Intercept	-1.6574***	-3.9837***	-1.9745***	-1.4156***	-3.5284***	-1.9207***
Not Received (ref=Received Need-Based Financial Aid)				0.046	-0.4312***	0.2363***
Sites/Centers (ref=Distance Learning)				-0.5061***	-0.1194	-0.741***
Central				-0.1157*	-0.0927	-0.0488
North				-0.3255***	0.0157	-0.3264***
South				-0.2719***	-0.4382***	-0.199***
Mix				-0.4983***	-0.3182**	-0.5017***
Overall model evaluation						
Likelihood ratio test	3921.9848	2212.0634	4487.1052	4015.3172	2362.5952	4635.8488
(P-value)	(<.0001)	(<.0001)	(<.0001)	(<.0001)	(<.0001)	(<.0001)
Goodness-of-fit test						
Hosmer-Lemeshow test	20.4656	11.7907	19.3116	26.1762	15.2396	39.5259
(P-value)	(0.0087)	(0.1608)	(0.0133)	(0.001)	(0.0547)	(<.0001)

Note:

1. *** P< 0.001, **P< 0.01, *P< 0.05
2. The models also control for high school class ranking and area of study in FTIC term.

Discussion

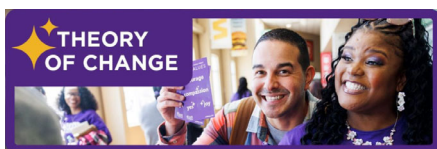


01 High school academic records: SAT, GPA

02 Tutoring/coaching data in 2020

03 Distance learning

Discussion



Theory of Change Pillars

Start Strong



Enroll Full time



Meet Basic Needs



Belonging and Connection





Future Work

- ⊗ Factors impacting dual credits
- ⊗ Factors influencing full-time enrollment



A photograph of a campus courtyard. In the background is a large brick building with a prominent multi-paned window. The courtyard features a paved walkway, green metal benches, and solar-powered light fixtures. Several people are walking on the path. A purple rectangular overlay is centered in the image, containing white text.

Q & A

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What Predicts North Star Completion at ACC

Xiaoling & Susan

Feb 26 @ 3:45 pm

Scan the QR code
to complete the
session survey.



Texas Association for Institutional Research

Annual Conference: February 25-28, 2025
Omni Hotel in Corpus Christi, TX

