

**CNAS to CHASS SWIRL for Entering Freshmen Fall Quarters 2005-2011**

Allison M. Cantwell  
Director of Evaluation, Assessment, and Institutional Research

Michaela Curran  
Graduate Student Researcher

Office of Undergraduate Education  
University of California, Riverside

## Executive Summary

- Approximately one-third of students who started in CNAS during the study period switched to a major in another college. This trend has been consistent over time.
  - Of the students who switched to a major within another college, almost 3% switched back to a CNAS major.
  - Students switched college majors more often in their second or third year at UCR.
  - A large percentage (25-35%) of students who switched to a major in another college switched to a major within CHASS.
- Approximately 30% of students who began in CNAS did not finish their degrees.
- More than one-quarter of students who began a major in CNAS withdrew from UCR at least once.
  - Students who withdrew typically withdrew from the university in their second or third year.
- About 5% of students who began a major in CNAS were dismissed from UCR due to poor grades.

## **Introduction**

In each of his State of the Union messages over the past three years, President Barack Obama has focused on overhauling STEM education. He launched the “Educate to Innovate” program in 2009 to address America’s increasing lag in STEM preparation in primary and secondary schools as a means to expand and strengthen the educational pipeline into STEM fields (Office of the Press Secretary 2009). A 2012 report by the President’s Council of Advisors on Science and Technology (PCAST) forecasted a need for approximately 1 million more STEM professionals for the United States to retain leadership in mathematics and science innovation. This projection would necessitate a 34% increase annually in the number of students who receive undergraduate STEM degrees (PCAST 2012). Despite the large amount of funding spent on producing more STEM graduates, the percentage of students pursuing and obtaining STEM undergraduate degrees has remained virtually unchanged over recent years (NCES 2012). National research on the 2003-2004 cohort found that almost 30% of students who began in a STEM major earned a degree in that major. Another 35% earned a degree in a different STEM major, and another 30% earned a degree or were enrolled in a non-STEM major (PCAST 2012).

UC Riverside has historically graduated approximately 30% of students who begin in a major within the College of Natural and Agricultural Sciences (CNAS). The undergraduate college enrollment makes up approximately 15% of the university. Nationally, the graduation rates of students in science, technology, engineering, and mathematics (STEM) fields has also been low (approximately 41%). With fewer college graduates qualified to fill the increasing vacancies in this area across the United States, it is important that we find ways to support and graduate our students in STEM fields.

This report examines academic trends of students who began their careers at UC Riverside in a CNAS major from 2005 through 2011.

## **Persistence and Change in CNAS Majors**

The tables in Appendix A summarize the percentage of students in various demographic groups who elected to stay within CNAS or change their major to another college at any time they were enrolled at UC Riverside. Each table represents a different cohort of first-time freshmen CNAS students. Tables 1 and 2 include six years of data for the 2005 and 2006 freshmen cohorts, 2007 includes five years (Table 3), and 2008 includes four years of data (Table 4). For the 2005 through 2008 cohorts (Tables 1-4), approximately one-third of students elected to change their major to another college. A majority of these students (30%) switched to a major in the College of Humanities, Arts, and Social Sciences (CHASS).

Tables 5-7 include less than four years of data for each cohort. Here, the trend toward one-third of students changing their major begins to develop. Table 5 displays the changes in major for the 2009 entering CNAS freshmen cohort. Within three years of starting at UCR, almost one-third of CNAS students changed to a major in CHASS by the end of spring 2012. Table 6 shows data for the 2010 freshmen CNAS cohort. After two years at UCR, almost 25% of CNAS students switched to a CHASS major. Table 7 shows the 2011 entering freshmen CNAS cohort after one year at UCR. Very few students in CNAS switched their major within their first year (~7%). This suggests that many of the changes in major occur within the second or third year of enrollment at UCR.

To better understand when students switched out of a CNAS major, we examined what year these changes took place for students in each cohort (see Table 8). As suspected, we found that most students elected to switch their major sometime during their second or third year at UCR.

It is possible – indeed probable – that changes in CNAS admissions will improve completion rates in the future. It will be important to track the connection between changes in admission policy and changes in completion rates.

### **Demographic Trends**

These data indicate that in most cohorts female, Hispanic, and especially African-American students were more likely to switch out of CNAS than other students. In the 2008 and 2009 cohorts, first-generation students were also more likely to switch out of CNAS. Students from these groups would appear to be at higher risk for non-completion in CNAS.

### **Dismissal and Withdrawal**

Tables 9 through 15 (see Appendix B) display the percentage of students in each cohort who withdrew or were dismissed at least once from UCR. Overall, relatively few students (~5%) are dismissed but 25-30% withdrew at least once. Less than one-percent of students were dismissed and re-enrolled while approximately 7% of students withdrew and re-enrolled. The tables in Appendix B include withdrawals and dismissals through fall 2012.

As of end of term fall 2012, less than 1% of the 2011 CNAS freshman cohort was dismissed. Only two individuals in the 2011 cohort were dismissed during the first year. The permanent withdrawal rate for the 2011 cohort was 9.1%. No student who withdrew has returned yet.

Tables 16 and 17 examine when students were dismissed or withdrew from UCR for each cohort of CNAS students. Students were typically dismissed early in their career at UCR. Students withdrew from UCR most frequently during their second or third year in the program.

### **Four and Six-Year Graduation Rates**

Tables 18 through 21 (Appendix C) show the four-year graduation rates of CNAS entering freshmen for the 2005, 2006, 2007, and 2008 cohorts respectively. The percentages displayed are out of the total number of CNAS students who had a major within each college. We see that approximately one-third of students who start in a CNAS major graduated from CNAS within four years. Approximately one-third of students who switched to a CHASS major graduated from CHASS within four years. We find the same trend for students who switched to a major within BCoE. It is possible the low graduation rates after four years are due to students having to take additional courses to succeed in a major within a new college.

Tables 22 and 23 (Appendix C) display the six-year graduation rates for the 2005 and 2006 cohorts of CNAS freshmen. Just over 55% of students who stay in CNAS graduate with a degree in CNAS after six years. Over three-quarters of students who switch to a CHASS major graduate with a degree in CHASS after six years. Students who switched to a major in SoBA or BCoE were able to graduate within six years.

## REFERENCES

Office of the Press Secretary. 2009. "President Obama Launches 'Educate to Innovate' Campaign for Excellence in Science, Technology, Engineering and Math (STEM) Education.

[www.whitehouse.gov](http://www.whitehouse.gov). <http://www.whitehouse.gov/the-press-office/president-obama-launches-educate-innovate-campaign-excellence-science-technology-en>. Retrieved February 28, 2013.

President's Council of Advisors on Science and Technology (PCAST). 2012. "Engage to Excel: Producing One Million Additional College Graduates with Degrees in Science, Technology, Engineering, and Mathematics." [www.whitehouse.gov](http://www.whitehouse.gov).

[http://www.whitehouse.gov/sites/default/files/microsites/ostp/pcast-engage-to-excel-final\\_feb.pdf](http://www.whitehouse.gov/sites/default/files/microsites/ostp/pcast-engage-to-excel-final_feb.pdf).

Retrieved February 28, 2013.

**APPENDIX A**  
**Changes in College Major for CNAS Freshmen by Cohort**

<b>Table 1. 2005 Changes in College Major for entering CNAS students by background characteristics</b>					
	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
Male	68.4%	24.5%	4.9%	2.2%	490
Female	60.2%	36.0%	3.3%	0.5%	578
Hispanic	53.7%	41.8%	2.0%	2.5%	244
Asian	67.0%	26.4%	6.1%	0.5%	545
White	73.7%	23.3%	1.8%	1.2%	167
African American	55.6%	41.2%	0.0%	3.2%	63
Native American	25.0%	75.0%	0.0%	0.0%	4
Unknown/Other	62.3%	31.1%	4.4%	2.2%	45
Low Income	60.9%	33.7%	3.6%	1.8%	335
Non-Low Income	65.4%	29.3%	4.2%	1.1%	733
First Generation	59.3%	35.6%	3.8%	1.3%	391
Non-First Gen.	66.6%	27.9%	4.2%	1.3%	677
<b>Total</b>	<b>64.0%</b>	<b>30.7%</b>	<b>4.0%</b>	<b>1.3%</b>	<b>1,068</b>

<b>Table 2. 2006 Changes in College Major for entering CNAS students by background characteristics</b>					
	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
Male	66.5%	25.8%	3.1%	4.6%	546
Female	62.6%	34.6%	2.6%	0.2%	696
Hispanic	62.9%	35.5%	1.0%	0.6%	310
Asian	65.2%	27.7%	4.2%	2.9%	592
White	67.6%	29.8%	0.5%	2.1%	188
African American	56.5%	40.0%	2.3%	1.2%	85
Native American	100.0%	0.0%	0.0%	0.0%	2
Unknown/Other	63.1%	27.7%	6.1%	3.1%	65
Low Income	62.0%	32.9%	2.6%	2.5%	529
Non-Low Income	66.1%	29.2%	3.0%	1.7%	713
First Generation	64.7%	31.3%	2.4%	1.6%	616
Non-First Gen.	64.0%	30.2%	3.2%	2.6%	626
<b>Total</b>	<b>64.3%</b>	<b>30.8%</b>	<b>2.8%</b>	<b>2.1%</b>	<b>1,242</b>

<b>Table 3. 2007 Changes in College Major for entering CNAS students by background characteristics</b>					
	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
Male	66.9%	28.1%	2.5%	2.5%	592
Female	60.0%	37.7%	1.4%	0.9%	701
Hispanic	59.9%	37.2%	1.3%	1.6%	317
Asian	64.6%	31.2%	2.7%	1.5%	675
White	70.2%	26.4%	0.6%	2.8%	178
African American	47.4%	51.3%	1.3%	0.0%	76
Native American	50.0%	50.0%	0.0%	0.0%	8
Unknown/Other	66.7%	28.2%	2.6%	2.5%	39
Low Income	62.2%	34.2%	2.0%	1.6%	492
Non-Low Income	63.8%	32.7%	1.9%	1.6%	801
First Generation	63.1%	33.6%	1.6%	1.7%	631
Non-First Gen.	63.3%	32.9%	2.3%	1.5%	662
<b>Total</b>	<b>63.2%</b>	<b>33.3%</b>	<b>1.9%</b>	<b>1.6%</b>	<b>1,293</b>

	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
Male	69.0%	24.6%	2.6%	3.8%	659
Female	55.4%	42.5%	1.6%	0.5%	828
Hispanic	54.4%	43.9%	1.5%	0.2%	419
Asian	65.5%	29.4%	2.8%	2.3%	693
White	66.5%	27.8%	1.0%	4.7%	194
African American	51.3%	46.1%	0.9%	1.7%	115
Native American	0.0%	75.0%	25.0%	0.0%	4
Unknown/Other	71.0%	25.8%	1.6%	1.6%	62
Low Income	55.3%	41.3%	1.9%	1.5%	535
Non-Low Income	64.9%	30.8%	2.1%	2.2%	952
First Generation	55.6%	41.4%	1.7%	1.3%	752
Non-First Gen.	67.5%	27.6%	2.3%	2.6%	735
<b>Total</b>	<b>61.5%</b>	<b>34.6%</b>	<b>2.0%</b>	<b>1.9%</b>	<b>1,487</b>

	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
Male	67.1%	24.2%	4.1%	4.6%	699
Female	58.5%	39.0%	1.1%	1.4%	901
Hispanic	54.6%	41.6%	1.6%	2.2 %	445
Asian	67.7%	25.8%	3.1%	3.4%	770
White	69.3%	26.1%	2.3%	2.3%	215
African American	48.0%	48.0%	2.4%	1.6%	125
Native American	66.7%	33.3%	0.0%	0.0%	3
Unknown/Other	50.0%	45.2%	0.0%	4.8%	42
Low Income	58.7%	37.4%	1.7%	2.2%	629
Non-Low Income	64.6%	29.3%	2.9%	3.2%	971
First Generation	58.7%	37.1%	2.4%	1.8%	786
Non-First Gen.	65.7%	28.0%	2.5%	3.8%	814
<b>Total</b>	<b>62.3%</b>	<b>32.5%</b>	<b>2.4%</b>	<b>2.8%</b>	<b>1,600</b>

	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
Male	77.1%	17.9%	1.3%	3.7%	725
Female	68.1%	29.6%	1.4%	0.9%	949
Hispanic	65.6%	32.4%	0.7%	1.3%	543
Asian	75.1%	20.5%	1.8%	2.6%	771
White	76.7%	19.1%	0.9%	3.3%	210
African American	75.8%	23.1%	1.1%	0.0%	91
Native American	66.7%	33.3%	0.0%	0.0%	6
Unknown/Other	67.9%	26.4%	1.9%	3.8%	53
Low Income	70.1%	27.4%	1.1%	1.4%	931
Non-Low Income	74.3%	21.0%	1.6%	3.1%	743
First Generation	70.3%	27.1%	1.4%	1.2%	900
Non-First Gen.	73.9%	21.6%	1.3%	3.2%	774
<b>Total</b>	<b>72.0%</b>	<b>24.6%</b>	<b>1.3%</b>	<b>2.1%</b>	<b>1,674</b>

	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
Male	92.8%	6.1%	0.0%	1.1%	446
Female	92.8%	6.6%	0.0%	0.6%	625
Hispanic	89.6%	9.8%	0.0%	0.6%	357
Asian	94.4%	4.6%	0.0%	1.0%	497
White	93.0%	5.6%	0.0%	1.4%	142
African American	96.3%	3.7%	0.0%	0.0%	54
Native American	100.0%	0.0%	0.0%	0.0%	1
Unknown/Other	100.0%	0.0%	0.0%	0.0%	20
Low Income	92.4%	7.4%	0.0%	0.2%	596
Non-Low Income	93.3%	5.0%	0.0%	1.7%	475
First Generation	91.9%	7.3%	0.0%	0.8%	615
Non-First Gen.	94.1%	5.0%	0.0%	0.9%	456
<b>Total</b>	<b>92.8%</b>	<b>6.4%</b>	<b>0.0%</b>	<b>0.8%</b>	<b>1,071</b>

	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
Year 1	4.8%	4.9%	5.4%	8.4%	8.1%	8.6%	5.0%
Year 2	10.8%	11.6%	10.2%	12.4%	10.6%	13.6%	2.2%*
Year 3	11.4%	10.9%	15.0%	14.4%	18.6%	5.8%*	---
Year 4	7.4%	7.0%	5.9%	5.2%	1.5%*	---	---
Year 5	1.9%	2.5%	1.8%	1.0%*	---	---	---
Year 6	0.8%	0.6%	0.6%*	---	---	---	---
N	1,068	1,242	1,293	1,487	1,600	1,674	1,071

\*As of end of term fall 2012



**APPENDIX B**  
**Dismissal and Withdrawal by CNAS Freshmen Cohort**

**Table 9. 2005 Dismissal and Withdrawal by background characteristics**

	Dismissed and did not re-enroll	Dismissed and re-enrolled	Withdrew and did not re-enroll	Withdrew and re-enrolled	N
Male	4.9%	0.8%	29.8%	7.3%	490
Female	5.7%	0.9%	27.7%	7.3%	578
Hispanic	6.6%	0.4%	28.7%	8.6%	244
Asian	4.2%	1.3%	28.8%	7.5%	545
White	5.4%	0.6%	29.3%	5.4%	167
African American	11.1%	0.0%	28.6%	7.9%	63
Native American	---	---	25.0%	0.0%	4
Unknown/Other	4.4%	0.0%	24.5%	4.4%	45
Low Income	4.2%	0.9%	27.2%	9.8%	335
Non-Low Income	5.9%	0.8%	29.3%	6.1%	733
First Generation	5.4%	0.5%	28.4%	7.7%	391
Non-First Gen.	5.3%	1.0%	28.8%	7.1%	677
<b>Total</b>	<b>5.4%</b>	<b>0.8%</b>	<b>28.7%</b>	<b>7.3%</b>	<b>1,068</b>

**Table 10. 2006 Dismissal and Withdrawal by background characteristics**

	Dismissed and did not re-enroll	Dismissed and re-enrolled	Withdrew and did not re-enroll	Withdrew and re-enrolled	N
Male	3.5%	0.9%	28.9%	7.9%	546
Female	5.9%	0.7%	26.7%	8.5%	696
Hispanic	8.4%	1.3%	34.8%	7.4%	310
Asian	3.7%	0.5%	24.2%	8.9%	592
White	3.2%	0.5%	28.7%	4.8%	188
African American	4.7%	1.2%	29.4%	14.1%	85
Native American	---	---	50.0%	50.0%	2
Unknown/Other	3.1%	1.5%	20.0%	6.1%	65
Low Income	6.2%	1.0%	27.6%	7.0%	529
Non-Low Income	3.8%	0.7%	27.8%	9.1%	713
First Generation	7.0%	1.1%	28.7%	7.3%	616
Non-First Gen.	2.7%	0.5%	26.7%	9.1%	626
<b>Total</b>	<b>4.8%</b>	<b>0.8%</b>	<b>27.7%</b>	<b>8.2%</b>	<b>1,242</b>

	<b>Dismissed and did not re-enroll</b>	<b>Dismissed and re-enrolled</b>	<b>Withdrew and did not re-enroll</b>	<b>Withdrew and re-enrolled</b>	<b>N</b>
Male	6.8%	1.3%	26.7%	10.0%	592
Female	5.6%	2.6%	28.3%	6.4%	701
Hispanic	9.5%	1.9%	29.7%	6.6%	317
Asian	5.3%	2.2%	25.2%	8.0%	675
White	5.1%	1.7%	30.9%	10.1%	178
African American	2.6%	0.0%	29.0%	10.5%	76
Native American	0.0%	12.5%	50.0%	0.0%	8
Unknown/Other	5.1%	2.6%	28.2%	7.7%	39
Low Income	7.5%	2.4%	29.9%	6.7%	492
Non-Low Income	5.2%	1.8%	26.1%	8.9%	801
First Generation	7.0%	2.1%	30.0%	7.4%	631
Non-First Gen.	5.3%	2.0%	25.2%	8.6%	662
<b>Total</b>	<b>6.1%</b>	<b>2.0%</b>	<b>27.5%</b>	<b>8.0%</b>	<b>1,293</b>

	<b>Dismissed and did not re-enroll</b>	<b>Dismissed and re-enrolled</b>	<b>Withdrew and did not re-enroll</b>	<b>Withdrew and re-enrolled</b>	<b>N</b>
Male	5.0%	0.8%	22.3%	5.0%	659
Female	5.3%	0.9%	24.6%	5.9%	828
Hispanic	7.9%	0.5%	27.0%	5.5%	419
Asian	4.5%	1.2%	23.7%	6.2%	693
White	2.6%	0.5%	20.1%	3.6%	194
African American	4.4%	0.0%	15.6%	4.4%	115
Native American	---	---	25.0%	25.0%	4
Unknown/Other	4.8%	1.6%	25.8%	4.8%	62
Low Income	6.9%	1.3%	24.3%	4.9%	535
Non-Low Income	4.2%	0.5%	23.2%	5.9%	952
First Generation	6.4%	0.8%	23.5%	6.0%	752
Non-First Gen.	4.0%	0.8%	23.7%	5.0%	735
<b>Total</b>	<b>5.2%</b>	<b>0.8%</b>	<b>23.6%</b>	<b>5.5%</b>	<b>1,487</b>

	<b>Dismissed and did not re-enroll</b>	<b>Dismissed and re-enrolled</b>	<b>Withdrew and did not re-enroll</b>	<b>Withdrew and re-enrolled</b>	<b>N</b>
Male	4.7%	0.9%	19.5%	3.6%	699
Female	5.3%	0.8%	19.1%	3.8%	901
Hispanic	5.4%	0.7%	23.6%	2.9%	445
Asian	5.2%	1.0%	15.7%	3.3%	770
White	4.2%	0.0%	22.3%	3.7%	215
African American	4.8%	1.6%	16.8%	8.0%	125
Native American	---	---	66.7%	0.0%	3
Unknown/Other	4.8%	0.0%	26.2%	7.1%	42
Low Income	7.2%	0.8%	21.6%	3.3%	629
Non-Low Income	3.7%	0.8%	17.7%	3.9%	971
First Generation	6.4%	0.8%	20.2%	2.8%	786
Non-First Gen.	3.8%	0.9%	18.3%	4.5%	814
<b>Total</b>	<b>5.1%</b>	<b>0.8%</b>	<b>19.2%</b>	<b>3.7%</b>	<b>1,600</b>

	<b>Dismissed and did not re-enroll</b>	<b>Dismissed and re-enrolled</b>	<b>Withdrew and did not re-enroll</b>	<b>Withdrew and re-enrolled</b>	<b>N</b>
Male	4.7%	0.3%	14.8%	1.9%	725
Female	5.6%	0.5%	16.9%	2.1%	949
Hispanic	6.4%	0.2%	19.5%	1.7%	543
Asian	5.6%	0.4%	14.1%	2.6%	771
White	2.9%	0.5%	14.3%	0.5%	210
African American	2.2%	0.0%	12.1%	3.3%	91
Native American	---	---	---	---	6
Unknown/Other	1.9%	1.9%	20.8%	1.9%	53
Low Income	6.6%	0.5%	16.2%	2.2%	931
Non-Low Income	3.5%	0.3%	15.6%	1.9%	743
First Generation	6.2%	0.4%	18.8%	2.3%	900
Non-First Gen.	4.0%	0.4%	12.7%	1.7%	774
<b>Total</b>	<b>5.2%</b>	<b>0.4%</b>	<b>16.0%</b>	<b>2.0%</b>	<b>1,674</b>

	<b>Dismissed and did not re-enroll</b>	<b>Dismissed and re-enrolled</b>	<b>Withdrew and did not re-enroll</b>	<b>Withdrew and re-enrolled</b>	<b>N</b>
Male	0.5%	0.0%	8.7%	0.0%	446
Female	---	---	9.3%	0.0%	625
Hispanic	---	---	11.8%	0.0%	357
Asian	0.4%	0.0%	7.0%	0.0%	497
White	---	---	7.8%	0.0%	142
African American	---	---	9.3%	0.0%	54
Native American	---	---	---	---	1
Unknown/Other	---	---	20.0%	0.0%	20
Low Income	0.2%	0.0%	10.9%	0.0%	596
Non-Low Income	0.2%	0.0%	6.7%	0.0%	475
First Generation	---	---	10.7%	0.0%	615
Non-First Gen.	0.4%	0.0%	6.8%	0.0%	456
<b>Total</b>	<b>0.2%</b>	<b>0.0%</b>	<b>9.1%</b>	<b>0.0%</b>	<b>1,071</b>

	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
Year 1	3.4%	3.1%	3.0%	1.3%	3.4%	2.7%	0.2%
Year 2	1.7%	1.6%	2.5%	3.0%	0.9%	1.5%	0.0%*
Year 3	1.0%	0.6%	2.2%	0.6%	0.1%	1.4%*	---
Year 4	0.1%	0.2%	0.1%	0.1%	1.4%*	---	---
Year 5	0.0%	0.1%	0.0%	0.9%*	---	---	---
Year 6	0.0%	0.0%	0.4%*	---	---	---	---
N	1,068	1,242	1,293	1,487	1,600	1,674	1,071

\*As of end of term fall 2012

	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
Year 1	4.8%	4.8%	5.6%	3.8%	3.6%	4.4%	3.6%
Year 2	10.8%	13.4%	11.1%	10.3%	9.2%	9.3%	5.5%*
Year 3	11.4%	7.6%	7.4%	9.5%	8.4%	4.4%*	---
Year 4	7.4%	5.0%	5.6%	3.7%	1.7%*	---	---
Year 5	1.9%	3.2%	4.6%	1.8%*	---	---	---
Year 6	0.7%	1.8%	1.3%*	---	---	---	---
N	1,068	1,242	1,293	1,487	1,600	1,674	1,071

\*As of end of term fall 2012

**APPENDIX C**  
**Four- and Six-year Graduation Rates for CNAS Freshmen by Cohort**

	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
<b>4-year Grad Rate</b>	<b>34.6%</b>	<b>34.2%</b>	<b>72.1%</b>	<b>35.7%</b>	<b>---</b>
Male	33.7%	25.0%	58.3%	36.4%	490
Female	35.3%	39.4%	89.5%	33.3%	578
Hispanic	25.2%	29.4%	40.0%	0.0%	244
Asian	37.5%	30.6%	72.7%	33.3%	545
White	39.9%	51.3%	100.0%	100.0%	167
African American	22.9%	38.5%	---	50.0%	63
Native American	100.0%	66.7%	---	---	4
Unknown/Other	28.6%	42.9%	100.0%	100.0%	45
Low Income	33.3%	23.0%	83.3%	16.7%	335
Non-Low Income	35.1%	40.0%	67.7%	50.0%	733
First Generation	34.0%	32.4%	73.3%	0.0%	391
Non-First Gen.	34.8%	35.4%	71.4%	55.6%	677
<b>N</b>	<b>683</b>	<b>328</b>	<b>43</b>	<b>14</b>	<b>1,068</b>

	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
<b>4-year Grad Rate</b>	<b>35.2%</b>	<b>36.4%</b>	<b>74.3%</b>	<b>38.5%</b>	<b>---</b>
Male	33.6%	31.2%	58.8%	36.0%	546
Female	36.5%	39.4%	88.9%	100.0%	696
Hispanic	20.5%	31.8%	66.7%	50.0%	310
Asian	39.9%	32.9%	76.0%	47.1%	592
White	47.2%	57.1%	100.0%	25.0%	188
African American	18.8%	32.4%	50.0%	0.0%	85
Native American	0.0%	---	---	---	2
Unknown/Other	43.9%	38.9%	75.0%	0.0%	65
Low Income	27.1%	32.2%	85.7%	30.8%	529
Non-Low Income	40.8%	39.9%	66.7%	46.2%	713
First Generation	26.9%	34.2%	86.7%	40.0%	616
Non-First Gen.	43.4%	38.6%	65.0%	37.5%	626
<b>N</b>	<b>799</b>	<b>382</b>	<b>35</b>	<b>26</b>	<b>1,242</b>

	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
<b>4-year Grad Rate</b>	<b>37.6%</b>	<b>30.5%</b>	<b>76.0%</b>	<b>42.9%</b>	<b>---</b>
Male	37.9%	25.3%	73.3%	33.3%	592
Female	37.3%	33.7%	80.0%	66.7%	701
Hispanic	27.4%	32.2%	50.0%	60.0%	317
Asian	42.0%	30.8%	77.8%	40.0%	675
White	38.4%	29.8%	100.0%	40.0%	178
African American	33.3%	28.2%	100.0%	---	76
Native American	0.0%	25.0%	---	---	8
Unknown/Other	46.2%	18.2%	100.0%	0.0%	39
Low Income	29.4%	32.7%	70.0%	37.5%	492
Non-Low Income	42.5%	29.0%	80.0%	46.2%	801
First Generation	32.2%	33.5%	70.0%	27.3%	631
Non-First Gen.	42.7%	27.5%	80.0%	60.0%	662
N	817	430	25	21	1,293

	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
<b>4-year Grad Rate</b>	<b>43.4%</b>	<b>42.0%</b>	<b>70.0%</b>	<b>27.6%</b>	<b>---</b>
Male	45.3%	34.0%	58.8%	32.0%	659
Female	41.6%	45.7%	84.6%	0.0%	828
Hispanic	24.1%	41.8%	50.0%	0.0%	419
Asian	48.9%	43.6%	79.0%	31.2%	693
White	56.6%	38.9%	100.0%	11.1%	194
African American	44.1%	37.7%	0.0%	50.0%	115
Native American	---	33.3%	0.0%	---	4
Unknown/Other	47.7%	50.0%	100.0%	100.0%	62
Low Income	34.1%	40.3%	70.0%	50.0%	535
Non-Low Income	47.9%	43.3%	70.0%	19.0%	952
First Generation	39.2%	41.2%	61.5%	40.0%	752
Non-First Gen.	47.0%	43.4%	76.5%	21.0%	735
N	914	514	30	29	1,487

	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
<b>6-year Grad Rate</b>	<b>56.7%</b>	<b>77.4%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>--</b>
Male	57.9%	72.5%	100.0%	100.0%	490
Female	55.5%	80.3%	100.0%	100.0%	578
Hispanic	49.6%	76.5%	100.0%	100.0%	244
Asian	60.0%	74.3%	100.0%	100.0%	545
White	57.7%	79.5%	100.0%	100.0%	167
African American	45.7%	84.6%	---	100.0%	63
Native American	100.0%	66.7%	---	---	4
Unknown/Other	53.6%	100.0%	100.0%	100.0%	45
Low Income	58.8%	76.1%	100.0%	100.0%	335
Non-Low Income	55.7%	78.1%	100.0%	100.0%	733
First Generation	53.4%	79.9%	100.0%	100.0%	391
Non-First Gen.	58.3%	75.7%	100.0%	100.0%	677
N	683	328	43	14	1,068

<b>Table 23. 2006 6-year Graduation Rates for Entering Freshmen who switched from CNAS</b>					
	<b>CNAS</b>	<b>CHASS</b>	<b>SoBA</b>	<b>BCoE</b>	<b>N</b>
<b>6-year Grad Rate</b>	<b>55.9%</b>	<b>81.9%</b>	<b>100.0%</b>	<b>92.3%</b>	<b>---</b>
Male	57.6%	77.3%	100.0%	92.0%	546
Female	54.6%	84.7%	100.0%	100.0%	696
Hispanic	39.0%	80.9%	100.0%	100.0%	310
Asian	62.4%	82.3%	100.0%	94.1%	592
White	59.8%	83.9%	100.0%	75.0%	188
African American	52.1%	79.4%	100.0%	100.0%	85
Native American	50.0%	---	---	---	2
Unknown/Other	68.3%	83.3%	100.0%	100.0%	65
Low Income	51.5%	85.6%	100.0%	92.3%	529
Non-Low Income	59.0%	78.8%	100.0%	92.3%	713
First Generation	50.0%	84.5%	100.0%	100.0%	616
Non-First Gen.	61.9%	79.4%	100.0%	87.5%	626
N	799	382	35	26	1,242