

ENROLLMENT PROJECTIONS
UNIVERSITY OF HAWAI'I - WEST O'AHU
FALL 2013 TO FALL 2018

**ENROLLMENT PROJECTIONS
UNIVERSITY OF HAWAI‘I - WEST O‘AHU
FALL 2013 TO FALL 2018**

TABLE OF CONTENTS

Narrative

Graphs

Figure 1	Historical and Projected Headcount Enrollment
Figure 2	Enrollment Index
Figure 3	Historical Enrollment with Trend Line
Figure 4	Historical and Projected Enrollment with Trend Line
Figure 5	Projected Enrollment with Error Boundaries
Figure 6	First-Time Freshmen Enrollment
Figure 7	Classified Transfer Enrollment
Figure 8	Classified Returning Enrollment
Figure 9	Classified Continuing Enrollment
Figure 10	Unclassified Enrollment
Figure 11	Headcount Enrollment by On-Campus / Off-Campus
Figure 12	Registrations by Distance Education Status

Tables

Table 1	Headcount Enrollment of Credit Students by Registration Status, Fall 2007 to Fall 2018
Table 2	Headcount Enrollment by Program, Fall 2012 to Fall 2018
Table 3	Student Semester Hours Offered by Program, Fall 2012 to Fall 2018

TABLE OF CONTENTS (CONT.)

Table 4 Full-Time Equivalent Course Enrollment Served by Program,
Fall 2012 to Fall 2018

Table 5 Headcount Enrollment by Attendance Status, Fall 2012 to Fall 2018

Appendices

Appendix A Hawai'i Public High School Seniors by School District, Academic
Years 2007-08 to 2018-19

Appendix B Hawai'i High School Graduates, WICHE Historical and Projected –
2012 Series

ENROLLMENT PROJECTIONS UNIVERSITY OF HAWAI'I-WEST O'AHU FALL 2013 TO FALL 2018

INTRODUCTION

This report presents information on historical and projected headcount enrollment for the University of Hawai'i-West O'ahu. The projections are statistical extrapolations of current trends in enrollment. They do not set enrollment targets and, in general, do not take into consideration changes in University policies or procedures. They should be considered as an extension into the future of current enrollment trends. However, the addition of lower division enrollment in Fall 2007 and the opening of new campus facilities in Fall 2012 have created extraordinary circumstances. Consequently, planning information from campus administrators has been taken into consideration and has contributed to the forecast.

Beginning this year, the projection reports also make use of a time series analysis conducted by UH IRAO office staff that incorporates a variety of economic and demographic factors. This model has been used to guide and validate the projection methodology for the system-wide enrollment projections. Additionally, ARIMA (time series) projections were made for UH West O'ahu.

The projections present unduplicated headcounts of students enrolled in credit programs and include both classified and unclassified students. Historical data were extracted from student enrollment, academic crossover, and course registration files. Distance education status data were taken from the course registration files and are defined by mode of delivery. Information on Hawai'i public high school seniors was provided by the Hawai'i Department of Education. Information on Hawai'i public and private high school graduates was obtained from the Western Interstate Commission for Higher Education (WICHE).

METHODOLOGY

The projections are organized by registration status: first-time, transfer, returning and continuing. Each of these areas is treated separately and the results summed to yield the total campus enrollment forecast. (Note that historical data on first-time freshmen, as well as returning students, have been revised from prior reports due to a change in the data definitions and processing routines.)

The forecast method divides **first-time freshmen** into groups based upon geographic location of high school. Hawai'i public high school students are forecast using the high school senior projections provided by the Hawai'i DOE. Average college participation rates are applied to the senior forecast by high school district to generate the projected enrollments. The forecast of Hawai'i private high school students makes use of the high

school graduate forecast from WICHE, recently updated in December 2012. An average participation rate is applied to the annual WICHE forecast to yield the projected counts. All other first-time freshmen are forecasted using small annual numerical increases.

Classified transfer enrollment has been forecast using a linear trend, based upon the transfer enrollment measured from Fall 2004 to Fall 2012. Counts have been apportioned among education levels using the Fall 2012 ratios.

Returning students are previously enrolled students who have been absent for at least one semester (excluding summer session) without having attended another institution in the interim. In Fall 2012 returning enrollment took an unexpected drop, declining from 37 to only 11 students. Whether or not this change reflects some kind of data error, or is due to changes in data processing (as mentioned previously) is unclear. Given the uncertainty in its future direction, returning enrollment has been set to a constant.

Continuing student enrollment has been forecast using continuation rates. In general, a continuation rate is the ratio of continuing enrollment at a given education level to the previous fall semester's total enrollment at the next lower level. In this report, freshmen are projected using the previous year's first-time freshmen, sophomores using the previous year's total freshmen, juniors using the sum of the previous year's sophomores and juniors, and seniors using the previous year's total upper division (juniors plus seniors). Average continuation rates are applied to the actual or projected total enrollment by education level to forecast undergraduate classified continuing enrollment at the next higher level for each succeeding year. The continuation rates for Fall 2012 were used in these projections.

Unclassified enrollment has two components: regular unclassified and those students who are home-based at other University of Hawai'i institutions. Total unclassified enrollment has been forecast using a ratio, derived from historical data, of unclassified to classified enrollment. Breakout between regular unclassified and students home-based at other UH campuses has been made using two-year average distribution ratios.

Table 1 presents six years of historical data and detailed forecasts by registration status and education level. Table 2 presents headcount enrollment by program. Student semester hours (SSH) offered are shown in Table 3 and full-time equivalent (FTE) course enrollments are given in Table 4. Headcount enrollment by attendance status is provided in Table 5. Distribution between full-time and part-time is based upon the Fall 2012 proportions. Appendix A provides the Hawai'i high school senior forecast by school district from the Hawai'i Department of Education, updated in May 2013. Appendix B provides the WICHE forecasts of Hawai'i high school graduates through academic year 2027-28.

ANALYSIS AND DISCUSSION

- Headcount enrollment at the University of Hawai'i-West O'ahu measured 1,997 in Fall 2012 an increase of 20% over Fall 2011 (Table 1 and Figure 1). This total marked the ninth consecutive fall semester of enrollment growth and set a new all-time high in headcount enrollment for the campus (Figures 1 & 3). **The forecast calls for enrollment to increase another 9.7% in Fall 2013, to reach 2,190. Subsequent growth will gradually taper off to 3.3% by Fall 2018, when enrollment should surpass 2,600 students.**
- First-time freshmen enrollment began in Fall 2007. The initial class of 31 students more than doubled in Fall 2008 and surpassed 100 students in Fall 2009. The count increased modestly in Fall 2010 and 2011, but increased by 147% in Fall 2012, the first year of the new Kapolei campus facilities, surpassing 300 students. First-time freshmen have been forecast to increase in Fall 2013 to 332 students and subsequently to continue to grow at a moderate pace (Table 1 and Figure 6).
- Transfer enrollment has been forecast using a trend that puts the growth on a rather steep trajectory (Figure 7), while returning students are expected remain modest (Figure 8). Taken together, freshmen, transfer and returning enrollment comprise entering student enrollment, which has been forecast to increase 50% by Fall 2018.
- Continuing student enrollment is forecast to increase from 1,144 in Fall 2012 to 1,360 by Fall 2018. The addition of lower division should boost continuing enrollment for a number of years, while efforts to improve completion of students who have reached senior class standing should help to restrain the growth of upper division enrollment.
- Enrollment of students via distance education technology has been an important component of the enrollment mix at UH-West O'ahu (Figures 11 & 12). In Fall 2012, enrollment of students taking their courses completely off-campus accounted for 24% of the headcount, while 61% had at least some courses taken off-campus. Total course registration via distance education delivery has increased steadily over the last decade, stabilizing more recently at around 40% of registrations (Figure 12).
- Since the founding of the campus in 1976, enrollment at UH-West O'ahu has had a strong upward growth trend, with the addition of lower division enrollment in Fall 2007 putting growth on a much steeper slope (Figure 3). Future growth, however, is likely to slow (Figure 4). Given the population increases expected in the leeward and central areas of O'ahu, the ongoing distance education initiatives and the appeal of a new facility, enrollment demand at UH-West O'ahu will remain strong.

University of Hawai'i - West O'ahu
Enrollment Projections of Credit Students

Figure 1
Historical & Projected Headcount Enrollment

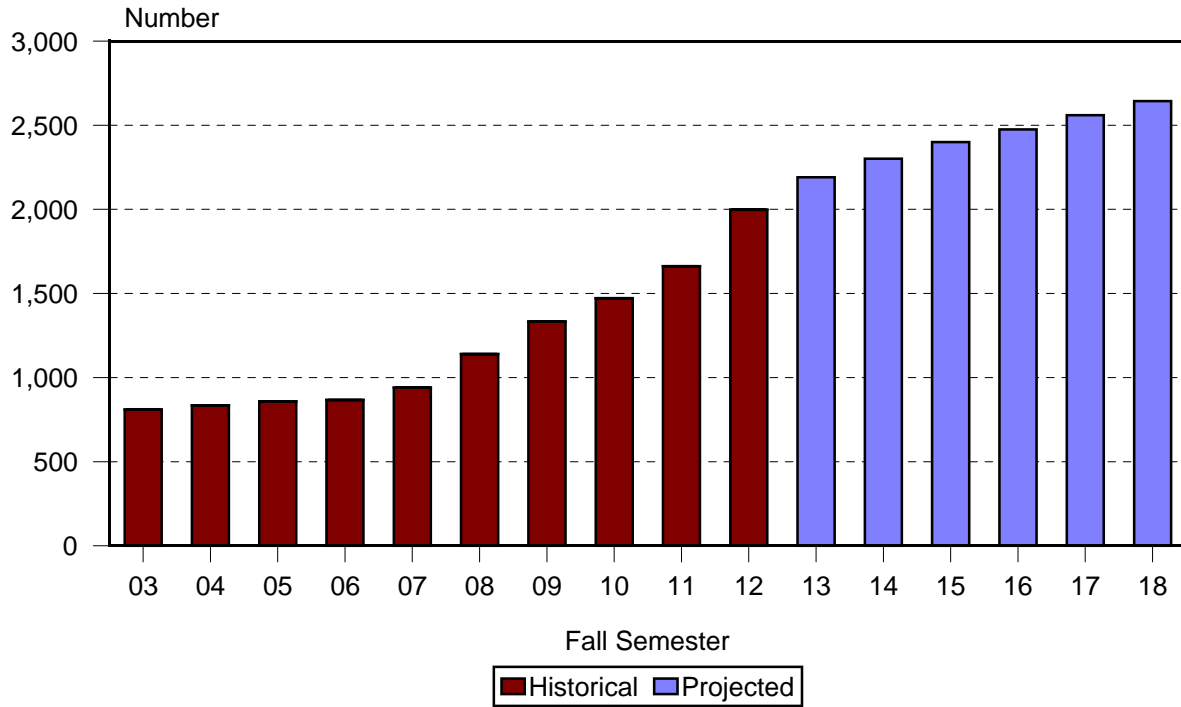
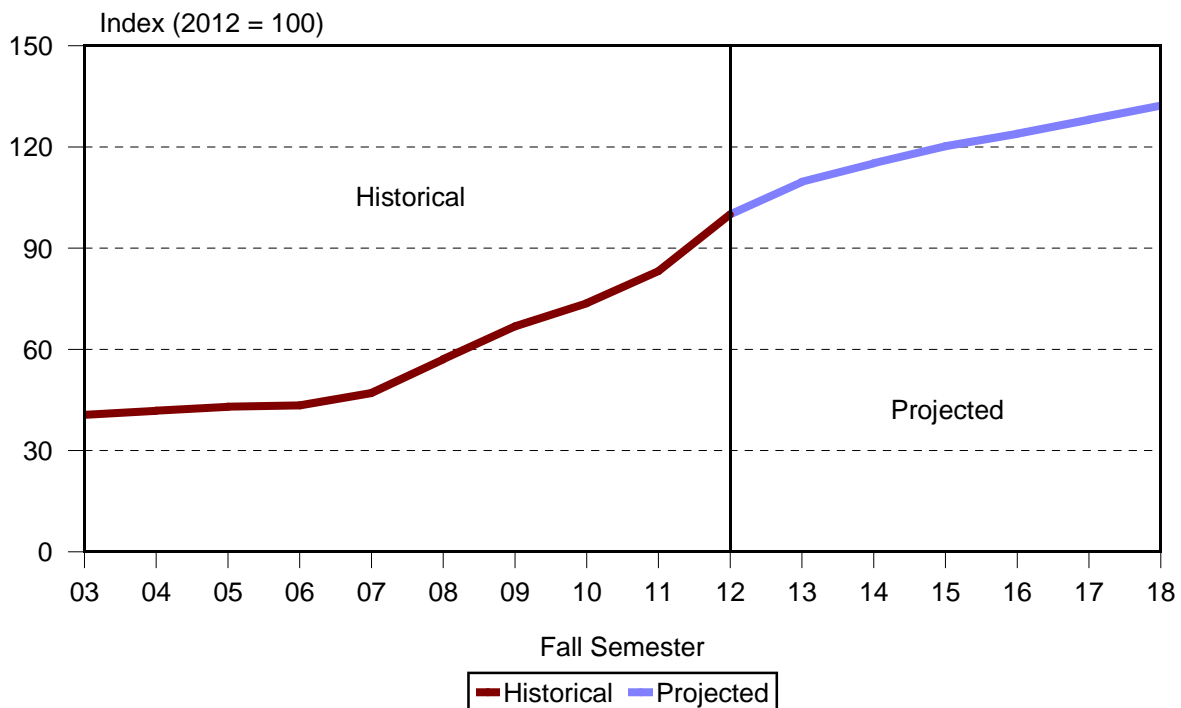


Figure 2
Enrollment Index



University of Hawai'i - West O'ahu
Enrollment Projections of Credit Students

Figure 3
Historical Enrollment with Trend Line

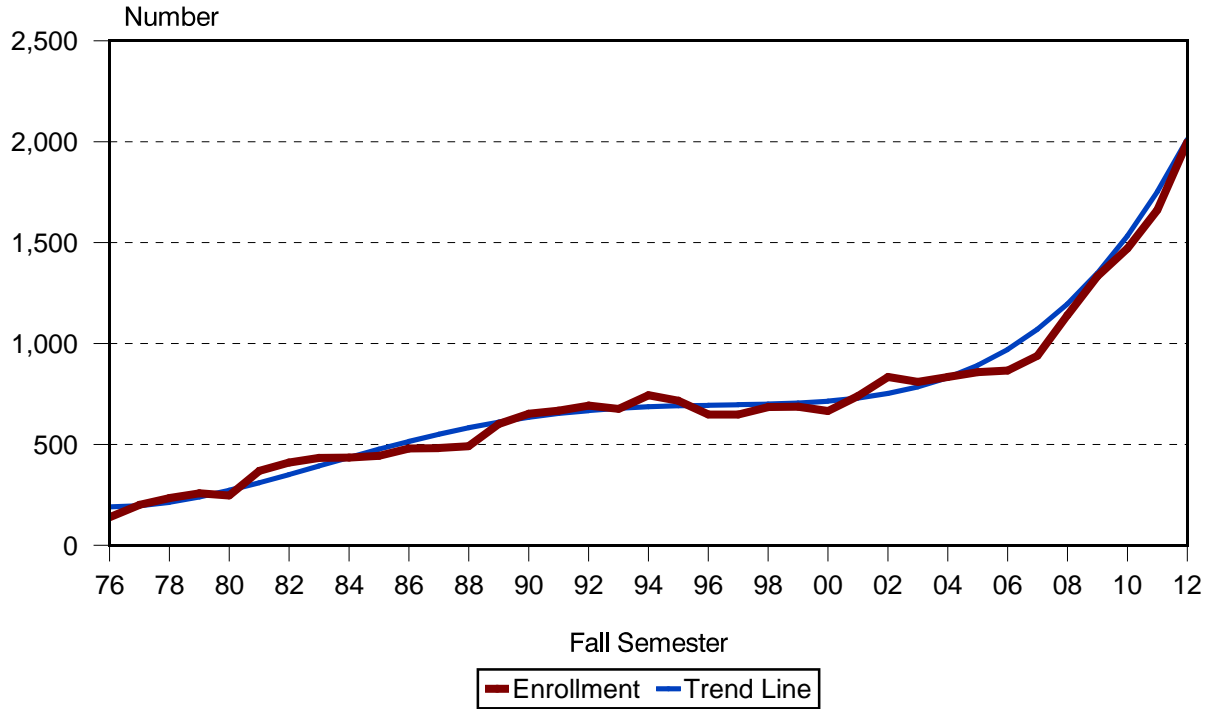
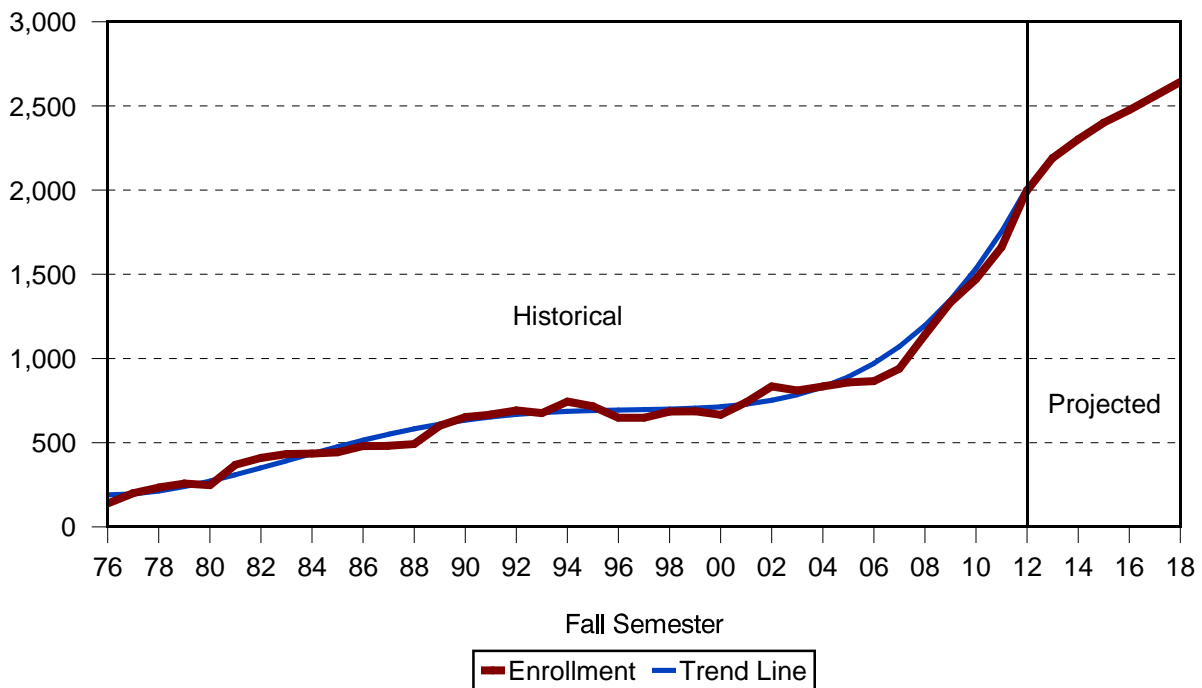


Figure 4
Historical and Projected Enrollment with Trend Line



University of Hawai'i - West O'ahu
 Enrollment Projections of Credit Students

Figure 5
 Projected Enrollment With Error Boundaries

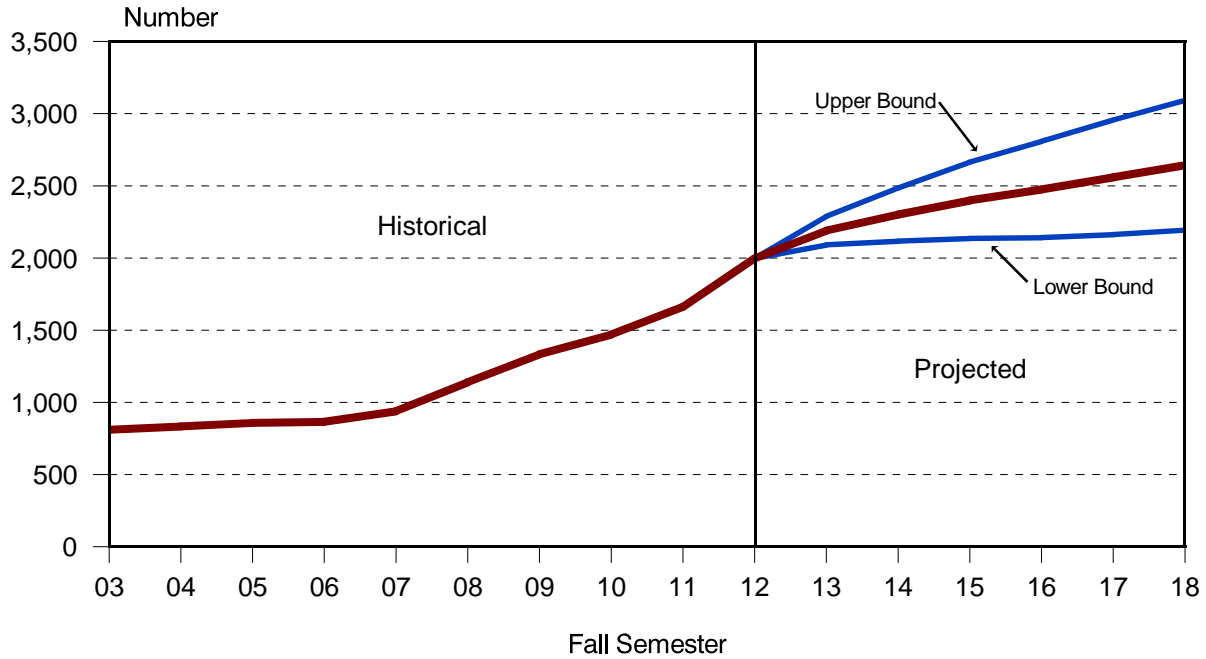
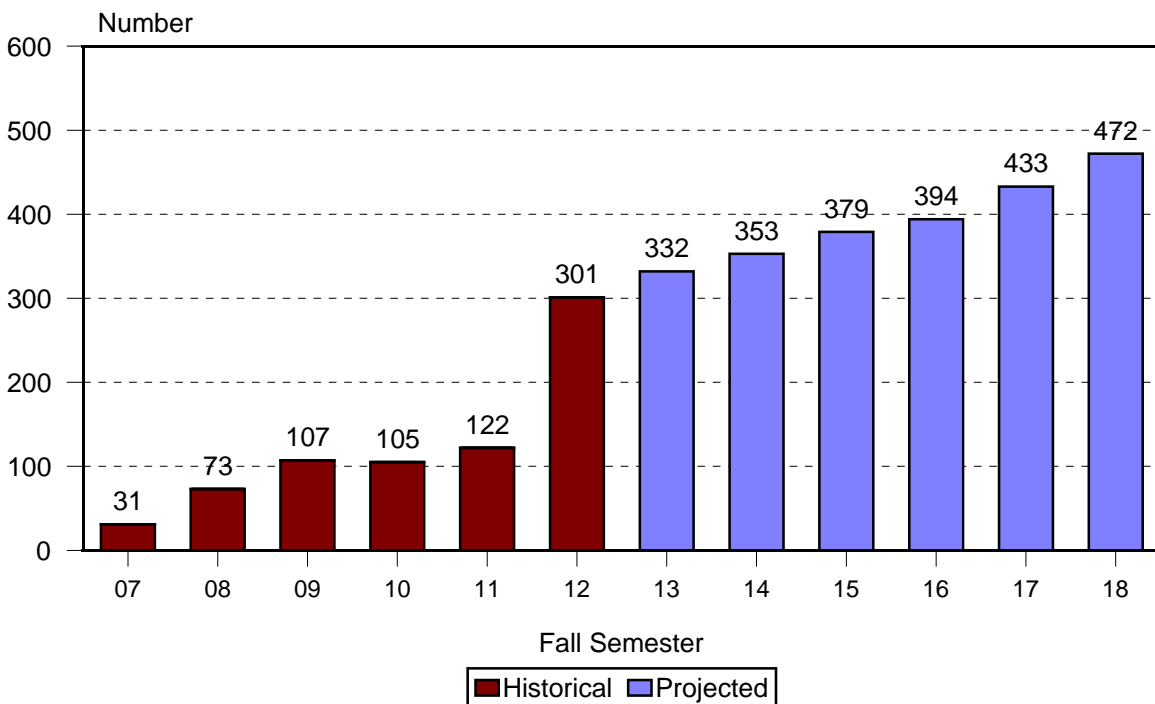


Figure 6
 First-Time Freshmen Enrollment



University of Hawai'i - West O'ahu
Enrollment Projections of Credit Students

Figure 7
Classified Transfer Enrollment

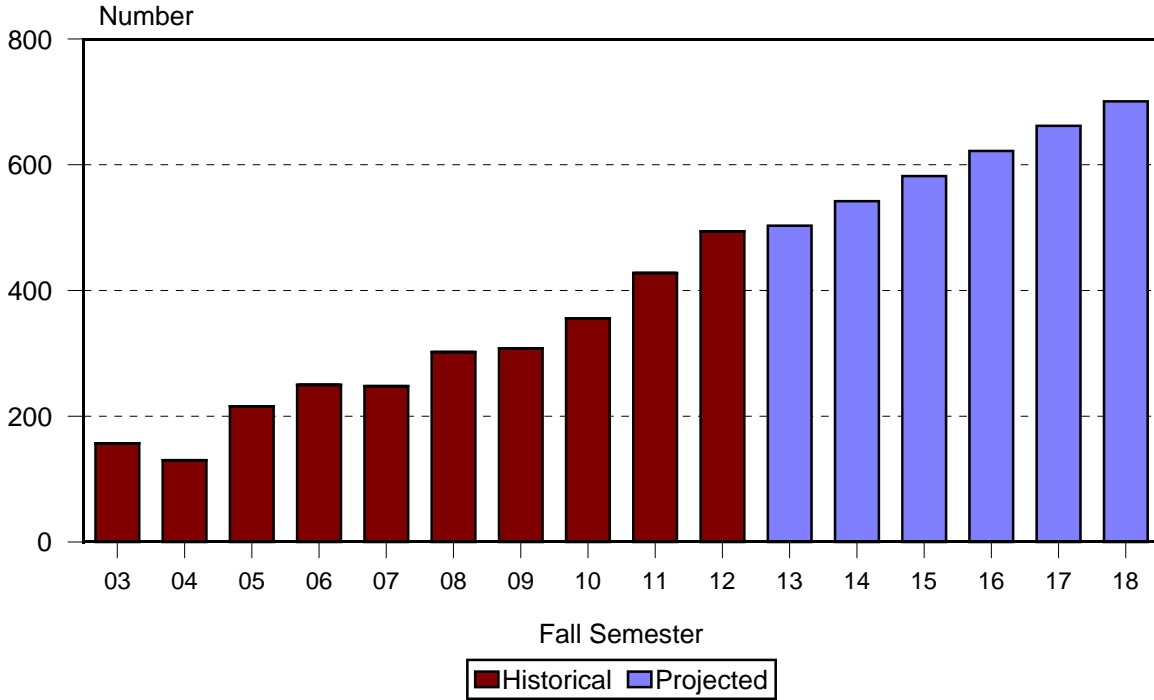
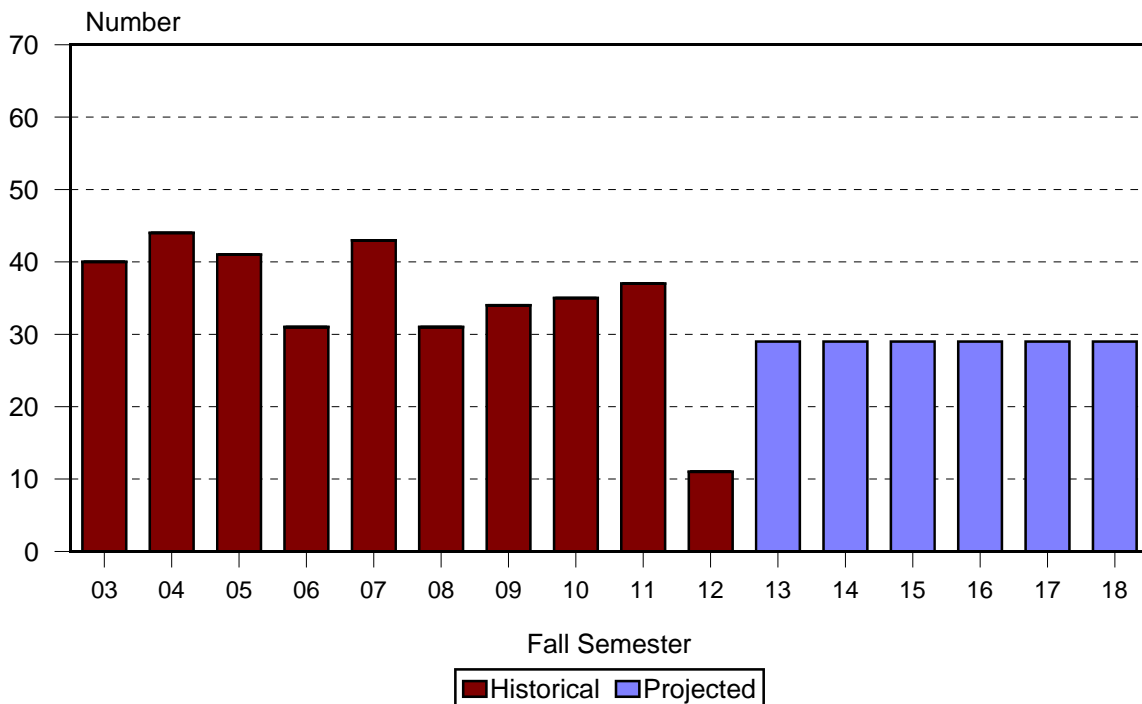


Figure 8
Classified Returning Enrollment



University of Hawai'i - West O'ahu
 Enrollment Projections of Credit Students

Figure 9
 Classified Continuing Enrollment

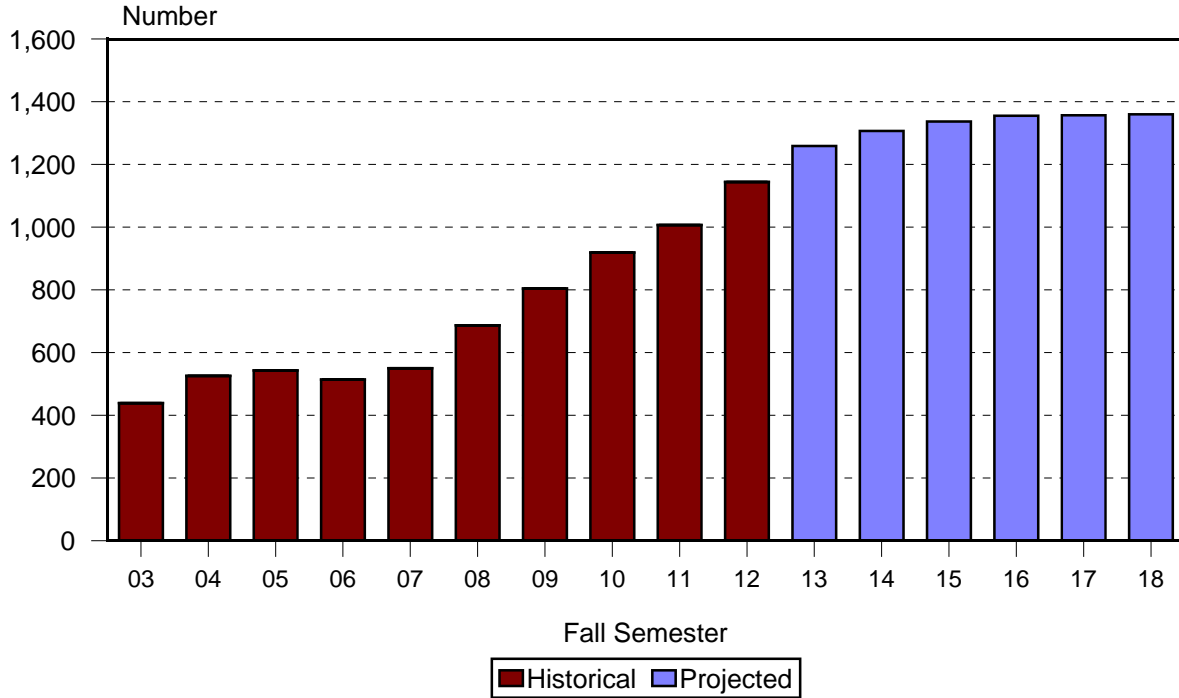
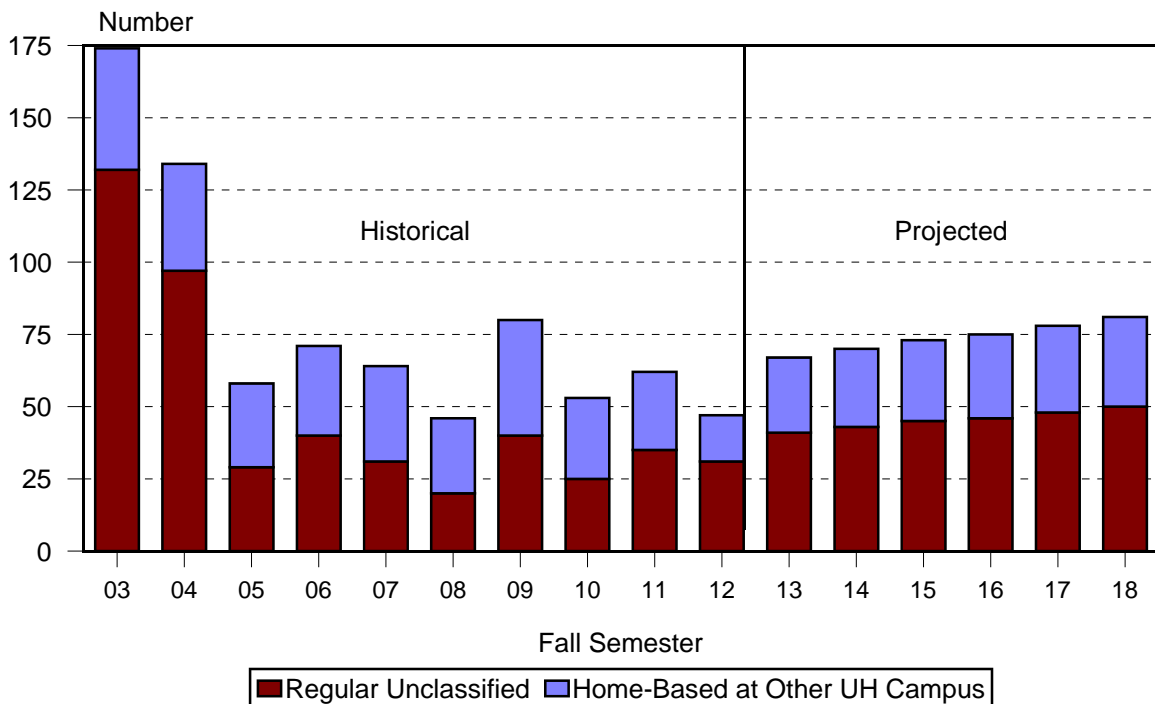


Figure 10
 Unclassified Enrollment



University of Hawai'i - West O'ahu
Enrollment Projections of Credit Students

Figure 11
Headcount Enrollment by On-Campus / Off-Campus

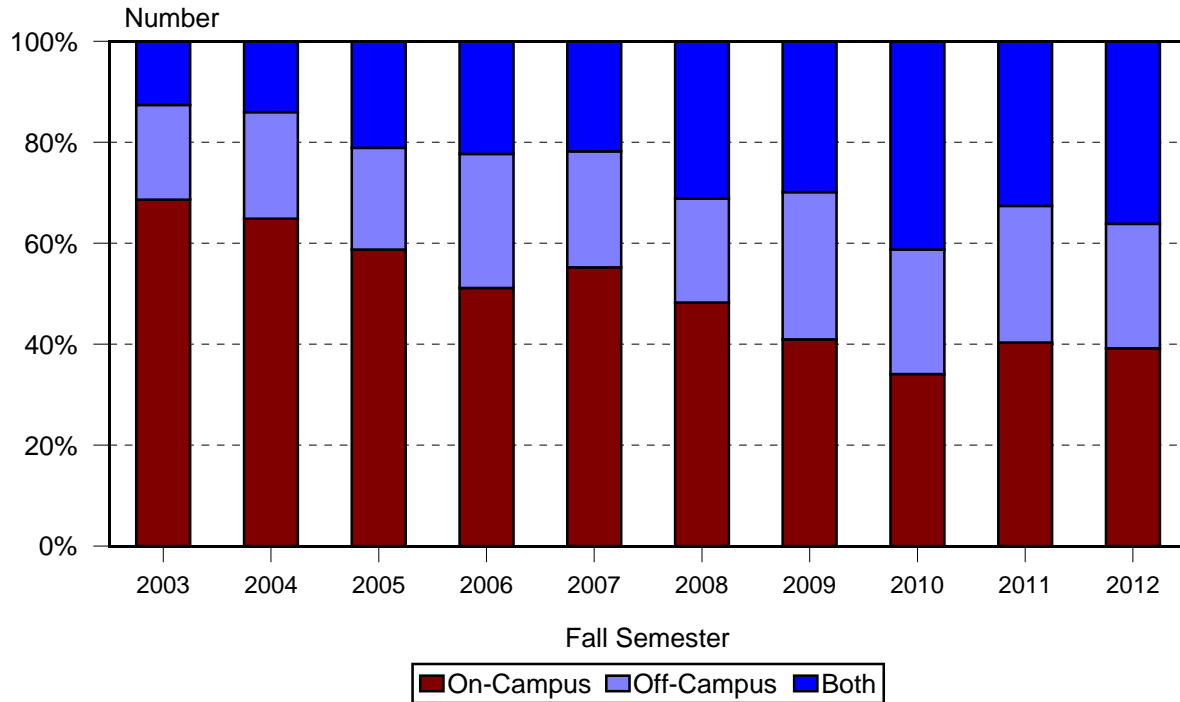


Figure 12
Registrations by Distance Education Status

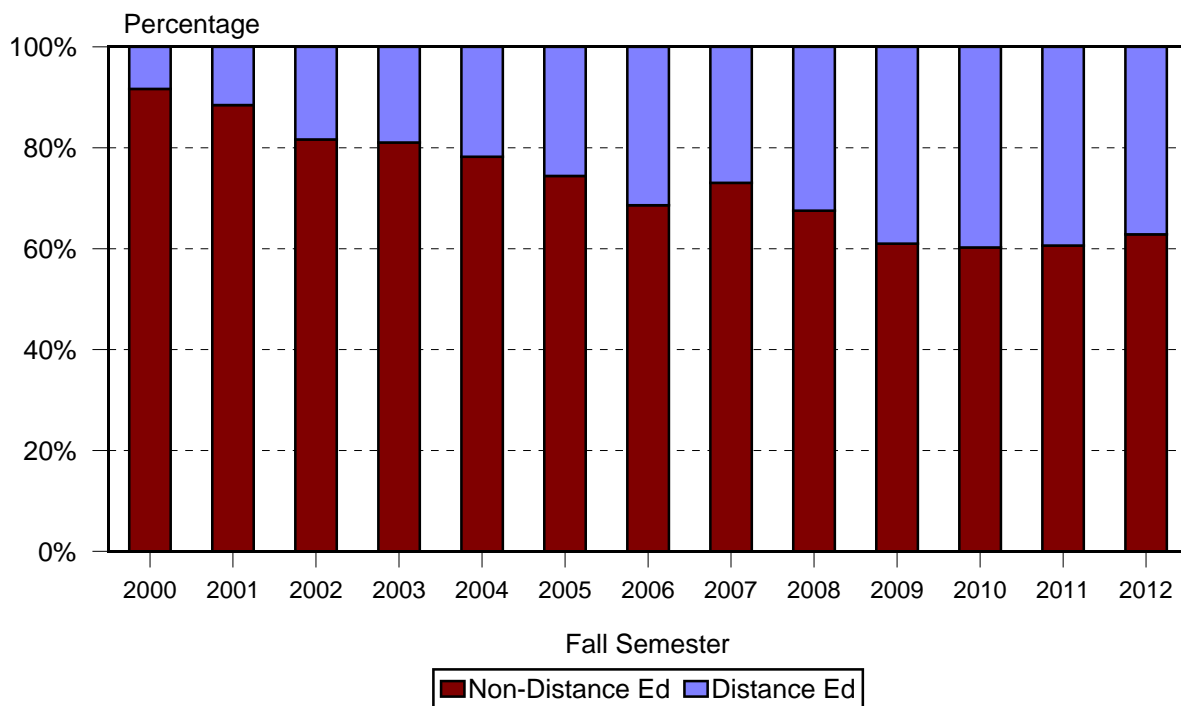


TABLE 1
HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY REGISTRATION STATUS
UNIVERSITY OF HAWAI'I-WEST O'AHU
FALL 2007 TO FALL 2018

REGISTRATION STATUS EDUCATIONAL LEVEL AND	HISTORICAL						PROJECTED					
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Campus Total	940	1,140	1,333	1,471	1,662	1,997	2,190	2,301	2,400	2,475	2,559	2,643
Classified Students 1/	876	1,094	1,253	1,418	1,600	1,950	2,123	2,231	2,327	2,400	2,481	2,562
Freshman	39	229	158	167	175	373	440	467	496	514	554	598
Sophomore	22	47	68	108	135	161	232	260	271	281	288	301
Junior	318	266	356	390	466	513	524	565	600	625	646	663
Senior	497	552	671	753	824	903	927	939	960	980	993	1,000
Unclassified & Other	64	46	80	53	62	47	67	70	73	75	78	81
Entering Students	326	407	449	499	593	806	864	924	990	1,045	1,124	1,202
First-Time Freshmen	31	73	107	105	122	301	332	353	379	394	433	472
Direct Public Entrants	18	52	76	71	84	242	268	284	306	314	342	374
Direct Private Entrants	8	13	18	23	27	39	41	43	44	48	56	60
Other First-Time Freshman	5	8	13	11	11	20	23	26	29	32	35	38
Transfer	248	302	308	356	434	494	503	542	582	622	662	701
Freshman	4	125	8	7	16	24	25	27	29	31	33	35
Sophomore	22	31	31	40	37	60	75	81	87	93	99	105
Junior	163	95	173	192	248	263	252	271	291	311	331	351
Senior	59	51	96	117	133	147	151	163	175	187	199	210
Returning	47	32	34	38	37	11	29	29	29	29	29	29
Freshman	4	2		4			1	1	1	1	1	1
Sophomore		1	1		1	1	1	1	1	1	1	1
Junior	12	12	11	12	10	4	11	11	11	11	11	11
Senior	31	17	22	22	26	6	16	16	16	16	16	16

TABLE 1
 HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY REGISTRATION STATUS
 UNIVERSITY OF HAWAI'I-WEST O'AHU
 FALL 2007 TO FALL 2018

REGISTRATION STATUS	HISTORICAL						PROJECTED					
EDUCATIONAL LEVEL AND	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Continuing	550	687	804	919	1,007	1,144	1,259	1,307	1,337	1,355	1,357	1,360
Freshman		29	43	51	37	48	82	86	87	88	87	90
Sophomore		15	36	68	97	100	156	178	183	187	188	195
Junior	143	159	172	186	208	246	261	283	298	303	304	301
Senior	407	484	553	614	665	750	760	760	769	777	778	774
Unclassified and Other	64	46	80	53	62	47	67	70	73	75	78	81
Unclassified	31	20	40	25	35	31	41	43	45	46	48	50
Home-Based at Other UH 2/	33	26	40	28	27	16	26	27	28	29	30	31

1/ Breakouts by Student Type and by Education Level have been revised.

2/ Students whose primary (home) campus, as defined in Banner / ODS, is a UH campus other than UH-West O'ahu.

Note: Lower Division classified enrollment began in Fall 2007.

Source: UH Institutional Research and Analysis Office; July 2013.

TABLE 2
HEADCOUNT ENROLLMENT BY PROGRAM
UNIVERSITY OF HAWAI'I-WEST O'AHU
FALL 2012 TO FALL 2018

PROGRAM	ACTUAL	PROJECTED					
	2012	2013	2014	2015	2016	2017	2018
TOTAL	1,997	2,190	2,301	2,400	2,475	2,559	2,643
Lower Division 1/	581	739	797	840	870	920	980
Upper Division	1,416	1,451	1,504	1,560	1,605	1,639	1,663
Education 2/	166	182	191	200	206	213	221
Lower Division	51	64	69	73	76	80	86
Upper Division	115	118	122	127	130	133	135
Humanities	92	100	104	109	112	116	120
Lower Division	23	29	31	33	34	36	39
Upper Division	69	71	73	76	78	80	81
Professional Studies	1,047	1,124	1,177	1,227	1,265	1,304	1,340
Lower Division	217	273	296	312	323	343	365
Upper Division	830	851	881	915	942	961	975
Applied Science	107	116	122	127	131	136	139
Lower Division	27	34	37	39	40	43	45
Upper Division	80	82	85	88	91	93	94
Business Administration	558	600	628	655	675	696	716
Lower Division	119	150	162	171	177	188	200
Upper Division	439	450	466	484	498	508	516
Public Administration	382	408	427	445	459	472	485
Lower Division	71	89	97	102	106	112	120
Upper Division	311	319	330	343	353	360	365
Social Sciences	497	532	559	580	598	616	634
Lower Division	99	125	135	142	148	156	167
Upper Division	398	407	424	438	450	460	467
General	148	185	200	211	219	232	247
Lower Division	144	181	196	207	214	227	242
Upper Division	4	4	4	4	5	5	5
Unclassified	47	67	70	73	75	78	81
Regular Unclassified	31	41	43	45	46	48	50
Home-Based at Other UH 3/ .	16	26	27	28	29	30	31

1/ Includes unclassified students for all years.

2/ Education division established by the Chancellor in February 2009.

3/ Students whose primary (home) campus is a UH campus other than UH -West O'ahu.

TABLE 3
STUDENT SEMESTER HOURS OFFERED BY PROGRAM
UNIVERSITY OF HAWAI'I-WEST O'AHU
FALL 2012 TO FALL 2018

PROGRAM	ACTUAL	PROJECTED					
	2012	2013	2014	2015	2016	2017	2018
TOTAL	18,332	20,161	21,198	22,129	22,815	23,617	24,425
Lower Division	6,968	8,288	8,858	9,308	9,624	10,104	10,650
Upper Division	11,364	11,873	12,340	12,821	13,191	13,513	13,775
Education 1/.....	912	954	988	1,027	1,055	1,082	1,102
Lower Division	135	147	152	159	164	169	175
Upper Division	777	807	836	868	891	913	927
Humanities	4,159	4,863	5,176	5,434	5,614	5,877	6,172
Lower Division	3,116	3,751	4,018	4,226	4,373	4,598	4,859
Upper Division	1,043	1,112	1,158	1,208	1,241	1,279	1,313
Natural Sciences	1,405	1,670	1,784	1,873	1,936	2,032	2,139
Lower Division	1,369	1,633	1,746	1,833	1,895	1,990	2,097
Upper Division	36	37	38	40	41	42	42
Professional Studies	6,498	6,813	7,079	7,369	7,584	7,773	7,931
Lower Division	339	400	424	448	461	485	510
Upper Division	6,159	6,413	6,655	6,921	7,123	7,288	7,421
Business Admin	3,465	3,624	3,762	3,917	4,029	4,127	4,210
Lower Division	219	254	268	284	291	306	320
Upper Division	3,246	3,370	3,494	3,633	3,738	3,821	3,890
Public Administration ...	3,033	3,189	3,317	3,452	3,555	3,646	3,721
Lower Division	120	146	156	164	170	179	190
Upper Division	2,913	3,043	3,161	3,288	3,385	3,467	3,531
Social Sciences	5,308	5,806	6,113	6,366	6,563	6,788	7,014
Lower Division	1,992	2,336	2,495	2,618	2,706	2,835	2,981
Upper Division	3,316	3,470	3,618	3,748	3,857	3,953	4,033
General	50	55	58	60	63	65	67
Lower Division	17	21	23	24	25	27	28
Upper Division	33	34	35	36	38	38	39

1/ Education division established by the Chancellor in February 2009.

Note: Lower Division classified enrollment began in Fall 2007.

TABLE 4
 FULL-TIME EQUIVALENT COURSE ENROLLMENT SERVED BY PROGRAM
 UNIVERSITY OF HAWAI'I-WEST O'AHU
 FALL 2012 TO FALL 2018

PROGRAM	ACTUAL	PROJECTED					
	2012	2013	2014	2015	2016	2017	2018
TOTAL	1,221	1,345	1,414	1,476	1,521	1,575	1,628
Lower Division	465	553	591	621	642	674	710
Upper Division	756	792	823	855	879	901	918
Education 1/.....	61	64	66	69	70	72	74
Lower Division	9	10	10	11	11	11	12
Upper Division	52	54	56	58	59	61	62
Humanities	276	324	345	363	375	392	412
Lower Division	208	250	268	282	292	307	324
Upper Division	68	74	77	81	83	85	88
Natural Sciences	93	111	119	125	129	136	143
Lower Division	91	109	116	122	126	133	140
Upper Division	2	2	3	3	3	3	3
Professional Studies	433	455	472	491	505	518	528
Lower Division	22	27	28	30	30	32	34
Upper Division	411	428	444	461	475	486	494
Business Admin	231	242	251	261	268	275	280
Lower Division	14	17	18	19	19	20	21
Upper Division	217	225	233	242	249	255	259
Public Administration	202	213	221	230	237	243	248
Lower Division	8	10	10	11	11	12	13
Upper Division	194	203	211	219	226	231	235
Social Sciences	355	388	408	424	437	452	466
Lower Division	134	156	167	174	181	189	198
Upper Division	221	232	241	250	256	263	268
General	3	3	4	4	5	5	5
Lower Division	1	1	2	2	2	2	2
Upper Division	2	2	2	2	3	3	3

1/ Education division established by the Chancellor in February 2009.

Note: Lower Division classified enrollment began in Fall 2007.

TABLE 5
 HEADCOUNT ENROLLMENT BY ATTENDANCE STATUS
 UNIVERSITY OF HAWAI'I-WEST O'AHU
 FALL 2012 TO FALL 2018

ATTENDANCE STATUS	ACTUAL	PROJECTED					
	2012	2013	2014	2015	2016	2017	2018
TOTAL	1,997	2,190	2,301	2,400	2,475	2,559	2,643
Full-Time	830	915	964	1,006	1,037	1,073	1,111
Lower Division 1/ ...	266	338	365	385	398	421	449
Upper Division	564	577	599	621	639	652	662
Part-Time 2/	1,167	1,275	1,337	1,394	1,438	1,486	1,532
Lower Division	315	401	432	455	472	499	531
Upper Division	852	874	905	939	966	987	1,001

1/ Includes unclassified students for all years.

2/ Includes student records with invalid data on attendance status.

**APPENDIX A
HAWAI'I PUBLIC HIGH SCHOOL SENIORS BY SCHOOL DISTRICT
ACADEMIC YEARS 2007-08 TO 2018-19**

SCHOOL DISTRICT	HISTORICAL						PROJECTED					
	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
TOTAL	9,819	9,990	9,400	9,602	9,897	9,588	9,408	9,566	9,111	9,271	9,630	9,226
O'ahu Districts	6,370	6,370	6,032	6,232	6,568	6,224	6,097	6,107	5,787	5,869	6,205	5,882
Honolulu District	1,664	1,726	1,566	1,668	1,710	1,666	1,654	1,627	1,505	1,484	1,636	1,530
Central District	1,699	1,753	1,697	1,784	1,964	1,803	1,800	1,822	1,724	1,747	1,811	1,719
Leeward District	2,157	2,091	2,039	2,002	2,075	2,044	1,963	1,957	1,922	2,019	2,097	2,011
Windward District	850	800	730	778	819	711	680	701	636	619	661	622
Neighbor Island Districts	3,225	3,372	3,134	3,133	3,065	3,102	2,962	3,000	2,845	2,898	2,911	2,805
Hawai'i District	1,474	1,565	1,520	1,382	1,384	1,348	1,327	1,314	1,245	1,264	1,268	1,270
Maui District	1,159	1,179	1,091	1,156	1,087	1,182	1,089	1,154	1,052	1,104	1,132	1,032
Kaua'i District	592	628	523	595	594	572	546	532	548	530	511	503
Other Schools	224	248	234	237	264	262	349	459	479	504	514	539
Special Schools												
Charter Schools 1/	224	248	234	237	264	262	349	459	479	504	514	539

1/ Includes all districts.

Source: Department of Education for the State of Hawai'i. Regular Education seniors only.

APPENDIX B
HAWAII HIGH SCHOOL GRADUATES
WICHE HISTORICAL AND PROJECTED - 2012 SERIES

Academic Year	Total	Pct Chnge	Public	Pct Chnge	Private	Pct Chnge
1996-97	11,547		8,929		2,618	
1997-98	12,246	6.1	9,670	8.3	2,576	-1.6
1998-99	12,247	0.0	9,714	0.5	2,533	-1.7
1999-00	13,398	9.4	10,437	7.4	2,961	16.9
2000-01	13,490	0.7	10,102	-3.2	3,388	14.4
2001-02	13,536	0.3	10,452	3.5	3,084	-9.0
2002-03	12,793	-5.5	10,013	-4.2	2,780	-9.9
2003-04	12,953	1.3	10,324	3.1	2,629	-5.4
2004-05	13,396	3.4	10,813	4.7	2,583	-1.7
2005-06	13,080	-2.4	10,922	1.0	2,158	-16.5
2006-07	13,448	2.8	11,063	1.3	2,385	10.5
2007-08	14,137	5.1	11,613	5.0	2,524	5.8
2008-09	14,167	0.2	11,508	-0.9	2,659	5.3
2009-10	13,535	-4.5	10,807	-6.1	2,728	2.6
2010-11	13,745	1.6	11,037	2.1	2,708	-0.7
2011-12	13,738	-0.1	10,990	-0.4	2,748	1.5
2012-13	13,502	-1.7	10,647	-3.1	2,855	3.9
2013-14	13,125	-2.8	10,347	-2.8	2,778	-2.7
2014-15	12,852	-2.1	10,168	-1.7	2,684	-3.4
2015-16	12,997	1.1	10,259	0.9	2,738	2.0
2016-17	13,252	2.0	10,278	0.2	2,974	8.6
2017-18	13,654	3.0	10,628	3.4	3,026	1.7
2018-19	12,895	-5.6	10,020	-5.7	2,875	-5.0
2019-20	13,354	3.6	10,532	5.1	2,822	-1.8
2020-01	13,772	3.1	10,738	2.0	3,034	7.5
2021-22	13,910	1.0	10,823	0.8	3,087	1.7
2022-23	13,681	-1.6	10,666	-1.5	3,015	-2.3
2023-24	14,456	5.7	11,281	5.8	3,175	5.3
2024-25	14,581	0.9	11,388	0.9	3,193	0.6
2025-26	14,844	1.8	11,579	1.7	3,265	2.3
2026-27	14,391	-3.1	11,223	-3.1	3,168	-3.0
2027-28	14,470	0.5	11,288	0.6	3,182	0.4

Note: Horizontal line delimits actual from projected numbers.

Note: WICHE "Historical" data may differ from UH IRO compiled data shown in the MAPS reports on the High School Background of First-Time Students.

SOURCE: "Knocking at the Door, Projections of High School Graduates;" December 2012; WICHE.