Unit Load Momentum: Indicator for Successful and Timely Graduation

Sunny Moon Yusuke Kuroki Alan Yu

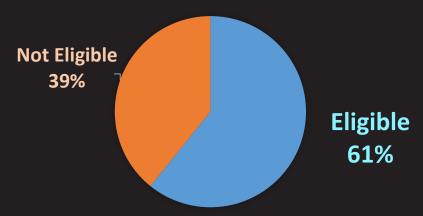
California State University, Los Angeles

CAIR Conference November 2019

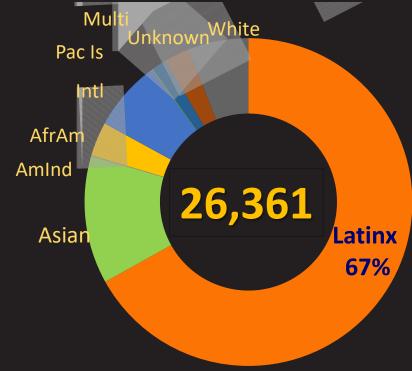


PELL ELIGIBILITY

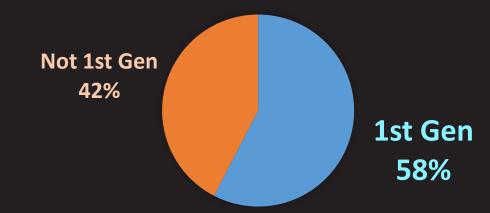




ETHNICITY



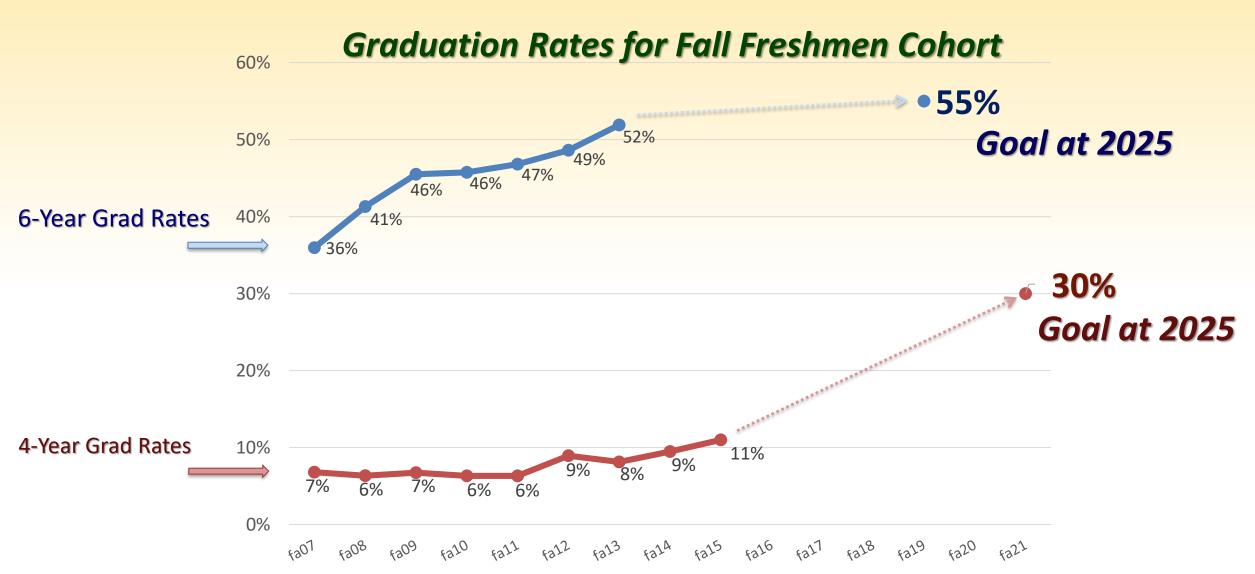
1ST GENERATION



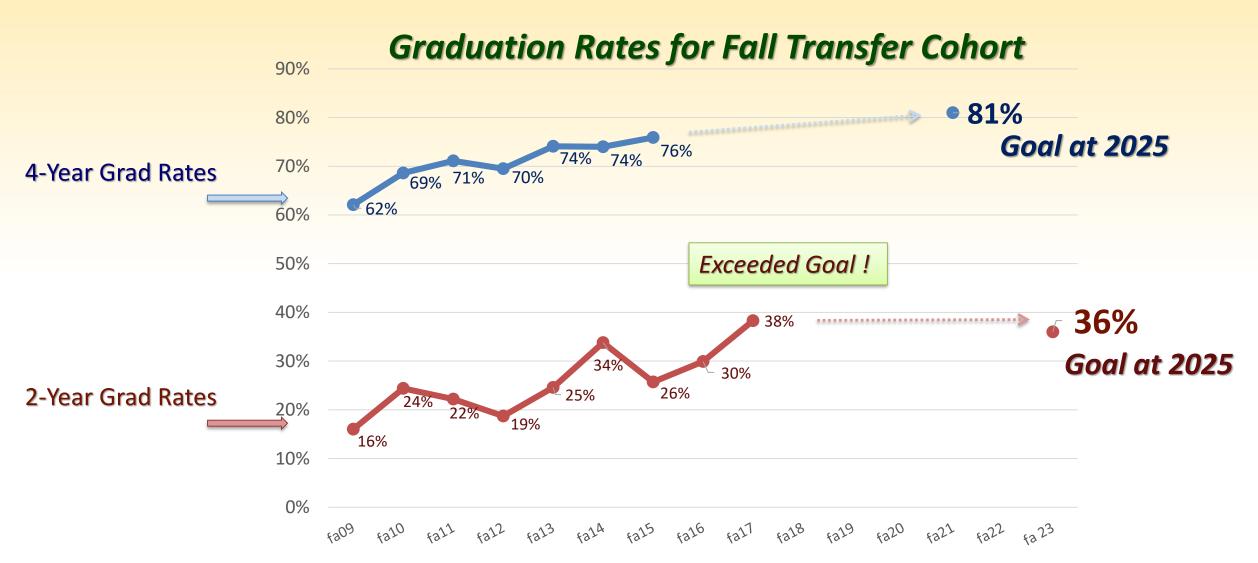
Graduation Initiative 2025: Cal State LA

Metric	2016	2017	2018	2019	2025 Goals
6-yr Grad Rates: Freshman	45.8%	46.8%	48.6%	51.7%	55%
4-yr Grad Rates: Freshman	8.9%	8.1%	9.5%	11.0%	30%
4-yr Grad Rates: Transfer	69.7%	74.4%	74.4%	75.9%	81%
2-yr Grad Rates: Transfer	33.8%	25.7%	29.9%	38.3%	36%
Gap — URM (in Freshmen 6-yr Grad Rates)	9.5%	11.3%	10.1%	10.6%	0
Gap — Pell (in Freshmen 6-yr Grad Rates)	6.2%	0.4%	6.3%	4.0%	0

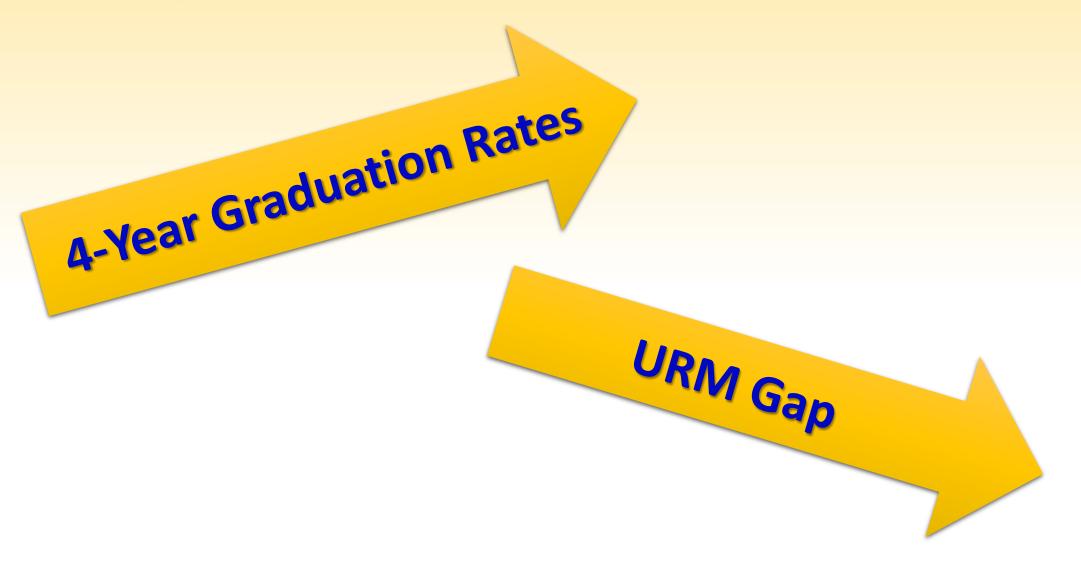
Graduation Initiative 2025: Cal State LA



Graduation Initiative 2025: Cal State LA



Opportunities for Improvement!!



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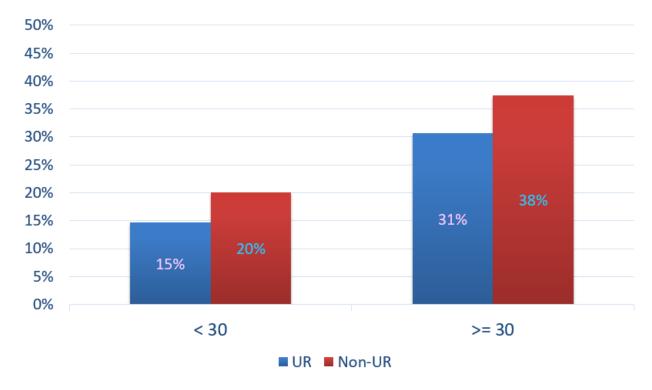
4-Year Graduation Rates National Trend for Public University

State Policy Efficiency Funding Access

30 Units Takers: URM vs. Non-URM

First-Time Freshmen 2011-2013 Cohort

4-Year Grad Rates





Source: Moon, H.S. et al, "Graduation Initiative 2025: Role of Institutional Research to support Data-Driven Decision at CSU Fullerton", California Association for Institutional Research Conference, November 2017, Concord, CA.



15 Units / Term





30 Units / Year

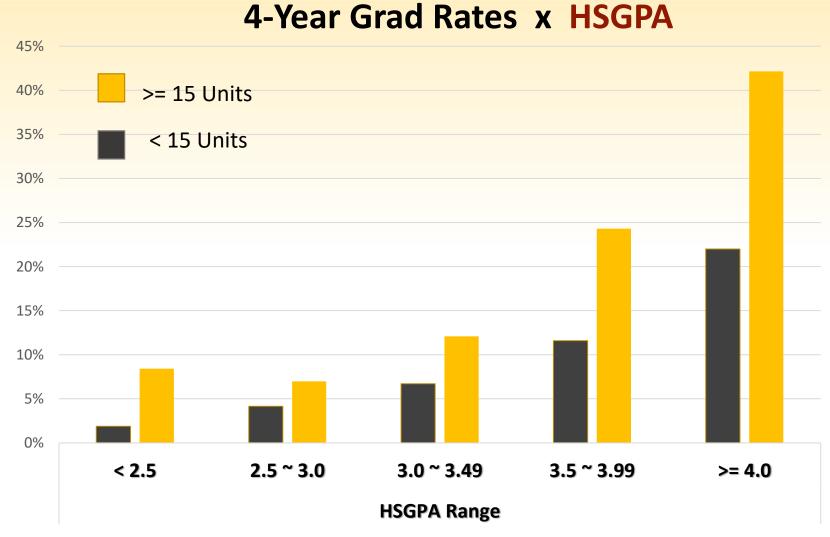
Effects of Freshmen Full Load (>= 15 Units) in 1st Term and 1st Year

- (1) 4-Year Graduation Rates
 - (2) 1-Year Retention Rates
 - (3) Completion Rates

(Units Passed / Units Attempted)

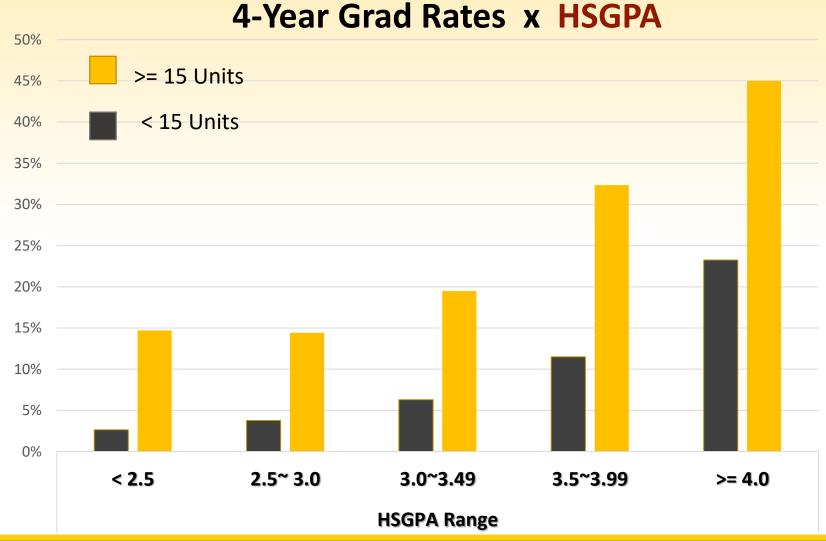
Concern #1. Freshmen with Low High School GPA?

15 Units in 1st Term



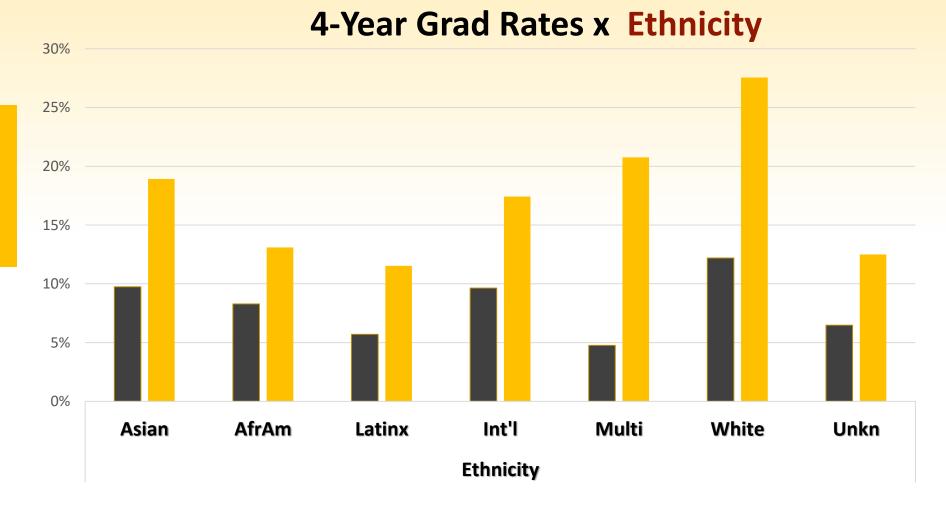
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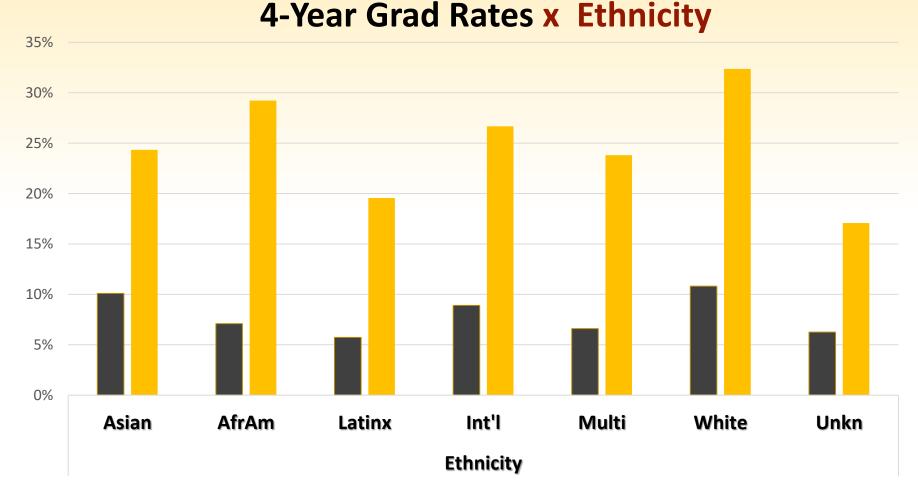
Concern #2. Underrepresented Students?

15 Units in 1st Term



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30 Units
in 1st Year



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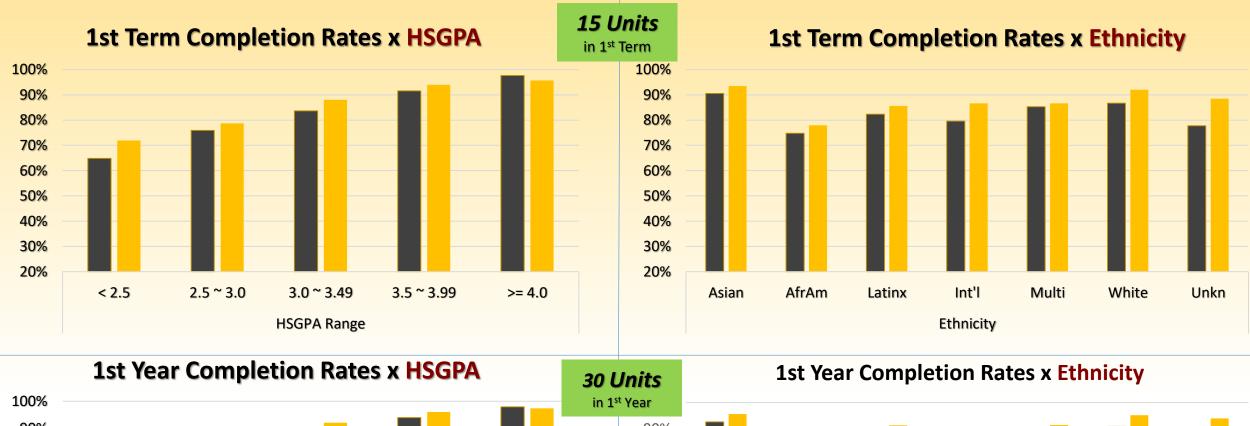
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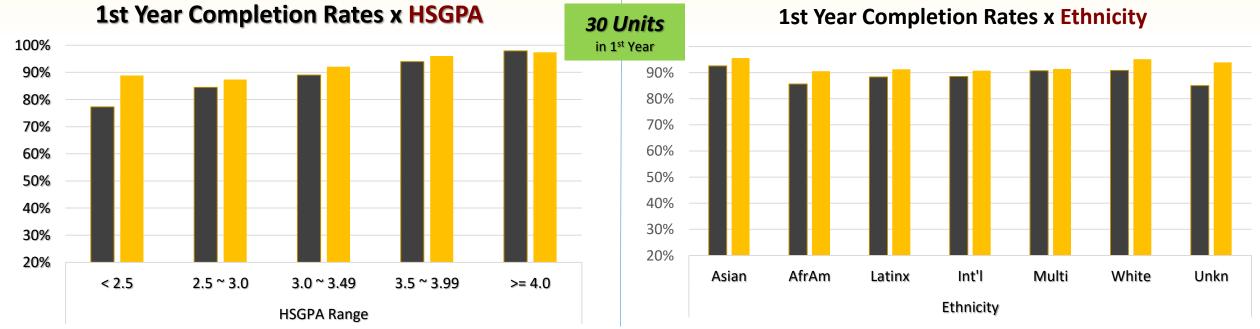


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(Units Passed / Units Attempted)





Logistic Regression on 4-Year Graduation Rates

Eligibility Index > 30-Units in 1st Year > Gender > Pell

IVs	В	Wald	Sig.	Exp(B)
EI_NEW	0.002	341.96	0.00	1.002
URM	-0.203	6.06	0.01	0.816
FULLLOAD (30 units)	0.991	88.00	0.00	2.693
MEN	-0.523	64.32	0.00	0.593
PELL_REC	-0.287	17.00	0.00	0.750
FIRSTGEN	-0.124	3.57	0.06	0.883
URM by FULLLOAD	0.259	3.61	0.06	1.295

Nagelkerke R Square = 14%

Higher Education Research Literature

- Academic *Momentum* Theory

The speed with which undergraduates initially progress in college significantly affects their likelihood of completing a degree

- Early Credit *Momentum*

15 credits in their first term graduates at significantly higher rates

- Academic *Intensity* Theory

Levels of academic intensity (high units) in the first year of higher education contributes eventual success

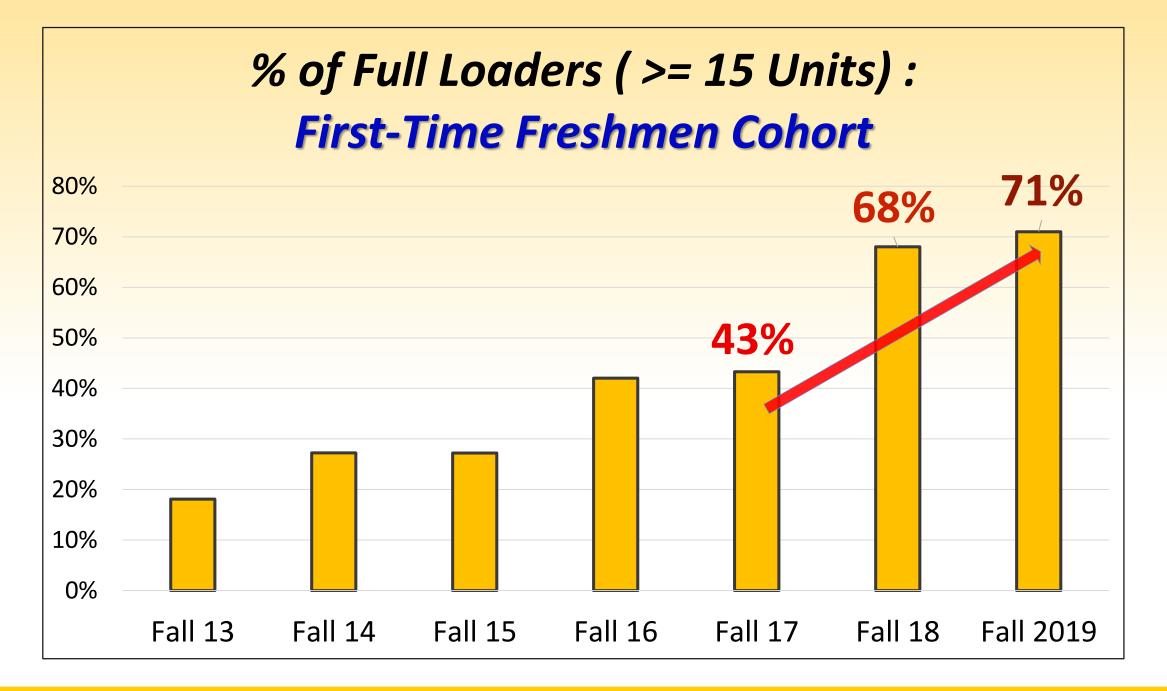


Opportunities for Improvement!!



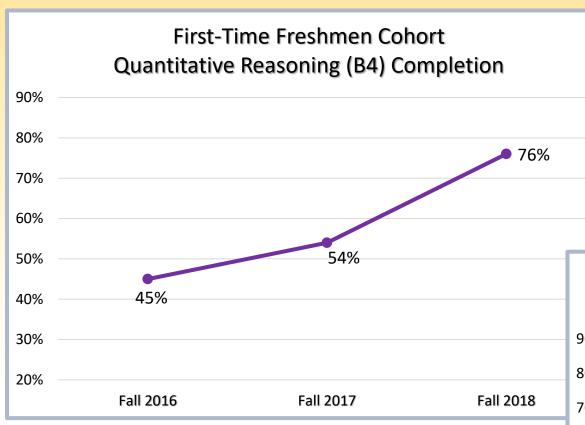
2 Major Efforts / Achievements at Cal State LA

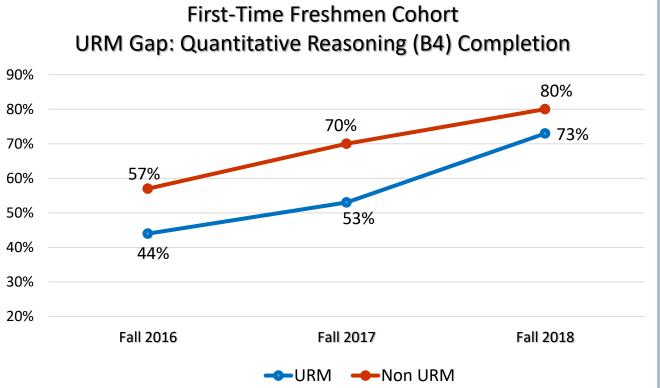
- Increase in Full Loaders (>= 15 units per semester)
- Increase in B4 (GE Math/QR) Completion



Units Completed by the end of 1st year by cohort: fa16, fa17, fa18

Term	Cohort	Avg. Total Units Earned	
2169	3,830	24.93	
2179	3,556	25.95	
2189	3,862	27.76	





Who graduated in 4-Years?

(Fa11 thru Fa15 cohort)

4-Year	4-Year Graduation Rates		
Graduation	Gender		
Ethnicity	Female	Male	Total
Asian	16.1%	11.5%	13.9%
AfrAm	10.7%	6.9%	9.5%
Latinx	8.4%	5.2%	7.1%
Int'l	14.7%	7.7%	11.4%
White	20.2%	12.5%	16.7%
Cohort Total	10.1%	6.8%	8.8%

4-Year Graduation	Pell	1st Gen	Total	HS GPA	SAT Total
Graduated	815 (7.2%)	689 (7.2%)	1360 (8.8%)	3.35	962
Cohort Total	11250	9536	15494	3.17	885

College at Entry	Graduated in 4yrs	4-year grad rates (%)	Total
AL	224	12.0%	1859
BE	201	11.9%	1689
ED	5	6.5%	77
ET	85	4.2%	2032
HHS	357	8.8%	4052
NSS	318	9.8%	3260

Who graduated in 4-Years?

(Fa11 thru Fa15 cohort)

Total Units to Degree	128.26
Total Units to Degree	# of Students
120-124	723
125-129	237
130-134	127
135 or higher	273

AP Credits / Transfer Units at Freshmen Entry	Graduated in 4yrs	Not graduated in 4yrs
Ave Units Earned	4.30	1.46

Summer/Intersession	Graduated in 4-Years		
Course Taking	Graduated in 4yrs	Not graduated in 4yrs	
Average Units Earned in Summer / Intersession	6.50	2.84	
# of takers in Summer / Intersession	917	8092	
# of Cohort	1360	14134	

Opportunities for Improvement



√ Sense of Belonging

- ✓ Learning Community
- ✓ Well-Being and Healthy Mind
- ✓ Post-Bac Outcomes
- √ Faculty Development
- ✓ Year-2 Planning for Math / QR : (Latinx students)
- ✓ Collaborative Pedagogy



Collectivistic Culture @ Home

Collaborative Pedagogy

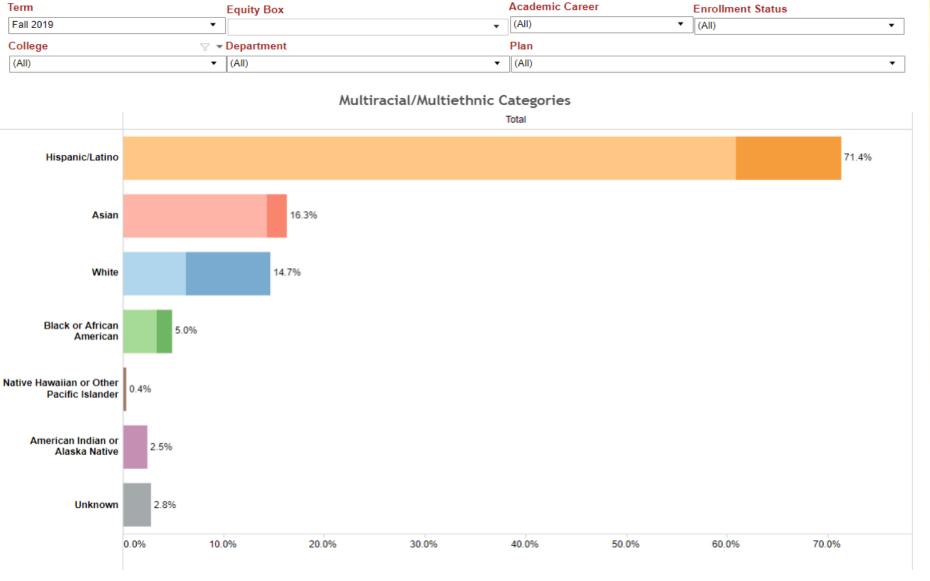
Culturally-Responsive Educational Practices @ School

Cultural Factors

Sense of Belonging / Engagement

Redefined Ethnic Composition:

Multiracial Dashboard



Darker color on a bar graph represents multiracial/ethnic students who gave any two responses when selecting their race, including applicants who stated they are of Hispanic or Latino background. As such, multiracial/ethnic students may be counted in multiple categories and a total percentage, across all groups, will not add up to 100%.

The CSU application started collecting multiracial/ethnic information as of Summer 2009.

Q & A





Contact Us

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