# **Retention and Student Success: A Study of FTFT First-Generation Students at UNC Pembroke**

### Introduction

#### **Purpose of the Study**

The purpose of this study is to explore what are the significant predicting factors of first-year retention and six-year graduation in the first-generation FTFT student group at UNC Pembroke.

### **Population**

Using the Fall 2008 – Fall 2010 student cohort data at UNC Pembroke, we study the first-time, full-time (FTFT), and first-generation students first-year retention and six-year graduation.

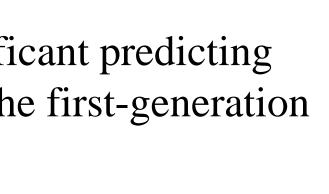
### **Research Questions**

Using the Fall 2008 – Fall 2010 student cohort data at UNC Pembroke, we study the first-time, full-time (FTFT), and first-generation students first-year retention and six-year graduation.

## **Logistic Regress Models For Retention & Graduation**

Table 5-2. Estimation of Resaits jor	r FTFT Freshmen Cohorts from Fall 2008 to Fall 2010 (N = 1393).								
	Reference	First-year Retention			Six-Year Graduation				
		В	Sig.	Exp(B)	В	Sig.	Exp(B)		
Age Group (Age<19)	Age $\geq 19$	0.415*	0.014	1.515	0.268	0.12	1.30		
Gender	Female								
Male		0.083	0.544	1.087	-0.235	0.068	0.79		
Race/Ethnicity	White								
American Indian or Alaska Native		0.343	0.125	1.409	0.355	0.093	1.420		
Black or African American ★		0.905***	0.0000	2.471	0.975***	0.0000	2.65		
Hispanic		0.18	0.573	1.198	0.267	0.41	1.30		
Two or more races		1.07	0.115	2.917	0.412	0.457	1.50		
County Tier	Out-of-state								
Tier 1		1.301***	0.0000	3.673	0.886**	0.007	2.42		
Tier 2		1.148**	0.001	3.152	0.817*	0.019	2.26		
Tier 3 🛨		0.931**	0.002	2.536	0.449	0.178	1.56		
Fall Term GPA (Group)	< 2.0								
Fall_Term_GPA_Coded( $\geq$ 3.5)		1.565***	0.0000	4.783	2.457***	0.0000	11.66		
Fall_Term_GPA_Coded(≥3.0 & <3.5)		1.566***	0.0000	4.786	2.220***	0.0000	9.20		
Fall_Term_GPA_Coded(≥2.5 & <3.0)		1.612***	0.0000	5.014	1.699***	0.0000	5.4		
Fall_Term_GPA_Coded(≥2.0 & <2.5)		1.034***	0.0000	2.811	1.269***	0.0000	3.55		
Fall Term DFW (Group)	No								
Yes		0.384	0.079	1.468	0.032	0.859	1.03		
Fall Remedial Flag	No								
Yes		0.236	0.176	1.266	-0.026	0.886	0.97		
Fall Major	Undecided								
Decided		-0.132	0.464	0.876	0.05	0.765	1.05		
Low Income Family 🛧	No								
Yes		-0.497**	0.004	0.609	-0.330*	0.035	0.71		
Scholarship & Grant	No								
Yes		0.462*	0.016	1.587	0.2	0.272	1.22		
High School GPA		0.534**	0.001	1.706	0.517**	0.001	1.67		
Diff_Credit Hours (#) 🛧		-0.069**	0.003	0.934	-0.05	0.067	0.95		

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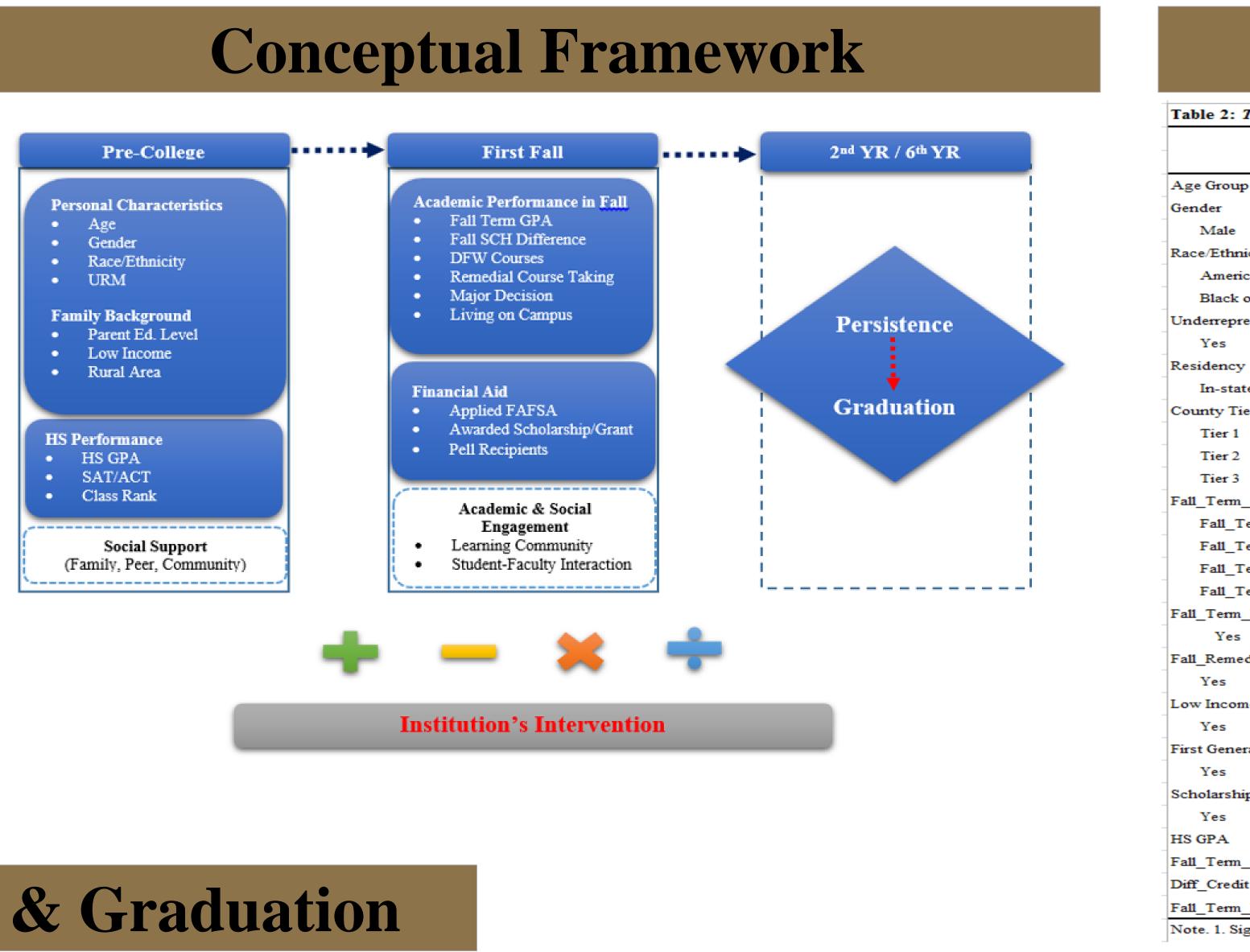


Table 2: Tests for Individual Variables Asso	Reference	rst-YR Retention and 6-YR Graduation (N = First-year Retention			= 3151). 6-YR Graduation		
Model		B	Sig.	Exp(B)	B	Sig.	Exp(B)
Age Group	>=19	0.272**	0.005	1.312	0.252**	0.009	1.28
Gender	Female						
Male		-0.163*	0.037	0.85	-0.385***	0.000	0.6
Race/Ethnicity	White						
American Indian or Alaska Native		0.239	0.054	1.27			
Black or African American		0.300**	0.001	1.349			
Underrepresented Minority (URM)	No						
Yes		0.271**	0.001	1.311			
Residency	Out-of-state						
In-state		0.832***	0.000	2.298	0.581**	0.003	1.78
County Ties	Out-of-state						
Tier 1		-0.705***	0.000	0.494	-0.433*	0.031	0.64
Tier 2		0.199*	0.026	1.22	0.230**	0.007	1.25
Tier 3		0.254*	0.041	1.289	0.230*	0.045	1.25
Fall_Term_GPA_Group	< 2.0						
Fall_Term_GPA_Coded: A (>=3.5)		1.711***	0.000	5.533	2.744***	0.000	15.54
Fall_Term_GPA_Coded: B (>=3.0 & <3.5)		1.827***	0.000	6.214	2.446***	0.000	11.54
Fall_Term_GPA_Coded: C (>=2.5 & <3.0)		1.682***	0.000	5.378	2.053***	0.000	7.79
Fall_Term_GPA_Coded: D (>=2.0 & <2.5)		1.347***	0.000	3.847	1.555***	0.000	4.73
Fall_Term_DFW (Y/N))	No						
Yes		-0.902***	0.000	0.406	-1.192***	0.000	0.51
Fall_Remedial_Flag (Y/N)	No						
Yes		-0.212*	0.021	0.809	-0.370***	0.000	0.69
Low Income Family	No						
Yes					-0.177*	0.016	0.83
First Generation*Low Income Family	No						
Yes					-0.189*	0.028	0.82
Scholarship & Grant	No						
Yes		0.223*	0.012	1.25			
HS GPA	Numeric	0.834***	0.000	2.303	1.105***	0.000	3.02
Fall_Term_GPA	Numeric	0.961***	0.000	2.614	1.21***	0.000	3.35
Diff_Credit Hours (#)	Numeric	-0.137***	0.000	0.872	-0.178***	0.000	0.83
Fall_Term_DFW (#)	Numeric	-0.489***	0.000	0.613	-0.66***	0.000	0.51

# Findings

- As expected, students' academic performance in high school and in first fall term in college were key predicting factors for student success, both for first-year retention and six-year graduation.
- The difference between students' attempted and earned credit hours in first fall term had a negative impact on first-year retention, but it did not have significant impact on students' long-term goal of sixyear graduation.
- First-generation students who were from **rural areas** in NC were positively associated with first-year retention and six-year graduation, particularly the students from Tier 1 counties.
- First-generation students awarded with scholarships and grants showed positive impact on first-year retention, but not on six-year graduation.
- First-generation students from low-income family were negatively associated with both first-year retention and six-year graduation.

# **Recommendations for Further Study**

- Focus on transfer-out in first year and senior year, particularly students who were from Tier 3 counties. • Add other potential influential factors:
- Information from Card Readers EAB;
- Students in Early Alert system;
- Build high school performance index to include other influential factors (HS GPA+SAT/ACT).