

To: Kathleen Armstrong, Chemistry Instructor

From: Mallory Newell, Interim Executive Director, FHDA Institutional Research and Planning

Subject: End-of-Year Report for NSF S-STEM Scholarship Program

Foothill College Chemistry Department requested a list of data to complete their end-of-year report for the National Science Foundation, S-STEM Scholarship Program. The questions they posed and responses are included below.

1. Number of full-time students in transfer level STEM courses – Biology (BIOL), Computer Science (C S), Chemistry (CHEM), Engineering (ENGR), Mathematics (MATH) and Physics (PHYS).

	2013-14
	<u>Students</u>
BIOL	1,171
C S	728
CHEM	1,072
ENGR	176
MATH	2,662
PHYS	514
Total	6,323

Note: Full-time = 12 or more units attempted. Transfer level courses are course numbers between 1 and 99. Includes individual students, not course enrollment. Includes students who received a final grade.

2. Average GPA of students in at least 2 STEM Courses in 2013-2014- Biology (BIOL), Computer Science (C S), Chemistry (CHEM), Engineering (ENGR), Mathematics (MATH) and Physics (PHYS) – Excluding basic skills

9,439 students were enrolled in STEM courses in 2013-14, of these student 4,886 were enrolled in 2 or more STEM courses.

Average GPA = 3.04

Note: Includes course numbers between 1 and 199, excludes 200 level courses. Cumulative GPA for students enrolled in STEM courses in 2013-14. Includes students who received a final grade.

3. Average GPA of students who declared a STEM major in 2013-14 – General Studies: Science, Chemistry, Mathematics, Mathematics for Transfer, Physics, Computer Science, Biological Sciences, Engineering

2,876 students declared a STEM major in 2013-14

Average GPA = 2.48

Note: Cumulative GPA for students enrolled in STEM courses in 2013-14. Includes students' primary declared major.

Non STEM Majors:

28,303 students declared a major other than STEM in 2013-14

Average GPA = 2.14

4. Transfer rates of STEM Majors who were enrolled in 2012-13.

1,424 students declared a STEM major in 2012-13, of these students, 996 student records were matched to enrollment at a 2- or 4-year college. Of the 996 students with a record, 364 (37%) of these students transferred to a four-year university by summer 2014.

Note: To calculate transfer rates, students would have to have been enrolled the previous year, if enrolled in 2013-14 and transfer, their transfer rates would not show up until late September.

5. Number of STEM Majors who have a degree previously in 2013-14.

Of the 2,876 students who declared a STEM major in 2013-14, 613 (21%) have received an AA/AS, BA/BS or graduate degree previously.

6. Average number of years for STEM majors for students who completed a degree in 2013-14.

Of the 1,424 students who declared a STEM major in 2012-13, 63 received a degree/certificate in 2012-13. Of these students, on average, it took them 2.6 years to complete the degree/certificate.

Note: To calculate completion rates, students would have to have been enrolled the previous year, if enrolled in 2013-14 and obtained a degree, their degree would not show up in the system until late September.

List of Colleges in Which STEM Majors in 2012-13 Transferred

	Students
ACADEMY OF ART UNIVERSITY	1
ARGOSY UNIVERSITY- SALT LAKE CTY	1
ARIZONA STATE UNIVERSITY	4
AUGSBURG COLLEGE	1
AUGUSTANA COLLEGE	1
AZUSA PACIFIC UNIVERSITY	1
BASTYR UNIVERSITY	1
BIOLA UNIVERSITY	2
BOSTON COLLEGE	1
BOWLING GREEN STATE UNIVERSITY	1
BRANDEIS UNIVERSITY	1
CALIFORNIA BAPTIST UNIVERSITY -UNDERGRADS	1
CALIFORNIA POLYTECHNIC STATE UNIVERSITY	15
CALIFORNIA STATE POLYTECHNIC	2
CALIFORNIA STATE UNIVERSITY - BAKERSFIELD	2
CALIFORNIA STATE UNIVERSITY - CHICO	4
CALIFORNIA STATE UNIVERSITY - DOMINGUEZ HILLS	1
CALIFORNIA STATE UNIVERSITY - EAST BAY	14
CALIFORNIA STATE UNIVERSITY - FULLERTON	1
CALIFORNIA STATE UNIVERSITY - LONG BEACH	2
CALIFORNIA STATE UNIVERSITY - LOS ANGELES	2
CALIFORNIA STATE UNIVERSITY - MONTEREY BAY	1
CALIFORNIA STATE UNIVERSITY - NORTHRIDGE	3
CALIFORNIA STATE UNIVERSITY - SACRAMENTO	2
CALIFORNIA STATE UNIVERSITY - SAN BERNARDINO	1
CALIFORNIA STATE UNIVERSITY - SAN MARCOS	1
CHAPMAN UNIVERSITY-ORANGE	3
COGSWELL POLYTECHNICAL COLLEGE	1
COLLEGE OF SOUTHERN NEVADA	3
COLORADO SCHOOL OF MINES	1
CONCORDIA UNIVERSITY-PORTLAND	1
CUNY LEHMAN COLLEGE	1
CURRY COLLEGE	1
DEVRY UNIVERSITY	1
DOMINICAN UNIVERSITY OF CALIFORNIA	1
EAST CENTRAL UNIVERSITY	1
GOLDEN GATE UNIVERSITY	1
GONZAGA UNIVERSITY	1
GRAND CANYON UNIVERSITY	1
HARVARD GRADUATE SCHOOL OF EDUCATION	1

HARVARD UNIVERSITY	1
HOWARD UNIVERSITY	1
HUMBOLDT STATE UNIVERSITY	1
IDAHO STATE UNIVERSITY	1
KAPLAN UNIVERSITY	1
LA SIERRA UNIVERSITY	1
LEWIS & CLARK COLLEGE OF ARTS & SCIENCES	1
LOYOLA MARYMOUNT UNIVERSITY	1
MARIAN UNIVERSITY	1
MIAMI DADE COLLEGE	1
MOUNT HOLYOKE COLLEGE	1
NATIONAL UNIVERSITY	3
NEW YORK INSTITUTE OF TECHNOLOGY- OLD WESTBUR	1
NEW YORK UNIVERSITY	1
NORTHEASTERN UNIVERSITY	1
NORTHEASTERN UNIVERSITY - LAW/SPCS	1
NOTRE DAME DE NAMUR UNIVERSITY	7
OREGON INSTITUTE OF TECHNOLOGY	1
OREGON STATE UNIVERSITY	1
PACIFIC UNION COLLEGE	6
PALMER COLLEGE OF CHIROPRACTIC - WEST CAMPUS	1
PORTLAND STATE UNIVERSITY	1
PURDUE UNIVERSITY - WEST LAFAYETTE	1
REGIS UNIVERSITY-SEMESTERS	1
RENSSELAER POLYTECHNIC INSTITUTE	2
SAMUEL MERRITT CLG-ABSN	2
SAMUEL MERRITT UNIVERSITY	1
SAMUEL MERRITT- BSN	1
SAN DIEGO STATE UNIVERSITY	4
SAN FRANCISCO STATE UNIVERSITY	22
SAN JOSE STATE UNIVERSITY	43
SANTA CLARA UNIVERSITY	6
SONOMA STATE UNIVERSITY	1
SOUTH DAKOTA STATE UNIVERSITY	1
SOUTHEAST MISSOURI STATE UNIVERSITY	1
SOUTHERN CALIFORNIA UNIVERSITY OF HEALTH SCIEN	1
SOUTHERN NEW HAMPSHIRE- 11WEEK GRAD	1
ST MARY'S COLLEGE OF CALIFORNIA	2
ST MARY'S UNIV--MINNEAPOLIS	1

STANFORD UNIVERSITY	2
STEVENS INSTITUTE OF TECHNOLOGY	1
TEXAS CHRISTIAN UNIVERSITY	1
THE OHIO STATE UNIVERSITY	1
THOMAS EDISON STATE COLLEGE	1
UNIVERSITY OF ALASKA - ANCHORAGE	1
UNIVERSITY OF ARIZONA	3
UNIVERSITY OF BRIDGEPORT	1
UNIVERSITY OF CALIFORNIA - BERKELEY	33
UNIVERSITY OF CALIFORNIA - IRVINE	5
UNIVERSITY OF CALIFORNIA - RIVERSIDE	4
UNIVERSITY OF CALIFORNIA-DAVIS	32
UNIVERSITY OF CALIFORNIA-LOS ANGELES	11
UNIVERSITY OF CALIFORNIA-SAN DIEGO	20
UNIVERSITY OF CALIFORNIA-SAN FRANCISCO	2
UNIVERSITY OF CALIFORNIA-SANTA BARBARA	5
UNIVERSITY OF CALIFORNIA-SANTA CRUZ	16
UNIVERSITY OF CINCINNATI	1
UNIVERSITY OF FLORIDA	1
UNIVERSITY OF ILLINOIS @ URBANA	1
UNIVERSITY OF MAINE, FT KENT	1
UNIVERSITY OF MARYLAND - COLLEGE PARK	1
UNIVERSITY OF MARYLAND - UNIVERSITY COLLEGE	2
UNIVERSITY OF NEVADA-RENO	2
UNIVERSITY OF NEW ENGLAND	1
UNIVERSITY OF NORTHERN IOWA	1
UNIVERSITY OF OREGON	5
UNIVERSITY OF PHOENIX	5
UNIVERSITY OF ROCHESTER	1
UNIVERSITY OF SAN FRANCISCO	4
UNIVERSITY OF SOUTHERN CALIFORNIA	5
UNIVERSITY OF SOUTHERN MAINE	1
UNIVERSITY OF THE PACIFIC	1
UNIVERSITY OF THE PACIFIC - ENG COOP	1
UNIVERSITY OF THE PACIFIC DENTAL HYGIENE	1
UNIVERSITY OF THE PACIFIC ORG BEH	1
UNIVERSITY OF TOLEDO	1
UNIVERSITY OF WEST ALABAMA	1
VANGUARD UNIVERSITY OF SOUTHERN CALIFORNIA	2
WALDEN UNIVERSITY	1
Total	391
Note: Includes students who may be enrolled at more than 1 college.	
Includes 364 unique students.	