

This material is based upon work supported by the National Science Foundation under Grant No. 1060399. Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation (NSF).

UNDUPLICATED BIOCHEMISTRY STUDENT DEMOGRAPHICS

2015-16 Note: all recipients in final year are continuing students within NSF biochem program; no new cohort comparison group for 2015. Thus, there are no changes to the five-year unduplicated counts and demographics, compared to the four-year analysis, since all students at year 5 were already present in the earlier data.

DEMOGRAPHICS OF NSF BIOCHEM SCHOLARSHIP RECIPIENTS

	all recipients (11/12 through 15/16) - unduplicated
Number of students	49
Female	26
Male	23
% Female	53.1%
Hispanic/Latino	6
African-American, Non-Hispanic	0
Asian or Pacific Isl., Non-Hispanic	4
Hispanic	1
White, Non-Hispanic	33
Multi-Racial, Non-Hispanic	2
Not Indicated	3
% Students of Color	26.5%
Below Federal Poverty Level	46
Not Below Poverty	3
% Below Federal Poverty Level	93.9%
Federal Low Income (≤150% Fed Poverty Level)	47
Not Low Income	2
% Low Income	95.9%
Pell Grant Recipient	36
Not Pell Grant Recipient	13
% Pell Grant Recipients	73.5%
Reported Disability	8
None Reported	41
% Disability	16.3%
WA Resident	36
Non-resident	13
% WA Resident	73.5%
First-generation BA	16
Not First-generation BA	33
% First-generation	32.7%
Age Range	18-44
Nontraditional Age (24 or older)	21
Traditional Age (under 24 years)	28
% 24+ years old	42.9%
Veteran	1
Not a Veteran	48
% Veterans	2.0%

DEMOGRAPHICS of BIOCHEM COMPARISON STUDENTS*

	all comparison cohort students (11/12 to 14/15) - unduplicated
Number of students	822
Female	400
Male	422
% Female	48.7%
Hispanic/Latino	60
African-American, Non-Hispanic	13
Asian or Pacific Isl., Non-Hispanic	22
Hispanic	13
White, Non-Hispanic	577
Multi-Racial, Non-Hispanic	57
Not Indicated	80
% Students of Color	20.1%
Below Federal Poverty Level	514
Not Below Poverty	308
% Below Federal Poverty Level	62.5%
Federal Low Income (≤150% Fed Poverty Level)	538
Not Low Income	284
% Low Income	65.5%
Pell Grant Recipient	397
Not Pell Grant Recipient	425
% Pell Grant Recipients	48.3%
Reported Disability	81
None Reported	741
% Disability	9.9%
WA Resident	607
Non-resident	215
% WA Resident	73.8%
First-generation BA	244
Not First-generation BA	578
% First-generation	29.7%
Age Range	17-66
Nontraditional Age (24 or older)	314
Traditional Age (under 24 years)	508
% 24+ years old	38.2%
Veteran	39
Not a Veteran	783
% Veterans	4.7%

* demographics of all other students enrolled in the identified BioChem programs in the same fall quarter as each NSF scholarship cohort

Data note: This unduplicated multi-year analysis identifies students as low income, Pell grant recipients, first-generation baccalaureate, non-traditional age, veterans, or as reporting disability if they had one of these characteristics at any point during Evergreen undergraduate enrollment.

**EVERGREEN ENTRANCE CHARACTERISTICS OF
NSF BIOCHEM SCHOLARSHIP RECIPIENTS**

	all recipients (all five years) - unduplicated
Number of students	49
Admission Type	
First-time, First-year entrants	28
Community/Technical College transfer	14
Four-year college transfer	7
Other admission type	0
% Transfers	42.9%
Mean SAT Critical Reading	
Mean SAT Critical Reading	584
Range SAT Critical Reading	360 - 770
25th/75th percentile SAT Critical Reading	520 / 630
Mean SAT Math	
Mean SAT Math	567
Range SAT Math	330 - 680
25th/75th percentile SAT Math	530 / 610
Mean SAT Writing	
Mean SAT Writing	554
Range SAT Writing	380 - 720
25th/75th percentile SAT Writing	450 / 610
Mean High School GPA	
Mean High School GPA	3.23
Range High School GPA	1.70 - 3.93
25th/75th percentile HS GPA	2.63 / 3.74
Mean Prior College GPA	
Mean Prior College GPA	3.23
Range Prior College GPA	0.52 - 4.00
25th/75th percentile Prior College GPA	3.00 / 3.82

**EVERGREEN ENTRANCE CHARACTERISTICS OF
BIOCHEM COMPARISON STUDENTS***

	all comparison cohort students - unduplicated
Number of students	822
Admission Type	
First-time, First-year entrants	375
Community/Technical College transfer	299
Four-year college transfer	106
Other admission type	42
% Transfers	49.3%
Mean SAT Critical Reading	
Mean SAT Critical Reading	580
Range SAT Critical Reading	290 - 800
25th/75th percentile SAT Critical Reading	510 / 650
Mean SAT Math	
Mean SAT Math	542
Range SAT Math	250 - 800
25th/75th percentile SAT Math	480 / 600
Mean SAT Writing	
Mean SAT Writing	535
Range SAT Writing	280 - 800
25th/75th percentile SAT Writing	470 / 600
Mean High School GPA	
Mean High School GPA	3.03
Range High School GPA	0.85 - 4.00
25th/75th percentile HS GPA	2.62 / 3.45
Mean Prior College GPA	
Mean Prior College GPA	3.05
Range Prior College GPA	0.00 - 4.00
25th/75th percentile Prior College GPA	2.64 / 3.59

** demographics of all other students enrolled in the identified BioChem programs in the same fall quarter as each NSF scholarship cohort*

ANNUAL BIOCHEMISTRY STUDENT DEMOGRAPHICS

FALL QUARTER DATA

DEMOGRAPHICS OF NSF BIOCHEM SCHOLARSHIP RECIPIENTS (Grant 2)

	all 2011 recipients	all 2012 recipients	all 2013 recipients	all 2014 recipients	all 2015 recipients**
Number of students	15	20	20	24	12
Female	10	13	12	14	3
Male	5	7	8	10	9
% Female	66.7%	65.0%	60.0%	58.3%	25.0%
Hispanic/Latino, of any race	2	2	4	1	1
African-American, Non-Hispanic	0	0	0	0	0
Asian or Pacific Isl., Non-Hispanic	1	1	2	3	1
American Indian/Alaskan Native, Non-Hispanic	0	0	1	0	0
White, Non-Hispanic	9	14	10	19	10
Multi-Racial, Non-Hispanic	1	1	2	1	0
Not Indicated	2	2	1	0	0
% Students of Color	26.7%	20.0%	45.0%	20.8%	16.7%
Below Federal Poverty	11	11	11	16	12
Not Below Poverty	4	9	9	8	0
% Below Federal Poverty Level	73.3%	55.0%	55.0%	66.7%	100.0%
Federal Low Income (≤150% Fed Poverty Level)	12	16	12	18	12
Not Low Income	3	4	8	6	0
% Low Income	80.0%	80.0%	60.0%	75.0%	100.0%
Pell Grant Recipient	11	14	13	17	10
Not Pell Grant Recipient	4	6	7	7	2
% Pell Grant Recipients	73.3%	70.0%	65.0%	70.8%	83.3%
Reported Disability	3	4	2	1	2
None Reported	12	16	18	23	10
% Disability	20.0%	20.0%	10.0%	4.2%	16.7%
WA Resident	10	15	14	20	11
Non-resident	5	5	6	4	1
% WA Resident	66.7%	75.0%	70.0%	83.3%	91.7%
First-generation BA	5	6	4	9	6
Not First-generation BA	10	14	16	15	6
% First-generation	33.3%	30.0%	20.0%	37.5%	50.0%
Age Range	18-43	18-44	18-28	19-41	20-42
Nontraditional Age (24 or older)	6	6	2	8	6
Traditional Age (under 24 years)	9	14	18	16	6
% 24+ years old	40.0%	30.0%	10.0%	33.3%	50.0%
Veteran	1	1	0	0	0
Not a Veteran	14	19	20	24	12
% Veterans	6.7%	5.0%	0.0%	0.0%	0.0%

**Note: all 2015 recipients are continuing students within NSF biochem program; no new cohort comparison group for 2015

FALL QUARTER DATA

DEMOGRAPHICS OF BIOCHEM COMPARISON STUDENTS*

	Comparison Group 2011	Comparison Group 2012	Comparison Group 2013	Comparison Group 2014
Number of students	253	233	236	291
Female	110	102	103	158
Male	143	131	133	133
% Female	43.5%	43.8%	43.6%	54.3%
Hispanic/Latino, of any race	14	11	19	23
African-American, Non-Hispanic	2	3	4	7
Asian or Pacific Isl., Non-Hispanic	6	5	4	11
American Indian/Alaskan Native, Non-Hispanic	4	2	5	4
White, Non-Hispanic	181	183	168	193
Multi-Racial, Non-Hispanic	22	9	18	24
Not Indicated	24	20	18	29
% Students of Color	19.0%	12.9%	21.2%	23.7%
Below Federal Poverty	93	77	100	131
Not Below Poverty	160	156	136	160
% Below Federal Poverty Level	36.8%	33.0%	42.4%	45.0%
Federal Low Income (≤150% Fed Poverty Level)	102	94	119	145
Not Low Income	151	139	117	146
% Low Income	40.3%	40.3%	50.4%	49.8%
Pell Grant Recipient	96	93	111	137
Not Pell Grant Recipient	157	140	125	154
% Pell Grant Recipients	37.9%	39.9%	47.0%	47.1%
Reported Disability	20	23	11	25
None Reported	233	210	225	266
% Disability	7.9%	9.9%	4.7%	8.6%
WA Resident	181	170	182	220
Non-resident	72	63	54	71
% WA Resident	71.5%	73.0%	77.1%	75.6%
First-generation BA	65	49	75	90
Not First-generation BA	188	184	161	201
% First-generation	25.7%	21.0%	31.8%	30.9%
Age Range	17-59	17-49	17-59	17-66
Nontraditional Age (24 or older)	84	77	80	102
Traditional Age (under 24 years)	169	156	156	189
% 24+ years old	33.2%	33.0%	33.9%	35.1%
Veteran	10	11	13	14
Not a Veteran	243	222	223	277
% Veterans	4.0%	4.7%	5.5%	4.8%

* demographics of all other non-scholarship students enrolled in BioChem programs in the same fall quarter as each NSF scholarship cohort

AY 2015-16 UPDATE - FINAL STATUS AS OF 22 August 2016

Overall Assessment of Persistence and Graduation of BIOCHEM SCHOLARSHIP COHORTS

In this summary analysis, each cohort member has only one current outcome assigned. All outcomes refer to the cohort member status as of THE END OF SPRING QUARTER 2016. Students who are still enrolled at Evergreen in BioChem are captured as persisting in BioChem. Other continuing students are captured as "Other STEM" or "Non-STEM". Students who had completed degrees by the end of Spring 2016 are captured as BS or BA completers. Cohort members who were no longer enrolled at Evergreen in Spring 2016 (for reasons other than graduation) are captured as "Left Evergreen." Scholarship recipients are tracked in only one cohort representing the first year they received the scholarship.

Cohort Fall Quarter	Starting number in cohort	Persisting in BioChem	Persisting in Other STEM	Persisting Non-STEM	Completed Bachelor of Science	Completed Bachelor of Arts	Left Evergreen	BioChemistry success	STEM success	Evergreen success
								% of original cohort who are persisting in BioChemistry or have already completed Bachelor of Science degree	% of original cohort who are persisting in ANY STEM or have already completed Bachelor of Science degree	% of original cohort who are persisting at Evergreen or have already completed BS or BA degree
2011	15	0	0	0	14	1	0	93%	93%	100%
2012	10	0	0	0	9	0	1	90%	90%	90%
2013	11	0	2	0	7	0	2	64%	82%	82%
2014	13	5	0	1	6	0	1	85%	85%	92%
Totals cohorts 2011-2014	49	5	2	1	36	1	4	84%	88%	92%
2011-2014	100.0%	10.2%	4.1%	2.0%	73.5%	2.0%	8.2%	weighted average	weighted average	weighted average

Overall Assessment of Persistence and Graduation of BIOCHEMISTRY COMPARISON GROUPS

In this summary analysis, each cohort member has only one current outcome assigned. All outcomes refer to the cohort member status as of THE END OF SPRING QUARTER 2016. Students who are still enrolled at Evergreen in BioChem are captured as persisting in BioChem. Other continuing students are captured as "Other STEM" or "Non-STEM". Students who had already completed degrees by the end of Spring 2016 are captured as BS or BA completers. Cohort members who were no longer enrolled at Evergreen in Spring 2016 (for reasons other than graduation) are captured as "Left Evergreen." Each comparison group student is assigned to only one cohort representing the 1st fall quarter that they were appeared in the BioChem dataset.

Cohort Fall Quarter	Starting number in cohort	Persisting in BioChem	Persisting in Other STEM	Persisting Non-STEM	Completed Bachelor of Science	Completed Bachelor of Arts	Left Evergreen	BioChemistry success	STEM success	Evergreen success
								% of original cohort who are persisting in BioChemistry or have already completed Bachelor of Science degree	% of original cohort who are persisting in ANY STEM or have already completed Bachelor of Science degree	% of original cohort who are persisting at Evergreen or have already completed BS or BA degree
2011	253	0	4	0	137	46	66	54%	56%	74%
2012	172	2	1	3	91	33	42	54%	55%	76%
2013	191	15	22	9	62	24	59	40%	52%	69%
2014	206	29	24	27	57	17	52	42%	53%	75%
Totals cohorts 2011-2014	822	46	51	39	347	120	219	48%	54%	73%
2011-2014	100.0%	5.6%	6.2%	4.7%	42.2%	14.6%	26.6%	weighted average	weighted average	weighted average

Graduation Outcomes of Scholarship Recipients

Scholarship recipients are captured in only one cohort representing the 1st year of their award.

Degree awards through Spring quarter 2016 (current as of 8/24/16)

Cohort Fall Quarter	Starting number in cohort	Total who have completed Bachelor of Arts (BA)	Total who have completed Bachelor of Science (BS or BAS)	% who have earned their degree	% of degree awards in Science	
2011	15	1	14	100.0%	93.3%	
2012	10	0	9	90.0%	100.0%	
2013	11	0	7	63.6%	100.0%	
2014	13	0	6	46.2%	100.0%	
Totals	49	1	36	75.5%	97.3%	<i>weighted average</i>

Graduation Outcomes of Biochemistry Comparison Groups

Comparison students are captured in only one cohort representing the 1st year in the comparison group.

Degree awards through Spring quarter 2016 (current as of 8/24/16)

Cohort Fall Quarter	Starting number in cohort	Total who have completed Bachelor of Arts (BA)	Total who have completed Bachelor of Science (BS or BAS)	% who have earned their degree	% of degree awards in Science	
2011	253	46	137	72.3%	74.9%	
2012	172	33	91	72.1%	73.4%	
2013	191	24	62	45.0%	72.1%	
2014	206	17	57	35.9%	77.0%	
Totals	822	120	347	56.8%	74.3%	<i>weighted average</i>

Summary Comparative Outcomes: Weighted Averages for All Five Grant Years

Final status as of the end of Spring quarter 2016

	Persisting in BioChemistry	Persisting in Other STEM	Persisting in Non-STEM	Completed Bachelor of Science (or dual BS/BA)	Completed Bachelor of Arts	Left Evergreen
NSF Scholarship Recipients	10%	4%	2%	73%	2%	8%
Comparison Cohorts	6%	6%	5%	42%	15%	27%

Overall success metrics

	BioChemistry success	STEM success	Evergreen success
	% persisting in BioChemistry or have already completed Bachelor of Science degree	% persisting in ANY STEM or have already completed Bachelor of Science degree	% persisting at Evergreen or have already completed BS or BA degree
NSF Scholarship Recipients	84%	88%	92%
Comparison Cohorts	48%	54%	73%