

Fall 2010Freshman Cohort Retention Report

Executive Summary

This reportsummarizes the tention of 1,654 tudents in the Iniversity of South Alabama (USA) Fall 2010 first time full-time baccalaureate degree seeking freshman cohort. The retention rate for the Fall 2010 freshman cohort was 65%. Resimble catedretention of students with lower high school GPAs and students with lower ACT Composite scores coacern. As with the Fall 2000 Fall 2008, and Fall 2009 cohorts,

Similarly, students who hadraACT Compositescore of 20 or lowepersisted at rates lower than the cohort retention rate66%). The mean difference between retention of students with a high school GPA of 3.51 or higher in comparison all other high school BA groupswas statistically significant. Except for students with a ACT Composite score of 279, the mean difference between retention of students with an ACT Compositescore of 30 or higher in comparisonall other ACTComposite scoregroups was also statistically significants and action of the students. ANOVA Tables).

EnvironmentaVariable CrossTabular Results

For the environmental variables included in this analysis, persistants illustrated that receiving scholarship positively affected retention (seebTea2). Students receiving a freshman scholars [4]%) or otherscholarship (67%) persisted at rates hightenanthe cohort retentionate (65%). Additionally, the mean difference between tudents who received reshman scholarship ompared to students ho did not receive a freshman scholarship was statistically signif (seet Appendix Independen T-Test Tables)

Table 2: Comparisons of Environmental Variables to Fall 201 Cohort Retention Rate						
Variable	Retention Rate >= 65%	Count	Retention Rate < 65%	Count		
*F	·	•		•		

Finally, in terms of the orientation session attended, persistence frates ents who attended the May orientation session and the three Freshman Summer orientation sessions were higher than the persistence rate of the overall cohort (5%). Persistence rates based on the orientation session attended ranged from a high of 76 per tefor students who attended the Freshman Sessie orientation to a low of 45 percent for students what tended either the August or a Transferientation session. When using the August Transferorientation sessions a comparison group, there was ganificant mean difference between the Agust Transferorientation sessions comparison to all other ientation sessions (see Appendix: ANOVA Tables).

Outcome Variable Cross Tabular Results

The outcome variables corporated into install analysis include the number of hours arned hrough Summer 2011 at USA and the USA GPA through Summer 2011. Unsurprisingly, as the number of USA hoursearned no reased the

significant variables that contribute to the classification of individuals by using an algorithm to determine the importance of predictor variables. Stepwise logistic regression was used to identify significant variables in the model for predicting outcome variable. Results of the final step for the model are reported including the classification rate for the model. Additionally, an analysis of the proportionate change in odds for significant variables is provided.

As a part of this study, the dogistic models were tested. The first model included the input variables. The second model included the input variables and the environmental variables. The third model tested the outcome variables which were mber of USA hour earned through Summer 2011 and USA GPA through Summer 201to see what happened when these outcomes were used as predictors of retention.

The number of students (selected cases conditions) the cohorthad missing data, typically high school GPA and or ACT Composites core. Because complete cases were required to compute the results, the final number of students used for each model ranged from a low or students or the first and second models to a highor 1,621 students for the third model. The retention.

Table 5: Input Model Final Variables in the Equation

B S.E. Wald df Sig. Exp(B)

Table 7: Input and Environmental Model Final Variables in the Equation

									C.I.for P(B)
		В	S.E.	Wald	df	Sig.	Exp(B)	Lower	Upper
Step 1 ^a	HS_GPA 2.5 or lower			69.449	3	.000			
	HS_GPA 2.51-3.0	.300	.243	1.526	1	.217	1.350	.839	2.173
	HS_GPA 3.01-3.5	.654	.236	7.663	1	.006	1.924	1.211	3.057
	HS GPA 3 51-4 0	1 403	235	35263951					

For thethird model (see Table 2) nly hoursearned at USA as significant. The third model showed the odds (Exp B) of a student returning were greater students with morehours earned (6.52=2.941, 12.5-18=5.551, 18.524=25.152, 24.530=63.247, 30.5 or more 32.579) than for students with vor fewerhours earned by Summer 2011. Furthermore intervals (95%) r all USA hoursearned comparison groups did nethcompass an odds value lessen one.

Table 9: Outcome Model Final Variables in the Equation

B S.E. Wald

Table 10: Five Year Retention Rate Peer Comparisons * Ranked by 2008 Cohort Retention Rate * High to Low

Institution Name	2008 Cohort Retention	2007 Cohort Retention	2006 Cohort Retention	2005 Cohort Retention	2004 Cohort Retention
University of Central Florida	87	86	84	82	83
University of South Florida-Main Campus	86	88	81	81	82
Auburn University Main Campus	86	87	86	87	85
Virginia Commonwealth University	83	85	82	81	80
University of Alabama	83	84	87	85	86
Georgia State University	83	82	82	79	80
University of Texas at Dallas	83	82	81	80	82
University of North Florida	83	78	77	78	75
University of Alabama at Birmingham	82	80	75	75	77
Florida International University	81	81	84	78	75
Old Dominion University	80	80	73	76	77
University of Houston	79	79	77	76	77
Texas State University-San Marcos	79	77	74	76	74
East Carolina University	79	76	77	79	76
Florida Atlantic University	79	75	74	73	72
University of West Florida	79	71	73	75	74
University of Alabama in Huntsville	76	77	77	77	75
University of North Texas	76	75	74	76	75
University of Memphis	76	75	73	72	71
University of Missouri-Kansas City	74	76	71	70	68
Louisiana Tech University	74	72	72	72	72
University of Texas at El Paso	71	70	68	68	68
Wichita State University	70	72	67	70	69
East Tennessee State University	70	67	69	71	69
University of New Orleans	69	69	69	79	-
University of South Alabama	67	67	70	72	70
Lamar University	66	65	66	60	61
University of West Alabama	65	62	71	62	65
University of Texas at Arlington	65	60	61	62	69
Texas A & M University-Corpus Christi	62	59	60	58	60
University of Texas of the Permian Basin	61	54	62	57	59
Auburn University at Montgomery	58	61	54	63	57

Note: Hurricane Katrina impacted the University of New Orleans 2004 cohort retention rate.

Source: National Center for Education Statistics IPEDS Data Center

Implications

Based on what we know about a student beforettine t steps foot on campursp(ut variables) retention of students with lower high school GPansistudents with lower ACT composite scores is concern. This prompts further reflection regarding admission standards and the allocation of resources to support at risk students.

When we look at the institution and other support provided to a student (environmental varial blass), like with the Fall 2007, Fall 2008, and Fall 2009 coh prthe orientation session students in the Fall 2010 cohortattended provided a significant predictor student persistence with students attending the earlier Freshman Summerientation sessions more likely to persist than students attending the later orientation

sessionsThe orientation session attended by stustementinues to provide a key factfor identifying at risk freshmen studentsarly in their college experience.

In addition, past IRPA studies have looked at the contribution of freshmen scholarships to recruitment and retention goals. As with earlier studies, importance of awardinfreshman scholarships for students was cleaned ditional merit based teshman scholarships bould also be considered in order to attract top students to the institutisincethe data suggests udents with freshman scholarships also very likely to return to continue their studies at USA the following year

Future Retention Research

This report is the first of twoetentionstudies about the Fall 2010 freshman cothoant will becompleted by Institutional Research, Planning Assessment during the Fall 2011 seme Thee. second etention study will use National Student Clearinghouse data to explore the issue of "Where did USA Fall 2010 freshmen non returning students?" This studywill determine howmany non returning freshmen students tansferred another college or university "stopped out" of college altogether.

Housing * Independent Samples Test

Levene's Test for Equality of Variances

t-

Housing

ANOVA Tables

Age * Multiple Comparisons Returned Games-Howell

(I) Age (J) Age 95% Confidence Interval Std. Mean Difference (I-J) Error Sig.

Region * Multiple Comparisons Returned Games-Howell

(I) Region	(J) Region	Mean	Std.		95% Confide	ence Interval
		Difference (I-J)	Error	Sig.	Lower Bound	Upper Bound
Mobile or	Rest of Alabama	012	.029	.998	09	.07
Baldwin	Mississippi Service Area	.042	.043	.927	08	.16
County	Florida Service Area	051	.055	.943	21	.11

ACT Composite * Multiple Comparisons Returned Games-Howell

(I) ACT	(J) ACT	Mean	Std.		95% Confid	ence Interval
		Difference (I-J)	Error	Sig.	Lower Bound	Upper Bound
18 or lower	19-20	077	.042	.458	20	.04
	21-23	110	.041	.075	'	.01
	24-26	137 [*]				

95% Confidence Interval Lower Bound Upper Bound

USA Peer Comparison Group

Institution Name	City	State
Auburn University at Montgomery	Montgomery	AL
Auburn University Main Campus	Auburn	AL
East Carolina University	Greenville	NC