

ENROLLMENT PROJECTIONS
UNIVERSITY OF HAWAI'I
FALL 2008 TO FALL 2014

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ENROLLMENT PROJECTIONS THE UNIVERSITY OF HAWAII FALL 2008 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, published annually by the University of Hawai'i Institutional Research Office as a part of the Management and Planning Support (MAPS) series.

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 (UH Mānoa, UH Hilo, UH-West O'ahu and the UH Community Colleges).

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 illustrates 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. These percentage error rates were applied to the forecasted numbers to produce the boundaries. Note that the forecast error increases with time; that is, the further into the future the forecast, the greater the percentage error. For the UH system as a whole, the 1-year forecast error has averaged 2.1%; the 7-year forecast error has averaged about 7.5%. 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 2001 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 2007 as the base year (i.e. Fall 2007 = 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 50,454 in Fall 2007, a 0.9% increase from the previous fall semester (Tables 1 & 3 and Figure 1). Enrollment increased at seven of the ten campuses in the UH system. Hawai'i CC had the largest increase in percentage terms at 10.4%, followed by UH-West O'ahu at 8.5%, Maui CC at 4.9%, Kapi'olani CC at 3.4%, Leeward CC at 2.5%, Windward CC at 2.4% and UH Hilo at 1.9%. Enrollment declined 1.5% at UH Mānoa, 2.8% at Honolulu CC and 6.1% at Kaua'i CC.
- ***The forecast for the UH system projects a 0.6% increase for Fall 2008, to 50,750 students, with annual growth averaging 0.6% through Fall 2014. At this rate of growth, UH system enrollment will surpass 52,000 by Fall 2012.***
- Many of the University campuses are at historically high levels of enrollment. Further growth in enrollment may be constrained by a number of factors, including: available housing, limited parking facilities, limited classroom space, faculty resources, and so forth. In addition, further increase in non-resident enrollment at the four-year campuses is constrained by statutory limits. These and other factors combine to create an environment conducive to stable or low growth in enrollment.
- The addition of the College of Pharmacy, combined with more active recruiting at Hawai'i high schools, is expected to boost enrollment at UH Hilo over 2.3% annually through Fall 2010. A slowing economy may also help to boost enrollments, especially at the UH Community Colleges, as citizens return to college to seek additional general education and technical training. Finally, the addition of new facilities at UH-West O'ahu is also expected to contribute to moderate enrollment increases at that campus beginning in Fall 2010.
- Results of analysis by senior staff of the University of Hawai'i Institutional Research Office suggest that the addition of lower division programs and new facilities at UH-West O'ahu will attract students to the UH system who otherwise would not have enrolled in college. If this outcome proves true, then the expansion at UH-West O'ahu will have little impact on enrollment at the other campuses in the system. The projections shown here assume this result, with enrollment at the other UH campuses showing no negative effect from the planned UH-West O'ahu expansion.

- According to information from the Hawai'i Department of Education, enrollment of Hawai'i public high school seniors is expected to grow moderately through Academic Year 2008-09, then decline. 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. If the going rates of these students into the UH campuses remain unchanged, only slight increases in first-time students from Hawai'i high schools may be anticipated. In addition, further growth may be limited in the short term by resource constraints, especially housing. The overall outlook for first-time students is for 1.9% growth in Fall 2008 and then stable for the remainder of the projection period.
- Classified graduate enrollment increased 1.1% in Fall 2007, primarily due to the addition of the professional doctorate program in Pharmacy at UH Hilo. Additional cohorts are expected to increase the total enrollment in the Pharmacy program to 350 students by Fall 2010. Enrollment in other graduate level programs is expected to remain stable. Classified graduate enrollment at UH Mānoa is also expected to remain near the Fall 2007 total through the forecast period.

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. Despite the slight declines in Fall 2005 and Fall 2006, enrollment for the UH system remains at historically high levels. For the second consecutive year, UH Hilo and UH-West O'ahu reached new all-time high levels of enrollment in Fall 2007. Continued moderate expansion at these two campuses is expected, with enrollment at the remaining campuses showing slower growth or in some cases slight decline.

Two recent developments add interest to the forecast: the addition of lower division enrollment at UH-West O'ahu and the implementation of a new tuition schedule, with higher rates at all campuses, through academic year 2011-2012. The effects that these developments may have on overall UH system enrollment and on the distribution of enrollment among the individual campuses are difficult to estimate. However, the assumption is that the overall impact on enrollment at the UH system level will be minimal, with UH-West O'ahu bringing new students into the UH system, and the new tuition schedule prompting some redistribution of enrollment from the four-year campuses to the UH Community Colleges.

University of Hawai'i
Credit Students

Figure 1
Historical & Projected Headcount Enrollment

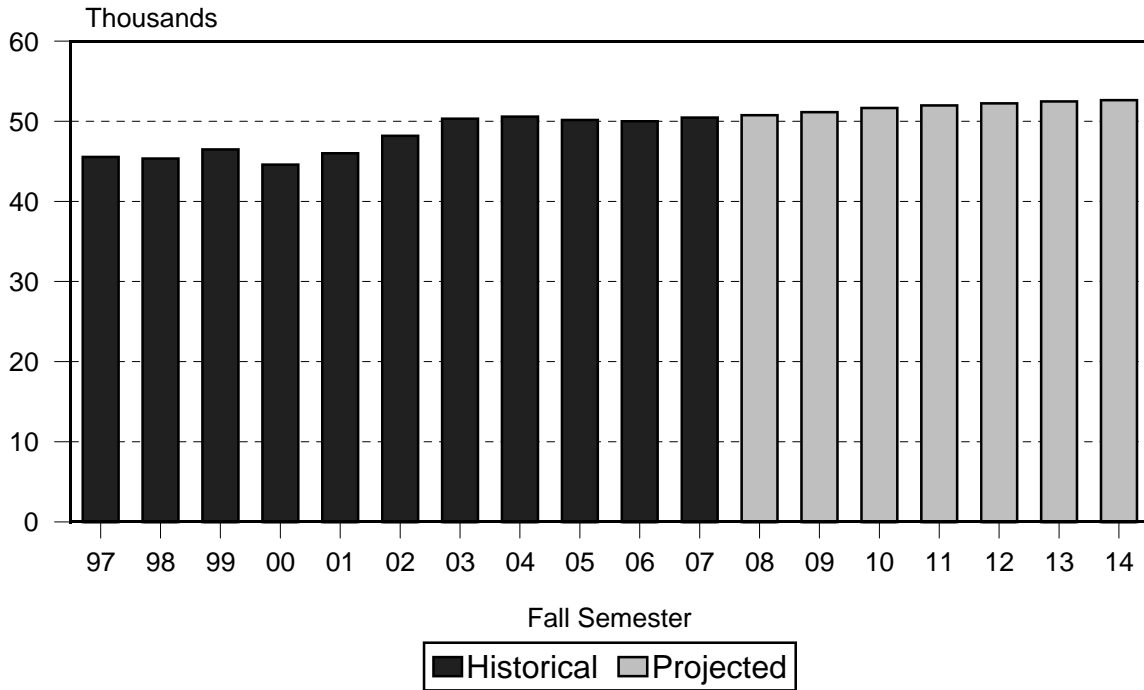
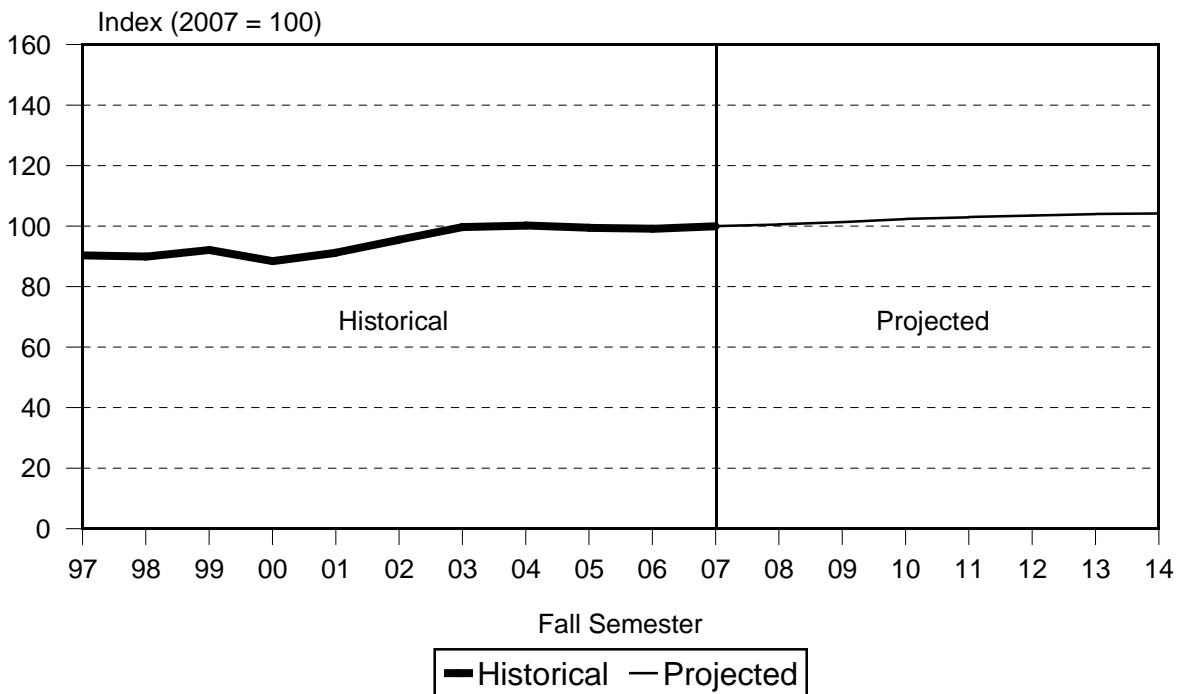


Figure 2
Enrollment Index - UH System



University of Hawai'i Credit Students

Figure 3 Historical & Projected Enrollment with Error Boundaries

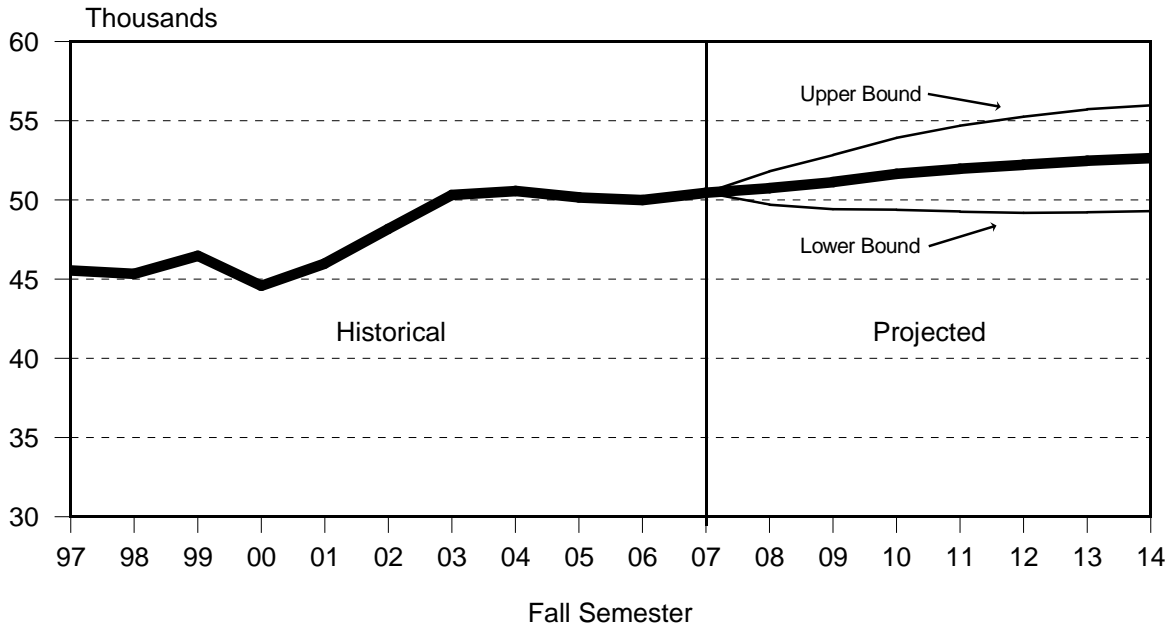
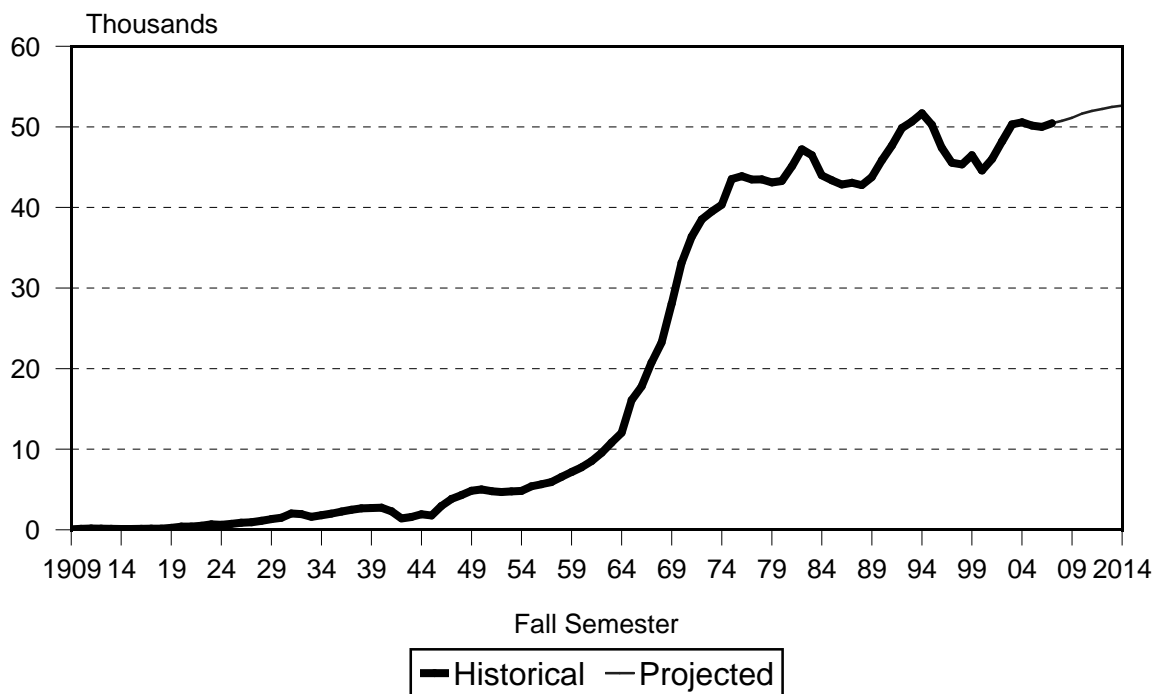


Figure 4 Historical & Projected Enrollment - UH System



University of Hawai'i
Credit Students

Figure 5
Enrollment Index - UH Mānoa

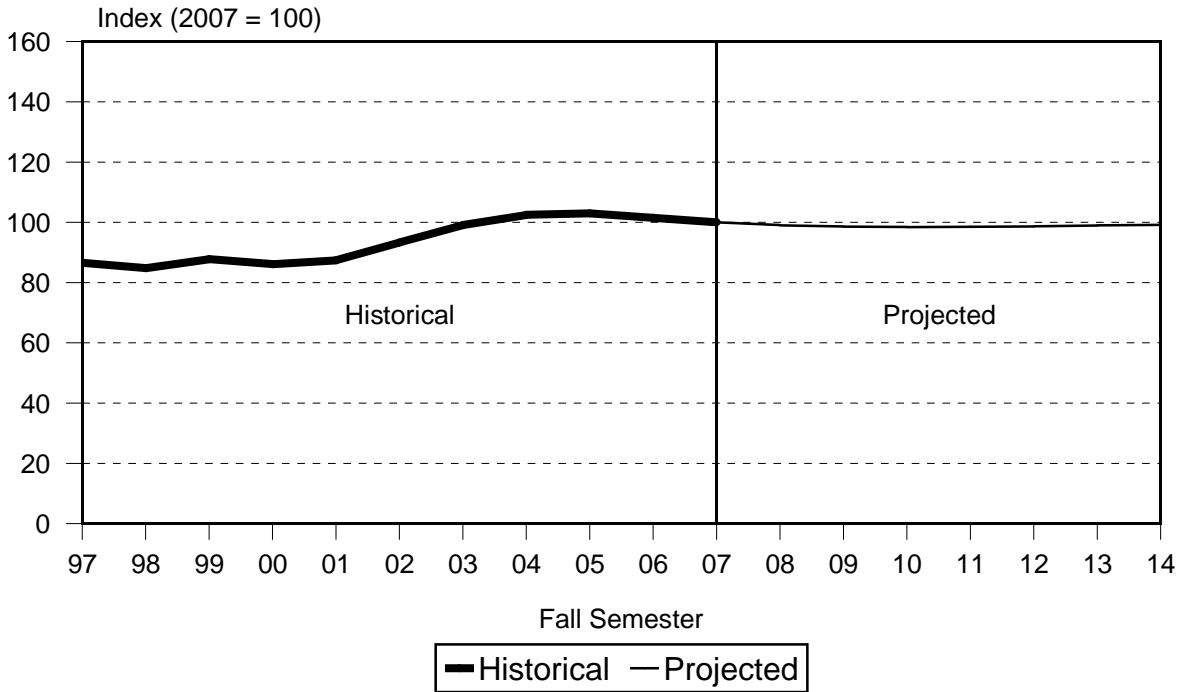
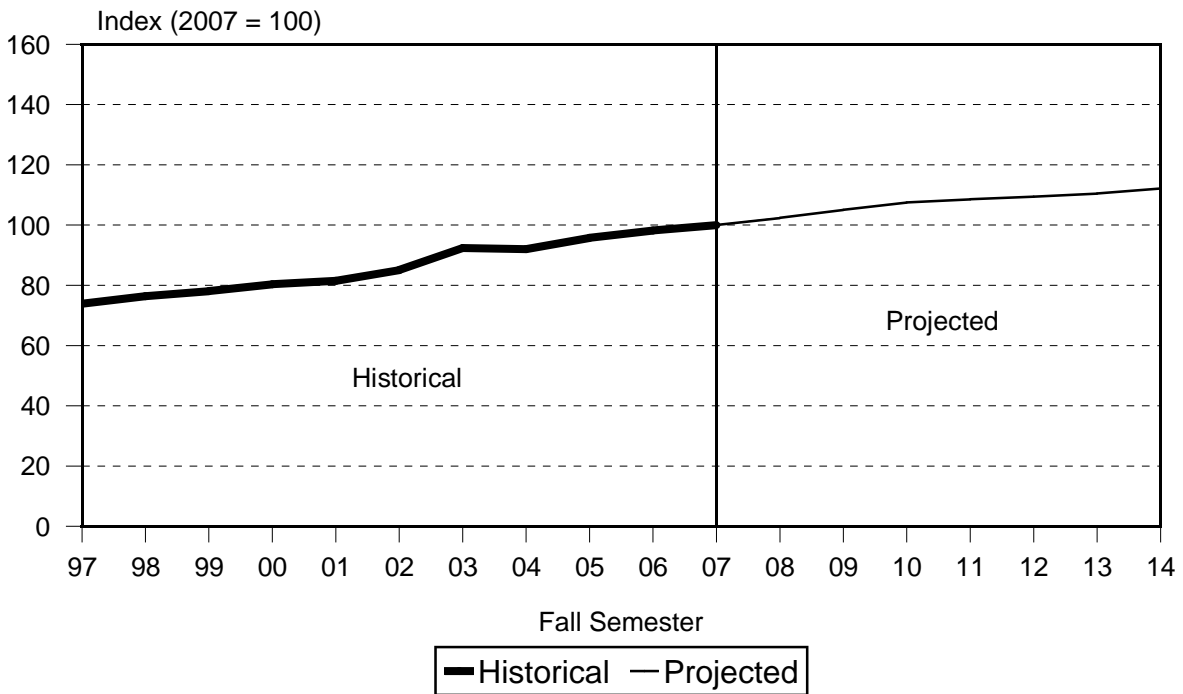


Figure 6
Enrollment index - UH Hilo



University of Hawai'i
Credit Students

Figure 7
Enrollment Index - UH-West O'ahu

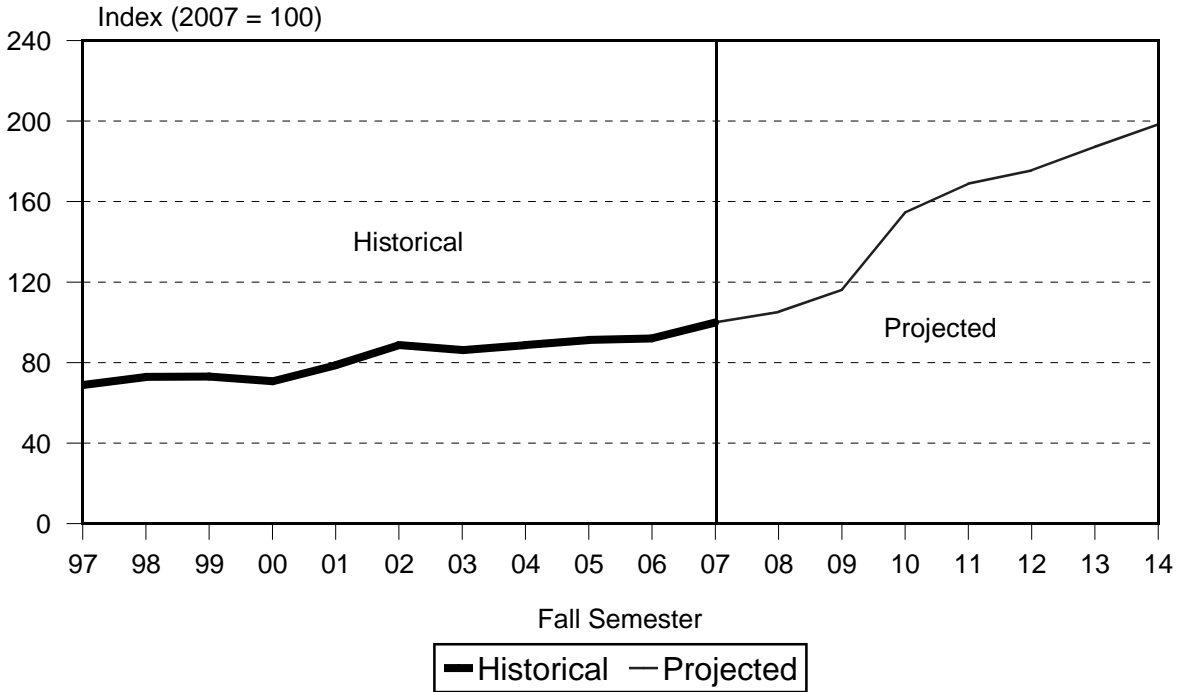


Figure 8
Enrollment Index - UH Community Colleges

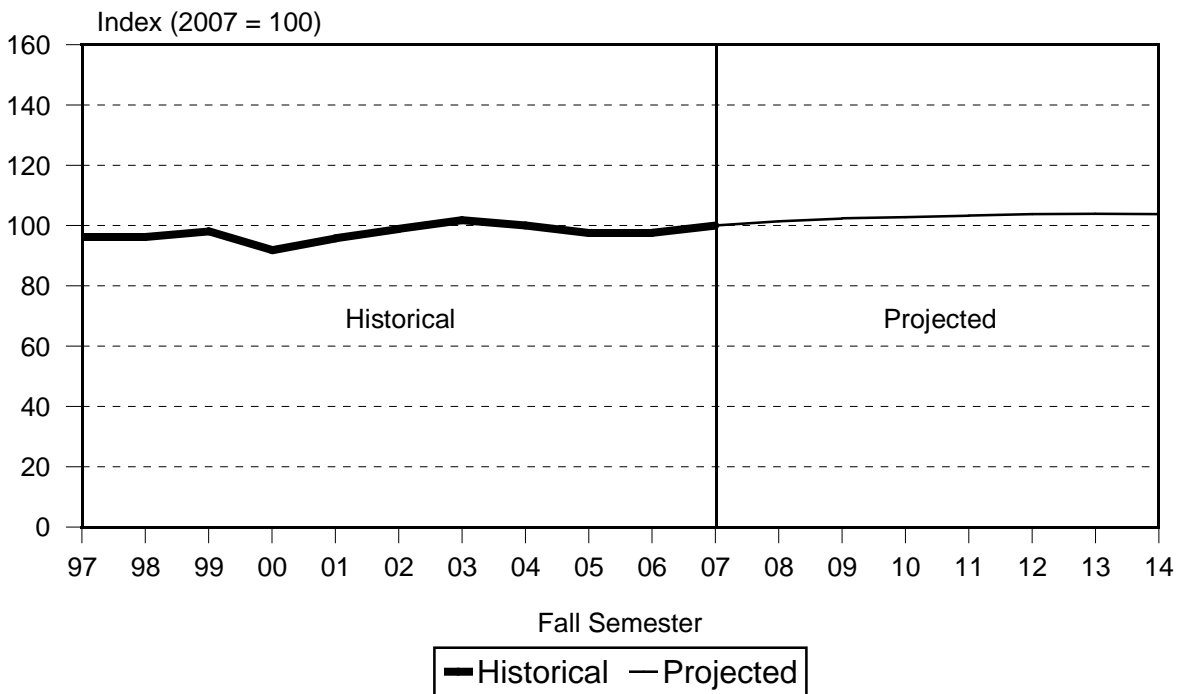


TABLE 1
HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY CAMPUS
UNIVERSITY OF HAWAI'I
FALL 2001 TO FALL 2014

CAMPUS	HISTORICAL							PROJECTED						
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL 1/	45,994	48,173	50,317	50,569	50,157	49,990	50,454	50,750	51,133	51,649	51,973	52,222	52,475	52,639
UH AT MANOA 2/	17,532	18,706	19,863	20,549	20,644	20,357	20,051	19,855	19,762	19,731	19,751	19,798	19,854	19,895
UH AT HILO 2/	2,913	3,040	3,300	3,288	3,422	3,507	3,573	3,660	3,755	3,841	3,880	3,908	3,950	4,008
UH - WEST O'AHU	740	834	810	834	858	866	940	990	1,092	1,453	1,588	1,651	1,760	1,865
UH COMMUNITY COLLEGES	24,809	25,593	26,344	25,898	25,233	25,260	25,890	26,245	26,524	26,624	26,754	26,865	26,911	26,871
Hawai'i Community College	2,075	2,182	2,346	2,440	2,377	2,358	2,603	2,681	2,732	2,760	2,776	2,782	2,792	2,800
Honolulu Community College 2/ .	4,653	4,478	4,238	4,336	4,183	4,143	4,027	4,002	3,990	3,975	3,966	3,964	3,953	3,926
Kapi'olani Community College	7,081	7,041	7,491	7,174	7,289	7,272	7,517	7,650	7,762	7,821	7,879	7,935	7,961	7,970
Kaua'i Community College	1,185	1,224	1,210	1,117	1,059	1,119	1,051	1,073	1,104	1,090	1,100	1,100	1,096	1,102
Leeward Community College	5,562	5,918	6,201	6,060	5,709	5,746	5,887	5,971	5,997	6,017	6,017	6,018	6,017	5,974
Maui Community College	2,699	2,989	2,985	2,996	2,903	2,841	2,981	3,012	3,077	3,102	3,152	3,179	3,217	3,234
Windward Community College	1,554	1,761	1,873	1,775	1,713	1,781	1,824	1,856	1,862	1,859	1,864	1,887	1,875	1,865

1/ Headcounts include specials (early admits and concurrent students) for all years.

2/ Headcounts include continuing education credit enrollments, beginning Fall 1999.

TABLE 2
HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY REGISTRATION STATUS
UNIVERSITY OF HAWAI'I
FALL 2001 TO FALL 2014

EDUCATION LEVEL AND REGISTRATION STATUS	HISTORICAL							PROJECTED						
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL 1/	45,994	48,173	50,317	50,569	50,157	49,990	50,454	50,750	51,133	51,649	51,973	52,222	52,475	52,639
Classified	41,441	43,280	43,255	42,991	42,648	42,080	42,431	42,624	42,919	43,351	43,617	43,829	44,050	44,207
Undergraduates	36,812	38,369	38,000	37,503	37,073	36,548	36,838	36,963	37,185	37,537	37,802	38,006	38,212	38,348
First-Time Students 2/	6,964	7,121	7,037	6,775	6,791	6,571	6,977	7,111	7,147	7,146	7,177	7,187	7,136	7,052
Transfer	4,938	5,242	4,698	4,547	5,139	4,712	4,555	4,602	4,644	4,773	4,838	4,905	4,979	5,044
Returning	2,348	2,292	2,269	2,063	2,367	1,970	2,259	2,271	2,296	2,354	2,379	2,406	2,428	2,451
Continuing	22,562	23,714	23,996	24,118	22,776	23,295	23,047	22,979	23,098	23,264	23,408	23,508	23,669	23,801
Graduates	4,629	4,911	5,255	5,488	5,575	5,532	5,593	5,661	5,734	5,814	5,815	5,823	5,838	5,859
Unclassified & No Data	4,553	4,893	7,062	7,578	7,509	7,910	8,023	8,126	8,214	8,298	8,356	8,393	8,425	8,432
Undergraduates 3/	3,512	3,779	3,123	3,203	3,082	3,264	3,111	3,186	3,230	3,258	3,286	3,300	3,313	3,314
Graduates	1,041	1,114	942	916	925	1,019	939	936	933	932	932	933	935	938
Home-Based at Other UH 4/ .			2,997	3,459	3,502	3,627	3,973	4,004	4,051	4,108	4,138	4,160	4,177	4,180

1/ Headcounts include specials (early admits and concurrent students) for all years; include continuing education credit enrollments, beginning Fall 1999.

2/ Includes first-time freshmen at UH Manoa and UH Hilo, includes all first-time classified students at the UH Community Colleges.

3/ Includes records with invalid data on education level.

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

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.

TABLE 3
HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY CAMPUS
ANNUAL PERCENTAGE CHANGE
UNIVERSITY OF HAWAI'I
FALL 2001 TO FALL 2014

CAMPUS	HISTORICAL							PROJECTED						
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL	3.2	4.7	4.5	0.5	-0.8	-0.3	0.9	0.6	0.8	1.0	0.6	0.5	0.5	0.3
UH AT MANOA	1.6	6.7	6.2	3.5	0.5	-1.4	-1.5	-1.0	-0.5	-0.2	0.1	0.2	0.3	0.2
UH AT HILO	1.4	4.4	8.6	-0.4	4.1	2.5	1.9	2.4	2.6	2.3	1.0	0.7	1.1	1.5
UH - WEST O'AHU	11.3	12.7	-2.9	3.0	2.9	0.9	8.5	5.3	10.3	33.1	9.3	4.0	6.6	6.0
UH COMMUNITY COLLEGES	4.3	3.2	2.9	-1.7	-2.6	0.1	2.5	1.4	1.1	0.4	0.5	0.4	0.2	-0.1
Hawai'i Community College	-0.7	5.2	7.5	4.0	-2.6	-0.8	10.4	3.0	1.9	1.0	0.6	0.2	0.4	0.3
Honolulu Community College ...	3.7	-3.8	-5.4	2.3	-3.5	-1.0	-2.8	-0.6	-0.3	-0.4	-0.2	-0.1	-0.3	-0.7
Kapi'olani Community College .	4.7	-0.6	6.4	-4.2	1.6	-0.2	3.4	1.8	1.5	0.8	0.7	0.7	0.3	0.1
Kaua'i Community College	12.6	3.3	-1.1	-7.7	-5.2	5.7	-6.1	2.1	2.9	-1.3	0.9	0.0	-0.4	0.5
Leeward Community College ...	5.8	6.4	4.8	-2.3	-5.8	0.6	2.5	1.4	0.4	0.3	0.0	0.0	0.0	-0.7
Maui Community College	0.8	10.7	-0.1	0.4	-3.1	-2.1	4.9	1.0	2.2	0.8	1.6	0.9	1.2	0.5
Windward Community College .	7.1	13.3	6.4	-5.2	-3.5	4.0	2.4	1.8	0.3	-0.2	0.3	1.2	-0.6	-0.5

TABLE 4
HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY CAMPUS
ENROLLMENT INDEX
UNIVERSITY OF HAWAI'I
FALL 2001 TO FALL 2014

CAMPUS	HISTORICAL							PROJECTED						
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL	91	95	100	100	99	99	100	101	101	102	103	104	104	104
UH AT MANOA	87	93	99	102	103	102	100	99	99	98	99	99	99	99
UH AT HILO	82	85	92	92	96	98	100	102	105	108	109	109	111	112
UH - WEST O'AHU	79	89	86	89	91	92	100	105	116	155	169	176	187	198
UH COMMUNITY COLLEGES	96	99	102	100	97	98	100	101	102	103	103	104	104	104
Hawai'i Community College	80	84	90	94	91	91	100	103	105	106	107	107	107	108
Honolulu Community College ...	116	111	105	108	104	103	100	99	99	99	98	98	98	97
Kapi'olani Community College .	94	94	100	95	97	97	100	102	103	104	105	106	106	106
Kaua'i Community College	113	116	115	106	101	106	100	102	105	104	105	105	104	105
Leeward Community College ...	94	101	105	103	97	98	100	101	102	102	102	102	102	101
Maui Community College	91	100	100	101	97	95	100	101	103	104	106	107	108	108
Windward Community College .	85	97	103	97	94	98	100	102	102	102	102	103	103	102

Note: Fall 2007 = 100.

TABLE 5
STUDENT SEMESTER HOURS OFFERED BY CAMPUS
UNIVERSITY OF HAWAI'I
FALL 2007 TO FALL 2014

	ACTUAL	PROJECTED						
	2007	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL	504,245	506,852	510,528	515,438	518,398	520,790	523,229	524,855
UH AT MANOA	228,057	225,780	224,709	224,365	224,627	225,185	225,781	226,142
UH AT HILO	44,667	46,012	47,507	48,891	49,384	49,722	50,259	50,994
UH - WEST O'AHU	7,819	8,280	9,171	12,191	13,367	13,923	14,871	15,782
UH COMMUNITY COLLEGES ...	223,702	226,780	229,141	229,991	231,020	231,960	232,318	231,937
Hawai'i Community College	23,974	24,671	25,132	25,397	25,540	25,595	25,686	25,759
Honolulu Community College ..	34,307	34,206	34,147	34,041	33,969	33,960	33,864	33,624
Kapi'olani Community College	64,218	65,125	65,951	66,374	66,814	67,265	67,472	67,538
Kaua'i Community College	8,829	8,996	9,237	9,132	9,203	9,209	9,177	9,225
Leeward Community College ..	51,991	52,801	53,059	53,258	53,264	53,278	53,273	52,892
Maui Community College	24,772	25,124	25,719	25,929	26,336	26,560	26,868	27,019
Windward Community College	15,611	15,857	15,896	15,860	15,894	16,093	15,978	15,880

TABLE 6
 FULL-TIME EQUIVALENT COURSE ENROLLMENT SERVED BY CAMPUS
 UNIVERSITY OF HAWAI'I
 FALL 2007 TO FALL 2014

	ACTUAL	PROJECTED						
	2007	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL	34,371	34,490	34,729	35,058	35,258	35,418	35,576	35,697
UH AT MANOA	15,906	15,753	15,678	15,655	15,674	15,710	15,748	15,781
UH AT HILO	3,017	3,066	3,166	3,258	3,291	3,315	3,349	3,399
UH - WEST O'AHU	521	552	612	813	891	928	991	1,052
UH COMMUNITY COLLEGES ...	14,927	15,119	15,273	15,332	15,402	15,465	15,488	15,465
Hawai'i Community College	1,601	1,646	1,676	1,694	1,703	1,706	1,713	1,718
Honolulu Community College ..	2,288	2,280	2,276	2,269	2,265	2,264	2,257	2,242
Kapi'olani Community College	4,287	4,340	4,397	4,425	4,454	4,485	4,497	4,503
Kaua'i Community College	586	601	616	608	613	614	613	616
Leeward Community College ..	3,468	3,520	3,535	3,550	3,551	3,552	3,552	3,525
Maui Community College	1,655	1,675	1,714	1,728	1,757	1,772	1,791	1,803
Windward Community College	1,042	1,057	1,059	1,058	1,059	1,072	1,065	1,058

TABLE 7
HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY ATTENDANCE STATUS
UNIVERSITY OF HAWAI'I
FALL 2007 TO FALL 2014

	ACTUAL	PROJECTED						
	2007	2008	2009	2010	2011	2012	2013	2014
UH SYSTEM TOTAL 1/	50,454	50,750	51,133	51,649	51,973	52,222	52,475	52,639
Full-Time	27,731	27,883	28,036	28,244	28,383	28,504	28,632	28,726
Part-Time	22,723	22,867	23,097	23,405	23,590	23,718	23,843	23,913
UH AT MANOA	20,051	19,855	19,762	19,731	19,751	19,798	19,854	19,895
Full-Time	14,318	14,205	14,138	14,116	14,129	14,163	14,203	14,233
Part-Time	5,733	5,650	5,624	5,615	5,622	5,635	5,651	5,662
UH AT HILO	3,573	3,660	3,755	3,841	3,880	3,908	3,950	4,008
Full-Time	2,820	2,889	2,963	3,032	3,062	3,084	3,117	3,163
Part-Time	753	771	792	809	818	824	833	845
UH - WEST O'AHU	940	990	1,092	1,453	1,588	1,651	1,760	1,865
Full-Time	329	348	383	503	549	569	606	641
Part-Time	611	642	709	950	1,039	1,082	1,154	1,224
UH COMMUNITY COLLEGES	25,890	26,245	26,524	26,624	26,754	26,865	26,911	26,871
Full-Time	10,264	10,441	10,552	10,593	10,643	10,688	10,706	10,689
Part-Time	15,626	15,804	15,972	16,031	16,111	16,177	16,205	16,182
Hawai'i Community College	2,603	2,681	2,732	2,760	2,776	2,782	2,792	2,800
Full-Time	1,179	1,221	1,244	1,257	1,264	1,267	1,271	1,275
Part-Time	1,424	1,460	1,488	1,503	1,512	1,515	1,521	1,525
Honolulu Community College	4,027	4,002	3,990	3,975	3,966	3,964	3,953	3,926
Full-Time	1,475	1,454	1,449	1,444	1,440	1,440	1,436	1,426
Part-Time	2,552	2,548	2,541	2,531	2,526	2,524	2,517	2,500
Kapi'olani Community College	7,517	7,650	7,762	7,821	7,879	7,935	7,961	7,970
Full-Time	2,788	2,864	2,905	2,928	2,949	2,970	2,980	2,983
Part-Time	4,729	4,786	4,857	4,893	4,930	4,965	4,981	4,987
Kaua'i Community College	1,051	1,073	1,104	1,090	1,100	1,100	1,096	1,102
Full-Time	393	419	431	425	429	429	428	430
Part-Time	658	654	673	665	671	671	668	672
Leeward Community College	5,887	5,971	5,997	6,017	6,017	6,018	6,017	5,974
Full-Time	2,556	2,562	2,574	2,582	2,582	2,583	2,582	2,564
Part-Time	3,331	3,409	3,423	3,435	3,435	3,435	3,435	3,410
Maui Community College	2,981	3,012	3,077	3,102	3,152	3,179	3,217	3,234
Full-Time	1,145	1,171	1,196	1,206	1,226	1,236	1,251	1,257
Part-Time	1,836	1,841	1,881	1,896	1,926	1,943	1,966	1,977
Windward Community College	1,824	1,856	1,862	1,859	1,864	1,887	1,875	1,865
Full-Time	728	750	753	751	753	763	758	754
Part-Time	1,096	1,106	1,109	1,108	1,111	1,124	1,117	1,111

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.