

2007 Freshman Cohort Retention Report

Overview

The following report summarizes retentiof the 1,418 first-time full-time baccalaureate degree seeking freshman staidethe University of South Alabama (USA) Fall 2007 freshman student cohort. Retiten in the context this report is defined as whether or not the freshman studentsisted and enrolled one year later in the Fall 2008 semester. The input-environment come (IEO) model developed by Alexander W. Astin over several years of researchigher education was used as a conceptual framework to guide this styris. The primary question addressed by analyzing student input varileds is, "What do you know about the student before he/she came to your institution?" The primary questiaddressed by analyzing the environment variables is, "What do you know about the vieonment and/or support provided to the student by the institution, government (etimancial aid), or pivate parties (e.g., scholarships)?" Outcomes include cognitive or affective variables which answer the question, "What effect did the vieonment have on the student?"

The variables included ithis analysis were selected based on input from administrators and faculty on campus. For this study, input version bere: location of student residency prior to entiron at USA, gender, ethning age, high school GPA, and ACT score. Environmental variables were the student received a freshman scholarship, whether the student received third party scholars with the student received financial aid, orientation seems attended, whether the student attended freshman seminar, whether the student lived on or off campus, and which college housed

¹ Astin, A. W. (2002) Assessment for excellence: The philosoand practice of assessment and evaluation in higher education. American Council on Eation, Oryx Press.

² Bay Area, Honors, Mitchell, Presidential, Starnes merit based scholarships.

³ Military/ROTC, vocational rehab, emploopddpreoai(hol)(erica)-. (L)-6 (A M0 TcS)7 (0.001FL tu)-. (i reh)-4 (, (ss.) (ttet

the major the student selected at initial follment. Endogenous outcomes of interest were total hours completed through the money of 2008 and the USA GPA the student attained through the Summer of 2008. Howether, primary outcome of interest for this study was whether or not the student persisted benrolled one yearter in the Fall 2008 semester. The research question addresse, of Wanich student caracteristics (inputs) and environmental characteristics (support flos A and others) can be used to best predict the persistence of USA freshman students?"

Cross tabular results for each variable and

at rates lower than the cohort retention (67%). Females (69%) persisted at a higher rate than males (65%) and at a slightly higher rate than the cohort retention rate (67%). African-Americans (54%) and Non-Resident Aliens (65%) persisted at rates lower than the cohort retention rate (67% Finally, as age increased by school GPA declined, or ACT score declined, retention decreased. Sttscheho were 19 or older, or had a high school GPA less than 3.01, or had an ACT score of below, persisted at rates lower than the cohort retention rate (67%).

Table 1: Comparisons of Input Variables to Fall2007 Cohort Retention Rate (High to Low)

Variable	Retention Rate >= 67%	Count	Retention Rate < 67%	Count
Region				

Table 2: Comparisons of Environmental Variablesto Fall 2007 Cohort Retention Rate (cont')

Variable Retention Rate >= 67% Count

Students with a USA GPA of 2.01 or abditeough Summer 2008 persisted at a higher rate (at least 73%) compared to studevith a GPA of 2.0 or below (39%) and compared to the cohort rate (67%).

hours and USA GPA through Summer 2008 to see what happened when these outcomes

Table 4: Model 1 Classification Table^a

		Predicted
		Returned
Observed	Yes	No

Table 5: Model 1 Final Variables in the Equation

					95.0% C.I.	for Exp(B)
		В	S.E.	Exp(B)	Lower	Upper
Step 1 ^a	HSGPA 2.5 or below	1.319	.231	3.740	2.376	5.886
	HSGPA 2.51-3.0	1.294	.176	3.646	2.584	5.146
	HSGPA 3.01-3.5	.651	.172	1.918	1.369	2.686
	Constant	-1.508	.124	.221		
Step 2 ^b	Other Ethnicity	343	.259	.710	.427	1.178
	African-American	.462	.168	1.587	1.141	2.206
	HSGPA 2.5 or below	1.191	.236	3.290	2.070	5.229
	HSGPA 2.51-3.0	1.232	.178	3.426	2.419	4.853
	HSGPA 3.01-3.5	.615	.173	1.849	1.318	2.595
	Constant	-1.530	.129	.217		

a. Variable(s) entered on step 1: HSGPA.

In terms of ethnicitythe odds of an African-American (1.59) student not returning were higher than for White students while the odds of students of another ethnicity (0.71) showed that they were more likely to return than White students. For African-American students, the interval (95%) inchated that the odds of an African-American not returning are indegreater than White students since the confidence interval did not encompassorated value lower than one. However, with students of another ethnicity, the confidence returning should be interpreted more cautiously since the confidence interval spans above and below an odds value of one.

The second model included the inpratriables and also the environmental variables. For each environmental variable included in the second model, a comparison group was selected (whether the studentimed a freshman scholarship=yes, whether the student received a third party scholarship=yeh, whether the student received financial aid=yes, whether the student attended freshman seminar=yes, orientation session

b. Variable(s) entered on step 2: Ethnicity.

c. Comparison group for HSGPA=3.51-4.0 and Ethnicity=White.

and ethnicity were significant in the final bothel (step 3). However, orientation session attended was also significant in the second deft. Once again, the final version (step 3) of the second model showed that the odds (EE)xpf a student to treturning were higher for students with the lowest high school GPAs (2.5 or below=2.48, 2.51-3.0=2.85, and 3.01-3.5=1.64) than for students with a high school GPA between 3.51-4.0. Additionally, all confidence intervals (95%) indicated that odds of a student with a lower high school GPA not returning are greater than defts with a high school GPA of 3.51-4.0 since the confidence intervals do not encompass an odds value lower than one.

Table 7: Model 2 Final Variables in the Equation

ï				-	95.0% C.I.	for Exp(B)
		В	S.E.	Exp(B)	Lower	Upper
Step 1 ^a	HSGPA 2.5 or below	1.324	.235	3.760	2.372	5.959
	HSGPA 2.51-3.0	1.296	.177	3.655	2.585	5.169
	HSGPA 3.01-3.5	.667	.173	1.948	1.388	2.733
	Constant	-1.521	.125	.218		
Step 2 ^b	HSGPA 2.5 or below	.993	.247	2.699	1.663	4.381
	HSGPA 2.51-3.0	1.084	.186	2.957	2.055	4.255
	HSGPA 3.01-3.5	.520	.178	1.682	1.188	2.383
	May Session	780	.487	.458	.177	1.189
	Summer 1 Session	-1.282	.268	.278	.164	.470
	Summer 2 Session	704	.261	.495	.297	.824
	Summer 3 Session	908	.250	.403	.247	.659
	Summer 4 Session	691	.244	.501	.311	.809
	Summer 5 Session	331	.221	.719	.466	1.107
	Constant	752	.220	.472		

Table 7: Model 2 Final Variables in the Equation (cont')

B S.E.

other orientation sessions had odds values@foreturninglower than the odds of a student who attended the Augusession of orientation forot returning(May=.44, Summer 1=.28, Summer 2=.50, Summer 3=.40, Summer 4=.49, Summer 5=.69). Additionally, only the May session of orientitan (0.17-1.15) and Summer session five (0.45-1.07) had a confidencedeinval with an odds ratios that captured an odds value greater than one. Therefore, it was clear from king at the confidence intervals that the odds of students attending the August session of orientation of turning are greater than the odds for students attending Summers one, two, three, and foun of returning and likely greater fonot returning than the odds of students attending the May or Summer session five orientation.

Model 3: Logistic Regression with Endogenous Outcome Variables Only

Since outcomes of student successdifferent from inputs (student characteristics or institutional/other support characteristics), the third model only included the endogenous outcomes of insteneumber of hours earned through the Summer of 2008 and USA GPA the studetained through the Summer of 2008. The first and second models can be used based on data known before or at least early on after the student comes to campus. This thirdder can only be used after Summer 2008 has ended. A model with input, environmentand endogenous outcome variables was also tested but the two outcome variables supprets be desults of the other edictors in the model (high school GPA flipped to show lower As Pwere more likely to return which is clearly not the case). Additionally, a simpler more parsimonious model is desirable and the classification rates for returning (same) and non returnation (3.9% lower) were almost identical.

The correct classification rate for sthhird model (see Table 8: Model 3 Classification Table) once again decrease for returning students. However,

Table 8: Model 3 Classification Table^a

ı				Predicte	d
				Returne	d
					Percentage
	Observed		Yes	No	Correct
Step 1	Returned	Yes	854	95	90.0
		No	166	287	63.4
		Overall Percentage			81.4

a. The cut value is .500

In the third model (see Table 9: Model 3 Final Variables in the Equation), only

Additionally, this third model was tested with only USA GPA used as a predictor (earned hours was excluded) of whether orstoodents would return (see Table 10: Model 3 Final Variables in the Equation). Rules showed that the odds of a studgent returning were greater for students with lower USA GPAs (2.0 or below=14.22, 2.01-2.5=3.29, 2.51-3.0=2.32, and 3.01-3.5=1.30). Only a USA GPA of 3.01-3.5 captured an odds value less than one (0.72-2.33) indicating there were distinct differences with retention based on USA GPA aftermagner 2008 at all other GPA levels.

Table 10: Model 3 Variables in the Equation

	-				95.0% C.I.for EXP(B)	
		В	S.E.	Exp(B)	Lower	Upper
Step 1	USA_GPA(1)	2.655	.238	14.222	8.922	22.671
	USA_GPA(2)	1.191	.271	3.290	1.936	5.593
	USA_GPA(3)	.840	.273	2.315	1.355	3.957
	USA_GPA(4)	.260	.298	1.297	.723	2.326
	Constant	-2.226	.219	.108		

Peer Comparisons

Finally, the Integrated PostsecondarduEation Data System (IPEDS) was used to compare USA to 25 peer institution gain a better idea graduation rates and retention rates (see National Ce

ACT, and Math ACT scores of first the degree/certificate seeking undergraduate students were almost identical at the 25 percentiles for undergraduate students compared to the peer group median. However, the test and six year graduation rates were lower in all tragories for USA compared to the peer group median, particularly for Black, non-Hispanic students (28% for USA compared to 43 % for peers).

Nægriceræde Ckeimigen for Education Statisticr6dthe 25

However, Kuh found that far too few sturds are exposed to the proven practices. First-generation college sturds and other traditionally underrepresented students in higher education are least likely to participant these techniques, even though research shows that first-generation college studend other traditionally underrepresented students benefit even more than their pelins primary reasons for these differences included cost and obtaining necessary faculty buy-in.

Minority Students

In terms of ethnicity, compared to Whisteudents, the reteroth rates and odds of students not returning who areanfother ethnicity (not involving international students) are similar to or lower than the odds of White students for not returning. However, the same is not true for African-American student of students in the Fall 2006 freshman cohort, the retention rate for African-American students in the Fall 2007 cohort dropped from 76% to 54%. With African-American students (258) representing 18.2% of the overall Fall 2007 cohort of 1,418 students large drop in mention of African-American students in the Fall 2007 cohort of the Fall 2006 cohort is an important issue of the fall 2006 cohort returns too's Tc -0.00 inde F0.0, ollege 0014 Tw 7.8.064 -1.725 Td [14.3270 the Fall7for Afrituden)Tj 01 2006 cohort is an important issue.

two institutions have made to raise the frican-American graduation rates to a point where both institutions actually graduate a slightly larger share of African American students compared to White

undertaken later this year to examineofnreturning students transferred to another

session five than any other orientations ien. Identifying ways to meet the class scheduling needs of students who attend tatientation sessions should also be a topic of discussion because many classes are filled by the end of the Summer. This makes creating a class schedule for students attending the tastrientation sessions more difficult.

Freshman Seminar

In a previous study by Institutional Reseta, rPlanning, and Assessment of this Fall 2007 cohort, the retentionate for the 1,376 students (69%) who took Freshman Seminar was much higher than the retentiate of the students who did not take Freshman Seminar (48%) and also highent the retention rate of the Fall 2007 freshman cohort (67%). When comparing defints who took Freshman Seminar in this cohort to students who did not take Freshman Seminar, the mean difference was statistically significant at the 000 p level. In short, taking Freshman Seminar positively impacted retention for this freshman cohort.

Similar to findings at USA, first-year programs including Freshman Seminar, learning communities, and the integration and ademic advising with first-year programs has been found to have the greatest contributo retention of 1,061 colleges surveyed by ACT in 2003. Noel-Levitz found similar results 2007 in a survey of 193 four-year institutions with the top thremstention strategies identified as 1) Freshman Seminar, 2) intrusive advising, and 3) early alert systems owever, according to John N. Gardner, who is nationally recognized for his efforts to develop and promote Freshman Seminar, retention is not the only recognized for benefit realized from seminar programs nor should it be. Rather it should have more substantivie tellectual rational.

Freshman Seminar is used by several institutions to assist students with

usage¹. Other benefits of Freshman Seminarlunde: 1) integration of academic and social elements found inside and outsideless, 2) increasing student interaction with each other, upper-level students, and waitbulty/staff, 3) increasing student involvement, commitment, and time on campus, 4) linking the curriculum to the cocurriculum (out of class experiences), 5) rigasing academic experiences and levels of academic engagement, and 6) assisting estts who have insufficient academic preparation for college. Freshman Seminar has also been linked to higher cumulative GPAs and earned credit hours with the seminar characteristics.

George Kuh, over his extensive careereisearching student engagement and success in directing the National SurvetyStudent Engagement (NSSE) research program, has also seen the positive benefits of a solid Freshman Seminar program on hundreds of campuses. When asked the question visits to these campuses, "What is the one thing we should do to increase student engagement and success on our campus?" Kuh states that there is growing evidence then done well, a handful of selected programs and activities appear to engagedicipants at levels that boost their performance across a variety of education and desired outcomes such as persistence and he specifically listed Freshreeminar as one of the more promising "high impact" practices.

Gardne¹⁵ offered a number of suggestions of how to increase Freshman Seminar effectiveness. He said training matters withurse effectiveness only as good as training support. Recurring hard monies for the course wital. Stand alone Freshman Seminars are not as effective because synergies owheren combining the course with service learning, living learning communities, learningmmunities, etc. Peer leaders strengthen

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¹¹ Barefoot, B. O. (2008). Gathering eviderwefirst-year seminar effectivenes adsworth E-Seminar Series February 25, 2008.

¹² Barefoot, B. O. (2000). The first-year experience: Are we making it any b**Atter** Campus January/February.

¹³ Sidle, M.W. & McReynolds, J. (1999). The freshman year experience: Student retention and student successNASPA Journal36(4), Summer.

¹⁴ National Survey of Student Engagement Experiences That Matter: Enhancing Student Learning and Success Annual Report 2007.

¹⁵ Gardner, J. N. (2007). Strategies and good counsel/foinistrators of first-year seminars: Effective leadership for new student success and reter@engage Publishing/Wadsworth Seminactober 3, 2007.

the course since the greatest influence on strade norther students. More credit is almost always better because it makes itrentike a "real" college course.

Gardner stated that reporting lines around units matter as well. Reporting to

accounting and statistics courses were lithfor sophomore students who returned from
the Fall 2007 cohort.

Another improvement that may help increase retention of students living on campus would be purchasing roommate matching software which allows freshmen to identify roommates in advance with whom they were more likely to become friends and enjoy sharing space on campus. Funding for more peer advisors living in University Housing would provide an opportunity for fheren to connect with upperclassmen who can help freshmen living on campus withjuseding to life at college and at USA.

Resources to expand educational programming would also enhance residential life by providing more opportunities for students to learn and to grow both inside and outside the classroom. Living learning communities linkiagademic classes with students living in certain housing units may also prove beneficial.

Scholarships/Financial Aid

With scholarships positively impacting student retention, the disparity in the number of scholarships for minority students students addressed. In a previous study of freshman scholarship retention by Institutional Research and Planning of the Fall 2006 and Fall 2007 cohorts, White students received of all scholarships in 2006 and 66% of all scholarships in 2007. Telescholarships analyzed instance (Bay Area, Honors,

students who have strong leadership answerice experiences would also contribute significantly to the campus and to the countity. Students with leadership and service oriented experiences would likely becoin volved and engaged in campus activities helping them make critical concritions with peers, faculty, and/or staff on campus. These connections would encourage leadership orise scholarship recipients to persist and graduate from the institution. In additi to seeking private funding to endow new scholarships, new scholarships could comenforther sources such as student parking tickets or other auxiliary or similar to what is done other universities.

Service Learning

Expanding service learning opportunities commpus is another option to consider and would nicely complement the addition exactership and service related scholarships. Incorporating service into academic learning its rrific way to allow the student to interact with faculty and peers and to grow in many whose participating in service projects connected with classroom learning experiences in the local community or other places around the world. A numeroof institutions have realized the positive public relations and beniess to students and the community.

Advising

The retention rates of students varied ba

ensure that at-risk students receive the additional advisement they need to assist them during their first year in college.

Local Students

With students from the local area of Milebor Baldwin County and also from the Mississippi service area area lower retention rates than students from the rest of Alabama, the Florida service area, and theoretiate United States, it appears there is an opportunity to focus on retaining local stutter With scholarships positively impacting retention, perhaps extenditing length of the Bay Area merit based scholarship from the current length of one year to a greater periodime as long as the student meets certain GPA requirements would increase student intender for local area students. Additionally, providing some other form of scholarshipstondents attending high schools from the local area may be an option to consider.

Older Students

It is clear that students who are older, tipealarly 20 or older, are less likely to return than younger studen@lder students are more likely be working full-time and attending college part-time. These studentsehdifferent needs than freshman students coming to the institution straight out of high school. Sclieguof evening classes and the provision of student support services for older first-time freshman students should be another focus of the institution tencourage them to persist.

Expand Office of Student Success/Retention

Due to the lack of available professal staff support, the Office of Student Academic Success and Retention focuses to a large extent on assisting under-prepared and at-risk students, especially conditionally admitted freshmen. With 4,109 new students (freshman and transfer students) enrollands and staff member to this office would allow mecomphasis specifically on students in the freshman class who are not conditionally attend. Such emphasis would greatly increase the ability of this office to coordinates forts across the entire campus to provide educational programming, intrusive advising of other activities to assist regularly admitted freshmen adjust to their first year in college. This office could also work on easing the transition for the large number of transfer students who enroll at USA every year as well. In short, alse Education Sector report states, "Often, the distinguishing

factor for minority" and other student ghration rates and retention "isn't whether programs exist, but whether they breordinated, supported, and well run "An expanded Office of Student Academic Success Retention would greatly assist with making sure programs are well run, coordinated, and supported.

With number of credit hours earned segvins a significant predictor of freshman student retention, charging a flattion rate like the University of Auburn (flat rate for 10-15 hours) or University of Alabama (flatte for 12-17 hours) insuld be considered by the institution. Charging a flat tuition rater students would encourage students at all levels, not just freshmen, to take additional classes while also saving the student money and in the long term would shorten the student's time to degree. Perhaps conditionally admitted freshman may be better of the sing on taking a maximum of 14 hours. However, allowing other students the opportunity take at least 5 (like Auburn) to 17 credits (like Alabama) for the same flate as 10 (Auburn) of 2 (Alabama) credits would seem to be very beneficial in helpistydents save money and also graduate in a timelier fashion.

Future Retention Research

Flat Tuition Rate

This report is one of four retention atted studies completed by Institutional Research, Planning and Assessment during this 2008 semester. Previous retention studies conducted this semester examined in a Seminar retention, transfer student retention, and retention of freshman scholarship recipients. A fertuettention study will use National Student Clearinghouse dataxtolore the issue of "Where did USA freshman non returners go?" The Fall 2006 and Fall 2007 freshman cohorts will be used to determine how many non returners students transferred to another institution and the characteristics of these stude who transferred out of USA.

¹⁶ Schmidt, P. (2008). Improving black graduation rates is mainly a matter of Withnicle of Higher Education April 21, 2008.

Summary of Recommendations to Consider Learning Communities

- assist students attending **ortizetion** sessions at different points in the Summer, not just at orientation but also once that rive on campus to attend classes.
- Personalize orientation sessions for the uprof students attending the orientation session, particularly the Summer session and August orientation session.
- Include greater academic emphasis with student orientation by involving faculty more in the orientation at each college level.
- Provide more staffing and support from leges for Summer session five which had 66 more students (280 total) thany other orientation session.
- Identify ways to meet the class sdbeing needs of students who attend later orientation sessions because many classes are filled by the end of the Summer.

Freshman Seminar

- Increase involvement of peer leader Fieshman Seminar to facilitate a more successful social transition into USA.
- Ensure that first generation and/or minority students are well represented among the peers selected for Freshman Semirhæn hiring student peer leaders.
- Include and/or add more skill building activities and more of freer component in Freshman Seminar.
- Provide necessary training dasupport for instructors.
- Combine effort to increase effectiveness of Freshman Seminar with efforts to expand service learning, living learning communities, learning communities, etc. on campus to realize the synergies that come from doing so.
- Keep reporting line for Freshman Seminar with Academic Affairs to yield a higher probability of long term viability.

Housing

- · Add a dining hall closer to University housing.
- Fund more peer advisors living in University Housing.

Scholarships/Financial Aid

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- Award needs based scholarships in addition to existing merit based scholarships.
- Provide University sponsored financial ands for at-risk students and/or new scholarships that target minority students.
- Create new scholarships that reward battle's such as leadership and service which are not solely based on academic performance
- Consider extending length of Bay Arscholarship beyond one year and/or add other scholarships targeted towards large local student population.
- Charge flat tuition rate like the University of Alabama (flat rate for 12-17 hours).

IRPA/gem

25 Selected IPEDS Peer Institutions Focus institution: University of South Alabama

Unitid	Institution Name	City	State
100858	Auburn University Main Campus	Auburn	AL
198464	East Carolina University	Greenville	NC
220075	East Tennessee State University	Johnson City	TN
433660	Florida Gulf Coast Uiversity	FortMyers	FL
139940	Georgia State University	Atlanta	GA
101480	Jacksonville State University	Jacksonville	AL
232423	James Madison University	Harrisonburg	VA
140164	Kennesaw State University	Kennesaw	GA
159647	Louisiana Tech University	Ruston	LA
237525	Marshall University	Huntington	WV
220978	Middle Tennessee Statteniversity	Murfreesboro	TN
232982	Old Dominion University	Norfolk	VA
100751	The University of Alabama	Tuscaloosa	AL
138354	The University of West Florida	Pensacola	FL
102368	Troy University	Troy	AL
100663	University of Alabama at Birmingham	Birmingham	AL
100706	University of Alabama in Huntsville	Huntsville	AL
106245	University of Arkansas at Little Rock	Little Rock	AR
157289	University of Louisville	Louisville	KY
159939	University of New Orleans	New Orleans	LA
199139	University of North Carbina at Charlotte	Charlotte	NC
199148	University of North Carolina at GreensboroGreensboro		NC
176372	University of Southern Mississippi	Hattiesburg	MS
141264	Valdosta State University	Valdosta	GA
172644	Wayne State University	Detroit	MI