

Today's Objectives

1. Provide latest enrollment and retention figures, disaggregated by target populations.

2. Describe UHWO's predictive analytics strategy for increasing student enrollment and retention.

Slides available at:

http://www.uhwo.hawaii.edu/academics/oie/research-and-presentations/



Enrollment by the Numbers



- Point in time comparison with previous year.
- 2017 changes in registration dates affecting figures.
- Numbers could level off by September.
- UH Manoa utilizing aggressive recruitment strategies.

View by Headcount | View by SSH

Opening Enrollment (Headcount, For-Credit Students only) as of: August 15

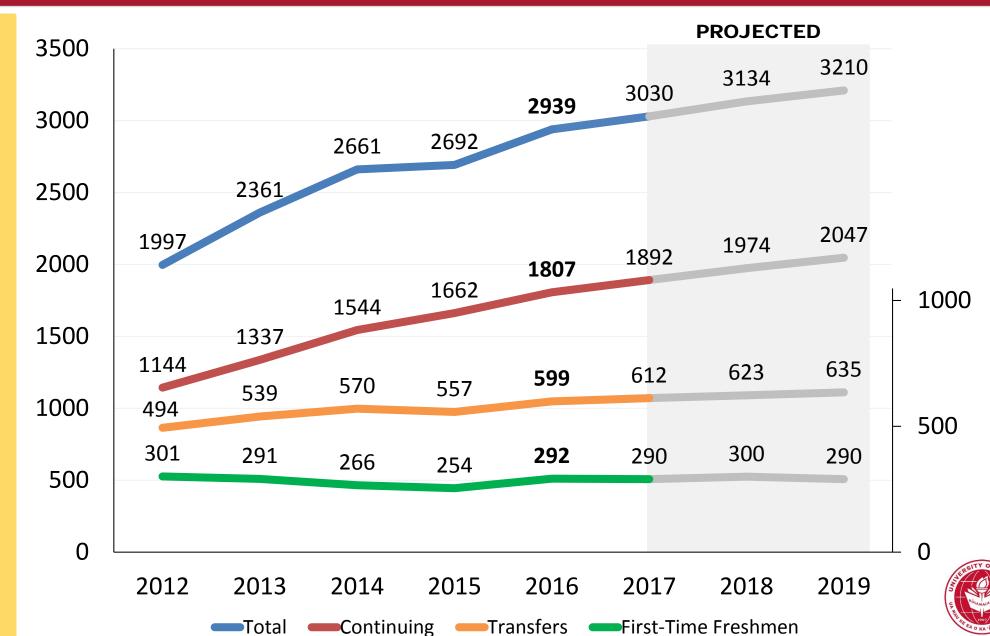
	Fall 2017	%C	Fall 2016	%C	Fall 2015	%C	Fall 2014	%C	Fall 2013
UH*	47,391*	-2.3*	48,484	-4.5	50,748	-0.2	50,867	-5.3	53,710
Mānoa*	15,950*	1.2*	15,760	-5.5	16,672	-1.1	16,860	-4.8	17,713
Hilo	3,277	-2.6	3,366	-5. <i>0</i>	3,542	-3.3	3,664	-0.5	3,684
West Oʻahu	2,794	-0.7	2,814	11.8	2,517	6.0	2,375	10.1	2,158
UHCC	25,370	-4.4	26,544	-5.3	28,017	0.2	27,968	-7.3	30,155
Hawai'i Community College	2,508	-5.3	2,648	0.3	2,639	-3.8	2,743	-12.8	3,147
Honolulu Community College	3,389	-9.8	3,758	-9.0	4,129	6.7	3,870	-6.8	4,153
Kapi'olani Community College	6,586	-5.2	6,945	-6.3	7,414	-0.5	7,455	-6.0	7,934
Kaua'i Community College	1,137	-4.7	1,193	-1.4	1,210	-3.7	1,256	-10.2	1,399
Leeward Community College	6,366	-4.1	6,640	-4.2	6,930	2.1	6,788	-5.3	7,170
Maui College	3,142	1.8	3,085	-8.6	3,375	-4.3	3,528	-7.1	3,797
Windward Community College	2,242	-1.5	2,275	-1.9	2,320	-0.3	2,328	-8.9	2,555

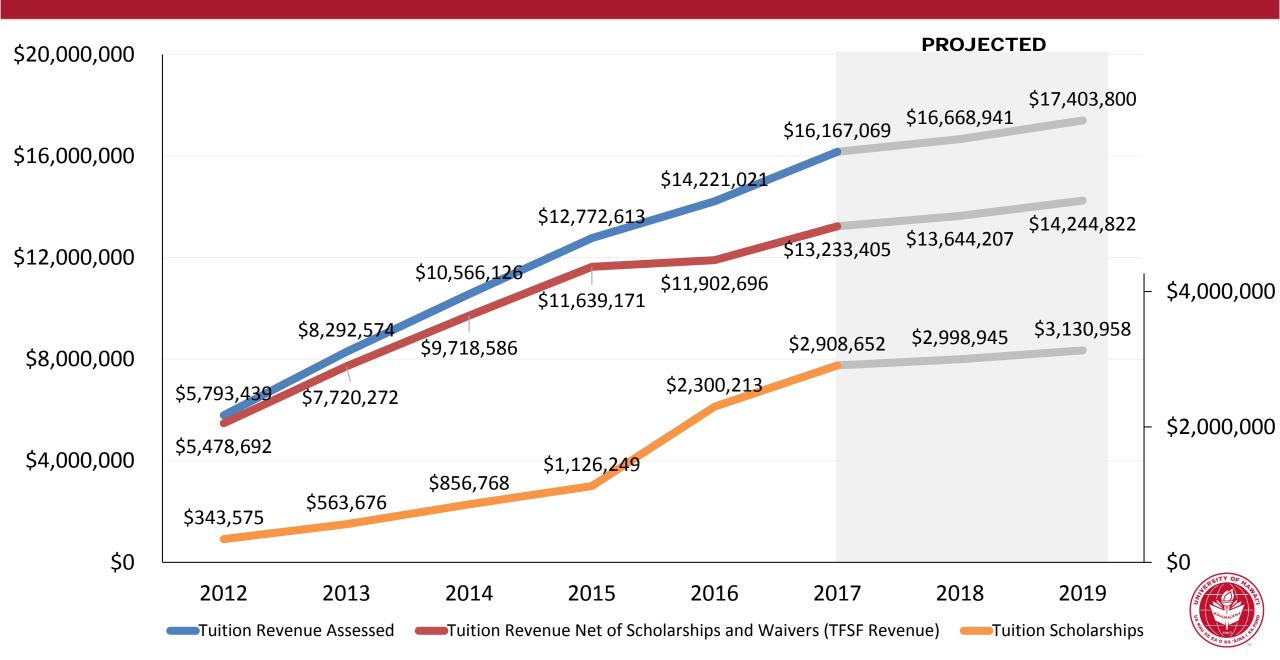
^{*} Fall 2017 registration for all new students began on May 22, compared to August 10 for Fall 2016. Therefore, the comparable data between Fall 2017 and Fall 2016 show an increase that is due to the earlier registration for Fall 2017.



Historical and Projected Enrollment

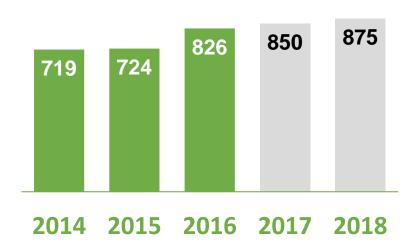
- Rapid 33% growth,
 2012 to 2014 with
 new campus.
- Since then, modest growth among transfers; freshmen consistently between 250-300 students.
- Total growth dependent on new and continuing students, minus graduating students.
- Real-time enrollment figures currently tracking
 3,000.



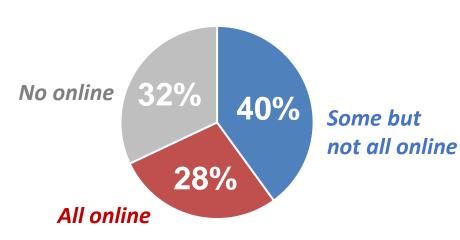


Student Populations of Interest

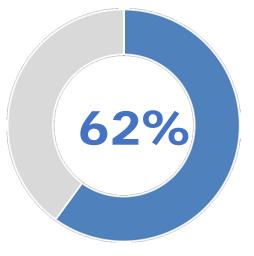




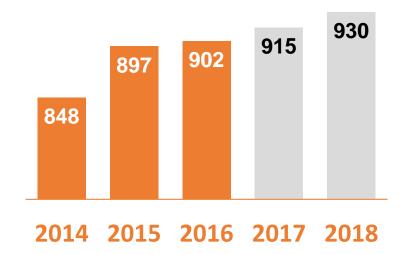
Online



Receiving Financial Aid



Pell Eligible

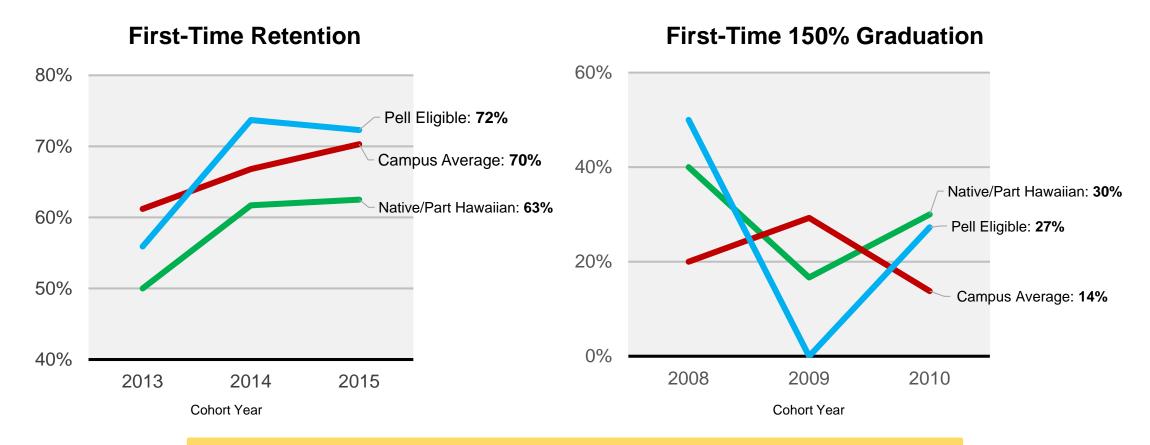


Distance Education





Achievement Gaps



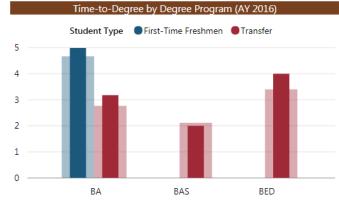
- Retention rates, although steadily improving, show persistent achievement gaps among Native/Part Hawaiian students.
- Due to small population of cohorts (N= 25, 41, & 29 respectively), caution should be used when interpreting 150% graduation rates.

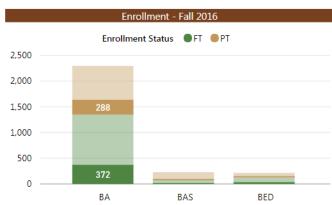


Interactive Monitoring of Student Success





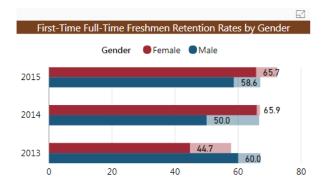


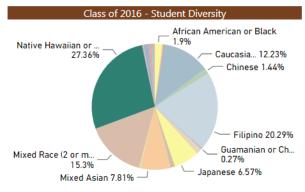


Student Success

The University of Hawai'i – West O'ahu is committed to creating and fostering a campus environment that embraces diversity, values students as important members of our campus community, and respects and appreciates the diverse perspectives, lifestyles, cultures, and ethnicities of all students. UH West O'ahu believes that student success is enhanced by a vibrant campus life experience that inspires students to engage in their campus community and in the greater community, thereby developing their skills as global citizens.

Whether it is the self-directed, independent thinker who takes distance education courses online or the engaged, articulate student government leader active in clubs and events, the "typical" UH West O alu student and his or her classmates are diverse with wide-ranging interests.





Total Enrollment - Fall 2016

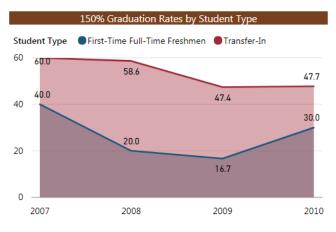
Degrees Awards - AY 2016

2939

474

UH West O'ahu has moved into a new phase of growth with the transition to a full four-year university in 2007. The expanded capacity allows UH West O'ahu to serve both regional and statewide educational needs. A four-year, indigenous-serving institution, UH West O'ahu provides an intellectually challenging higher education experience in a supportive setting, offering more than 30 academic concentrations in six degree programs designed for career success.

The programs of the University are designed to be responsive to the needs of our students. UH West O'ahu faculty are engaged in three basic types of activities: teaching, research, and service. The University's curriculum offerings are founded on the principle that career training, the humanities, and social sciences are complementary.



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Available at: http://www.uhwo.hawaii.edu/academics/oie/



Performance Funding 2016-17

Measure	Baseline	Goal	Actual	%	Weight	Amount
Degrees and Certificates	380	399	474	200%	30	\$195,282
Degrees and Certificates - Native Hawaiian	84	88	116	200%	15	\$97,641
Degrees and Certificates - STEM	NA	NA	NA	NA	0	NA
Degrees and Certificates - Pell Recipients	205	215	263	200%	10	\$65,094
Graduation Rate 150%	25	29.8	13.8	0%	30	\$0
Transfers in from UHCC F15/Spr16	639	652	700	200%	15	\$97,641
Total Allocation						\$455,658

Source: UH System



First-Time Student Tracking

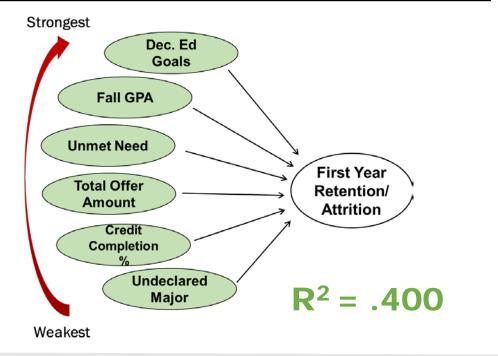
GRADUATION AND RETENTION RATE SUMMARY UH WEST O`AHU FIRST-TIME, FULL-TIME STUDENTS

		ENROLLED, FALL (%)									GRADUATION (%)			
COHORT	Count	2ND	3RD	4TH	5TH	6TH	7TH	HT8	9TH	4YR	5YR	6YR		
Fall 2007	16	68.8	50	56.3	37.5	12.5	6.3	0	0	6.3	25	25		
Fall 2008	25	60	52	48	44	20	8	4	8	8	32	40		
Fall 2009	41	56.1	39	31.7	24.4	7.3	7.3	4.9		9.8	24.4	29.3		
Fall 2010	29	37.9	34.5	27.6	17.2	10.3	6.9			0	10.3	13.8		
Fall 2011	36	66.7	52.8	52.8	30.6	11.1				16.7	33.3			
Fall 2012	161	67.7	45.3	40.4	29.8					9.9				
Fall 2013	214	61.2	38.3	34.6										
Fall 2014	196	66.8	51											
Fall 2015	239	70.3	A											
Fall 2016	266													

2nd year retention good relative to peers 3rd, 4th, 5th year persistence concerning; affecting graduation rates.

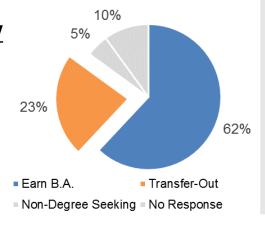
Triangulating Student Departure Factors

1. Statistical Model (End-of-semester)

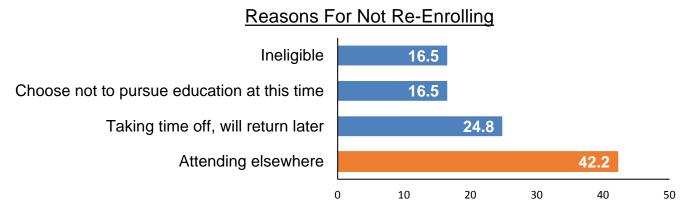


2. Ed. Goals Survey

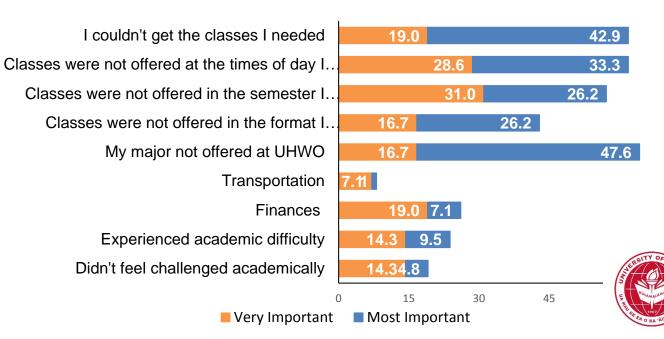
What is your immediate educational goal at this campus?



3. Leavers Survey



Reasons Why Students Transferred to Other UH Campus



Enrollment Targets*

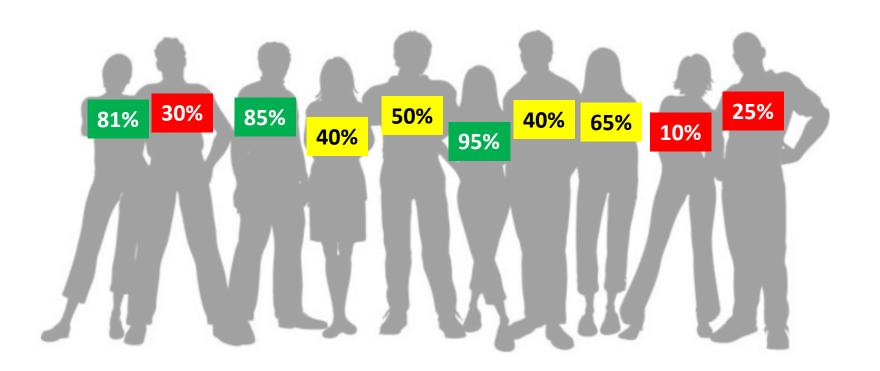
Priority	Measure	2016	Past 3-Year Avg. Growth	5 Year Target	Change	5-Year % Change
1	Total Enrollment	2939	10.5%	4625	1686	52%
2	Academic Majors	6	0	12	6	100%
3	Freshmen Retention	70.3	3%	72%	1.7	1.7%
4	6 Year Graduation Rate	29.3	31% avg	41%	10.5	100.5%
5	Freshmen Entering Class	292	9.8%	380	88	30%
6	Transfer Entering Class	599	2.7%	680	81	13%



What is Predictive Analytics?

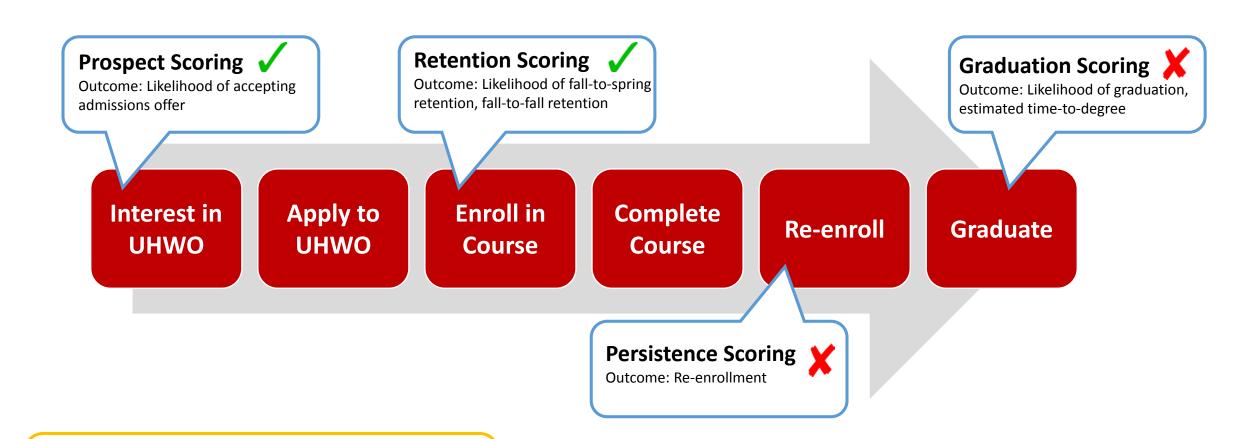
• Uses historical data to predict or forecast future behaviors, trends, or outcomes.

(i.e. enrollment likelihood, retention, course success, degree completion/time-to-degree, etc.)





Predictive Analytics for the Enrollment "Pipeline" UNIVERSITY of HAWAI'I" WEST O'AHU



UHWO currently implementing this practice.

UHWO not currently implementing this practice.



Predictive Analytics at UHWO

Two active initiatives at UHWO:

1. In-house development of custom prediction models by UHWO Institutional Research Office.



 Starfish© early alert software administered by UHWO Student Affairs.





How does predictive modeling work?

1.

Data collected from student information system.



11010001

2.

Train and validate prediction model using standard statistical methods.



3.

Prediction estimates calculated per student



%75

EXAMPLE

New student at the beginning of their first semester:

- First Generation
- High School GPA (2.89)
- Registered for 12 credits
- Lower socio-economic
- Undeclared major
- No freshmen exp. course
- No educational goals survey completed

Probability of Drop-Out:

75%



Sample data for faculty and advisors

ID	LAST NAME	FIRST NAME	EMAIL	CURRENT CREDITS	RESIDENT	AP/ CLEP	HS GPA	WORK ON CAMP	1st YR EXP CLASS	% FIN NEED MET	STAR LOGINS	ADVISOR PREVIOUS CONTACT
001				15	НІ	6	3.80	Υ	Υ	77%	5	Υ
002				14	НІ	0	3.33	N	Υ	63%	3	N
003				12	CA	6	3.00	N	N	45%	0	N

ID	AGE	GENDER	ETHNICITY	COLLEGE	MAJOR	DEGREE	Ed Goal Specified	Relative Risk Value	Risk Level
001	18	F	СН	CA&H	ART	ВА	Yes	14.92	LOW
002	18	F	HW	CSS	SOC	ВА	Yes	36.88	MEDIUM
003	18	M	UNDEC	UNDEC	UNDEC	UNDEC	No	89.18	HIGH



Academic advising intervention example

John

- First Generation
- SAT Combined = 900
- H.S. GPA = 2.99
- 75% Unmet Financial Need
- Undeclared
- Dropout risk probability: 70%
- Risk group: 7 of 10 (moderate risk)

Intervention strategy:

- Proactive advising
- Meta major pathway mapping
- Revisit financial aid support
- Check for ill-advised registration choices



Jim

- SAT Combined = 1100
- H.S. GPA = 3.50
- Accounting Major
- 15 credits registration
- Educational Goals = "Earn B.A."
- Dropout risk probability: 10%
- Risk group: 1 of 10 (low risk)

<u>Intervention strategy:</u>

- Monitor Starfish reporting
- Mid-semester check-in
- Re-assess dropout risk at end-of-semester





Starfish Results - Spring 2017, 3rd Week

• 51 faculty/lecturers participated (32% of all faculty and lecturers).



- 87% of student referrals submitted were "kudos" (1,133 of 1,306).
- 100 students referred to academic advising (3.6% of Spring 2017 enrollment).
- 51 students referred for academic support.



Affordability

- Infrastructure
- Technology
- People/Expertise
- Opportunity Costs

Data availability

- Student Information System
- Learning Management System
- Budget/ Human Resource Silos

Implementation of predictive data

- Senior-level coordination
- Culture change
- Wary of misuse of data
- Questions about data used to generate scores
- Students' access to risk scores



Enrollment Management Work Group



- Judy Oliveira, Co-Chair
- Jeff Moniz, Co-Chair
- Jan Javinar
- Jim Cromwell
- Stefanie Wilson
- John Stanley
- John Murakami
- Bonnie Arakawa
- Garyn Tsuru
- Leila Shimokawa

