

IMPACT OF ENROLLING IN 15 OR MORE CREDITS
ON SELECTED PERFORMANCE MEASURES
FIRST-TIME FRESHMEN AT THE
UH COMMUNITY COLLEGES
FALL 2009 TO FALL 2012

Institutional Research and Analysis Office
University of Hawai'i System
September 2013

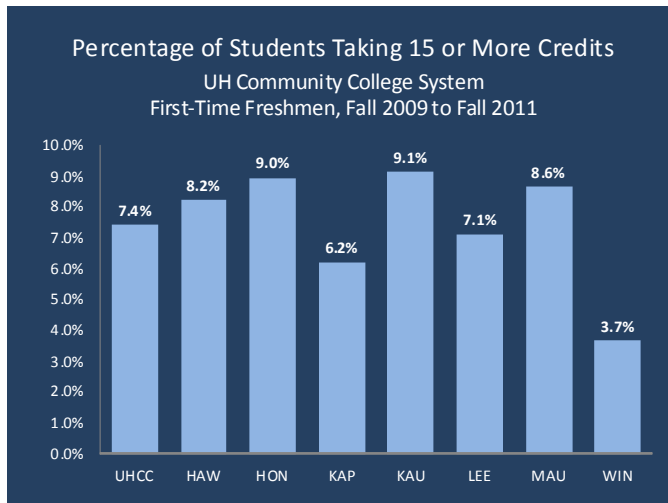
IMPACT OF ENROLLING IN 15 OR MORE CREDITS ON SELECTED PERFORMANCE MEASURES
FIRST-TIME FRESHMEN AT THE UH COMMUNITY COLLEGES
FALL 2009 TO FALL 2012

Research Objective

The purpose of this study is to determine the impact of enrolling in 15 or more credits on student performance. Data on first-time freshmen for the UH Community College campuses are examined for the Fall 2009, Fall 2010 and Fall 2011 semesters. In this update of the initial study, data for the Fall 2012 cohort has been added (at the end of the report) for comparative purposes and to assess the impact of the “15 to Finish” promotional campaign.

Fall 2009 – Fall 2011 First-Time Freshmen

Percentage of Headcount Enrollment by Credits Attempted



Relatively few freshmen at the UH Community Colleges took 15 or more credits. Across the UHCC system, only 7.4% of the 17,960 freshmen from Fall 2009 to Fall 2011 took 15 or more credit hours in their first semester system-wide (including credits taken at any campus). The high in percentage terms was Honolulu CC (9.0%), while the low was Windward CC (3.7%). Credit hours carried varied from 1 to 20 credits. The average credit hour load for all first-time freshmen was 10.6 hours (Appendix 1).

Selected Characteristics of First-Time Freshmen

First-time freshmen at each campus were divided into two populations: those students who took fewer than 15 credits and those who took 15 or more credits in their initial fall semester of study. Student characteristic measures were organized into three groups: Academic Preparation, Demographics and Academic Success (Appendix 2). Tests of significance were performed for all characteristic measures. Tests included the T-test and Chi Square methods.

Academic Preparation Measures

Freshmen who took 15 or more credit hours in their first semester had higher average Compass placement test scores than freshmen who took fewer than 15 credits. The differences between the two populations were statistically significant for four of the six placement test scores available (Appendix 2). Note significance is designated by asterisk (*).

Demographic Characteristics

Average Compass Placement Scores By the 15 Credit Hour Breakpoint First-Time Freshmen, Fall 2009 to Fall 2011

Compass Test	N (% of Total)	UHCC First-Time Freshmen Population		
		Total	<15 Credits	>=15 Credits
Pre-Algebra	11,286 (62.8%)	41.2%	40.7%	49.6% *
Algebra	6,480 (36.1%)	43.6%	43.1%	47.7% *
College Algebra	1,348 (7.5%)	58.3%	58.1%	59.7%
Trigonometry	482 (2.7%)	54.6%	54.6%	54.7%
Reading	16,988 (94.6%)	77.3%	77.0%	81.2% *
Writing	16,542 (92.1%)	60.8%	60.1%	69.1% *

Demographic Characteristics By the 15 Credit Hour Breakpoint First-Time Freshmen, Fall 2009 to Fall 2011

Demographic Characteristic	UHCC First-Time Freshmen Population		
	Total	<15 Credits	>=15 Credits
Age <= 19	72.1%	71.5%	79.4% *
Ethnic Minority ¹	56.4%	57.1%	48.8% *
Recent High School Grad ²	63.1%	62.4%	71.4% *
Pell Grant Recipient	41.2%	41.2%	41.4%
Pct of Financial Need Met	59.3%	58.8%	66.1% *

¹ Minority includes: African American, American Indian, Filipino, Hawaiian, Hispanic and Pacific Islander.
² Recent High School Graduates are those who complete high school in the school year immediately preceding enrollment in post-secondary education.

Percentage enrollment was calculated for demographic characteristics (Appendix 2). At the UHCC system level, variables which tested significant included: age, ethnic minority status, recent high school graduate and percent of financial need met. Students who took 15 or more credits were younger, tended to be recent high school graduates and had a higher percentage with financial need met. A higher proportion of the ethnic minority students took fewer than 15 credits.

Academic Success Measures

At the UHCC system level, freshmen taking 15 or more credits performed better than freshmen taking fewer than 15 credits, as measured by first semester GPA, percentage with a "B" or "C+" or higher grade average, credit completion ratio >=80%, and persistence. The differences between the those taking 15 or more credits and those taking fewer than 15 credits were statistically significant for each of these measures. Results at the campuses level were consistent with these findings (Appendix 2).

Academic Success Measures by the 15 Credit Hour Breakpoint First-Time Freshmen, Fall 2009 to Fall 2011

Academic Success Measure	UHCC First-Time Freshmen Population		
	Total	<15 Credits	>=15 Credits
1 st Semester Grade Point Avg	2.24	2.21	2.64 *
1 st Semester Grade >="B" Avg	40.9%	40.0%	50.7% *
1 st Semester Grade >="C+" Avg	52.3%	51.2%	65.2% *
Credit Completion Ratio >=80%	54.2%	52.4%	76.0% *
Persistence to Next Spring ¹	76.6%	75.7%	88.6%*
Persistence to Next Fall ¹	54.2%	53.3%	66.0%*

¹ Persistence measured at Home Campus only; excludes possible enrollment at other UH campuses.

Academic Preparation Score Methodology

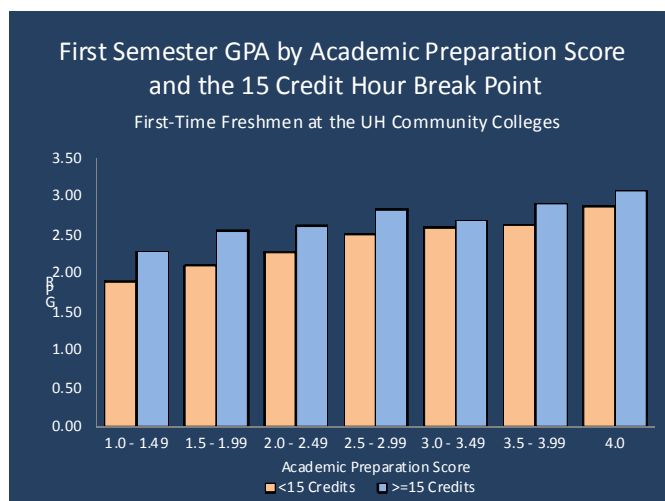
Examination of these data points raises the question as to whether only students with better academic preparation do better taking 15 or more credits. To address this issue, an academic preparation score metric was developed. This measure collapses the academic preparation variables into a single number which can be used to create cross-tabulations by academic success measure. The resulting data array is shown in Appendix 3.

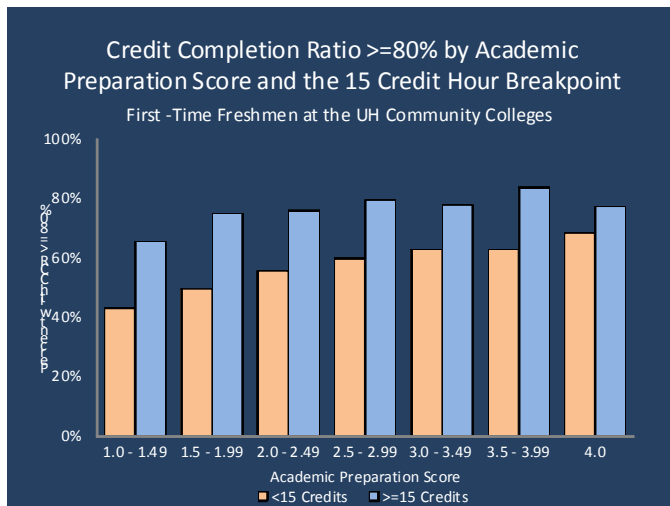
To determine the academic preparation score, each set of compass scores was divided into quartiles. The math scores were further organized according to a matrix used for course placement. The guiding principle was that students who would place into college level math were considered well-prepared. The matrix assigned test score values that would result in placement into college level math as quartile 4 (highest). Pre-Algebra scores were all assigned to quartile 1 (lowest); this assignment was made because a pre-algebra test score generally can place a student no higher than developmental math. Trigonometry scores were all assigned to quartile 4 (highest); again the reasoning is that any student taking the trigonometry test would place no lower than college level math. College Algebra scores were assigned to quartiles 3 or 4, depending upon the test score, and Algebra scores were assigned to quartiles 1 to 4, depending upon the test score. The final math quartile was determined by taking the highest quartile value for the math tests taken per student. For example, a student with an Algebra quartile score of 3 and a College Algebra quartile score of 4, would have a final math quartile score of 4.

The English reading and writing tests were assigned to quartiles with cutoff scores determined by the natural ranking of the scores (that is, as determined by the scores themselves ranked from high to low and not in reference to an external standard). The Compass Reading and Writing test scores were then collapsed into a single English measure by taking an average of the two quartile scores. For example, a student with a reading quartile score of 3 and a writing quartile score of 2 would have a final English quartile score of 2.5. The math and English quartile values were then averaged to yield the final academic preparation score. Continuing the example, a student with a math quartile score of 4 and an English quartile score of 2.5 would have final academic preparation score of $(4+2.5)/2 = 6.5/2 = 3.25$. Finally, the academic preparation scores were re-grouped into seven intervals (0.5 breakpoints).

Success Measures by the 15 Credit Hour Breakpoint and Academic Preparation Score

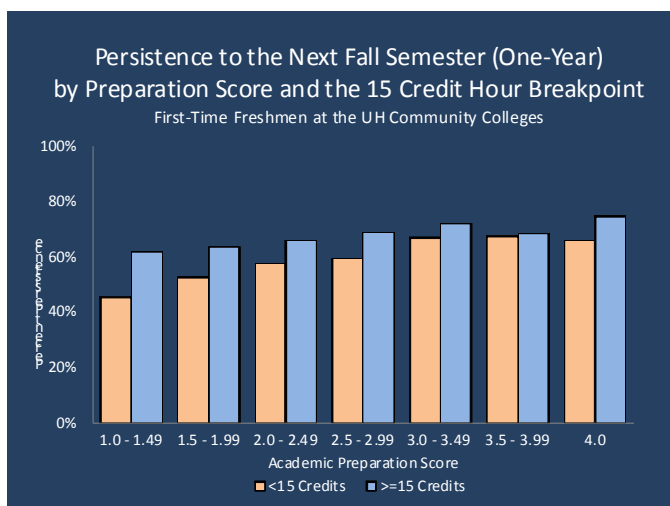
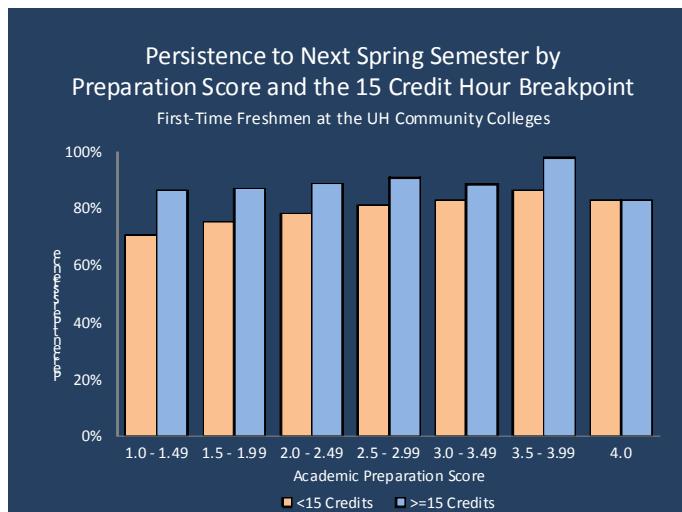
Freshmen with higher academic preparation scores had higher first semester grade point averages than freshmen with lower academic preparation scores. More importantly, at each of the preparation score breakpoints, students who took 15 or more credits had higher initial semester GPAs. Results vary somewhat at the campus level (Appendix 3A).





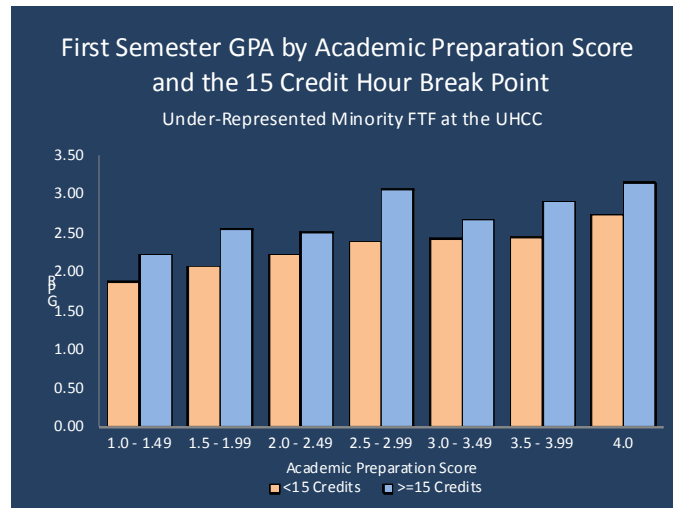
Distribution of students by Academic Preparation Score for the Credit Completion Ratio $\geq 80\%$ measure shows a similar pattern. Freshmen who took 15 or more credits did markedly better at all levels of academic preparation. Furthermore, at the UHCC system level, the difference between the two populations tested significant (column proportion test) at all but the 2.0-2.49 academic preparation score breakpoint (Appendix 3A).

Students who took 15 or more credits persisted to the next Spring semester at higher rates than those who took fewer than 15 credits. However, the upward progression in the metric by preparation score is less apparent than for the previous measures, with the two populations more or less equal at the high end (4.0) of the academic preparation score range. However, the differences at the UHCC system level tested significant at all but the 2.0-2.49 academic preparation score breakpoint.



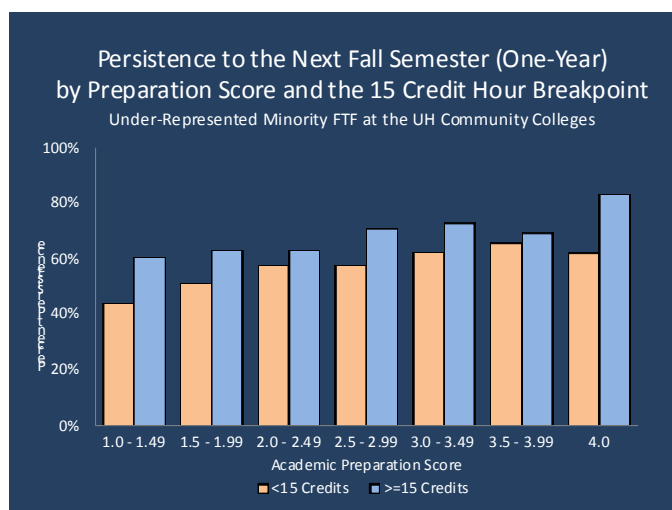
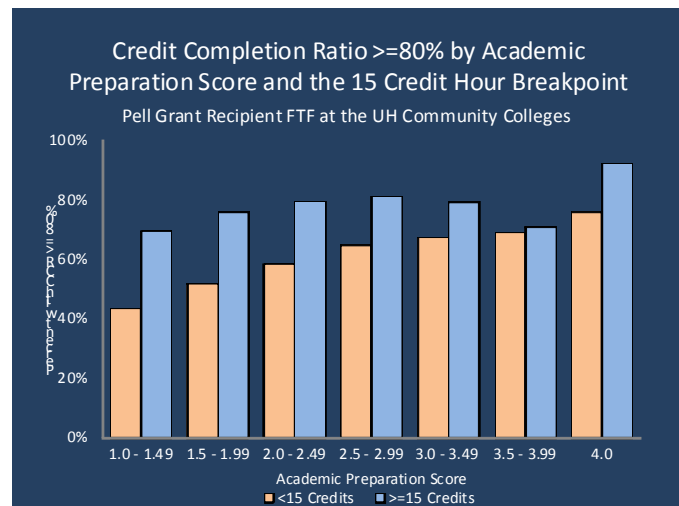
Students who took 15 or more credits had higher Fall to Fall semester (one year) persistence than did students who took fewer than 15 credits. At the UHCC system level, the differences tested significant at all but the 2.0-2.49 academic score breakpoint. Furthermore, total persistence, including enrollment at UH campuses other than the starting campus, was also higher for those students who took at least 15 credits.

Under-Represented Minority and Federal Pell Grant Recipient Freshmen



Data for under-represented minority (URM) students display the same basic pattern of rising academic success with increasing academic preparation and greater success for those taking 15 or more credits (Appendices 4 and 4A). First semester GPA by academic preparation score and the 15 credit hour breakpoint for under-represented minority freshmen is shown in the chart at left. Differences between the two populations were statistically significant only for the 1.5-1.99 and 1.0-1.49 breakpoints.

The Credit Completion Ratio $\geq 80\%$ measure by academic preparation score and the 15 credit hour breakpoint for Federal Pell Grant recipient freshmen is shown in the chart at right. Freshmen taking 15 or more credits did better than freshmen taking fewer than 15 credits at all the academic score breakpoints. Differences were statistically significant at all except the 3.0-3.49 and 2.5-2.99 academic preparation score breakpoints.

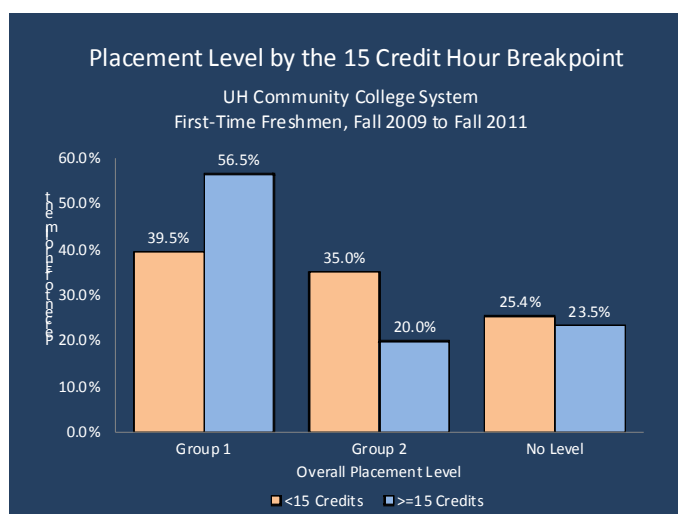


Persistence to the next Fall semester (one year) measure by academic preparation score and the 15 credit hour breakpoint for Under-Represented Minority freshmen is shown graphically in the chart at left. Freshmen taking 15 or more credits demonstrated higher persistence than those taking fewer than 15 credits. The results were statistically significant at all except the 2.0-2.49 and 1.5-1.99 academic preparation score breakpoints.

Placement by Gateway Math and Writing Courses

Additional analysis was performed to determine if the success patterns as previously discussed would hold true for students by placement level. Using math and writing courses taken in the first semester, freshmen records were assigned to placement levels based upon whether the courses taken in the first semester were at the “gateway” college level, 1 level below college level, 2 levels below or 3 or more levels below college level. Students were divided into two groups: Group 1 included those freshmen who placed at college level or one level below college level; Group 2 included those freshmen who placed 2 or 3 levels below college level. If a student had any gateway math or writing course at college level or one level below college level, that record was included in Placement Group 1, otherwise in Placement Group 2 (Appendix 5).

Freshmen who took 15 or more credits were more likely to be in Placement Group 1 than students who took fewer than 15 credits (56.5% to 39.5%). Students who took fewer than 15 credits were about equally distributed between the two placement groups. (Note that about 25% of freshmen did not take a math or writing course in the first semester and could not be assigned to either group.)



Performance measures at the UHCC system level by placement group are shown in Appendix 5A. In general, freshmen in both placement groups who took 15 or more credits performed better than freshmen taking fewer than 15 credits. The differences in performance by the 15 credit hour breakpoint tested significant for most of the performance measures. Performance measures by campus Placement Groups 2 are shown in Appendix 5B, while performance measures by academic preparation score Placement Groups 2 are shown in Appendix 5C. Students taking 15 or more credits did better than those taking fewer than 15 credits across most of the academic preparation score breakpoints, though the small numbers of students at the upper end of the preparation score scale limit the validity of statistical testing.

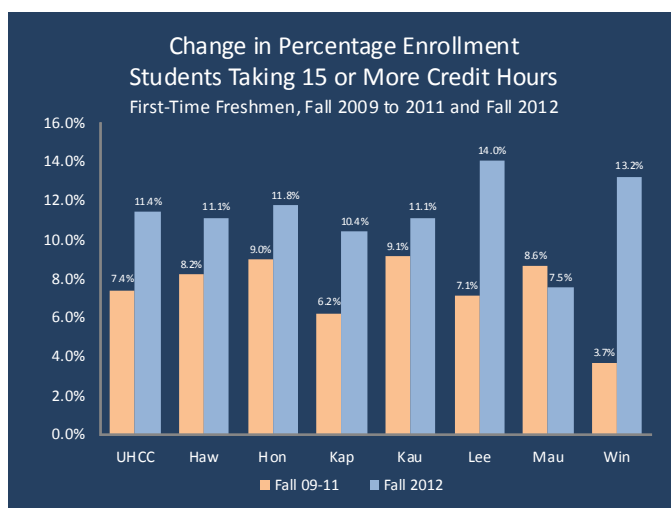
Conclusion – Initial Study

The results of the analysis support the conclusion that first-time students at the UH Community Colleges can successfully carry 15 credit hours. Student success varies by academic preparation, with those students scoring higher on academic preparation performing better, as measured by first semester GPA, percentage with “B” or “C+” grade average or higher, credit completion ratio $\geq 80\%$ and persistence to the subsequent spring and fall semesters. Students taking 15 or more credits outperformed students taking fewer than 15 credits across all levels of academic preparation. The fact that students taking 15 or more credits persist at higher rates may indicate greater student engagement.

The more important question is why so few students at the UH Community Colleges take 15 or more credits. Analysis indicates that academic preparation is not the limiting factor. The low percentage of students taking the higher credit load may indicate that 12 credits has become the culturally accepted norm for full-time enrollment. In fact, one-third (36.3%) of all first-time freshmen across the UH Community College system from Fall 2009 to Fall 2011 took precisely 12 credits (Appendix 1). If this group is expanded to include those taking 13 or 14 credits, the percentage increases to 54.8%, or more than half of all first-time students.

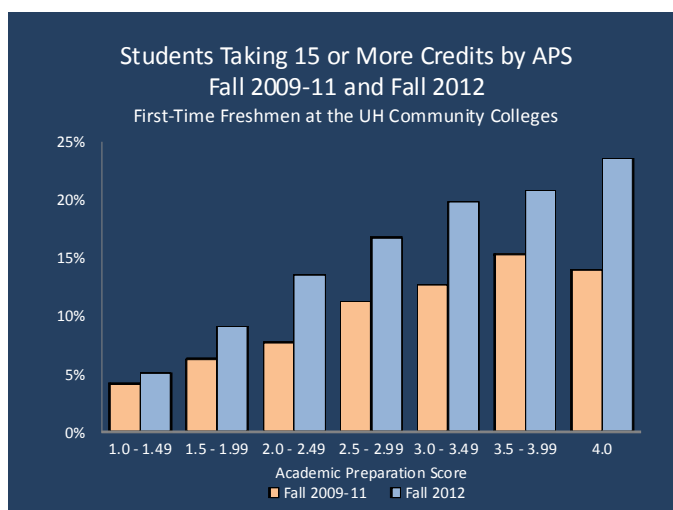
Follow-Up Analysis: Fall 2012 First-Time Freshmen

Supported by the initial study, the UH system conducted a vigorous media campaign to encourage students to take 15 credits to finish on-time in four years. The “15 to Finish” campaign included print, radio and television announcements, as well as promotional efforts on-campus, particularly at new student orientation sessions. The results of the campaign were assessed by comparing data from the Fall 2012 cohort of first-time freshmen to the data for the Fall 2009 to Fall 2011 group. Data for Fall 2012 are shown in the following Appendices: 1A; 2A; 3; 3B; 4A; 5; 5A; 5B; 5C.



Following the campaign, the percentage of students taking 15 or more credit hours increased at nearly every UH Community College in the Fall 2012 semester (Appendix 1A). For the UHCC system overall, the percentage taking 15 or more credits increased from 7.4% to 11.4%, a gain of 4 percentage points. The largest gains occurred at Windward CC (9.6 percentage points), Leeward CC (6.9 percentage points) and Kapi’olani CC (4.2 percentage points).

The increase in students taking 15 or more credits in Fall 2012 was not limited to certain levels of academic preparation. The percentage of students taking 15 or more credits was higher for the Fall 2012 cohort at all the academic preparation score breakpoints, but especially at the higher levels of academic preparation.



**Academic Success Measures
By the 15 Credit Hour Breakpoint
First-Time Freshmen, Fall 2009 to 2011 and Fall 2012**

Academic Success Measure	Fall 2009-11		Fall 2012	
	<15 Credits	>=15 Credits	<15 Credits	>=15 Credits
1 st Semester Grade Point Average	2.21	2.64*	2.26	2.58*
1 st Semester GPA >="B" Average	40.0%	50.7%*	42.5%	49.1%*
1 st Semester GPA >="C+" Average	51.2%	65.2%*	53.6%	63.9%*
Credit Completion Ratio >=80%	52.4%	76.0%*	53.7%	72.0%*
Persistence to Next Spring	75.7%	88.6%*	72.6%	87.5%
Persistence to Next Fall	53.3%	66.0%*	50.7%	68.3%*

Freshmen taking 15 or more credit hours continued to outperform those taking fewer than 15 credits (Appendix 2A). The fact that there was little or no decline in performance from the initial study, despite the fact that a higher percentage of freshmen in Fall 2012 took 15 or more credits, was encouraging. The difference in performance between freshmen taking 15 or more credits and those taking fewer than 15 credits tested significant on nearly all the performance measures – very similar to the results from the initial study for the Fall 2009 to Fall 2011 group.

Conclusion – Fall 2012 Follow-Up Analysis

Results of the follow-up analysis for Fall 2012 indicate that the *15 to Finish* campaign has met with some success at the UH Community Colleges. The percentage of first-time freshmen taking 15 or more credits increased from 7.4% to 11.4%, a gain of 4 percentage points. Additional analysis of students by math and English placement shows that even students who place below college level may benefit from higher credit loads. Results for under-represented minority students and those receiving federal Pell grants are consistent with the overall analysis.

APPENDIX 1
 ENROLLMENT BY CREDITS ATTEMPTED SYSTEMWIDE
 FIRST-TIME FRESHMEN AT UH THE COMMUNITY COLLEGES, BY CAMPUS
 FALL SEMESTERS, 2009 TO 2011

Credits Attempted	HEADCOUNT BY CREDITS ATTEMPTED								PERCENT OF ENROLLMENT BY CREDITS ATTEMPTED							
	UHCC	HAW	HON	KAP	KAU	LEE	MAU	WIN	UHCC	HAW	HON	KAP	KAU	LEE	MAU	WIN
20	5	1		3			1		<0.1%	<0.1%		0.1%			<0.1%	
19	7		2	2	1	1	1		<0.1%		0.1%	0.1%	0.1%	<0.1%	<0.1%	
18	78	17	14	15	1	18	9	4	0.4%	0.6%	0.6%	0.4%	0.1%	0.4%	0.3%	0.3%
17	121	40	9	32	5	22	10	3	0.7%	1.4%	0.4%	0.8%	0.6%	0.5%	0.4%	0.2%
16	440	91	67	69	38	61	102	12	2.4%	3.3%	2.9%	1.8%	4.2%	1.5%	3.9%	0.9%
15	680	80	117	117	38	192	106	30	3.8%	2.9%	5.0%	3.1%	4.2%	4.7%	4.0%	2.2%
14	778	133	189	192	52	88	98	26	4.3%	4.8%	8.1%	5.0%	5.7%	2.1%	3.7%	1.9%
13	2,552	589	307	601	125	413	348	169	14.2%	21.2%	13.2%	15.7%	13.8%	10.0%	13.1%	12.6%
12	6,518	783	790	1,218	335	1,877	927	588	36.3%	28.1%	33.9%	31.9%	36.9%	45.5%	35.0%	43.9%
11	285	35	68	82	24	40	33	3	1.6%	1.3%	2.9%	2.1%	2.6%	1.0%	1.2%	0.2%
10	594	187	68	135	29	81	62	32	3.3%	6.7%	2.9%	3.5%	3.2%	2.0%	2.3%	2.4%
9	1,562	177	165	280	85	500	251	104	8.7%	6.4%	7.1%	7.3%	9.4%	12.1%	9.5%	7.8%
8	243	23	57	88	14	32	26	3	1.4%	0.8%	2.4%	2.3%	1.5%	0.8%	1.0%	0.2%
7	624	147	101	162	23	53	84	54	3.5%	5.3%	4.3%	4.2%	2.5%	1.3%	3.2%	4.0%
6	2,074	258	214	495	87	455	363	202	11.5%	9.3%	9.2%	12.9%	9.6%	11.0%	13.7%	15.1%
5	109	4	29	28	2	19	23	4	0.6%	0.1%	1.2%	0.7%	0.2%	0.5%	0.9%	0.3%
4	211	60	25	50	7	19	36	14	1.2%	2.2%	1.1%	1.3%	0.8%	0.5%	1.4%	1.0%
3	999	155	104	226	35	239	151	89	5.6%	5.6%	4.5%	5.9%	3.9%	5.8%	5.7%	6.6%
2	54	1	5	19	8	8	11	2	0.3%	<0.1%	0.2%	0.5%	0.9%	0.2%	0.4%	0.1%
1	26	2	1	10		6	7		0.1%	0.1%	<0.1%	0.3%		0.1%	0.3%	
Total	17,960	2,783	2,332	3,824	909	4,124	2,649	1,339	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
12-14 SH	9,848	1,505	1,286	2,011	512	2,378	1,373	783	54.8%	54.1%	55.1%	52.6%	56.3%	57.7%	51.8%	58.5%
>=15 SH	1,331	229	209	238	83	294	229	49	7.4%	8.2%	9.0%	6.2%	9.1%	7.1%	8.6%	3.7%
<15 SH	16,629	2,554	2,123	3,586	826	3,830	2,420	1,290	92.6%	91.8%	91.0%	93.8%	90.9%	92.9%	91.4%	96.3%
Average	10.6	10.7	10.9	10.3	10.9	10.6	10.4	10.2	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

First-Time Freshmen defined by First Time Fr Iro = "Y"; excludes Early Admits and all other unclassified students.

Credits attempted at any UH campus.

Source: IRO Base, Census.

UH Institutional Research and Analysis Office; October 2012

APPENDIX 1A
 ENROLLMENT BY CREDITS ATTEMPTED SYSTEMWIDE
 FIRST-TIME FRESHMEN AT UH THE COMMUNITY COLLEGES
 FALL SEMESTER 2012

Credits Attempted	HEADCOUNT BY CREDITS ATTEMPTED									PERCENT OF ENROLLMENT BY CREDITS ATTEMPTED							
	UHCC	HAW	HON	KAP	KAU	LEE	MAU	WIN		UHCC	HAW	HON	KAP	KAU	LEE	MAU	WIN
21	1			1						<0.1%			0.1%				
20	3		1			2				0.1%		0.2%		0.1%			
19	6	2	1	2		1				0.1%	0.2%	0.2%	0.1%		0.1%		
18	31	11	6	5		5	2	2		0.5%	1.3%	1.0%	0.4%		0.4%	0.3%	0.5%
17	66	16	10	8	4	8	8	12		1.2%	1.9%	1.6%	0.6%	1.2%	0.6%	1.1%	2.8%
16	213	32	15	41	22	65	22	16		3.8%	3.9%	2.4%	3.0%	6.6%	4.8%	2.9%	3.8%
15	327	31	40	83	11	111	25	26		5.8%	3.7%	6.4%	6.2%	3.3%	8.1%	3.3%	6.1%
14	304	54	81	52	20	44	42	11		5.4%	6.5%	13.0%	3.9%	6.0%	3.2%	5.6%	2.6%
13	827	168	46	212	42	198	130	31		14.6%	20.3%	7.4%	15.7%	12.6%	14.5%	17.2%	7.3%
12	1,806	185	170	442	108	497	222	182		31.8%	22.4%	27.4%	32.8%	32.4%	36.3%	29.4%	43.0%
11	105	14	35	14	13	18	5	6		1.8%	1.7%	5.6%	1.0%	3.9%	1.3%	0.7%	1.4%
10	186	54	13	46	9	25	27	12		3.3%	6.5%	2.1%	3.4%	2.7%	1.8%	3.6%	2.8%
9	479	60	63	91	31	130	73	31		8.4%	7.3%	10.1%	6.7%	9.3%	9.5%	9.7%	7.3%
8	67	5	25	8	4	12	11	2		1.2%	0.6%	4.0%	0.6%	1.2%	0.9%	1.5%	0.5%
7	173	55	8	47	8	17	25	13		3.0%	6.7%	1.3%	3.5%	2.4%	1.2%	3.3%	3.1%
6	673	93	75	147	45	149	109	55		11.9%	11.2%	12.1%	10.9%	13.5%	10.9%	14.4%	13.0%
5	27	1	7	8	1	5	3	2		0.5%	0.1%	1.1%	0.6%	0.3%	0.4%	0.4%	0.5%
4	48	17	4	12	2	5	6	2		0.8%	2.1%	0.6%	0.9%	0.6%	0.4%	0.8%	0.5%
3	275	29	20	76	12	76	43	19		4.8%	3.5%	3.2%	5.6%	3.6%	5.6%	5.7%	4.5%
2	9			6	1		2			0.2%			0.4%	0.3%		0.3%	
1	51		1	48			1	1		0.9%		0.2%	3.6%			0.1%	0.2%
Total	5,677	827	621	1,349	333	1,368	756	423		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
12-14 SH	2,937	407	297	706	170	739	394	224		51.7%	49.2%	47.8%	52.3%	51.1%	54.0%	52.1%	53.0%
>=15 SH	647	92	73	140	37	192	57	56		11.4%	11.1%	11.8%	10.4%	11.1%	14.0%	7.5%	13.2%
<15 SH	5,030	735	548	1,209	296	1,176	699	367		88.6%	88.9%	88.2%	89.6%	88.9%	86.0%	92.5%	86.8%
Average	10.8	10.9	11.0	10.4	10.9	11.1	10.5	10.9		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

First-Time Freshmen defined by First Time Fr Iro = "Y"; excludes Early Admits and all other unclassified students.

Credits attempted at any UH campus.

Source: IRO Base, Census.

UH Institutional Research and Analysis Office; March 2013

APPENDIX 2
CHARACTERISTICS OF FIRST-TIME FRESHMEN BY SYSTEMWIDE CREDITS ATTEMPTED
UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES, BY CAMPUS
FALL SEMESTERS, 2009 TO 2011

	UHCC					Hawai'i CC					Honolulu CC					Kapi'olani CC					
	Total	Credits Taken	Test	Test		Total	Credits Taken	Test	Test		Total	Credits Taken	Test	Test		Total	Credits Taken	Test	Test		
	<15	>=15	Method	Value		<15	>=15	Method	Value		<15	>=15	Method	Value		<15	>=15	Method	Value		
Number of First-Time Freshmen	17,960	16,629	1,331			2,783	2,554	229			2,332	2,123	209			3,824	3,586	238			
Percentage by Credit Breakpoint	100%	92.6%	7.4%			100%	91.8%	8.2%			100%	91.0%	9.0%			100%	93.8%	6.2%			
Academic Preparation:																					
Compass Pre-Algebra	41.2	40.7	49.6	T-Test	10.74 *	40.3	39.8	46.1	T-Test	4.46 *	40.4	39.8	50.1	T-Test	4.78 *	46.7	46.3	59.2	T-Test	4.81 *	
Compass Algebra	43.6	43.1	47.7	T-Test	6.15 *	44.7	44.3	47.0	T-Test	1.23	41.0	40.5	44.7	T-Test	2.55 *	47.0	46.4	53.5	T-Test	4.21 *	
Compass College Algebra	58.3	58.1	59.7	T-Test	1.39	58.3	58.3	58.2	T-Test	0.02	52.5	52.3	53.9	T-Test	0.54	66.2	65.3	70.6	T-Test	2.69 *	
Compass Trigonometry	54.6	54.6	54.7	T-Test	0.07	61.6	63.1	55.5	T-Test	1.34	49.3	49.7	47.5	T-Test	0.58	66.2	66.1	66.7	T-Test	0.17	
Compass Reading ¹	77.3	77.0	81.2	T-Test	10.81 *	76.0	75.7	79.4	T-Test	3.86 *	76.2	75.8	80.7	T-Test	4.54 *	79.1	79.0	80.8	T-Test	1.94	
Compass Writing ²	60.8	60.1	69.1	T-Test	11.71 *	57.6	57.1	62.9	T-Test	2.73 *	56.3	55.2	67.8	T-Test	6.97 *	64.6	64.3	69.6	T-Test	2.75 *	
Early Admit / Running Start (% of Total)	3.2%	3.0%	6.2%	Chi Sq	40.84 *	3.6%	3.4%	5.7%	Chi Sq	2.99	2.0%	1.8%	3.8%	Chi Sq	3.82	2.7%	2.4%	6.7%	Chi Sq	16.08 *	
Credits Earned in Summer (% of Total)	4.0%	3.7%	7.9%	Chi Sq	55.06 *	3.8%	3.8%	3.9%	Chi Sq	0.01	6.6%	6.2%	11.0%	Chi Sq	7.21 *	4.1%	4.0%	5.5%	Chi Sq	1.30	
Demographics:																					
Age <=19	72.1%	71.5%	79.4%	Chi Sq	38.08 *	64.0%	63.4%	71.2%	Chi Sq	5.59 *	75.9%	76.1%	74.6%	Chi Sq	0.21	77.3%	76.9%	84.0%	Chi Sq	6.51 *	
Average Age	20.8	20.9	19.8	T-Test	6.83 *	22.0	22.0	21.0	T-Test	2.08 *	20.2	20.1	20.6	T-Test	1.04	19.8	19.9	19.2	T-Test	2.50 *	
Ethnic Minority ³	56.4%	57.1%	48.8%	Chi Sq	33.83 *	62.8%	63.2%	58.5%	Chi Sq	2.00	60.2%	61.6%	45.9%	Chi Sq	19.40 *	39.7%	40.6%	26.5%	Chi Sq	18.68 *	
Gender:				Chi Sq	2.63				Chi Sq	11.83 *				Chi Sq	4.05				Chi Sq	0.01	
Female	50.6%	50.7%	48.5%			50.1%	51.1%	39.3%			33.2%	32.9%	36.4%			51.8%	51.8%	51.7%			
Male	48.1%	47.9%	50.2%			47.4%	46.5%	58.1%			65.4%	65.6%	63.6%			47.3%	47.3%	47.5%			
Unknown	1.4%	1.4%	1.4%			2.4%	2.4%	2.6%			1.4%	1.6%				0.9%	0.9%	0.8%			
High School Type:				Chi Sq	11.01 *				Chi Sq	3.10				Chi Sq	26.84 *				Chi Sq	4.00	
Hawai'i Private	6.9%	6.8%	8.3%			5.6%	5.4%	7.4%			6.3%	6.0%	10.0%			10.4%	10.5%	8.0%			
Hawai'i Public	69.4%	69.4%	69.9%			69.8%	69.6%	71.6%			73.5%	74.5%	63.2%			61.3%	61.0%	65.5%			
Mainland	7.5%	7.5%	7.7%			7.7%	7.7%	7.0%			6.2%	6.3%	5.3%			6.6%	6.5%	7.6%			
Foreign / US Related	4.3%	4.3%	4.5%			2.4%	2.4%	2.2%			3.0%	2.5%	7.7%			10.8%	10.8%	10.5%			
Other ⁴	11.9%	12.1%	9.6%			14.6%	14.8%	11.8%			11.0%	10.7%	13.9%			10.9%	11.1%	8.4%			
Recent High School Graduate ⁵	63.1%	62.4%	71.4%	Chi Sq	42.43 *	55.8%	55.1%	63.8%	Chi Sq	6.34 *	65.1%	65.4%	62.2%	Chi Sq	0.85	69.1%	68.5%	77.7%	Chi Sq	8.82 *	
Pell Recipient ⁶	41.2%	41.2%	41.4%	Chi Sq	0.03	59.4%	59.7%	55.9%	Chi Sq	1.27	30.7%	30.2%	34.9%	Chi Sq	1.97	27.2%	26.7%	34.0%	Chi Sq	6.04 *	
Percent of Financial Need Met ⁷	59.3%	58.8%	66.1%	T-Test	6.38 *	47.5%	46.4%	60.3%	T-Test	5.65 *	60.4%	60.2%	62.3%	T-Test	0.61	75.7%	75.6%	76.9%	T-Test	0.51	

APPENDIX 2
CHARACTERISTICS OF FIRST-TIME FRESHMEN BY SYSTEMWIDE CREDITS ATTEMPTED
UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES, BY CAMPUS
FALL SEMESTERS, 2009 TO 2011

	Kaua'i CC					Leeward CC					Maui College					Windward CC									
	Total	Credits	Taken	Test	Test	Total	Credits	Taken	Test	Test	Total	Credits	Taken	Test	Test	Total	Credits	Taken	Test	Test					
	<15	>=15	Method	Value	<15	>=15	Method	Value	<15	>=15	Method	Value	<15	>=15	Method	Value	<15	>=15	Method	Value					
Number of First-Time Freshmen	909	826	83		4,124	3,830	294		2,649	2,420	229		1,339	1,290	49										
Percentage by Credit Breakpoint	100%	90.9%	9.1%		100%	92.9%	7.1%		100%	91.4%	8.6%		100%	96.3%	3.7%										
Academic Preparation:																									
Compass Pre-Algebra	44.8	44.0	54.0	T-Test	3.07 *	38.7	38.2	48.1	T-Test	4.78 *	39.8	39.2	47.1	T-Test	5.09 *	41.1	40.4	66.9	T-Test	4.97 *					
Compass Algebra	41.5	40.9	45.0	T-Test	1.70	41.4	41.0	45.0	T-Test	2.79 *	43.6	42.6	49.3	T-Test	3.20 *	42.1	42.1	42.2	T-Test	0.04					
Compass College Algebra	54.4	53.2	60.9	T-Test	1.34	52.2	52.4	51.4	T-Test	0.52	59.7	60.1	58.1	T-Test	0.75	63.2	62.8	69.2	T-Test	1.03					
Compass Trigonometry	44.7	48.3	37.6	T-Test	1.89	47.3	47.1	48.1	T-Test	0.43	56.4	56.6	54.8	T-Test	0.32	58.2	57.6	66.5	T-Test	1.04					
Compass Reading ¹	76.3	75.9	80.2	T-Test	2.93 *	77.9	77.5	82.0	T-Test	5.57 *	75.9	75.3	81.8	T-Test	7.20 *	79.1	78.7	87.8	T-Test	6.86 *					
Compass Writing ²	59.5	58.8	65.7	T-Test	2.19 *	61.9	61.2	70.9	T-Test	6.35 *	59.9	58.8	72.1	T-Test	7.09 *	64.9	64.1	84.1	T-Test	7.83 *					
Early Admit / Running Start (% of Total)	3.9%	3.9%	3.6%	Chi Sq	0.01	0.9%	0.9%	2.0%	Chi Sq	4.05 *	7.3%	6.9%	12.2%	Chi Sq	8.88 *	4.2%	3.7%	16.3%	Chi Sq	18.72 *					
Credits Earned in Summer (% of Total)	2.6%	2.4%	4.8%	Chi Sq	1.69	2.5%	2.1%	7.5%	Chi Sq	32.94 *	5.3%	4.7%	11.8%	Chi Sq	21.19 *	3.3%	2.9%	14.3%	Chi Sq	19.36 *					
Demographics:																									
Age <=19	75.2%	74.8%	79.5%	Chi Sq	0.89	77.2%	76.4%	87.1%	Chi Sq	17.52 *	61.9%	60.4%	78.2%	Chi Sq	28.09 *	69.8%	69.6%	75.5%	Chi Sq	0.78					
Average Age	20.4	20.5	19.9	T-Test	0.84	20.1	20.2	18.8	T-Test	5.81 *	22.7	23.0	19.7	T-Test	8.78 *	21.2	21.2	20.2	T-Test	0.92					
Ethnic Minority ³	57.6%	58.0%	54.2%	Chi Sq	0.44	58.9%	59.8%	47.6%	Chi Sq	16.79 *	64.8%	64.8%	65.5%	Chi Sq	0.05	59.2%	59.8%	44.9%	Chi Sq	4.32 *					
Gender:					Chi Sq	1.48					Chi Sq	0.12					Chi Sq	0.21					Chi Sq	1.93	
Female	54.9%	55.2%	51.8%					53.8%	53.8%	53.1%					56.2%	56.1%	57.6%					54.0%	54.1%	51.0%	
Male	44.7%	44.4%	47.0%					44.1%	44.0%	44.6%					43.8%	43.9%	42.4%					44.4%	44.3%	44.9%	
Unknown	0.4%	0.4%	1.2%					2.2%	2.1%	2.4%									1.6%	1.6%	4.1%				
High School Type:					Chi Sq	4.61					Chi Sq	8.22					Chi Sq	10.94 *					Chi Sq	9.55 *	
Hawai'i Private	4.6%	4.8%	2.4%					4.6%	4.3%	7.5%					5.8%	5.5%	8.7%					11.4%	11.0%	20.4%	
Hawai'i Public	73.3%	72.8%	78.3%					76.5%	76.5%	75.9%					68.1%	67.6%	72.5%					63.6%	64.1%	49.0%	
Mainland	9.0%	8.7%	12.0%					6.9%	6.9%	6.8%					9.3%	9.4%	8.3%					8.8%	8.5%	16.3%	
Foreign / US Related	2.1%	2.2%	1.2%					2.4%	2.3%	2.7%					3.1%	3.1%	2.2%					1.8%	1.9%		
Other ⁴	11.0%	11.5%	6.0%					9.7%	9.9%	7.1%					13.8%	14.3%	8.3%					14.5%	14.5%	14.3%	
Recent High School Graduate ⁵	67.4%	66.9%	72.3%	Chi Sq	0.98	66.6%	65.7%	78.6%	Chi Sq	20.44 *	54.7%	53.2%	71.2%	Chi Sq	27.35 *	60.2%	59.8%	71.4%	Chi Sq	2.68					
Pell Recipient ⁶	42.9%	42.0%	51.8%	Chi Sq	2.96	35.7%	36.1%	29.6%	Chi Sq	5.10 *	54.8%	55.1%	51.5%	Chi Sq	1.07	50.6%	50.9%	42.9%	Chi Sq	1.23					
Percent of Financial Need Met ⁷	59.8%	59.5%	62.2%	T-Test	0.58	56.9%	56.4%	63.9%	T-Test	2.60 *	58.9%	58.0%	68.3%	T-Test	4.29 *	60.6%	60.2%	69.3%	T-Test	1.54					

APPENDIX 2
CHARACTERISTICS OF FIRST-TIME FRESHMEN BY SYSTEMWIDE CREDITS ATTEMPTED
UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES, BY CAMPUS
FALL SEMESTERS, 2009 TO 2011

	UHCC				Hawai'i CC				Honolulu CC				Kapi'olani CC			
	Total <15	Credits Taken =>15	Test Method	Test Value	Total <15	Credits Taken =>15	Test Method	Test Value	Total <15	Credits Taken =>15	Test Method	Test Value	Total <15	Credits Taken =>15	Test Method	Test Value
Residency:	Chi Sq 2.76				Chi Sq 2.06				Chi Sq 0.60				Chi Sq 1.19			
Resident	89.7%	89.7%	90.3%		94.1%	94.0%	95.2%		89.5%	89.6%	88.5%		82.1%	82.2%	79.8%	
Non-Resident	5.9%	5.9%	5.2%		4.2%	4.2%	3.9%		3.8%	3.7%	4.8%		14.6%	14.6%	16.0%	
Exempted	3.5%	3.5%	3.9%		1.0%	1.0%	0.9%		5.8%	5.8%	5.7%		2.2%	2.1%	2.9%	
1.5X ⁸	0.8%	0.9%	0.6%		0.8%	0.9%			0.9%	0.9%	1.0%		1.1%	1.1%	1.3%	
Academic Success:																
1st Semester GPA (Mean) ⁹	2.24	2.21	2.64	T-Test 13.51 *	2.37	2.34	2.73	T-Test 5.27 *	2.14	2.10	2.56	T-Test 5.59 *	2.22	2.18	2.72	T-Test 7.39 *
1st Sem Grade >="B" Avg (% of Total) ^{9,10}	40.9%	40.0%	50.7%	Chi Sq 57.29 *	45.1%	44.3%	53.5%	Chi Sq 7.08 *	35.4%	33.9%	48.8%	Chi Sq 17.79 *	41.1%	40.1%	54.9%	Chi Sq 19.93 *
1st Sem Grade >="C+" Avg (% of Total) ^{9,11}	52.3%	51.2%	65.2%	Chi Sq 95.65 *	56.7%	56.1%	63.2%	Chi Sq 4.20 *	48.4%	46.8%	62.4%	Chi Sq 18.04 *	52.2%	51.0%	70.0%	Chi Sq 32.33 *
Credit Completion Ratio >=80% (% of Total)	54.2%	52.4%	76.0%	Chi Sq 274.81 *	61.8%	60.0%	81.6%	Chi Sq 41.12 *	52.5%	50.3%	75.0%	Chi Sq 46.48 *	56.7%	55.2%	78.6%	Chi Sq 49.52 *
Course Withdrawals >=20% (% of Total) ¹²	12.5%	12.5%	11.5%	Chi Sq 1.17	7.5%	7.8%	4.4%	Chi Sq 3.50	12.4%	12.7%	9.1%	Chi Sq 2.19	14.1%	14.4%	10.9%	Chi Sq 2.17
Persistence to Next Spring (% of Total) ¹³	76.6%	75.7%	88.6%	Chi Sq 114.52 *	75.9%	74.7%	90.0%	Chi Sq 26.88 *	72.9%	71.8%	84.7%	Chi Sq 16.05 *	79.6%	78.8%	91.2%	Chi Sq 21.01 *
Persistence to Next Fall (% of Total) ¹³	54.2%	53.3%	66.0%	Chi Sq 80.84 *	48.9%	47.5%	64.6%	Chi Sq 24.81 *	50.1%	48.9%	61.7%	Chi Sq 12.44 *	59.4%	58.9%	67.2%	Chi Sq 6.47 *

Note: Tests of significance used t-test and Chi Square methods.

* Indicates significant at the .05 confidence level.

¹ If student record had no Compass Reading score, Compass ESL Reading score was used (where available).

² If student record had no Compass Writing score, Compass ESL Writing score was used (where available).

³ Minority ethnicities: African American, American Indian, Filipino, Hawaiian, Hispanic and Pacific Islander.

⁴ Other includes: GED recipients, students who did not graduate from high school, home schoolers and unknown.

⁵ Recent high school graduate year = calendar year of entry to college (for example, June 2010 for Fall 2010 first-time freshmen).

⁶ Federal Pell Award accepted in academic year of entry (any campus).

⁷ Data for academic year of entry per home campus.

⁸ Includes Revised Institutional Exemption — students who pay 150% of resident tuition.

⁹ Excludes courses for which grade points were not awarded: Grades CE, CR, I, L, N, NC, NP, RD & W.

¹⁰ "B" average defined as Grade Point Average >=3.0.

¹¹ "C+" average defined as Grade Point Average >=2.5.

¹² Calculated on total credits taken per student record.

¹³ Persistence at Home Campus (campus where enrolled as a first-time freshman); excludes possible enrollment at other UH campuses.

Sources: IRO Base, Census; IRO Regs, EOS; MST_Award_by_Person (Pell Status); MST_Applicant_Need (Percent of Financial Need Met).
UH Institutional Research and Analysis Office; October 2012; revised August 2013.

APPENDIX 2
CHARACTERISTICS OF FIRST-TIME FRESHMEN BY SYSTEMWIDE CREDITS ATTEMPTED
UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES, BY CAMPUS
FALL SEMESTERS, 2009 TO 2011

	Kaua'i CC					Leeward CC					Maui College					Windward CC				
	Total	Credits Taken	Test	Test		Total	Credits Taken	Test	Test		Total	Credits Taken	Test	Test		Total	Credits Taken	Test	Test	
	<15	>=15	Method	Value		<15	>=15	Method	Value		<15	>=15	Method	Value		<15	>=15	Method	Value	
Residency:	Chi Sq 1.09					Chi Sq 8.41 *					Chi Sq 2.54					Chi Sq 1.34				
Resident	95.6%	95.6%	95.2%			89.0%	88.9%	90.1%			95.2%	95.0%	96.9%			90.6%	90.7%	87.8%		
Non-Resident	2.9%	2.9%	2.4%			3.2%	3.4%	0.7%			3.3%	3.3%	2.6%			3.3%	3.3%	4.1%		
Exempted	1.3%	1.2%	2.4%			7.1%	6.9%	8.8%			0.6%	0.7%				5.4%	5.3%	6.1%		
1.5X ⁸	0.2%	0.2%				0.7%	0.8%	0.3%			0.9%	1.0%	0.4%			0.7%	0.7%	2.0%		
Academic Success:																				
1st Semester GPA (Mean) ⁹	2.38	2.35	2.72	T-Test	2.61 *	2.20	2.19	2.42	T-Test	3.18 *	2.26	2.22	2.73	T-Test	6.82 *	2.16	2.13	2.91	T-Test	5.73 *
1st Sem Grade >="B" Avg (% of Total) ^{9,10}	45.4%	44.2%	57.3%	Chi Sq	5.18 *	38.0%	37.8%	41.2%	Chi Sq	1.33	43.5%	42.6%	53.7%	Chi Sq	10.53 *	40.7%	40.0%	57.1%	Chi Sq	5.70 *
1st Sem Grade >="C+" Avg (% of Total) ^{9,11}	58.3%	56.7%	73.2%	Chi Sq	8.24 *	49.3%	48.6%	58.1%	Chi Sq	9.81 *	54.4%	52.9%	69.6%	Chi Sq	23.16 *	50.6%	49.8%	71.4%	Chi Sq	8.85 *
Credit Completion Ratio >=80% (% of Total)	57.4%	55.3%	78.0%	Chi Sq	15.76 *	52.6%	51.5%	67.3%	Chi Sq	27.52 *	49.2%	46.6%	77.3%	Chi Sq	78.98 *	46.4%	45.0%	83.7%	Chi Sq	28.36 *
Course Withdrawals >=20% (% of Total) ¹²	11.8%	12.1%	8.5%	Chi Sq	0.91	13.3%	12.8%	19.4%	Chi Sq	10.17 *	12.0%	12.0%	12.7%	Chi Sq	0.10	17.0%	17.2%	10.2%	Chi Sq	1.65
Persistence to Next Spring (% of Total) ¹³	76.5%	75.4%	86.7%	Chi Sq	5.37 *	77.0%	76.2%	87.4%	Chi Sq	19.43 *	76.6%	75.3%	90.4%	Chi Sq	26.51 *	75.2%	74.7%	87.8%	Chi Sq	4.30 *
Persistence to Next Fall (% of Total) ¹³	53.2%	51.9%	66.3%	Chi Sq	6.22 *	57.2%	56.3%	68.7%	Chi Sq	17.26 *	53.6%	52.0%	70.7%	Chi Sq	29.47 *	50.6%	50.8%	46.9%	Chi Sq	0.28

Note: Tests of significance used t-test and Chi Square methods.

* Indicates significant at the .05 confidence level.

¹ If student record had no Compass Reading score, Compass ESL Reading score was used (where available).

² If student record had no Compass Writing score, Compass ESL Writing score was used (where available).

³ Minority ethnicities: African American, American Indian, Filipino, Hawaiian, Hispanic and Pacific Islander.

⁴ Other includes: GED recipients, students who did not graduate from high school, home schoolers and unknown.

⁵ Recent high school graduate year = calendar year of entry to college (for example, June 2010 for Fall 2010 first-time freshmen).

⁶ Federal Pell Award accepted in academic year of entry (any campus).

⁷ Data for academic year of entry per home campus.

⁸ Includes Revised Institutional Exemption — students who pay 150% of resident tuition.

⁹ Excludes courses for which grade points were not awarded: Grades CE, CR, I, L, N, NC, NP, RD & W.

¹⁰ "B" average defined as Grade Point Average >=3.0.

¹¹ "C+" average defined as Grade Point Average >=2.5.

¹² Calculated on total credits taken per student record.

¹³ Persistence at Home Campus (campus where enrolled as a first-time freshman); excludes possible enrollment at other UH campuses.

Sources: IRO Base, Census; IRO Regs, EOS; MST_Award_by_Person (Pell Status); MST_Applicant_Need (Percent of Financial Need Met).
UH Institutional Research and Analysis Office; October 2012; revised August 2013.

APPENDIX 2A
 COMPARISON OF FIRST-TIME FRESHMEN AT THE UH COMMUNITY COLLEGES
 ON ACADEMIC PERFORMANCE MEASURES
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 FALL SEMESTERS 2009 TO 2011 AND FALL 2012

Comparison Group	UHCC			Hawai'i CC			Honolulu CC			Kapi'olani CC		
	Total	Credits Taken <15	>=15	Total	Credits Taken <15	>=15	Total	Credits Taken <15	>=15	Total	Credits Taken <15	>=15
Fall 2009 to Fall 2011 Group:												
1st Semester GPA (Mean) ¹	2.24	2.21	2.64 *	2.37	2.34	2.73 *	2.14	2.10	2.56 *	2.22	2.18	2.72 *
1st Sem Grade >="B" Avg (% of Total) ^{1,2}	40.9%	40.0%	50.7% *	45.1%	44.3%	53.5% *	35.4%	33.9%	48.8% *	41.1%	40.1%	54.9% *
1st Sem Grade >="C+" Avg (% of Total) ^{1,3}	52.3%	51.2%	65.2% *	56.7%	56.1%	63.2% *	48.4%	46.8%	62.4% *	52.2%	51.0%	70.0% *
Credit Completion Ratio >=80% (% of Total)	54.2%	52.4%	76.0% *	61.8%	60.0%	81.6% *	52.5%	50.3%	75.0% *	56.7%	55.2%	78.6% *
Course Withdrawals >=20% (% of Total) ⁴	12.5%	12.5%	11.5%	7.5%	7.8%	4.4%	12.4%	12.7%	9.1%	14.1%	14.4%	10.9%
Persistence to Next Spring (% of Total) ⁵	76.6%	75.7%	88.6% *	75.9%	74.7%	90.0% *	72.9%	71.8%	84.7% *	79.6%	78.8%	91.2% *
Persistence to Next Fall (% of Total)	54.2%	53.3%	66.0% *	48.9%	47.5%	64.6% *	50.1%	48.9%	61.7% *	59.4%	58.9%	67.2% *
Fall 2012 Group:												
1st Semester GPA (Mean) ¹	2.30	2.26	2.58 *	2.23	2.18	2.63 *	2.18	2.14	2.46 *	2.31	2.28	2.54 *
1st Sem Grade >="B" Avg (% of Total) ^{1,2}	43.3%	42.5%	49.1% *	40.5%	39.6%	47.8%	36.9%	35.6%	45.8%	44.7%	44.5%	46.4%
1st Sem Grade >="C+" Avg (% of Total) ^{1,3}	54.9%	53.6%	63.9% *	53.3%	52.0%	63.3% *	49.7%	48.4%	58.3%	56.6%	55.8%	63.8%
Credit Completion Ratio >=80% (% of Total)	55.8%	53.7%	72.0% *	59.3%	56.7%	80.2% *	52.5%	50.2%	69.9% *	59.8%	58.0%	75.7% *
Course Withdrawals >=20% (% of Total) ⁴	12.1%	12.1%	12.7%	7.8%	8.2%	4.4%	12.8%	13.2%	9.6%	13.6%	13.1%	17.9%
Persistence to Next Spring (% of Total) ⁵	74.3%	72.6%	87.5% *	70.4%	68.3%	87.0% *	73.3%	71.0%	90.4% *	77.0%	76.1%	85.0% *
Persistence to Next Fall (% of Total) ⁶	52.7%	50.7%	68.3% *	46.7%	44.1%	67.4% *	49.8%	47.1%	69.9% *	56.5%	55.3%	67.1% *

Note: * denotes statistical significance at the .05 confidence level.

¹ Excludes courses for which grade points were not awarded: Grades CE, CR, I, L, N, NC, NP, RD & W.

² "B" average defined as Grade Point Average >=3.0.

³ "C+" average defined as Grade Point Average >=2.5.

⁴ Calculated on total credits taken per student record.

⁵ Persistence at Home Campus (campus where enrolled as a first-time freshman); excludes possible enrollment at other UH campuses.

⁶ Fall to Fall persistence information not yet available for Fall 2012 first-time freshmen.

Sources: IRO Base, Census; IRO Regs, EOS.

UH Institutional Research and Analysis Office; March 2013; updated September 2013.

APPENDIX 2A
 COMPARISON OF FIRST-TIME FRESHMEN AT THE UH COMMUNITY COLLEGES
 ON ACADEMIC PERFORMANCE MEASURES
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 FALL SEMESTERS 2009 TO 2011 AND FALL 2012

Comparison Group	Kaua'i CC			Leeward CC			Maui College			Windward CC		
	Total	Credits Taken		Total	Credits Taken		Total	Credits Taken		Total	Credits Taken	
		<15	>=15		<15	>=15		<15	>=15		<15	>=15
Fall 2009 to Fall 2011 Group:												
1st Semester GPA (Mean) ¹	2.38	2.35	2.72 *	2.20	2.19	2.42 *	2.26	2.22	2.73 *	2.16	2.13	2.91 *
1st Sem Grade >="B" Avg (% of Total) ^{1,2}	45.4%	44.2%	57.3% *	38.0%	37.8%	41.2%	43.5%	42.6%	53.7% *	40.7%	40.0%	57.1% *
1st Sem Grade >="C+" Avg (% of Total) ^{1,3}	58.3%	56.7%	73.2% *	49.3%	48.6%	58.1% *	54.4%	52.9%	69.6% *	50.6%	49.8%	71.4% *
Credit Completion Ratio >=80% (% of Total)	57.4%	55.3%	78.0% *	52.6%	51.5%	67.3% *	49.2%	46.6%	77.3% *	46.4%	45.0%	83.7% *
Course Withdrawals >=20% (% of Total) ⁴	11.8%	12.1%	8.5%	13.3%	12.8%	19.4% *	12.0%	12.0%	12.7%	17.0%	17.2%	10.2%
Persistence to Next Spring (% of Total) ⁵	76.5%	75.4%	86.7% *	77.0%	76.2%	87.4% *	76.6%	75.3%	90.4% *	75.2%	74.7%	87.8% *
Persistence to Next Fall (% of Total)	53.2%	51.9%	66.3% *	57.2%	56.3%	68.7% *	53.6%	52.0%	70.7% *	50.6%	50.8%	46.9%
Fall 2012 Group:												
1st Semester GPA (Mean) ¹	2.57	2.49	3.25 *	2.29	2.25	2.51 *	2.34	2.32	2.62	2.31	2.27	2.52
1st Sem Grade >="B" Avg (% of Total) ^{1,2}	51.6%	48.2%	77.8% *	43.1%	41.9%	49.5%	44.6%	44.3%	48.2%	45.3%	45.7%	42.9%
1st Sem Grade >="C+" Avg (% of Total) ^{1,3}	64.2%	60.7%	91.7% *	53.4%	51.7%	63.0% *	56.2%	55.8%	60.7%	55.0%	54.0%	60.7%
Credit Completion Ratio >=80% (% of Total)	63.7%	60.3%	91.7% *	55.2%	52.4%	71.9% *	51.7%	50.4%	67.9% *	44.5%	44.5%	44.6%
Course Withdrawals >=20% (% of Total) ⁴	12.8%	14.0%	2.8%	10.8%	10.4%	13.0%	12.8%	12.9%	10.7%	17.7%	16.6%	25.0%
Persistence to Next Spring (% of Total) ⁵	76.0%	74.0%	91.9% *	75.1%	73.4%	85.9% *	73.0%	71.8%	87.7% *	73.3%	70.3%	92.9% *
Persistence to Next Fall (% of Total) ⁶	53.8%	50.7%	78.4% *	55.8%	53.8%	67.7% *	48.7%	47.2%	66.7% *	52.7%	50.4%	67.9% *

Note: * denotes statistical significance at the .05 confidence level.

¹ Excludes courses for which grade points were not awarded: Grades CE, CR, I, L, N, NC, NP, RD & W.

² "B" average defined as Grade Point Average >=3.0.

³ "C+" average defined as Grade Point Average >=2.5.

⁴ Calculated on total credits taken per student record.

⁵ Persistence at Home Campus (campus where enrolled as a first-time freshman); excludes possible enrollment at other UH campuses.

⁶ Fall to Fall persistence information not yet available for Fall 2012 first-time freshmen.

Sources: IRO Base, Census; IRO Regs, EOS.

UH Institutional Research and Analysis Office; March 2013; updated September 2013.

APPENDIX 3

COMPARISON OF FIRST-TIME FRESHMEN AT THE UH COMMUNITY COLLEGES
 BY ACADEMIC PREPARATION SCORE
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 FALL SEMESTERS 2009 TO 2011 AND FALL 2012

Academic Preparation Score	Fall 2009 to Fall 2011 Group						Fall 2012 Group					
	UHCC System			UHCC System			UHCC System			UHCC System		
	Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits	*	Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits	*
4.00	486	415	71	85%	15%	*	182	139	43	76%	24%	*
3.5 - 3.99	637	545	92	86%	14%	*	250	200	50	80%	20%	*
3.0 - 3.49	1,015	883	132	87%	13%	*	308	245	63	80%	20%	*
2.5 - 2.99	2,091	1,856	235	89%	11%	*	673	560	113	83%	17%	*
2.0 - 2.49	3,838	3,546	292	92%	8%	*	1,236	1,071	165	87%	13%	*
1.5 - 1.99	4,254	3,986	268	94%	6%	*	1,367	1,242	125	91%	9%	*
1.0 - 1.49	4,952	4,745	207	96%	4%	*	1,425	1,352	73	95%	5%	*
NA	687	653	34	95%	5%		236	221	15	94%	6%	
All	17,960	16,629	1,331	93%	7%		5,677	5,030	647	89%	11%	
Academic Preparation Score	Hawai'i CC			Hawai'i CC			Hawai'i CC			Hawai'i CC		
	Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits		Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits	
4.00	28	27	1	96%	4%		16	13	3	81%	19%	
3.5 - 3.99	48	37	11	77%	23%		20	17	3	85%	15%	
3.0 - 3.49	98	83	15	85%	15%		22	19	3	86%	14%	
2.5 - 2.99	298	266	32	89%	11%		94	82	12	87%	13%	
2.0 - 2.49	608	559	49	92%	8%		184	153	31	83%	17%	
1.5 - 1.99	705	648	57	92%	8%		201	183	18	91%	9%	
1.0 - 1.49	944	884	60	94%	6%		281	261	20	93%	7%	
NA	54	50	4	93%	7%		9	7	2	78%	22%	
All	2,783	2,554	229	92%	8%		827	735	92	89%	11%	

APPENDIX 3
COMPARISON OF FIRST-TIME FRESHMEN AT THE UH COMMUNITY COLLEGES
BY ACADEMIC PREPARATION SCORE
WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
FALL SEMESTERS 2009 TO 2011 AND FALL 2012

Academic Preparation Score	Fall 2009 to Fall 2011 Group					Fall 2012 Group				
	Honolulu CC			Honolulu CC		Honolulu CC			Honolulu CC	
	Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits	Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits
4.00	34	28	6	82%	18%	14	11	3	79%	21%
3.5 - 3.99	70	57	13	81%	19%	24	18	6	75%	25%
3.0 - 3.49	109	95	14	87%	13%	24	15	9	63%	38%
2.5 - 2.99	245	208	37	85%	15%	66	54	12	82%	18%
2.0 - 2.49	459	405	54	88%	12%	128	112	16	88%	13%
1.5 - 1.99	586	547	39	93%	7%	169	147	22	87%	13%
1.0 - 1.49	754	717	37	95%	5%	184	179	5	97%	3%
NA	75	66	9	88%	12%	12	12		100%	
All	2,332	2,123	209	91%	9%	621	548	73	88%	12%
Academic Preparation Score	Kapi'olani CC			Kapi'olani CC		Kapi'olani CC			Kapi'olani CC	
Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits	Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits	
4.00	161	138	23	86%	14%	59	47	12	80%	20%
3.5 - 3.99	202	178	24	88%	12%	63	55	8	87%	13%
3.0 - 3.49	315	280	35	89%	11%	95	80	15	84%	16%
2.5 - 2.99	546	502	44	92%	8%	181	151	30	83%	17%
2.0 - 2.49	879	824	55	94%	6%	320	284	36	89%	11%
1.5 - 1.99	847	815	32	96%	4%	307	279	28	91%	9%
1.0 - 1.49	741	723	18	98%	2%	224	218	6	97%	3%
NA	133	126	7	95%	5%	100	95	5	95%	5%
All	3,824	3,586	238	94%	6%	1,349	1,209	140	90%	10%

APPENDIX 3
COMPARISON OF FIRST-TIME FRESHMEN AT THE UH COMMUNITY COLLEGES
BY ACADEMIC PREPARATION SCORE
WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
FALL SEMESTERS 2009 TO 2011 AND FALL 2012

Academic Preparation Score	Fall 2009 to Fall 2011 Group					Fall 2012 Group				
	Kaua'i CC			Kaua'i CC		Kaua'i CC			Kaua'i CC	
	Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits	Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits
4.00	18	15	3	83%	17%	3		3		100%
3.5 - 3.99	25	21	4	84%	16%	12	10	2	83%	17%
3.0 - 3.49	48	40	8	83%	17%	8	7	1	88%	13%
2.5 - 2.99	107	95	12	89%	11%	33	29	4	88%	12%
2.0 - 2.49	199	182	17	91%	9%	76	61	15	80%	20%
1.5 - 1.99	216	191	25	88%	12%	103	97	6	94%	6%
1.0 - 1.49	283	269	14	95%	5%	93	87	6	94%	6%
NA	13	13		100%		5	5		100%	
All	909	826	83	91%	9%	333	296	37	89%	11%
Academic Preparation Score	Leeward CC			Leeward CC		Leeward CC			Leeward CC	
Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits	Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits	
4.00	104	80	24	77%	23%	48	36	12	75%	25%
3.5 - 3.99	163	139	24	85%	15%	74	53	21	72%	28%
3.0 - 3.49	269	241	28	90%	10%	96	76	20	79%	21%
2.5 - 2.99	426	373	53	88%	12%	157	122	35	78%	22%
2.0 - 2.49	858	801	57	93%	7%	274	234	40	85%	15%
1.5 - 1.99	1,028	971	57	94%	6%	316	284	32	90%	10%
1.0 - 1.49	1,128	1,084	44	96%	4%	347	321	26	93%	7%
NA	148	141	7	95%	5%	56	50	6	89%	11%
All	4,124	3,830	294	93%	7%	1,368	1,176	192	86%	14%

APPENDIX 3
COMPARISON OF FIRST-TIME FRESHMEN AT THE UH COMMUNITY COLLEGES
BY ACADEMIC PREPARATION SCORE
WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
FALL SEMESTERS 2009 TO 2011 AND FALL 2012

Academic Preparation Score	Fall 2009 to Fall 2011 Group					Fall 2012 Group				
	Maui College			Maui College		Maui College			Maui College	
	Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits	Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits
4.00	92	80	12	87%	13%	31	25	6	81%	19%
3.5 - 3.99	84	73	11	87%	13%	41	35	6	85%	15%
3.0 - 3.49	109	86	23	79%	21%	28	22	6	79%	21%
2.5 - 2.99	298	254	44	85%	15%	84	74	10	88%	12%
2.0 - 2.49	532	483	49	91%	9%	161	148	13	92%	8%
1.5 - 1.99	587	533	54	91%	9%	171	162	9	95%	5%
1.0 - 1.49	820	788	32	96%	4%	210	203	7	97%	3%
NA	127	123	4	97%	3%	30	30		100%	
All	2,649	2,420	229	91%	9%	756	699	57	92%	8%
Academic Preparation Score	Windward CC			Windward CC		Windward CC			Windward CC	
Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits	Total Number	# Taking <15 Credits	# Taking >=15 Credits	% Taking <15 Credits	% Taking >=15 Credits	
4.00	49	47	2	96%	4%	11	7	4	64%	36%
3.5 - 3.99	45	40	5	89%	11%	16	12	4	75%	25%
3.0 - 3.49	67	58	9	87%	13%	35	26	9	74%	26%
2.5 - 2.99	171	158	13	92%	8%	58	48	10	83%	17%
2.0 - 2.49	303	292	11	96%	4%	93	79	14	85%	15%
1.5 - 1.99	285	281	4	99%	1%	100	90	10	90%	10%
1.0 - 1.49	282	280	2	99%	1%	86	83	3	97%	3%
NA	137	134	3	98%	2%	24	22	2	92%	8%
All	1,339	1,290	49	96%	4%	423	367	56	87%	13%

* Indicates significant at the 0.05 confidence level; z-score statistics calculated for UHCC in aggregate only.

Source: IRO Base, Census; IRO Regs, EOS.

UH Institutional Research and Analysis Office; March 2013; revised August 2013.

APPENDIX 3A
 SELECTED PERFORMANCE MEASURES BY ACADEMIC PREPARATION SCORE
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 FIRST-TIME FRESHMEN AT THE UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES
 FALL SEMESTERS, 2009 TO 2011

Academic Preparation Score	UHCC System			UHCC System			UHCC System			UHCC System			UHCC System			UHCC System					
	Total # Taking	# Taking		Avg GPA	Initial Semester		GPA >="B"			GPA >="C+"			Credit Completion Ratio >80%			Persistence to Next Spring			Persistence to Next Fall		
	Number	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15
	Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits	
4.00	486	415	71 *	2.90	2.87	3.07	65%	64%	70% *	74%	74%	76% *	70%	69%	77% *	83%	83%	83% *	67%	66%	75% *
3.5 - 3.99	637	545	92 *	2.66	2.62	2.89 *	55%	54%	61% *	65%	64%	73% *	66%	63%	84% *	88%	86%	98% *	68%	68%	68% *
3.0 - 3.49	1,015	883	132 *	2.60	2.59	2.68	53%	53%	53% *	65%	65%	68% *	65%	63%	78% *	84%	83%	89% *	67%	67%	72% *
2.5 - 2.99	2,091	1,856	235 *	2.54	2.50	2.82 *	51%	50%	60% *	63%	61%	75% *	62%	60%	79% *	82%	81%	91% *	61%	60%	69% *
2.0 - 2.49	3,838	3,546	292	2.30	2.27	2.61 *	43%	42%	50%	55%	54%	65%	57%	56%	76%	79%	78%	89%	58%	58%	66%
1.5 - 1.99	4,254	3,986	268 *	2.13	2.10	2.55 *	37%	36%	45% *	48%	47%	62% *	51%	50%	75% *	76%	75%	87% *	53%	53%	63% *
1.0 - 1.49	4,952	4,745	207 *	1.91	1.89	2.27 *	30%	29%	36% *	41%	40%	50% *	44%	43%	66% *	71%	71%	86% *	46%	46%	62% *
NA	687	653	34	2.62	2.61	2.77	56%	56%	53%	64%	64%	68%	65%	64%	88%	61%	60%	76%	34%	34%	47%
All	17,960	16,629	1,331	2.24	2.21	2.64	41%	40%	51%	52%	51%	65%	54%	52%	76%	77%	76%	89%	54%	53%	66%

Academic Preparation Score	Hawai'i CC			Hawai'i CC			Hawai'i CC			Hawai'i CC			Hawai'i CC			Hawai'i CC					
	Total # Taking	# Taking		Avg GPA	Initial Semester		GPA >="B"			GPA >="C+"			Credit Completion Ratio >80%			Persistence to Next Spring			Persistence to Next Fall		
	Number	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15
	Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits	
4.00	28	27	1	3.12	3.09	3.83	71%	70%	100%	75%	74%	100%	89%	89%	100%	89%	89%	100%	61%	59%	100%
3.5 - 3.99	48	37	11	2.75	2.79	2.64	60%	64%	45%	66%	69%	55%	71%	68%	82%	88%	86%	91%	50%	51%	45%
3.0 - 3.49	98	83	15	3.01	2.98	3.13	67%	67%	67%	81%	80%	87%	82%	80%	93%	87%	88%	80%	64%	61%	80%
2.5 - 2.99	298	266	32	2.75	2.71	3.12	59%	57%	74%	68%	66%	81%	73%	71%	90%	80%	78%	91%	56%	56%	59%
2.0 - 2.49	608	559	49	2.57	2.54	2.91	52%	51%	63%	65%	65%	69%	68%	66%	90%	80%	79%	98%	55%	52%	82%
1.5 - 1.99	705	648	57	2.33	2.30	2.71	44%	43%	49%	54%	54%	58%	61%	59%	79%	78%	77%	89%	49%	49%	58%
1.0 - 1.49	944	884	60	2.00	1.99	2.28	32%	32%	37%	45%	44%	50%	51%	50%	70%	70%	68%	88%	41%	40%	62%
NA	54	50	4	2.87	2.88	2.74	66%	67%	50%	74%	76%	50%	73%	73%	75%	54%	54%	50%	33%	34%	25%
All	2,783	2,554	229	2.37	2.34	2.73	45%	44%	54%	57%	56%	63%	62%	60%	82%	76%	75%	90%	49%	47%	65%

APPENDIX 3A
 SELECTED PERFORMANCE MEASURES BY ACADEMIC PREPARATION SCORE
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 FIRST-TIME FRESHMEN AT THE UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES
 FALL SEMESTERS, 2009 TO 2011

Academic Preparation Score	Honolulu CC			Honolulu CC			Honolulu CC			Honolulu CC			Honolulu CC			Honolulu CC			Honolulu CC		
	Total # Taking	# Taking		Avg GPA	Initial Semester		GPA >="B"			GPA >="C+"			Credit Completion Ratio >80%			Persistence to Next Spring			Persistence to Next Fall		
	Number	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15
		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits
4.00	34	28	6	2.40	2.34	2.67	50%	46%	67%	59%	57%	67%	53%	54%	50%	76%	75%	83%	56%	54%	67%
3.5 - 3.99	70	57	13	2.93	2.90	3.07	57%	56%	62%	76%	72%	92%	66%	61%	85%	89%	86%	100%	69%	65%	85%
3.0 - 3.49	109	95	14	2.73	2.74	2.72	56%	57%	50%	71%	72%	64%	69%	67%	86%	81%	80%	86%	67%	65%	79%
2.5 - 2.99	245	208	37	2.39	2.31	2.83	45%	42%	64%	59%	56%	75%	57%	53%	78%	76%	75%	81%	53%	51%	62%
2.0 - 2.49	459	405	54	2.27	2.25	2.43	37%	37%	39%	53%	52%	56%	61%	59%	74%	80%	79%	85%	57%	57%	57%
1.5 - 1.99	586	547	39	2.08	2.05	2.53	33%	32%	50%	46%	45%	61%	50%	48%	82%	74%	73%	92%	51%	50%	64%
1.0 - 1.49	754	717	37	1.76	1.73	2.19	23%	23%	37%	34%	33%	46%	42%	41%	59%	67%	67%	78%	43%	43%	54%
NA	75	66	9	2.71	2.68	2.85	56%	56%	56%	67%	65%	78%	73%	71%	89%	43%	39%	67%	17%	14%	44%
All	2,332	2,123	209	2.14	2.10	2.56	35%	34%	49%	48%	47%	62%	52%	50%	75%	73%	72%	85%	50%	49%	62%

Academic Preparation Score	Kapi'olani CC			Kapi'olani CC			Kapi'olani CC			Kapi'olani CC			Kapi'olani CC			Kapi'olani CC			Kapi'olani CC		
	Total # Taking	# Taking		Avg GPA	Initial Semester		GPA >="B"			GPA >="C+"			Credit Completion Ratio >80%			Persistence to Next Spring			Persistence to Next Fall		
	Number	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15
		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits
4.00	161	138	23	3.00	2.91	3.23	69%	68%	74%	77%	75%	87%	75%	72%	87%	84%	84%	83%	69%	70%	65%
3.5 - 3.99	202	178	24	2.96	2.56	3.23	55%	51%	79%	66%	63%	88%	67%	64%	88%	87%	85%	96%	69%	70%	67%
3.0 - 3.49	315	280	35	2.64	2.52	2.67	52%	52%	54%	64%	63%	69%	64%	63%	71%	85%	84%	94%	67%	66%	77%
2.5 - 2.99	546	502	44	2.54	2.45	2.81	50%	49%	61%	62%	60%	80%	62%	60%	86%	88%	88%	91%	65%	65%	70%
2.0 - 2.49	879	824	55	2.48	2.14	2.53	38%	37%	50%	50%	49%	63%	57%	56%	73%	80%	80%	91%	63%	63%	58%
1.5 - 1.99	847	815	32	2.16	1.95	2.33	31%	31%	31%	44%	43%	53%	50%	50%	69%	78%	77%	94%	58%	57%	78%
1.0 - 1.49	741	723	18	1.96	1.81	2.50	30%	29%	39%	39%	39%	56%	47%	46%	78%	74%	73%	83%	49%	49%	56%
NA	133	126	7	1.83	2.90	2.80	67%	68%	57%	73%	73%	71%	74%	73%	100%	56%	53%	100%	29%	28%	57%
All	3,824	3,586	238	2.22	2.18	2.72	41%	40%	55%	52%	51%	70%	57%	55%	79%	80%	79%	91%	59%	59%	67%

APPENDIX 3A
 SELECTED PERFORMANCE MEASURES BY ACADEMIC PREPARATION SCORE
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 FIRST-TIME FRESHMEN AT THE UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES
 FALL SEMESTERS, 2009 TO 2011

Academic Preparation Score	Kaua'i CC			Kaua'i CC			Kaua'i CC			Kaua'i CC			Kaua'i CC			Kaua'i CC		
	Total Number	# Taking <15 Credits	# Taking >=15 Credits	Avg GPA	Initial Semester <15 Credits	Initial Semester >=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits
4.00	18	15	3	3.38	3.26	3.93	71%	64%	100%	88%	86%	100%	83%	80%	100%	89%	87%	100%
3.5 - 3.99	25	21	4	2.73	2.70	2.88	63%	60%	75%	63%	60%	75%	64%	62%	75%	80%	76%	100%
3.0 - 3.49	48	40	8	2.74	2.78	2.45	57%	58%	57%	70%	70%	71%	64%	63%	71%	90%	93%	75%
2.5 - 2.99	107	95	12	2.64	2.58	3.10	49%	48%	50%	68%	65%	92%	68%	65%	92%	81%	80%	92%
2.0 - 2.49	199	182	17	2.45	2.41	2.85	48%	46%	71%	61%	60%	76%	60%	59%	76%	79%	79%	82%
1.5 - 1.99	216	191	25	2.26	2.24	2.41	41%	41%	48%	52%	51%	60%	56%	54%	72%	74%	72%	84%
1.0 - 1.49	283	269	14	2.15	2.12	2.65	39%	38%	50%	52%	51%	71%	48%	47%	79%	72%	71%	93%
NA	13	13		2.96	2.96		69%	69%		69%	69%		77%	77%		62%	62%	
All	909	826	83	2.38	2.35	2.72	45%	44%	57%	58%	57%	73%	57%	55%	78%	76%	75%	87%
4.00	104	80	24	2.94	2.91	3.05	62%	61%	65%	74%	75%	70%	71%	69%	79%	85%	85%	83%
3.5 - 3.99	163	139	24	2.45	2.46	2.37	46%	47%	38%	58%	59%	50%	59%	56%	75%	88%	86%	100%
3.0 - 3.49	269	241	28	2.46	2.46	2.41	45%	45%	43%	57%	57%	57%	59%	58%	71%	84%	82%	100%
2.5 - 2.99	426	373	53	2.48	2.47	2.55	47%	48%	45%	60%	58%	70%	60%	58%	72%	84%	82%	94%
2.0 - 2.49	858	801	57	2.24	2.23	2.37	42%	42%	40%	51%	51%	60%	54%	53%	63%	77%	77%	81%
1.5 - 1.99	1,028	971	57	2.14	2.13	2.41	35%	35%	38%	48%	47%	63%	53%	52%	70%	76%	75%	81%
1.0 - 1.49	1,128	1,084	44	1.92	1.91	1.97	28%	28%	28%	38%	38%	35%	44%	43%	50%	72%	72%	82%
NA	148	141	7	2.47	2.47	2.57	47%	47%	57%	58%	58%	57%	56%	56%	71%	72%	70%	100%
All	4,124	3,830	294	2.20	2.19	2.42	38%	38%	41%	49%	49%	58%	53%	51%	67%	77%	76%	87%

APPENDIX 3A
 SELECTED PERFORMANCE MEASURES BY ACADEMIC PREPARATION SCORE
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 FIRST-TIME FRESHMEN AT THE UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES
 FALL SEMESTERS, 2009 TO 2011

Academic Preparation Score	Maui College			Maui College			Maui College			Maui College			Maui College			Maui College			Maui College		
	Total # Taking Number	# Taking <15 Credits	# Taking >=15 Credits	Avg GPA Total	Initial Semester <15 Credits	Initial Semester >=15 Credits	GPA >="B" Total	<15 Credits	>=15 Credits	GPA >="C+" Total	<15 Credits	>=15 Credits	Credit Completion Ratio >80% Total	<15 Credits	>=15 Credits	Persistence to Next Spring Total	<15 Credits	>=15 Credits	Persistence to Next Fall Total	<15 Credits	>=15 Credits
4.00	92	80	12	2.95	2.97	2.81	68%	69%	67%	76%	78%	67%	74%	75%	67%	82%	83%	75%	65%	64%	75%
3.5 - 3.99	84	73	11	2.76	2.69	3.19	63%	60%	82%	67%	65%	82%	73%	71%	91%	93%	92%	100%	75%	74%	82%
3.0 - 3.49	109	86	23	2.57	2.57	2.59	53%	54%	48%	66%	67%	61%	64%	60%	78%	83%	81%	87%	64%	64%	65%
2.5 - 2.99	298	254	44	2.66	2.60	2.96	58%	56%	70%	67%	66%	75%	60%	57%	80%	80%	77%	95%	59%	57%	75%
2.0 - 2.49	532	483	49	2.34	2.30	2.70	46%	45%	50%	58%	57%	71%	52%	49%	78%	79%	78%	92%	60%	58%	73%
1.5 - 1.99	587	533	54	2.15	2.09	2.72	41%	40%	49%	51%	49%	72%	44%	40%	76%	74%	73%	85%	51%	50%	63%
1.0 - 1.49	820	788	32	1.95	1.93	2.42	31%	31%	38%	43%	42%	59%	38%	37%	72%	75%	74%	97%	47%	46%	75%
NA	127	123	4	2.52	2.51	2.69	53%	54%	25%	62%	61%	75%	62%	61%	100%	65%	64%	75%	33%	33%	50%
All	2,649	2,420	229	2.26	2.22	2.73	44%	43%	54%	54%	53%	70%	49%	47%	77%	77%	75%	90%	54%	52%	71%
Academic Preparation Score	Windward CC			Windward CC			Windward CC			Windward CC			Windward CC			Windward CC			Windward CC		
	Total # Taking Number	# Taking <15 Credits	# Taking >=15 Credits	Avg GPA Total	Initial Semester <15 Credits	Initial Semester >=15 Credits	GPA >="B" Total	<15 Credits	>=15 Credits	GPA >="C+" Total	<15 Credits	>=15 Credits	Credit Completion Ratio >80% Total	<15 Credits	>=15 Credits	Persistence to Next Spring Total	<15 Credits	>=15 Credits	Persistence to Next Fall Total	<15 Credits	>=15 Credits
4.00	49	47	2	2.76	2.54	2.63	58%	59%	50%	69%	70%	50%	41%	40%	50%	80%	79%	100%	59%	60%	50%
3.5 - 3.99	45	40	5	2.55	2.73	3.27	62%	63%	60%	73%	73%	80%	71%	68%	100%	91%	90%	100%	64%	68%	40%
3.0 - 3.49	67	58	9	2.79	2.47	3.21	59%	56%	78%	68%	65%	89%	61%	57%	89%	78%	79%	67%	63%	64%	56%
2.5 - 2.99	171	158	13	2.57	2.46	2.51	48%	48%	46%	58%	58%	54%	56%	57%	54%	79%	78%	92%	56%	56%	54%
2.0 - 2.49	303	292	11	2.46	2.16	3.02	40%	39%	55%	49%	48%	73%	47%	45%	100%	78%	77%	100%	52%	53%	36%
1.5 - 1.99	285	281	4	2.19	1.96	2.73	33%	33%	50%	45%	45%	75%	39%	38%	100%	79%	79%	100%	56%	56%	50%
1.0 - 1.49	282	280	2	1.98	1.71	3.05	29%	29%	50%	38%	38%	100%	35%	35%	100%	68%	68%	100%	41%	40%	100%
NA	137	134	3	1.72	2.40	3.10	51%	50%	67%	58%	58%	67%	58%	57%	100%	63%	63%	33%	36%	37%	
All	1,339	1,290	49	2.16	2.13	2.91	41%	40%	57%	51%	50%	71%	46%	45%	84%	75%	75%	88%	51%	51%	47%

* Indicates significant at the 0.05 confidence level; z-score statistics calculated for UHCC in aggregate only.

Source: IRO Base, Census; IRO Regs, EOS.

UH Institutional Research and Analysis Office; October 2012; revised August 2013.

APPENDIX 3B
 SELECTED PERFORMANCE MEASURES BY ACADEMIC PREPARATION SCORE
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 FIRST-TIME FRESHMEN AT THE UNIVERSITY OF HAWAII COMMUNITY COLLEGES
 FALL SEMESTER 2012

Academic Preparation Score	UHCC System			UHCC System			UHCC System			UHCC System			UHCC System			UHCC System			UHCC System		
	Total # Taking Number	# Taking		Average GPA Initial Semester			GPA Initial Semester >="B"			GPA Initial Semester >="C+"			Credit Completion Ratio >80%			Persistence to Next Spring			Persistence to Next Fall		
		<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits
4.00	182	139	43 *	3.05	3.06	3.03	70%	71%	67% *	78%	80%	70% *	74%	73%	77% *	84%	81%	93% *	62%	62%	63% *
3.5 - 3.99	250	200	50 *	2.68	2.66	2.73	56%	55%	60% *	66%	66%	66% *	65%	64%	70% *	84%	83%	90% *	68%	67%	70% *
3.0 - 3.49	308	245	63 *	2.58	2.53	2.77	56%	56%	55% *	65%	63%	71% *	64%	60%	79% *	83%	82%	86% *	64%	60%	79% *
2.5 - 2.99	673	560	113 *	2.52	2.52	2.56	52%	52%	49% *	61%	61%	63% *	60%	59%	66% *	81%	79%	91% *	60%	59%	68% *
2.0 - 2.49	1,236	1,071	165 *	2.33	2.29	2.59 *	43%	42%	48% *	58%	56%	67% *	57%	54%	72% *	78%	76%	90% *	57%	56%	68% *
1.5 - 1.99	1,367	1,242	125 *	2.15	2.13	2.35	39%	38%	40% *	51%	50%	57% *	52%	50%	76% *	74%	72%	87% *	50%	48%	71% *
1.0 - 1.49	1,425	1,352	73 *	2.01	1.99	2.37 *	33%	32%	39% *	44%	43%	58% *	48%	47%	68% *	69%	68%	82% *	45%	44%	67% *
NA	236	221	15	2.71	2.69	2.94	60%	60%	67%	68%	68%	67%	71%	71%	73%	44%	43%	47%	29%	29%	20%
All	5,677	5,030	647	2.30	2.26	2.58	43%	42%	49%	55%	54%	64%	56%	54%	72%	74%	73%	87%	53%	51%	68%

Academic Preparation Score	Hawaii CC			Hawaii CC			Hawaii CC			Hawaii CC			Hawaii CC			Hawaii CC			Hawaii CC		
	Total # Taking Number	# Taking		Average GPA Initial Semester			GPA Initial Semester >="B"			GPA Initial Semester >="C+"			Credit Completion Ratio >80%			Persistence to Next Spring			Persistence to Next Fall		
		<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits
4.00	16	13	3	3.09	3.08	3.13	75%	77%	67%	81%	85%	67%	88%	85%	100%	75%	69%	100%	56%	69%	0%
3.5 - 3.99	20	17	3	2.89	2.81	3.27	61%	60%	67%	72%	73%	67%	74%	69%	100%	75%	71%	100%	50%	47%	67%
3.0 - 3.49	22	19	3	3.08	2.97	3.78	73%	68%	100%	77%	74%	100%	82%	79%	100%	82%	79%	100%	77%	74%	100%
2.5 - 2.99	94	82	12	2.79	2.77	2.93	61%	62%	58%	70%	71%	67%	72%	69%	92%	71%	70%	83%	51%	50%	58%
2.0 - 2.49	184	153	31	2.38	2.35	2.52	43%	43%	42%	61%	61%	61%	65%	63%	74%	79%	78%	87%	57%	55%	65%
1.5 - 1.99	201	183	18	2.19	2.14	2.66	37%	36%	53%	52%	50%	76%	58%	56%	82%	69%	67%	89%	41%	37%	83%
1.0 - 1.49	281	261	20	1.81	1.77	2.22	27%	27%	32%	38%	37%	47%	47%	45%	75%	65%	64%	85%	40%	38%	70%
NA	9	7	2	2.90	2.90	2.90	63%	67%	50%	75%	83%	50%	67%	71%	50%	33%	29%	50%	22%	14%	50%
All	827	735	92	2.23	2.18	2.63	40%	40%	48%	53%	52%	63%	59%	57%	80%	70%	68%	87%	47%	44%	67%

APPENDIX 3B
 SELECTED PERFORMANCE MEASURES BY ACADEMIC PREPARATION SCORE
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 FIRST-TIME FRESHMEN AT THE UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES
 FALL SEMESTER 2012

Academic Preparation Score	Honolulu CC			Honolulu CC			Honolulu CC			Honolulu CC			Honolulu CC			Honolulu CC					
	Total # Taking Number	# Taking		Average GPA Initial Semester			GPA Initial Semester >="B"			GPA Initial Semester >="C+"			Credit Completion Ratio >80%			Persistence to Next Spring			Persistence to Next Fall		
		<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits
4.00	14	11	3	2.97	2.84	3.40	69%	70%	67%	69%	70%	67%	57%	55%	67%	79%	82%	67%	57%	73%	0%
3.5 - 3.99	24	18	6	2.92	2.98	2.73	67%	67%	67%	75%	78%	67%	67%	67%	67%	83%	83%	83%	71%	67%	83%
3.0 - 3.49	24	15	9	2.64	2.98	2.12	52%	57%	44%	70%	79%	56%	67%	67%	67%	88%	87%	89%	71%	67%	78%
2.5 - 2.99	66	54	12	2.42	2.31	2.89	47%	44%	58%	56%	52%	75%	58%	56%	67%	80%	76%	100%	62%	57%	83%
2.0 - 2.49	128	112	16	2.40	2.39	2.46	44%	43%	50%	59%	58%	63%	55%	54%	69%	77%	73%	100%	52%	50%	69%
1.5 - 1.99	169	147	22	1.83	1.76	2.29	30%	29%	32%	41%	40%	50%	49%	44%	82%	72%	69%	86%	49%	45%	73%
1.0 - 1.49	184	179	5	1.95	1.96	1.73	24%	24%	25%	39%	39%	25%	48%	48%	40%	70%	70%	80%	41%	41%	40%
NA	12	12	0	3.03	3.03		70%	70%		80%	80%		58%	58%		17%	17%		8%	8%	
All	621	548	73	2.18	2.14	2.46	37%	36%	46%	50%	48%	58%	53%	50%	70%	73%	71%	90%	50%	47%	70%

Academic Preparation Score	Kapi'olani CC			Kapi'olani CC			Kapi'olani CC			Kapi'olani CC			Kapi'olani CC			Kapi'olani CC					
	Total # Taking Number	# Taking		Average GPA Initial Semester			GPA Initial Semester >="B"			GPA Initial Semester >="C+"			Credit Completion Ratio >80%			Persistence to Next Spring			Persistence to Next Fall		
		<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits
4.00	59	47	12	3.10	3.15	2.91	74%	76%	67%	84%	87%	75%	80%	81%	75%	88%	85%	100%	56%	51%	75%
3.5 - 3.99	63	55	8	2.50	2.42	2.97	44%	42%	63%	57%	57%	63%	63%	61%	75%	89%	87%	100%	71%	73%	63%
3.0 - 3.49	95	80	15	2.57	2.54	2.69	53%	55%	47%	66%	65%	73%	63%	59%	87%	86%	88%	80%	66%	65%	73%
2.5 - 2.99	181	151	30	2.37	2.37	2.40	49%	48%	52%	58%	58%	59%	57%	56%	63%	86%	85%	90%	68%	67%	73%
2.0 - 2.49	320	284	36	2.22	2.19	2.46	39%	40%	33%	54%	53%	64%	57%	54%	78%	80%	79%	83%	59%	59%	64%
1.5 - 1.99	307	279	28	2.06	2.04	2.26	36%	36%	37%	49%	48%	56%	51%	48%	79%	79%	77%	89%	55%	53%	75%
1.0 - 1.49	224	218	6	2.08	2.07	2.61	40%	40%	50%	49%	48%	67%	57%	57%	83%	72%	72%	67%	50%	50%	50%
NA	100	95	5	3.16	3.15	3.20	75%	74%	80%	84%	84%	80%	89%	89%	80%	35%	36%	20%	25%	26%	0%
All	1,349	1,209	140	2.31	2.28	2.54	45%	45%	46%	57%	56%	64%	60%	58%	76%	77%	76%	85%	56%	55%	67%

APPENDIX 3B
 SELECTED PERFORMANCE MEASURES BY ACADEMIC PREPARATION SCORE
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 FIRST-TIME FRESHMEN AT THE UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES
 FALL SEMESTER 2012

Academic Preparation Score	Kaua'i CC			Kaua'i CC			Kaua'i CC			Kaua'i CC			Kaua'i CC			Kaua'i CC					
	Total # Taking Number	# Taking <15 Credits	# Taking >=15 Credits	Average GPA Total	Initial Semester <15 Credits	Initial Semester >=15 Credits	GPA Initial Semester Total	>="B" <15 Credits	>="B" >=15 Credits	GPA Initial Semester Total	>="C+" <15 Credits	>="C+" >=15 Credits	Credit Completion Ratio Total	>80% <15 Credits	>80% >=15 Credits	Persistence to Next Spring Total	<15 Credits	>=15 Credits	Persistence to Next Fall Total	<15 Credits	>=15 Credits
4.00	3	0	3	3.18		3.18	67%		67%	67%		67%	67%		67%	100%		100%	67%		67%
3.5 - 3.99	12	10	2	2.70	2.50	3.70	58%	50%	100%	67%	60%	100%	58%	50%	100%	75%	70%	100%	50%	40%	100%
3.0 - 3.49	8	7	1	2.17	1.94	3.80	38%	29%	100%	50%	43%	100%	50%	43%	100%	88%	86%	100%	75%	71%	100%
2.5 - 2.99	33	29	4	3.12	3.04	3.65	76%	72%	100%	85%	83%	100%	82%	79%	100%	97%	97%	100%	70%	72%	50%
2.0 - 2.49	76	61	15	2.76	2.62	3.29	57%	47%	93%	74%	68%	93%	67%	61%	93%	76%	72%	93%	63%	59%	80%
1.5 - 1.99	103	97	6	2.57	2.52	3.36	55%	55%	60%	64%	62%	100%	62%	60%	100%	73%	72%	83%	48%	45%	83%
1.0 - 1.49	93	87	6	2.23	2.20	2.57	34%	35%	33%	50%	48%	83%	59%	57%	83%	70%	69%	83%	47%	45%	83%
NA	5	5	0	2.79	2.79		50%	50%		75%	75%		50%	50%		80%	80%		20%	20%	
All	333	296	37	2.57	2.49	3.25	52%	48%	78%	64%	61%	92%	64%	60%	92%	76%	74%	92%	54%	51%	78%

Academic Preparation Score	Leeward CC			Leeward CC			Leeward CC			Leeward CC			Leeward CC			Leeward CC					
	Total # Taking Number	# Taking <15 Credits	# Taking >=15 Credits	Average GPA Total	Initial Semester <15 Credits	Initial Semester >=15 Credits	GPA Initial Semester Total	>="B" <15 Credits	>="B" >=15 Credits	GPA Initial Semester Total	>="C+" <15 Credits	>="C+" >=15 Credits	Credit Completion Ratio Total	>80% <15 Credits	>80% >=15 Credits	Persistence to Next Spring Total	<15 Credits	>=15 Credits	Persistence to Next Fall Total	<15 Credits	>=15 Credits
4.00	48	36	12	2.97	2.94	3.08	67%	61%	83%	77%	75%	83%	75%	75%	75%	85%	83%	92%	69%	64%	83%
3.5 - 3.99	74	53	21	2.46	2.54	2.24	49%	51%	43%	57%	58%	52%	61%	60%	62%	84%	85%	81%	73%	74%	71%
3.0 - 3.49	96	76	20	2.48	2.38	2.84	55%	55%	55%	61%	57%	75%	60%	57%	75%	85%	84%	90%	58%	53%	80%
2.5 - 2.99	157	122	35	2.44	2.42	2.52	47%	48%	46%	57%	55%	66%	60%	57%	71%	79%	75%	91%	59%	57%	63%
2.0 - 2.49	274	234	40	2.30	2.24	2.61	42%	40%	53%	55%	53%	70%	56%	52%	78%	77%	76%	88%	59%	58%	68%
1.5 - 1.99	316	284	32	2.26	2.27	2.19	41%	41%	44%	52%	52%	50%	56%	55%	69%	72%	71%	84%	55%	54%	63%
1.0 - 1.49	347	321	26	2.00	1.97	2.34	34%	33%	38%	44%	44%	54%	45%	43%	69%	70%	69%	81%	49%	47%	73%
NA	56	50	6	2.42	2.36	2.88	51%	49%	67%	57%	55%	67%	59%	56%	83%	63%	62%	67%	38%	40%	17%
All	1,368	1,176	192	2.29	2.25	2.51	43%	42%	49%	53%	52%	63%	55%	52%	72%	75%	73%	86%	56%	54%	68%

APPENDIX 3B
SELECTED PERFORMANCE MEASURES BY ACADEMIC PREPARATION SCORE
WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
FIRST-TIME FRESHMEN AT THE UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES
FALL SEMESTER 2012

Academic Preparation Score	Maui College			Maui College			Maui College			Maui College			Maui College			Maui College			Maui College		
	Total # Taking Number	# Taking		Average GPA	Initial Semester		GPA Initial Semester	>="B"		GPA Initial Semester	>="C+"		Credit Completion Ratio	>80%		Persistence to Next Spring	Persistence to Next Spring		Persistence to Next Fall	Persistence to Next Fall	
		<15 Credits	>=15 Credits		Total	<15 Credits		>=15 Credits	Total		<15 Credits	>=15 Credits		Total	<15 Credits		>=15 Credits	Total		<15 Credits	>=15 Credits
4.00	31	25	6	2.95	3.01	2.71	60%	67%	33%	67%	75%	33%	68%	64%	83%	74%	72%	83%	61%	64%	50%
3.5 - 3.99	41	35	6	3.17	3.10	3.57	83%	79%	100%	88%	85%	100%	80%	77%	100%	85%	83%	100%	66%	69%	50%
3.0 - 3.49	28	22	6	2.67	2.47	3.54	56%	50%	80%	67%	59%	100%	67%	59%	100%	71%	68%	83%	68%	59%	100%
2.5 - 2.99	84	74	10	2.59	2.70	1.79	52%	57%	20%	61%	64%	40%	57%	58%	50%	79%	78%	80%	52%	51%	60%
2.0 - 2.49	161	148	13	2.27	2.24	2.60	43%	43%	46%	56%	57%	54%	49%	49%	46%	74%	72%	92%	51%	49%	69%
1.5 - 1.99	171	162	9	2.22	2.23	2.05	39%	40%	33%	55%	55%	44%	45%	43%	78%	74%	73%	89%	45%	44%	67%
1.0 - 1.49	210	203	7	2.07	2.04	3.02	34%	34%	57%	45%	44%	86%	45%	45%	57%	70%	69%	86%	43%	42%	71%
NA	30	30	0	2.49	2.49		57%	57%		64%	64%		66%	66%		50%	50%		30%	30%	
All	756	699	57	2.34	2.32	2.62	45%	44%	48%	56%	56%	61%	52%	50%	68%	73%	72%	88%	49%	47%	67%

Academic Preparation Score	Windward CC			Windward CC			Windward CC			Windward CC			Windward CC			Windward CC			Windward CC		
	Total # Taking Number	# Taking		Average GPA	Initial Semester		GPA Initial Semester	>="B"		GPA Initial Semester	>="C+"		Credit Completion Ratio	>80%		Persistence to Next Spring	Persistence to Next Spring		Persistence to Next Fall	Persistence to Next Fall	
		<15 Credits	>=15 Credits		Total	<15 Credits		>=15 Credits	Total		<15 Credits	>=15 Credits		Total	<15 Credits		>=15 Credits	Total		<15 Credits	>=15 Credits
4.00	11	7	4	3.39	3.48	3.23	82%	86%	75%	82%	86%	75%	64%	57%	75%	91%	86%	100%	82%	86%	75%
3.5 - 3.99	16	12	4	2.53	2.48	2.66	47%	45%	50%	67%	64%	75%	47%	55%	25%	81%	75%	100%	63%	58%	75%
3.0 - 3.49	35	26	9	2.54	2.55	2.49	60%	65%	44%	63%	69%	44%	60%	58%	67%	71%	69%	78%	51%	46%	67%
2.5 - 2.99	58	48	10	2.49	2.46	2.60	50%	52%	40%	61%	61%	60%	47%	51%	30%	81%	77%	100%	62%	58%	80%
2.0 - 2.49	93	79	14	2.35	2.34	2.41	48%	50%	36%	58%	56%	64%	47%	49%	36%	81%	77%	100%	57%	54%	71%
1.5 - 1.99	100	90	10	2.04	2.00	2.42	36%	37%	30%	48%	47%	60%	36%	35%	50%	77%	76%	90%	53%	52%	60%
1.0 - 1.49	86	83	3	2.20	2.21	2.07	39%	38%	67%	49%	49%	67%	39%	40%	33%	63%	61%	100%	41%	41%	33%
NA	24	22	2	2.19	2.16	2.50	43%	42%	50%	43%	42%	50%	46%	45%	50%	38%	36%	50%	38%	36%	50%
All	423	367	56	2.31	2.27	2.52	45%	46%	43%	55%	54%	61%	44%	44%	45%	73%	70%	93%	53%	50%	68%

Column proportion test; * Indicates significant at the 0.05 confidence level; z-score statistics calculated for UHCC in aggregate only.

Source: IRO Base, Census; IRO Regs, EOS.

UH Institutional Research and Analysis Office; March 2013; updated September 2013.

APPENDIX 4
 SELECTED PERFORMANCE MEASURES BY ACADEMIC PREPARATION SCORE
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 UNDER-REPRESENTED MINORITIES AND PELL RECIPIENTS
 FIRST-TIME FRESHMEN AT THE UH COMMUNITY COLLEGES
 FALL SEMESTERS, 2009 TO 2011

Academic Preparation Score	URM Total # Taking			URM Avg GPA Initial Semester			URM GPA Initial Semester >="B"			URM GPA Initial Semester >="C+"			URM Credit Completion Ratio >80%			URM Persistence to Next Spring			URM Persistence to Next Fall		
	Number	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15
		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits
4.00	170	140	30 *	2.80	2.73	3.14	63%	61%	72% *	73%	72%	79% *	65%	64%	73% *	81%	79%	90% *	66%	62%	83% *
3.5 - 3.99	251	212	39 *	2.51	2.44	2.90 *	50%	49%	56% *	60%	59%	69% *	63%	59%	87% *	86%	83%	100% *	66%	66%	69% *
3.0 - 3.49	419	360	59 *	2.46	2.42	2.66	48%	47%	49% *	62%	61%	68% *	63%	59%	83% *	81%	79%	92% *	64%	62%	73% *
2.5 - 2.99	871	792	79 *	2.45	2.39	3.06 *	48%	46%	63% *	60%	57%	81% *	60%	58%	86% *	80%	79%	92% *	59%	58%	71% *
2.0 - 2.49	1,984	1,843	141	2.24	2.22	2.50 *	39%	39%	45%	52%	51%	60%	55%	54%	74%	79%	78%	87%	58%	58%	63%
1.5 - 1.99	2,624	2,465	159	2.10	2.07	2.55 *	36%	35%	43%	47%	46%	63%	50%	48%	77%	75%	74%	87%	52%	51%	63%
1.0 - 1.49	3,493	3,359	134 *	1.88	1.87	2.22 *	29%	29%	35% *	40%	40%	50% *	43%	42%	64% *	71%	70%	85% *	44%	44%	60% *
NA	325	316	9	2.34	2.34	2.26	47%	47%	22%	56%	56%	56%	57%	57%	67%	62%	61%	89%	37%	37%	33%
All	10,137	9,487	650	2.13	2.10	2.59	37%	36%	47%	49%	48%	63%	51%	49%	76%	75%	74%	89%	52%	51%	65%

Academic Preparation Score	Pell Recipients Total # Taking			Pell Recipients Avg GPA Initial Semester			Pell Recipients GPA Initial Semester >="B"			Pell Recipients GPA Initial Semester >="C+"			Pell Recipients Credit Completion Ratio >80%			Pell Recipients Persistence to Next Spring			Pell Recipients Persistence to Next Fall		
	Number	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15
		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits
4.00	126	113	13	3.01	2.97	3.39	73%	72%	85%	79%	78%	85%	78%	76%	92%	92%	92%	92%	71%	70%	85%
3.5 - 3.99	189	158	31 *	2.77	2.76	2.79	59%	61%	52%	68%	68%	68% *	69%	69%	71% *	92%	91%	100% *	72%	73%	65% *
3.0 - 3.49	305	252	53 *	2.73	2.73	2.70	60%	61%	55% *	71%	71%	72% *	70%	67%	79% *	88%	88%	89% *	72%	71%	77% *
2.5 - 2.99	791	700	91 *	2.69	2.66	2.91	57%	56%	66% *	68%	67%	79% *	67%	65%	81% *	86%	85%	97% *	62%	60%	74% *
2.0 - 2.49	1,582	1,455	127	2.46	2.43	2.70 *	48%	48%	52%	62%	61%	68%	60%	59%	80%	85%	84%	91%	59%	59%	66%
1.5 - 1.99	1,825	1,692	133	2.25	2.22	2.60 *	40%	39%	48%	53%	52%	64%	54%	52%	76%	81%	81%	86%	52%	52%	62%
1.0 - 1.49	2,363	2,268	95 *	1.97	1.96	2.26 *	31%	31%	38% *	43%	43%	52% *	45%	44%	69% *	78%	77%	88% *	46%	46%	57% *
NA	216	208	8	2.55	2.54	2.75	52%	52%	50%	63%	63%	75%	62%	61%	75%	78%	77%	100%	43%	43%	50%
All	7,397	6,846	551	2.31	2.28	2.66	43%	42%	52%	55%	54%	67%	55%	54%	77%	82%	81%	91%	54%	53%	66%

Column proportion test; * Indicates significant at the 0.05 confidence level.

Source: IRO Base, Census; IRO Regs, EOS.

UH Institutional Research and Analysis Office; August 2013.

APPENDIX 4A
 SELECTED PERFORMANCE MEASURES BY ACADEMIC PREPARATION SCORE
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 UNDER-REPRESENTED MINORITIES AND PELL RECIPIENTS
 FIRST-TIME FRESHMEN AT THE UH COMMUNITY COLLEGES
 FALL SEMESTER 2012

Academic Preparation Score	URM			URM			URM			URM			URM			URM					
	Total # Taking Number	# Taking		Avg GPA	Initial Semester		GPA Initial Semester	>="B"		GPA Initial Semester	>="C+"		Credit Completion Ratio >80%	Persistence to Next Spring		Persistence to Next Fall					
		<15 Credits	>=15 Credits		Total	<15 Credits		>=15 Credits	Total		<15 Credits	>=15 Credits		Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits		
4.00	60	42	18 *	3.04	3.09	2.95	68%	68%	67% *	76%	78%	72% *	72%	69%	78% *	85%	81%	94% *	70%	71%	67% *
3.5 - 3.99	106	80	26 *	2.59	2.68	2.35	51%	53%	46% *	60%	65%	46%	60%	61%	58% *	86%	84%	92% *	66%	65%	69% *
3.0 - 3.49	136	107	29 *	2.59	2.61	2.51	54%	58%	41%	64%	65%	62% *	63%	60%	72% *	81%	82%	76% *	60%	57%	72% *
2.5 - 2.99	317	269	48 *	2.34	2.33	2.40	44%	44%	42%	55%	54%	60%	54%	53%	60%	78%	75%	94% *	59%	58%	60%
2.0 - 2.49	654	572	82 *	2.22	2.18	2.47	40%	40%	44%	55%	54%	61%	53%	51%	67%	75%	74%	88%	55%	52%	71%
1.5 - 1.99	842	770	72 *	2.15	2.12	2.46 *	39%	38%	43%	50%	50%	59%	53%	51%	75%	74%	73%	90%	50%	47%	72%
1.0 - 1.49	1,018	967	51 *	2.02	1.99	2.53 *	33%	32%	42% *	45%	43%	68% *	47%	45%	75% *	68%	67%	82% *	42%	41%	65% *
NA	65	60	5	2.29	2.23	2.96	50%	49%	60%	55%	55%	60%	53%	51%	80%	54%	52%	80%	34%	33%	40%
All	3,198	2,867	331	2.20	2.16	2.49	40%	39%	45%	52%	50%	61%	52%	50%	69%	73%	72%	88%	50%	48%	68%

Academic Preparation Score	Pell Recipients			Pell Recipients			Pell Recipients			Pell Recipients			Pell Recipients			Pell Recipients					
	Total # Taking Number	# Taking		Avg GPA	Initial Semester		GPA Initial Semester	>="B"		GPA Initial Semester	>="C+"		Credit Completion Ratio >80%	Persistence to Next Spring		Persistence to Next Fall					
		<15 Credits	>=15 Credits		Total	<15 Credits		>=15 Credits	Total		<15 Credits	>=15 Credits		Total	<15 Credits	>=15 Credits	Total	<15 Credits	>=15 Credits		
4.00	55	40	15 *	3.10	3.18	2.90	71%	73%	67% *	78%	80%	73% *	76%	80%	67%	89%	90%	87% *	80%	70%	80% *
3.5 - 3.99	82	61	21 *	2.71	2.76	2.58	54%	54%	52% *	70%	73%	62% *	60%	62%	57%	80%	77%	90% *	67%	61%	67% *
3.0 - 3.49	85	73	12	2.59	2.58	2.67	54%	53%	58%	67%	67%	67%	60%	59%	67%	88%	88%	92%	92%	58%	92%
2.5 - 2.99	210	184	26	2.57	2.57	2.61	55%	55%	54%	64%	63%	65%	59%	58%	69%	83%	82%	96%	77%	59%	77%
2.0 - 2.49	493	429	64 *	2.39	2.33	2.74 *	44%	42%	53%	60%	58%	77% *	57%	55%	75%	81%	79%	91%	66%	52%	66%
1.5 - 1.99	606	552	54	2.20	2.20	2.24	40%	40%	35% *	52%	52%	52% *	51%	48%	78%	77%	76%	89%	72%	48%	72%
1.0 - 1.49	663	623	40 *	1.94	1.91	2.38 *	29%	28%	39%	42%	40%	58% *	45%	43%	68% *	69%	69%	80% *	60%	39%	60% *
NA	43	42	1	2.08	2.11	1.00	43%	44%		48%	49%		42%	40%	100%	60%	60%	100%		31%	
All	2,237	2,004	233	2.26	2.22	2.54	41%	40%	48%	54%	52%	64%	52%	50%	71%	77%	75%	89%	70%	48%	70%

Column proportion test; * Indicates significant at the 0.05 confidence level.

Source: IRO Base, Census; IRO Regs, EOS.

UH Institutional Research and Analysis Office; September 2013.

APPENDIX 5
 CREDITS ATTEMPTED SYSTEMWIDE
 BY GATEWAY COURSE LEVEL TAKEN
 FALL 2009-11 AND FALL 2012

Comparison Group	Fall 2009-11		Fall 2012	
	Number	Percent	Number	Percent
Total	17,960	100.0%	5,677	100.0%
>=15 SSH	1,331	7.4%	647	11.4%
<15 SSH	16,629	92.6%	5,030	88.6%
12-14 SSH	9,848	54.8%	2,937	51.7%
Average SSH	10.6		10.8	
Group 1	7,328	100.0%	2,615	100.0%
>=15 SSH	752	10.3%	430	16.4%
<15 SSH	6,576	89.7%	2,185	83.6%
12-14 SSH	4,380	59.8%	1,470	56.2%
Average SSH	11.2		11.6	
Group 2	6,088	100.0%	1,818	100.0%
>=15 SSH	266	4.4%	145	8.0%
<15 SSH	5,822	95.6%	1,673	92.0%
12-14 SSH	3,766	61.9%	1,009	55.5%
Average SSH	10.9		11.0	
No Group	4,544	100.0%	1,244	100.0%
>=15 SSH	313	6.9%	72	5.8%
<15 SSH	4,231	93.1%	1,172	94.2%
12-14 SSH	1,702	37.5%	458	36.8%
Average SSH	9.1		8.8	

Group assignment is based upon the level of the Gateway Math or Writing course taken in the first (Fall) semester of attendance.

Group 1 - Any Gateway course college level or one level below college level.

Group 2 - All Gateway courses two or more levels below college level.

Sources: IRO Regs, Census; MST_Course_Supplemental.

UH Institutional Research and Analysis Office; August 2013.

APPENDIX 5A
 COMPARISON OF FIRST-TIME FRESHMEN AT THE UH COMMUNITY COLLEGES
 ON ACADEMIC PERFORMANCE MEASURES
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 GATEWAY GROUPS 1 AND 2
 FALL SEMESTERS 2009 TO 2011 AND FALL 2012

Comparison Group	UHCC Total			Gateway Group 1			Gateway Group 2		
	Total	Credits Taken		Total	Credits Taken		Total	Credits Taken	
		<15	>=15		<15	>=15		<15	>=15
Fall 2009 to Fall 2011 Group: (N)	17,960	1,331	16,629	7,328	752	6,576	6,088	266	5,822
1st Semester GPA (Mean) ¹	2.24	2.21	2.64 *	2.34	2.30	2.65 *	2.10	2.08	2.37 *
1st Sem Grade >="B" Avg (% of Total) ^{1,2}	40.9%	40.0%	50.7% *	43.2%	42.3%	51.0% *	35.3%	35.1%	39.0%
1st Sem Grade >="C+" Avg (% of Total) ^{1,3}	52.3%	51.2%	65.2% *	55.2%	54.0%	65.3% *	47.2%	46.8%	56.1% *
Credit Completion Ratio >=80% (% of Total)	54.2%	52.4%	76.0% *	57.9%	55.7%	76.7% *	45.8%	44.8%	66.2% *
Course Withdrawals >=20% (% of Total) ⁴	12.5%	12.5%	11.5%	13.1%	13.2%	11.6%	14.4%	14.3%	15.8%
Persistence to Next Spring (% of Total) ⁵	76.6%	75.7%	88.6% *	82.0%	81.0%	90.8% *	76.8%	76.3%	88.3% *
Persistence to Next Fall (% of Total)	54.2%	53.3%	66.0% *	61.1%	60.2%	68.8% *	52.0%	51.7%	59.0% *
Fall 2012 Group: (N)	5,677	647	5,030	2,615	430	2,185	1,818	145	1,673
1st Semester GPA (Mean) ¹	2.30	2.26	2.58 *	2.41	2.38	2.61 *	2.13	2.12	2.26
1st Sem Grade >="B" Avg (% of Total) ^{1,2}	43.3%	42.5%	49.1% *	46.5%	46.0%	48.9%	37.4%	37.3%	38.9%
1st Sem Grade >="C+" Avg (% of Total) ^{1,3}	54.9%	53.6%	63.9% *	59.1%	57.9%	64.9% *	49.6%	49.3%	52.8%
Credit Completion Ratio >=80% (% of Total)	55.8%	53.7%	72.0% *	58.8%	56.4%	71.2% *	47.7%	46.1%	66.9% *
Course Withdrawals >=20% (% of Total) ⁴	12.1%	12.1%	12.7%	13.0%	12.9%	13.7%	13.7%	13.7%	13.8%
Persistence to Next Spring (% of Total) ⁵	74.3%	72.6%	87.5% *	80.7%	79.2%	88.4% *	75.1%	73.9%	89.0% *
Persistence to Next Fall (% of Total) ⁶	52.7%	50.7%	68.3% *	60.7%	59.0%	68.8% *	49.7%	48.2%	66.9% *

Note: * denotes statistical significance at the .05 confidence level.

¹ Excludes courses for which grade points were not awarded: Grades CE, CR, I, L, N, NC, NP, RD & W.

² "B" average defined as Grade Point Average >=3.0.

³ "C+" average defined as Grade Point Average >=2.5.

⁴ Calculated on total credits taken per student record.

⁵ Persistence at Home Campus (campus where enrolled as a first-time freshman); excludes possible enrollment at other UH campuses.

⁶ Fall to Fall persistence information not yet available for Fall 2012 first-time freshmen.

Sources: IRO Regs, Census; MST_Course_Supplemental.
 UH Institutional Research and Analysis Office; September 2013.

APPENDIX 5B
COMPARISON OF FIRST-TIME FRESHMEN AT THE UH COMMUNITY COLLEGES
TAKING MATH OR WRITING COURSES TWO OR MORE LEVELS BELOW COLLEGE LEVEL
PERFORMANCE MEASURES WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
FALL SEMESTERS 2009 TO 2011 AND FALL 2012

Comparison Group	UHCC			Hawai'i CC			Honolulu CC			Kapi'olani CC		
	Total	Credits Taken		Total	Credits Taken		Total	Credits Taken		Total	Credits Taken	
		<15	>=15		<15	>=15		<15	>=15		<15	>=15
Fall 2009 to Fall 2011 Group:												
1st Semester GPA (Mean) ¹	2.10	2.08	2.37 *	2.21	2.19	2.59 *	1.90	1.89	2.10	2.10	2.09	2.39
1st Sem Grade >="B" Avg (% of Total) ^{1,2}	35.3%	35.1%	39.0%	39.0%	38.6%	46.7%	28.5%	28.5%	28.6%	34.1%	33.8%	41.7%
1st Sem Grade >="C+" Avg (% of Total) ^{1,3}	47.2%	46.8%	56.1% *	51.7%	51.2%	62.2%	39.9%	39.5%	46.9%	48.6%	47.9%	62.5%
Credit Completion Ratio >=80% (% of Total)	45.8%	44.8%	66.2% *	55.2%	54.7%	66.7%	43.3%	42.1%	66.0% *	45.3%	44.4%	66.7% *
Course Withdrawals >=20% (% of Total) ⁴	14.4%	14.3%	15.8%	9.0%	9.2%	4.4%	15.0%	14.9%	16.0%	16.2%	16.4%	12.5%
Persistence to Next Spring (% of Total) ⁵	76.8%	76.3%	88.3% *	75.3%	75.0%	82.2%	70.9%	70.1%	86.0% *	83.8%	83.3%	95.8%
Persistence to Next Fall (% of Total)	52.0%	51.7%	59.0% *	46.9%	46.6%	55.6%	46.4%	46.0%	54.0%	61.3%	61.6%	54.2%
Fall 2012 Group:												
1st Semester GPA (Mean) ¹	2.13	2.12	2.26	2.06	2.04	2.33	1.96	1.95	2.03	2.17	2.14	2.42
1st Sem Grade >="B" Avg (% of Total) ^{1,2}	37.4%	37.3%	38.9%	33.8%	33.5%	37.0%	28.6%	28.7%	27.6%	40.1%	41.0%	31.6%
1st Sem Grade >="C+" Avg (% of Total) ^{1,3}	49.6%	49.3%	52.8%	46.5%	46.7%	44.4%	42.0%	41.7%	44.8%	55.3%	53.4%	73.7%
Credit Completion Ratio >=80% (% of Total)	47.7%	46.1%	66.9% *	50.9%	49.7%	66.7%	47.7%	45.9%	63.3%	43.3%	39.6%	78.9% *
Course Withdrawals >=20% (% of Total) ⁴	13.7%	13.7%	13.8%	8.5%	8.6%	7.4%	17.4%	18.7%	6.7%	15.4%	15.9%	10.5%
Persistence to Next Spring (% of Total) ⁵	75.1%	73.9%	89.0% *	68.9%	67.2%	92.6% *	72.1%	70.1%	90.0% *	83.6%	83.0%	89.5%
Persistence to Next Fall (% of Total) ⁶	49.7%	48.2%	66.9% *	42.9%	41.1%	66.7% *	45.3%	43.7%	60.0%	58.2%	56.6%	73.7%

¹ Excludes courses for which grade points were not awarded: Grades CE, CR, I, L, N, NC, NP, RD & W.

² "B" average defined as Grade Point Average >=3.0.

³ "C+" average defined as Grade Point Average >=2.5.

⁴ Calculated on total credits taken per student record.

⁵ Persistence at Home Campus (campus where enrolled as a first-time freshman); excludes possible enrollment at other UH campuses.

⁶ Fall to Fall persistence information not yet available for Fall 2012 first-time freshmen.

Sources: IRO Base, Census; IRO Regs, EOS.

UH Institutional Research and Analysis Office; September 2013.

APPENDIX 5B
COMPARISON OF FIRST-TIME FRESHMEN AT THE UH COMMUNITY COLLEGES
TAKING MATH OR WRITING COURSES TWO OR MORE LEVELS BELOW COLLEGE LEVEL
PERFORMANCE MEASURES WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
FALL SEMESTERS 2009 TO 2011 AND FALL 2012

Comparison Group	Kaua'i CC			Leeward CC			Maui College			Windward CC		
	Total	Credits Taken		Total	Credits Taken		Total	Credits Taken		Total	Credits Taken	
		<15	>=15		<15	>=15		<15	>=15		<15	>=15
Fall 2009 to Fall 2011 Group:												
1st Semester GPA (Mean) ¹	2.10	2.07	2.73	2.14	2.14	2.26	2.09	2.08	2.41	2.06	2.05	2.96
1st Sem Grade >="B" Avg (% of Total) ^{1,2}	38.6%	37.7%	56.3%	34.0%	33.8%	37.7%	38.2%	38.3%	34.8%	36.8%	36.5%	57.1%
1st Sem Grade >="C+" Avg (% of Total) ^{1,3}	48.1%	47.4%	62.5%	45.9%	45.5%	53.2%	48.8%	48.4%	56.5%	49.1%	48.8%	71.4%
Credit Completion Ratio >=80% (% of Total)	50.3%	49.1%	75.0% *	48.2%	47.3%	64.1% *	37.1%	36.0%	60.9% *	39.6%	38.7%	100.0% *
Course Withdrawals >=20% (% of Total) ⁴	14.9%	15.0%	12.5%	14.9%	14.5%	20.5%	15.0%	14.6%	23.9%	19.6%	19.9%	0.0%
Persistence to Next Spring (% of Total) ⁵	74.4%	73.4%	93.8%	77.8%	77.2%	87.2% *	79.9%	79.4%	91.3% *	76.5%	76.2%	100.0%
Persistence to Next Fall (% of Total)	51.5%	51.6%	50.0%	56.7%	56.2%	65.4%	50.9%	50.4%	63.0%	52.7%	52.6%	57.1%
Fall 2012 Group:												
1st Semester GPA (Mean) ¹	2.37	2.40	1.47	2.34	2.34	2.40	2.05	2.04	2.38	2.08	2.08	2.05
1st Sem Grade >="B" Avg (% of Total) ^{1,2}	47.0%	47.5%	33.3%	46.1%	45.4%	51.1%	33.5%	33.3%	37.5%	39.7%	39.8%	38.5%
1st Sem Grade >="C+" Avg (% of Total) ^{1,3}	54.2%	55.0%	33.3%	55.5%	55.5%	55.6%	48.0%	48.0%	50.0%	49.6%	49.2%	53.8%
Credit Completion Ratio >=80% (% of Total)	54.1%	54.9%	33.3%	53.6%	51.2%	73.3% *	43.2%	42.3%	75.0%	33.1%	32.5%	38.5%
Course Withdrawals >=20% (% of Total) ⁴	21.2%	20.7%	33.3%	10.7%	9.5%	20.0% *	16.0%	16.1%	12.5%	17.6%	17.1%	23.1%
Persistence to Next Spring (% of Total) ⁵	78.8%	80.5%	33.3% *	79.6%	78.7%	86.7%	73.5%	72.8%	100.0%	74.3%	72.4%	92.3%
Persistence to Next Fall (% of Total) ⁶	51.8%	52.4%	33.3%	59.5%	58.0%	71.1%	42.7%	75.0%	43.6%	48.5%	47.2%	61.5%

¹ Excludes courses for which grade points were not awarded: Grades CE, CR, I, L, N, NC, NP, RD & W.

² "B" average defined as Grade Point Average >=3.0.

³ "C+" average defined as Grade Point Average >=2.5.

⁴ Calculated on total credits taken per student record.

⁵ Persistence at Home Campus (campus where enrolled as a first-time freshman); excludes possible enrollment at other UH campuses.

⁶ Fall to Fall persistence information not yet available for Fall 2012 first-time freshmen.

Sources: IRO Base, Census; IRO Regs, EOS.

UH Institutional Research and Analysis Office; September 2013.

APPENDIX 5C
 SELECTED PERFORMANCE MEASURES BY ACADEMIC PREPARATION SCORE
 WITH BREAKOUT BY 15 CREDITS ATTEMPTED SYSTEMWIDE
 FIRST-TIME FRESHMEN AT THE UNIVERSITY OF HAWAI'I COMMUNITY COLLEGES
 TAKING MATH AND WRITING COURSES TWO OR MORE LEVELS BELOW COLLEGE LEVEL
 FALL SEMESTERS 2009 TO 2011 AND FALL 2012

Fall 09-11 Academic Preparation Score	UHCC System Total # Taking # Taking			UHCC System Average GPA Initial Semester			UHCC System GPA Initial Semester >="B"			UHCC System GPA Initial Semester >="C+"			UHCC System Credit Completion Ratio >80%			UHCC System Persistence to Next Spring			UHCC System Persistence to Next Fall		
	Number	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15
		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits
4.00	9	8	1	2.10	1.96	3.25	44%	38%	100%	67%	63%	100%	22%	13%	100% *	78%	75%	100%	56%	50%	100%
3.5 - 3.99	3	3		2.81	2.81		67%	67%		67%	67%		33%	33%		100%	100%				
3.0 - 3.49	34	30	4 *	2.77	2.71	3.27	65%	63%	75%	74%	70%	100% *	68%	63%	100% *	85%	87%	75%	68%	67%	75%
2.5 - 2.99	329	302	27 *	2.59	2.56	2.94	53%	52%	59% *	65%	63%	85% *	59%	57%	81% *	83%	82%	93% *	53%	53%	56% *
2.0 - 2.49	1,123	1,051	72 *	2.22	2.20	2.51	41%	40%	44% *	52%	52%	59% *	51%	49%	71% *	81%	80%	93% *	59%	59%	61% *
1.5 - 1.99	1,799	1,717	82	2.12	2.11	2.34	37%	37%	37%	49%	48%	55%	47%	46%	66%	77%	77%	87%	53%	53%	59%
1.0 - 1.49	2,723	2,644	79 *	1.95	1.95	2.02	29%	30%	27% *	41%	41%	41% *	41%	41%	54% *	74%	74%	85% *	48%	48%	58% *
NA	68	67	1	2.01	1.99	3.20	34%	33%	100%	43%	42%	100%	38%	37%	100%	76%	76%	100%	46%	46%	
All	6,088	5,822	266	2.10	2.08	2.37	35%	35%	39%	47%	47%	56%	46%	45%	66%	77%	76%	88%	52%	52%	59%

Fall 2012 Academic Preparation Score	UHCC System Total # Taking # Taking			UHCC System Average GPA Initial Semester			UHCC System GPA Initial Semester >="B"			UHCC System GPA Initial Semester >="C+"			UHCC System Credit Completion Ratio >80%			UHCC System Persistence to Next Spring			UHCC System Persistence to Next Fall		
	Number	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15	Total	<15	>=15
		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits		Credits	Credits
4.00	3	2	1	3.30	3.75	2.40	67%	100%		67%	100%		100%	100%	100%	100%	100%	100%	67%	50%	100%
3.0 - 3.49	7	5	2 *	2.68	2.35	3.50	57%	40%	100% *	57%	40%	100% *	57%	40%	100% *	86%	80%	100% *	86%	80%	100%
2.5 - 2.99	82	68	14 *	2.65	2.69	2.49	51%	53%	43%	64%	65%	57%	59%	56%	71% *	84%	82%	93% *	60%	60%	57%
2.0 - 2.49	352	298	54 *	2.11	2.10	2.20	38%	38%	35% *	51%	50%	54% *	47%	44%	59% *	76%	73%	91% *	53%	51%	65% *
1.5 - 1.99	560	519	41	2.15	2.15	2.18	38%	38%	39%	51%	51%	51%	49%	47%	68%	77%	76%	88%	52%	50%	73%
1.0 - 1.49	800	767	33 *	2.06	2.05	2.31	34%	34%	41% *	46%	46%	50% *	46%	45%	73% *	73%	72%	85% *	46%	45%	64% *
NA	14	14		2.33	2.33		58%	58%		58%	58%		50%	50%		50%	50%		29%	29%	
All	1,818	1,673	145	2.13	2.12	2.26	37%	37%	39%	50%	49%	53%	48%	46%	67%	75%	74%	89%	50%	48%	67%

Column proportion test; * Indicates significant at the 0.05 confidence level.

Source: IRO Base, Census; IRO Regs, EOS.

UH Institutional Research and Analysis Office; September 2013.