

Fall 2016

Undergraduate High Demand Science Student Characteristics

Fall quarter demographic profiles for degree-seeking undergraduates as compared to students enrolled in high demand sciences\*

Overview

Total Degree-seeking Undergraduates	3732
Subset High Demand Science Students	1086
% of students enrolled in HD	29%

Residency Status

		Number Percent	
WA Resident	All UG	2793	75%
	HD SCI	803	74%
Non-Resident	All UG	939	25%
	HD SCI	283	26%

Community College Transfer

		Number Percent	
CC Transfer Student	All UG	1486	40%
	HD SCI	418	38%
Not CC Transfer Student	All UG	2246	60%
	HD SCI	668	62%

First-Generation Baccalaureate

		Number Percent	
First-Generation	All UG	1133	30%
	HD SCI	302	28%
Not First-Generation	All UG	2599	70%
	HD SCI	784	72%

Age Group

		Number Percent	
Traditional Age (17-23)	All UG	2335	63%
	HD SCI	644	59%
Non-Traditional Age (24+)	All UG	1397	37%
	HD SCI	442	41%

Gender

		Number Percent	
Female	All UG	2113	57%
	HD SCI	546	50%
Male	All UG	1619	43%
	HD SCI	540	50%

Federal Poverty Status

		Number Percent	
Below Federal Poverty	All UG	1693	45%
	HD SCI	482	44%
Not Below Poverty or no FAFSA	All UG	2039	55%
	HD SCI	604	56%

Federal Low Income

		Number Percent	
(<=150% federal poverty level)			
Federal Low Income	All UG	1904	51%
	HD SCI	547	50%
Not Low Income or no FAFSA	All UG	1828	49%
	HD SCI	539	50%

Reported Disability

		Number Percent	
Reported Disability	All UG	421	11%
	HD SCI	119	11%
No Reported Disability	All UG	3311	89%
	HD SCI	967	89%

Race/Ethnicity (v.1 categories NOT mutually exclusive, multi-racial students captured in each category)

		Number Percent	
Hispanic/Latino	All UG	396	11%
	HD SCI	95	9%
African-American/Black	All UG	325	9%
	HD SCI	57	5%
American Indian/Alaskan Native	All UG	213	6%
	HD SCI	55	5%
Asian	All UG	249	7%
	HD SCI	69	6%
Pacific Islander/Native Hawaiian	All UG	49	1%
	HD SCI	15	1%
White	All UG	2959	79%
	HD SCI	907	84%
Not indicated	All UG	163	4%
	HD SCI	55	5%

Race/Ethnicity (v.2 Mutually exclusive categories)

		Number Percent	
Hispanic, of Any Race	All UG	396	11%
	HD SCI	95	9%
African-Amer/Black, Non-hispanic	All UG	185	5%
	HD SCI	31	3%
American Indian, Non-hispanic	All UG	76	2%
	HD SCI	18	2%
Asian, Non-hispanic	All UG	121	3%
	HD SCI	33	3%
Pacific Islander, Non-hispanic	All UG	12	0%
	HD SCI	3	0%
White, Non-hispanic	All UG	2482	67%
	HD SCI	774	71%
Multi-Racial, Non-hispanic	All UG	297	8%
	HD SCI	77	7%
Unknown Race/Ethnicity	All UG	163	4%
	HD SCI	55	5%

Students of Color

		Number Percent	
Students of Color	All UG	1087	29%
	HD SCI	257	24%
White/Non-Indicated Students	All UG	2645	71%
	HD SCI	829	76%

Veteran Status

		Number Percent	
Veteran	All UG	196	5%
	HD SCI	61	6%
Non-Veteran	All UG	3536	95%
	HD SCI	1025	94%

Average Entrance GPA

		GPA	Number
Average High School GPA	All UG	2.99	1941
	HD SCI	3.02	575
Average Prior College GPA	All UG	3.01	2303
	HD SCI	3.00	682

\*High demand Sciences as established May 2011 with passage of E2SB 1795: Agriculture/Natural Resources, Biology and Biomedical Sciences, Computer and Information Sciences, Engineering and Engineering Technologies, Health Professions and Clinical Sciences, Mathematics and Statistics, Physical Sciences and Technologies. Degree-seeking undergraduates enrolled in ANY high-demand science class in Fall 2015 are included in demographic analysis.

## Fall 2015 to Fall 2016 Retention Rates

Retention adjusted for graduation: all degree-seeking undergraduates compared to degree-seeking students enrolled in high-demand science\*

Retention comparison	UG	HD SCI
Number of Students enrolled Fall 15	3802	1082
Overall Retention to Fall 16	79%	<b>81%</b>
Nontraditional Age (24+)	78%	<b>80%</b>
Students of Color	77%	<b>79%</b>
Females	79%	<b>81%</b>
Males	76%	<b>81%</b>
First-Generation	<b>76%</b>	75%
Below Federal Poverty	78%	<b>81%</b>
Federal Low-Income	79%	<b>81%</b>
Reported Disability	79%	<b>80%</b>
Veteran	79%	<b>89%</b>

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### Highlights:

- In fall 2016, 29% of all degree-seeking undergraduates enrolled in at least one high-demand science offering.
- In fall 2016, high demand science enrolled a **lower** proportion of the following categories of students relative to the overall undergraduate enrollment:
  - Women
  - First-generation Baccalaureate
  - Students of color, especially Hispanic/Latinx and African-American/Black
- In fall 2016, high demand science enrolled a **higher** proportion of the following categories of students relative to the overall undergraduate enrollment:
  - Men
  - Non-traditional age
  - White, Non-Hispanic
- Fall-to-fall retention analysis of undergraduates enrolled the prior fall 2015 revealed that retention rates were higher for students enrolled in high demand science (81%) compared to the overall undergraduate retention (79%). Retention rates for students who were non-traditional age, students of color, women, men, below poverty, low income, and/or veterans were **higher** for students enrolled in high demand science curriculum, than undergraduates from those categories among the overall student body.