ENROLLMENT PROJECTIONS UNIVERSITY OF HAWAI'I FALL 2009 TO FALL 2014

Institutional Research Office University of Hawai'i

November 2009

File Reference: Management and Planning Support, Projections

Report available at: http://www.hawaii.edu/iro

ENROLLMENT PROJECTIONS UNIVERSITY OF HAWAI'I CREDIT STUDENTS FALL 2009 TO FALL 2014

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ENROLLMENT PROJECTIONS THE UNIVERSITY OF HAWAI'I FALL 2009 TO FALL 2014

INTRODUCTION

This report provides a summary of the enrollment projections for the campuses of the University of Hawai'i system: the University of Hawai'i at Mānoa, the University of Hawai'i at Hilo, the University of Hawai'i-West O'ahu, and the University of Hawai'i Community Colleges: Hawai'i, Honolulu, Kapi'olani, Kaua'i, Leeward, Maui, and Windward. Details of the enrollment projections by campus may be found in the separate reports by UH unit (UH Mānoa, UH Hilo, UH-West O'ahu and the UH Community Colleges).

The projections are statistical extrapolations of current trends in enrollment by campus. They do not set enrollment targets and, in general, do not take into consideration planned or potential changes in University or campus policies or procedures. They should be considered as an extension into the future of current enrollment trends.

The enrollment projections are based upon unduplicated headcounts of students enrolled in credit courses. Included are classified students in programs leading to a degree as well as unclassified students. Special students (concurrent registrants and early admits) have been included for all years, both historical and projected. Historical data are included in the tables and charts to facilitate comparison and analysis. They were extracted from the student enrollment, academic crossover and course registration data files.

PROJECTION METHODOLOGY

The projections for classified undergraduates are sub-divided by registration status: first-time, transfer, returning and continuing. Graduate and unclassified student enrollments are forecast separately. The projection methodology makes use of continuation rates as well as various other ratios, trends and constants. The specific methods used and assumptions made in forecasting enrollments vary for each campus. Details are found in the separate enrollment projection reports by UH unit.

Note that the high and low projection series have been discontinued. Instead, the projection reports by unit have charts (Figure 3 in this report) which illustrate visually the upper and lower forecast boundaries. These boundaries are based upon the observed average percentage error in the forecast, as measured over the five most recent years. Note that the forecast error increases with time. For the UH system as a whole, the 1-year forecast error has averaged 2.2%; the 6-year forecast error has averaged about 7%. The projected numbers given here may be considered a mid-level forecast.

Table 1 presents historical and projected enrollments for each campus and for the UH system in aggregate from Fall 2003 to Fall 2014. Historical and projected enrollments by registration status at the UH system level are presented in Table 2. Annual percentage changes in enrollment by campus are shown in Table 3. Table 4 provides enrollment

indexes, useful for comparing across campuses, calculated using Fall 2008 as the base year (Fall 2008 = 100). (An enrollment index is illustrated for the UH system in Figure 2 and for each UH unit in Figures 5 to 8.) Tables 5 and 6 show projected student semester hours (SSH) offered and full-time equivalent (FTE) course enrollments, respectively. Projected enrollments by attendance status (full-time / part-time) are given in Table 7.

ANALYSIS AND DISCUSSION

- Headcount enrollment for the University of Hawai'i measured 53,526 in Fall 2008, a 6.1% increase from the previous fall semester (Tables 1 & 3 and Figure 1). Enrollment increased at all ten campuses in the UH system (an event which had not occurred since Fall 1982). UH-West O'ahu had the largest increase in percentage terms at 21.3%, followed by Leeward CC at 15.0%, Hawai'i CC at 10.8%, Maui CC at 10.3%, Kapi'olani CC at 9.4%, Windward CC at 7.4%, UH Hilo at 5.6%, Kaua'i CC at 5.0%, Honolulu CC at 4.7% and UH Mānoa at 0.6%.
- The forecast for the UH system projects a 7.8% increase for Fall 2009, to 57,714 students, with subsequent annual growth averaging 1.4% through Fall 2014 (Table 1).
- Preliminary data for Fall 2009 indicates unprecedented growth in enrollment at the UH Community Colleges. Anticipated growth rates range from 8.7% at Hawai'i CC to 26.3% at Maui CC, with enrollment growth for the UHCC system as a whole expected to be around 13%. The factors contributing to these large enrollment increases are varied, but include the recessionary economy, increases in returning adult learners, lower costs of attendance and more aggressive promotion. Whether these increases can be sustained may depend upon further developments in the economy as well as how efficiently the campuses can absorb the enrollment growth.
- The high rates of enrollment growth at the UH Community Colleges indicated by the
 preliminary registration data for Fall 2009 necessitated modification to the forecast
 methodology to include a growth factor, applied across-the-board to all registration
 status groups at the UHCC campuses. This extraordinary measure allows
 enrollments to increase by a large percentage in Fall 2009 and then to level off or
 grow at lower rates in subsequent semesters.
- Since the introduction of lower division courses in Fall 2007, enrollment growth at UH-West O'ahu has accelerated. Enrollment grew 21.3% in Fall 2008 and is expected conservatively to increase 14.5% in Fall 2009. The addition of new facilities, currently planned for Fall 2011, will help to sustain annual enrollment increases through Fall 2014 at around 10%.
- The addition new cohorts at the College of Pharmacy, combined with more active recruiting at Hawai'i high schools, is expected to boost enrollment at UH Hilo over 2.6% annually through Fall 2014. Enrollment at UH Mānoa is expected to increase more modestly, at an average annual rate of about 0.6%.

- According to information from the Hawai'i Department of Education, enrollment of Hawai'i public high school seniors is expected to decline in Academic Year 2009-10, but then increase through Academic Year 2011-12. The outlook for private high school graduates, as provided by WICHE, is for graduates to reach 3,136 in Academic Year 2009-10, with very slight growth through AY 2013-14. The going rate (college participation rate) of Hawai'i high school graduates into the UH system has been increasing in recent years, from a low of 31.7% in Fall 2004 to 37.8% in Fall 2008, the highest system going rate since Fall 1995. Intensified recruitment, combined with the effects of the recessionary economy and large numbers of high school graduates, may produce record high numbers of first-time freshmen over the next several fall semesters.
- Classified graduate enrollment increased 5.9% for the UH system in Fall 2008, with increases at both UH Mānoa and UH Hilo. Further growth is anticipated, at UH Hilo primarily due to additional cohorts in the program in Pharmacy and at UH Mānoa due to increased enrollments in both master and doctorate programs. Modest enrollment growth, at an annual rate of about 1.4%, has been forecast.

SUMMARY AND CONCLUSION

Enrollment for the UH system grew slowly but steadily from the founding of the UH Mānoa campus in 1907 through 1960, when total UH system enrollment measured 7,771 (Figure 4). Through the 1960s and into the early 1970s, enrollment boomed, increasing more than 470% from 1960 to 1975. Enrollment then leveled off and, despite a surge in the early 1980s, held steady at around 44,000 students from Fall 1975 to Fall 1989. From 1989 to 1994, enrollment increased by 18%, reaching a historical peak of 51,667 in Fall 1994. Enrollment then declined for several years, before stabilizing in Fall 1998 at around 45,000.

From Fall 2000 to Fall 2004, enrollment increased 13.4%, to reach 50,569, the highest system total since Fall 1994. After declining slightly in Fall 2005 and Fall 2006, enrollment has increased 7% over the last two years and set a new historical high in Fall 2008 of 53,526. As previously mentioned, enrollment in Fall 2008 increased at every UH campus, a feat achieved only once previously in the history of the 10 campus system (Fall 1982). Given the unprecedented growth now underway, enrollment will reach a new all-time high in Fall 2009, perhaps exceeding 58,000 students.

The addition of lower division enrollment at UH-West Oʻahu and the potential impact on enrollment at other Oʻahu campuses was a concern a year ago. However, the high rate of enrollment growth anticipated in the current economic environment indicates that opportunity for expanding access to higher education in the State exists for all campuses in the UH system. Recent increase in the going rates of Hawaiʻi high school graduates to the UH campuses is a positive development which shows that local demand has not been exhausted. Of greater concern at present is the extent to which rapid growth for the coming fall semester might be followed by contraction in subsequent semesters as the economy rebounds. Analysis of historical enrollment patterns suggests that contraction is at least as likely as continued growth. Given resource constraints, either scenario will present challenges for campus administrators.

Figure 1
Historical & Projected Headcount Enrollment

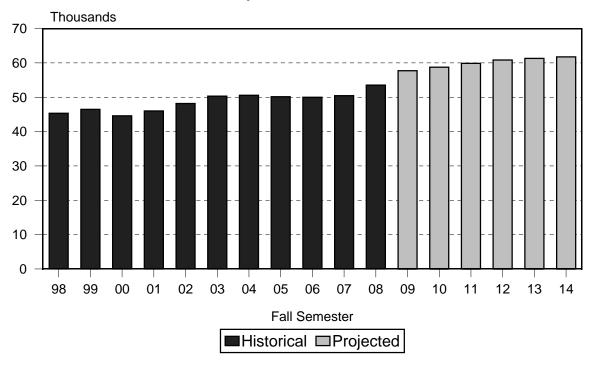


Figure 2
Enrollment Index - UH System

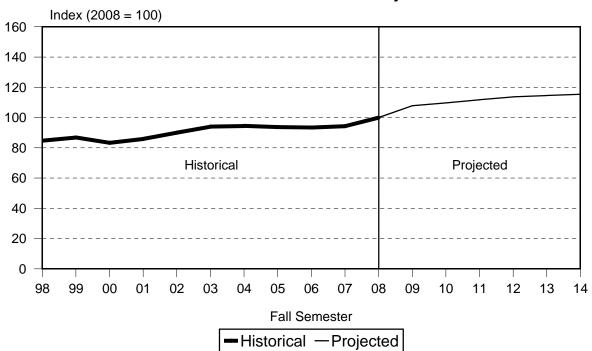


Figure 3
Historical & Projected Enrollment with Error Boundaries

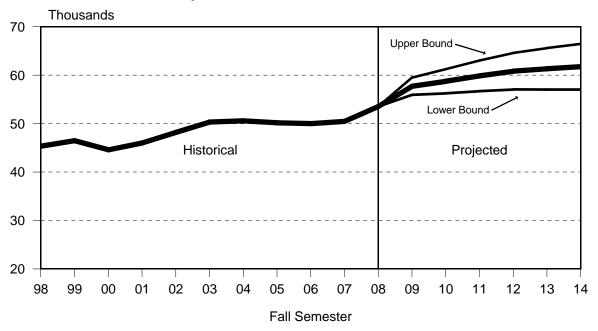


Figure 4
Historical & Projected Enrollment - UH System

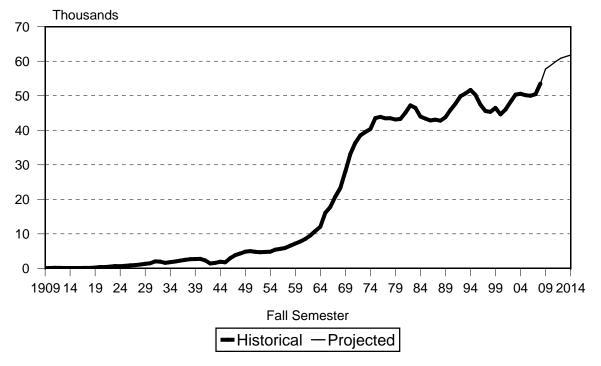


Figure 5 Enrollment Index - UH Mānoa

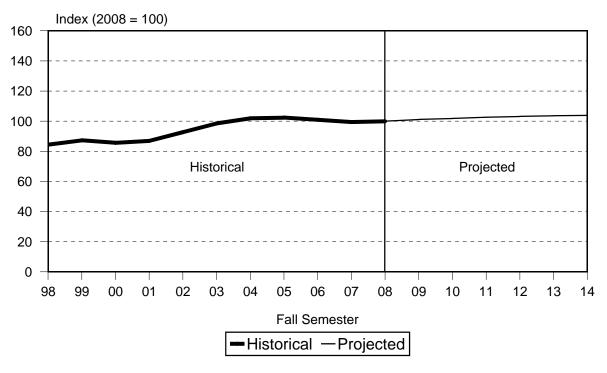


Figure 6
Enrollment index - UH Hilo

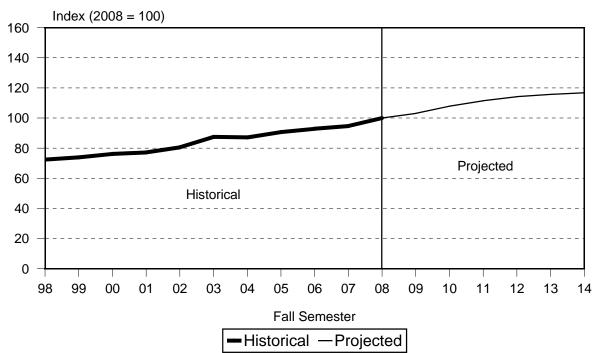


Figure 7
Enrollment Index - UH-West Oʻahu

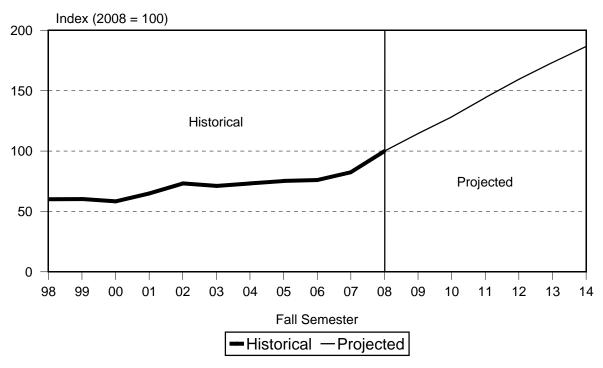


Figure 8
Enrollment Index - UH Community Colleges

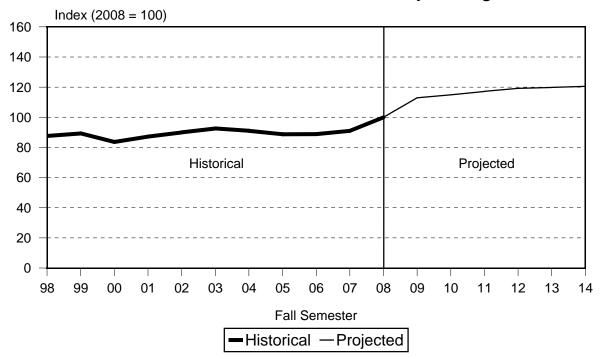


TABLE 1
HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY CAMPUS
UNIVERSITY OF HAWAI'I
FALL 2003 TO FALL 2014

			HIST	ORICAL			PROJECTED					
CAMPUS	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL	50,317	50,569	50,157	49,990	50,454	53,526	57,714	58,744	59,861	60,835	61,322	61,754
UH AT MANOA	19,863	20,549	20,644	20,357	20,051	20,169	20,415	20,539	20,688	20,810	20,895	20,955
UH AT HILO	3,300	3,288	3,422	3,507	3,573	3,773	3,890	4,072	4,206	4,307	4,364	4,405
UH - WEST OʻAHU	810	834	858	866	940	1,140	1,305	1,463	1,644	1,817	1,976	2,127
UH COMMUNITY COLLEGES	26,344	25,898	25,233	25,260	25,890	28,444	32,104	32,670	33,323	33,901	34,087	34,267
Hawai'i Community College	2,346	2,440	2,377	2,358	2,603	2,884	3,134	3,224	3,270	3,327	3,343	3,372
Honolulu Community College	4,238	4,336	4,183	4,143	4,027	4,218	4,681	4,740	4,826	4,914	4,963	4,987
Kapiʻolani Community College	7,491	7,174	7,289	7,272	7,517	8,221	9,111	9,160	9,262	9,384	9,445	9,510
Kaua'i Community College	1,210	1,117	1,059	1,119	1,051	1,104	1,315	1,291	1,330	1,373	1,403	1,419
Leeward Community College	6,201	6,060	5,709	5,746	5,887	6,771	7,475	7,721	7,928	8,088	8,100	8,099
Maui Community College	2,985	2,996	2,903	2,841	2,981	3,287	4,152	4,272	4,401	4,472	4,493	4,514
Windward Community College	1,873	1,775	1,713	1,781	1,824	1,959	2,236	2,262	2,306	2,343	2,340	2,366

Note: Headcounts include specials (early admits and concurrent students) for all years.

OVPAPP; September 2009.

TABLE 2
HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY REGISTRATION STATUS
UNIVERSITY OF HAWAI'I
FALL 2003 TO FALL 2014

EDUCATION LEVEL AND			HIST	ORICAL					PROJ	ECTED		
REGISTRATION STATUS	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL	50,317	50,569	50,157	49,990	50,454	53,526	57,714	58,744	59,861	60,835	61,322	61,754
Classified	43,255	42,991	42,648	42,080	42,431	44,910	48,265	49,241	50,259	51,139	51,592	51,986
Undergraduates	38,000	37,503	37,073	36,548	36,838	38,988	42,184	42,997	43,920	44,742	45,155	45,535
First-Time Students 1/	7,037	6,775	6,791	6,571	6,977	7,997	8,744	8,728	9,058	9,265	9,237	9,369
Transfer	4,698	4,547	5,139	4,712	4,555	4,976	5,238	5,275	5,319	5,371	5,424	5,486
Returning	2,269	2,063	2,367	1,970	2,259	2,311	2,617	2,634	2,650	2,665	2,675	2,685
Continuing	23,996	24,118	22,776	23,295	23,047	23,704	25,585	26,360	26,893	27,441	27,819	27,995
Graduates	5,255	5,488	5,575	5,532	5,593	5,922	6,081	6,244	6,339	6,397	6,437	6,451
Unclassified & No Data	7,062	7,578	7,509	7,910	8,023	8,616	9,449	9,503	9,602	9,696	9,730	9,768
Undergraduates 2/	3,123	3,203	3,082	3,264	3,111	3,082	3,454	3,474	3,528	3,572	3,584	3,608
Graduates	942	916	925	1,019	939	856	892	892	892	892	892	892
Home-Based at Other UH 3/.	2,997	3,459	3,502	3,627	3,973	4,678	5,103	5,137	5,182	5,232	5,254	5,268

Note: Headcounts include specials (early admits and concurrent students) for all years; include continuing education credit enrollments, beginning Fall 19 1/ Includes first-time freshmen at UH Manoa and UH Hilo, Includes all first-time classified students at the UH Community Colleges.

Note: In AY 2002-03, the UH campuses migrated to a new student registration system. The breakout by registration status may have been affected, with lower numbers for classified students and a corresponding increase in unclassified and records with invalid data.

^{2/} Includes records with invalid data on education level.

^{3/} Students whose home-campus, as defined in Banner / ODS, is not the campus at which they are registered for classes.

TABLE 3
HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY CAMPUS
ANNUAL PERCENTAGE CHANGE
UNIVERSITY OF HAWAI'I
FALL 2003 TO FALL 2014

	HISTORICAL								PROJE	CTED		
CAMPUS	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL	4.5	0.5	-0.8	-0.3	0.9	6.1	7.8	1.8	1.9	1.6	0.8	0.7
UH AT MANOA	6.2	3.5	0.5	-1.4	-1.5	0.6	1.2	0.6	0.7	0.6	0.4	0.3
UH AT HILO	8.6	-0.4	4.1	2.5	1.9	5.6	3.1	4.7	3.3	2.4	1.3	0.9
UH - WEST OʻAHU	-2.9	3.0	2.9	0.9	8.5	21.3	14.5	12.1	12.4	10.5	8.8	7.6
UH COMMUNITY COLLEGES	2.9	-1.7	-2.6	0.1	2.5	9.9	12.9	1.8	2.0	1.7	0.5	0.5
Hawaiʻi Community College	7.5	4.0	-2.6	-0.8	10.4	10.8	8.7	2.9	1.4	1.7	0.5	0.9
Honolulu Community College	-5.4	2.3	-3.5	-1.0	-2.8	4.7	11.0	1.3	1.8	1.8	1.0	0.5
Kapi'olani Community College	6.4	-4.2	1.6	-0.2	3.4	9.4	10.8	0.5	1.1	1.3	0.7	0.7
Kaua'i Community College	-1.1	-7.7	-5.2	5.7	-6.1	5.0	19.1	-1.8	3.0	3.2	2.2	1.1
Leeward Community College	4.8	-2.3	-5.8	0.6	2.5	15.0	10.4	3.3	2.7	2.0	0.1	0.0
Maui Community College	-0.1	0.4	-3.1	-2.1	4.9	10.3	26.3	2.9	3.0	1.6	0.5	0.5
Windward Community College	6.4	-5.2	-3.5	4.0	2.4	7.4	14.1	1.2	1.9	1.6	-0.1	1.1

TABLE 4
HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY CAMPUS
ENROLLMENT INDEX
UNIVERSITY OF HAWAI'I
FALL 2003 TO FALL 2014

	HISTORICAL							PROJE	CTED			
CAMPUS	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL	94	94	94	93	94	100	108	110	112	114	115	115
UH AT MANOA	98	102	102	101	99	100	101	102	103	103	104	104
UH AT HILO	87	87	91	93	95	100	103	108	111	114	116	117
UH - WEST OʻAHU	71	73	75	76	82	100	114	128	144	159	173	187
UH COMMUNITY COLLEGES	93	91	89	89	91	100	113	115	117	119	120	120
Hawai'i Community College	81	85	82	82	90	100	109	112	113	115	116	117
Honolulu Community College	100	103	99	98	95	100	111	112	114	117	118	118
Kapi'olani Community College .	91	87	89	88	91	100	111	111	113	114	115	116
Kaua'i Community College	110	101	96	101	95	100	119	117	120	124	127	129
Leeward Community College	92	89	84	85	87	100	110	114	117	119	120	120
Maui Community College	91	91	88	86	91	100	126	130	134	136	137	137
Windward Community College	96	91	87	91	93	100	114	115	118	120	119	121

Note: Fall 2008 = 100.

TABLE 5 STUDENT SEMESTER HOURS OFFERED BY CAMPUS UNIVERSITY OF HAWAI'I FALL 2003 TO FALL 2014

	ACTUAL			PROJ	ECTED		
	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL	529,894	564,719	575,042	585,689	594,901	599,533	603,612
UH AT MANOA	228,420	230,697	231,871	233,449	234,805	235,754	236,499
UH AT HILO	47,432	49,303	51,917	53,675	54,915	55,590	56,052
UH - WEST OʻAHU	9,605	10,955	12,289	13,803	15,269	16,600	17,876
UH COMMUNITY COLLEGES	244,437	273,764	278,965	284,762	289,912	291,589	293,185
Hawai'i Community College	27,101	29,483	30,360	30,807	31,355	31,516	31,782
Honolulu Community College	35,304	39,354	39,942	40,721	41,514	41,959	42,174
Kapi'olani Community College	69,218	77,107	77,720	78,730	79,856	80,413	80,994
Kaua'i Community College	9,479	11,315	11,145	11,474	11,842	12,095	12,242
Leeward Community College	58,438	61,742	63,725	65,436	66,775	66,881	66,871
Maui Community College	28,376	35,854	36,920	38,049	38,696	38,872	39,040
Windward Community College	16,521	18,909	19,153	19,545	19,874	19,853	20,082

TABLE 6
FULL-TIME EQUIVALENT COURSE ENROLLMENT SERVED BY CAMPUS
UNIVERSITY OF HAWAI'I
FALL 2003 TO FALL 2014

	ACTUAL			PROJ	ECTED		
	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL	36,145	38,409	39,105	39,816	40,437	40,748	41,021
UH AT MANOA	15,982	16,138	16,224	16,333	16,430	16,495	16,546
UH AT HILO	3,227	3,286	3,462	3,579	3,661	3,706	3,738
UH - WEST OʻAHU	641	730	820	921	1,018	1,107	1,191
UH COMMUNITY COLLEGES	16,295	18,255	18,599	18,983	19,328	19,440	19,546
Hawaiʻi Community College	1,806	1,966	2,024	2,053	2,092	2,102	2,119
Honolulu Community College	2,351	2,624	2,663	2,715	2,767	2,797	2,812
Kapiʻolani Community College .	4,618	5,141	5,182	5,248	5,324	5,361	5,400
Kaua'i Community College	636	753	743	766	790	806	816
Leeward Community College	3,894	4,117	4,249	4,361	4,452	4,458	4,457
Maui Community College	1,890	2,392	2,462	2,537	2,578	2,592	2,602
Windward Community College	1,100	1,262	1,276	1,303	1,325	1,324	1,340

TABLE 7
HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY ATTENDANCE STATUS
UNIVERSITY OF HAWAI'I
FALL 2003 TO FALL 2014

	ACTUAL			PROJ	ECTED		
	2008	2009	2010	2011	2012	2013	2014
LILL CVCTEM TOTAL 4/	F2 F26	E7 74 4	E0 744	E0 064	60.005	64 222	64.754
UH SYSTEM TOTAL 1/	53,526 28,761	57,714 30,558	58,744 31,075	59,861 31,607	60,835 32,061	61,322 32,292	61,754 32,484
Part-Time	24,765	27,156	27,669	28,254	28,774	29,030	29,270
UH AT MANOA	20,169	20,415	20,539	20,688	20,810	20,895	20,955
Full-Time	14,326	14,540	14,628	14,733	14,821	14,881	14,923
Part-Time	5,843	5,875	5,911	5,955	5,989	6,014	6,032
UH AT HILO	3,773	3,890	4,072	4,206	4,307	4,364	4,405
Full-Time	2,984	3,079	3,223	3,329	3,409	3,454	3,486
Part-Time	789	811	849	877	898	910	919
UH - WEST OʻAHU	1,140	1,305	1,463	1,644	1,817	1,976	2,127
Full-Time	322	450	504	566	625	679	731
Part-Time	818	855	959	1,078	1,192	1,297	1,396
UH COMMUNITY COLLEGES	28,444	32,104	32,670	33,323	33,901	34,087	34,267
Full-Time	11,129	12,489	12,720	12,979	13,206	13,278	13,344
Part-Time	17,315	19,615	19,950	20,344	20,695	20,809	20,923
Hawai'i Community College	2,884	3,134	3,224	3,270	3,327	3,343	3,372
Full-Time	1,331	1,433	1,474	1,496	1,522	1,529	1,542
Part-Time	1,553	1,701	1,750	1,774	1,805	1,814	1,830
Honolulu Community College	4,218	4,681	4,740	4,826	4,914	4,963	4,987
Full-Time	1,481	1,644	1,664	1,694	1,725	1,743	1,751
Part-Time	2,737	3,037	3,076	3,132	3,189	3,220	3,236
Kapiʻolani Community College	8,221	9,111	9,160	9,262	9,384	9,445	9,510
Full-Time	2,921	3,237	3,255	3,291	3,334	3,356	3,379
Part-Time	5,300	5,874	5,905	5,971	6,050	6,089	6,131
Kaua'i Community College	1,104	1,315	1,291	1,330	1,373	1,403	1,419
Full-Time	443	510	500	516	532	544	550
Part-Time	661	805	791	814	841	859	869
Leeward Community College	6,771	7,475	7,721	7,928	8,088	8,100	8,099
Full-Time	2,882	3,182	3,286	3,374	3,443	3,448	3,447
Part-Time	3,889	4,293	4,435	4,554	4,645	4,652	4,652
Maui Community College	3,287	4,152	4,272	4,401	4,472	4,493	4,514
Full-Time	1,328	1,635	1,683	1,733	1,761	1,770	1,778
Part-Time	1,959	2,517	2,589	2,668	2,711	2,723	2,736
Windward Community College	1,959	2,236	2,262	2,306	2,343	2,340	2,366
Full-Time	743	848	858	875	889	888	897
Part-Time	1,216	1,388	1,404	1,431	1,454	1,452	1,469

^{1/} Headcounts include specials (early admits and concurrent students) for all years. Note: records with invalid data on attendance status are included with part-time.