

Fall 2018

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	2962
Subset High Demand Science Students	1038
% of students enrolled in HD Science	35%

Residency Status

		Number	Percent
WA Resident	All UG	2413	81%
	HD SCI	828	80%
Non-Resident	All UG	549	19%
	HD SCI	210	20%

Community College Transfer

		Number	Percent
CC Transfer Student	All UG	1204	41%
	HD SCI	422	41%
Not CC Transfer Student	All UG	1758	59%
	HD SCI	616	59%

First-Generation Baccalaureate

		Number	Percent
First-Generation	All UG	875	30%
	HD SCI	309	30%
Not First-Generation	All UG	2087	70%
	HD SCI	729	70%

Age Group

		Number	Percent
Traditional Age (17-23)	All UG	1705	58%
	HD SCI	579	56%
Non-Traditional Age (24+)	All UG	1257	42%
	HD SCI	459	44%

Gender*

		Number	Percent
Female	All UG	1726	58%
	HD SCI	537	52%
Male	All UG	1236	42%
	HD SCI	501	48%

*Gender x <5 included with female

Federal Poverty Status

		Number	Percent
Below Federal Poverty	All UG	1406	47%
	HD SCI	475	46%
Not Below Poverty or no FAFSA	All UG	1556	53%
	HD SCI	563	54%

Federal Low Income

		Number	Percent
Federal Low Income	All UG	1590	54%
	HD SCI	544	52%
Not Low Income or no FAFSA	All UG	1372	46%
	HD SCI	494	48%

Reported Disability

		Number	Percent
Reported Disability	All UG	428	14%
	HD SCI	147	14%
No Reported Disability	All UG	2534	86%
	HD SCI	891	86%

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

		Number	Percent
Hispanic/Latino	All UG	351	12%
	HD SCI	113	11%
African-American/Black	All UG	261	9%
	HD SCI	45	4%
American Indian/Alaskan Native	All UG	188	6%
	HD SCI	55	5%
Asian	All UG	183	6%
	HD SCI	69	7%
Pacific Islander/Native Hawaiian	All UG	31	1%
	HD SCI	10	1%
White	All UG	2265	76%
	HD SCI	830	80%
Not indicated	All UG	147	5%
	HD SCI	66	6%

Race/Ethnicity (v.2 Mutually exclusive categories)

		Number	Percent
Hispanic, of Any Race	All UG	351	12%
	HD SCI	113	11%
African-Amer/Black, Non-hispanic	All UG	150	5%
	HD SCI	20	2%
American Indian, Non-hispanic	All UG	92	3%
	HD SCI	21	2%
Asian, Non-hispanic	All UG	82	3%
	HD SCI	33	3%
Pacific Islander, Non-hispanic	All UG	15	1%
	HD SCI	2	0%
White, Non-hispanic	All UG	1919	65%
	HD SCI	717	69%
Multi-Racial, Non-hispanic	All UG	206	7%
	HD SCI	66	6%
Unknown Race/Ethnicity	All UG	147	5%
	HD SCI	66	6%

Students of Color

		Number	Percent
Students of Color	All UG	896	30%
	HD SCI	255	25%
White/Non-Indicated Students	All UG	2066	70%
	HD SCI	783	75%

Veteran Status

		Number	Percent
Veteran	All UG	144	5%
	HD SCI	52	5%
Non-Veteran	All UG	2818	95%
	HD SCI	986	95%

Average Entrance GPA

		GPA	Number
Average High School GPA	All UG	3.03	1542
	HD SCI	3.07	528
Average Prior College GPA	All UG	3.01	1828
	HD SCI	2.99	654

*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 2018 are included in demographic analysis.

Fall 2017 to Fall 2018 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 17	3560	1105
Overall Retention to Fall 18	76%	77%
Nontraditional Age (24+)	76%	78%
Students of Color	74%	75%
Females	76%	79%
Males	75%	76%
First-Generation	76%	79%
Below Federal Poverty	77%	80%
Federal Low-Income	77%	80%
Reported Disability	73%	78%
Veteran	73%	74%

**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 retention analysis.*

Highlights:

- In fall 2018, 35% of all degree-seeking undergraduates enrolled in at least one high-demand science offering.
- In fall 2018, high demand science enrolled a **lower** proportion of the following categories of students relative to the overall undergraduate enrollment:
 - Women
 - Students of Color especially African-American/Black
 - Low Income
- In fall 2018, high demand science enrolled a **higher** proportion of the following categories of students relative to the overall undergraduate enrollment:
 - Men
 - White, Non-Hispanic
- Fall-to-fall retention analysis of undergraduates enrolled the prior fall 2017 revealed that retention rates were higher for students enrolled in high demand science (77%) compared to the overall undergraduate retention (76%). Retention rates for students who were non-traditional age, students of color, women, men, first-generation, below poverty, and/or low income were **higher** for students enrolled in high demand science curriculum, than undergraduates from those categories among the overall student body.