De Anza College Office of Institutional Research and Planning

To: AB 705 Committee

From: Mallory Newell, De Anza Researcher

Date: 12/4/2018

Subject: Analysis of Placement and Enrollment for Fall 2018

This analysis compares placements and enrollment into EWRT and Math courses in fall 2017 and fall 2018. Overall rates as well as those disaggregated by ethnicity and gender are included. Disproportionate impacts are also included – a comparison of the proportion of a group of students placed/enrolled compared to their proportion of the total student population.

Summary of Results

Table I. Change in Placements and Enrollments

Fall 2017 to Fall 2018							
	Placement	Enrollment					
EWRTIA	+10%	+18%					
MATH41		+5%					
MATH10	+30%	+25%					

Math 10 and 41 placements were combined in fall 2017. EWRT1A enrollment includes LART250 in fall 2018.

- Access via placement into transfer level courses increased from term to term.
 - A 10 percentage point increase for EWRT1A and a 30 percentage point increase for MATH10.
- Enrollment into transfer level courses increased from term to term.
 - An 18 percentage point increase for EWRT1A and a 25 percentage point increase for Math10.

Table 2. Disproportionate Impacts by Placement and Enrollment

		Placeme	ent	Enrollment		
		Fall 2017	Fall 2018	Fall 2017	Fall 2018	
EWRTIA	African American	0%	0%	0%	0%	
	Filipinx	+2%	+1%	+2%	+2%	
	Latinx	-7%	+2%	-2%	+3%	
MATH41	African American			-2%	-2%	
	Filipinx			-6%	-6%	
	Latinx			-21%	-20%	
MATHI0	African American	-1%	+2%	0%	0%	
	Filipinx	-1%	-1%	+1%	+2%	
	Latinx	-16%	-1%	-1%	+7%	

Note: Placement into Math10 and Math11 was combined in fall 2017. Refer to table 7 for proportion of ethnic groups.

- Placement into transfer level courses increased for our targeted student groups, increasing their access to these courses and significantly reducing disproportionate impacts for some groups.
 - Disproportionate impacts for Latinx students placing into EWRT1A improved from -7% to +2%.
 - Disproportionate impacts for African American students placing into MATH10 improved from -1% to +2% and for Latinx students from -16% to -1%.
- Enrollment into transfer level courses increased for our targeted populations as well.
 - Disproportionate impacts for Latinx students enrolling in EWRT1A improved from -2% to +3%.
 - Disproportionate impacts for Latinx students enrolling in MATH10 improved from -1% to +7%.
 - Disproportionate impacts for all ethnic groups enrolling in MATH41 did not improve.

Results

Placement.

Table 3. EWRT Placements

	Fall 20	17	Fall 20	18	%-Point Change	
Placement	Count	%	Count	%	#	%
EWRTIA	1,307	61%	4,759	71%	3,452	10%
EWRT211	700	33%	1,797	27%	1,097	-6%
EWRT200	121	6%	144	2%	23	-4%
Total	2,128	100%	6,700	100%	4,572	0%

Placement test taken between 3/1 and 10/9.

- Placement directly into EWRT1A increased from 61% of all placements to 71%, a 10 percentage point increase.
- Placements into EWRT211 decreased from 33% to 27%.
- Placements into EWRT200 decreased from 6% to 2%.

Table 4. Math Placements

	Fall 20	17	Fall 20	18	%-Point C	hange
Placement	Count	%	Count	%	#	%
MATH41			1,815	28%	1,815	28%
MATHI0*	466	18%	3,128	48%	2,662	30%
MATHII4	632	25%	425	7%	(207)	-18%
MATH212	847	33%	816	13%	(31)	-21%
MATH210	586	23%	302	5%	(284)	-18%
Total	2,531	100%	6,486	100%	3,955	0%

Note: Placement into Math10 and Math11 was combined in fall 2017. Placement test taken between 3/1 and 10/9.

- Fall 2018 was the first time students were placed directly into MATH41. In this term, 28% of all placements were into MATH41.
- Placement into MATH10 increased 30 percentage points from 18% of all placements to 48%.
- Placement into MATH114 decreased 18 percentage points, MATH212 by 21 percentage points, and MATH210 by 18 percentage points.

Enrollment.

Table 5. EWRT Enrollment

	Fall 20	17	Fall 20	18	Chang	ge
Enrollment	Count	%	Count	%	#	%
EWRTIA	1,514	54%	1,930	72%	416	18%
EWRT211	1,027	37%	620	23%	(407)	-14%
EWRT200	260	9%	139	5%	(121)	-4%
Total	2,801	100%	2,689	100%	(112)	0%

- The number of students who enrolled into EWRT1A in fall 2018 increased 18 percentage points from 54% of all enrollments to 72% of all enrollments.
 - Overall enrollments in EWRT courses was flat.

Table 6. Math Enrollment

	Fall 2017		Fall 20	810	Change	
Enrollment	Count	%	Count	%	#	%
MATH4I	746	16%	776	22%	30	5%
MATHI0	1,038	22%	1,780	49%	742	27%
MATHII4	1,074	23%	705	20%	(369)	-4%
MATH210	1,206	26%	226	6%	(980)	-20%
MATH212	555	12%	115	3%	(440)	-9%
Total	4,619	100%	3,602	100%	(1,017)	-22%

- Enrollment in MATH41(Pre-Calculus) increased 5 percentage points from 16% to 22% based on the courses eligible under AB 705 for fall 2018.
- Enrollment into MATH10 (Statistics) increased 25 percentage points from 22% to 47% of total course enrollment.
 - Overall enrollments in Math courses decreased 20%.

Disproportionate Impacts

The state Chancellor's Office has been monitoring through the Equity plan and will continue to monitor via AB 705 and AB 1805 disproportionate rates of students placing and enrolling into transfer-level courses. A disproportionate impact is considered to be present if the percent of students eligible to enroll in the transfer-level course is lower or higher than their proportion of total enrollment at the college. For example, De Anza enrolls on average 27% Latinx students, therefore, in order for there to be no disproportionate impacts around placement, around 27% of Latinx students should be placed into transfer level courses, making them eligible to enroll. If that is not the case, the college is required to investigate their practices and make necessary changes. Disproportionate impacts also apply to throughput rates. Table 7 below displays the proportion of students by ethnic group from term to term.

Table 7. Ethnic Distribution Across Terms

	Fall 201	17	Fall 2018		
	Count	%	Count	%	
African American	891	4%	769	4%	
Asian	8,165	39%	7,994	41%	
Filipinx	1,469	7%	1,322	7%	
Latinx	5,746	28%	5,334	27%	
Native American	111	1%	84	0%	
Pacific Islander	167	1%	133	۱%	
White	3,968	19%	3,688	19%	
Decline to State	277	1%	282	1%	
Total	20,794	100%	19,606	100%	

Placement by Ethnicity.

Table 8. EWRTIA Placement by Ethnicity

EWRTIA	Fall 2017		Fall 20	Fall 2018		%-Point Change	
Placement	Count	%	Count	%	#	%	
African American	50	4%	196	4%	146	0%	
Asian	550	42%	1,874	39%	1,324	-3%	
Filipinx	119	9%	359	8%	240	-2%	
Latinx	278	21%	1,393	29%	1,115	8%	
Native American	8	1%	19	0%	11	0%	
Pacific Islander	13	1%	35	۱%	22	0%	
White	277	21%	853	18%	576	-3%	
Decline to State	12	1%	30	1%	18	0%	
Total	1,307	100%	4,759	100%	3,452	0%	

- When looking at access to transfer-level EWRT1A via placement, Latinx students
 eligible to enroll in EWRT1A increased 8 percentage points from 21% eligible to 29%,
 removing any disproportionate impacts around placement into EWRT1A.
 - Filipinx enrollment as a percent of total decreased from 9% to 8% though the volume of students increased from 119 to 359.
 - African American student placement increased from 50 to 196, though their percent of the total population remained the same.

Table 9. MATH 10 Placement/Eligibility by Ethnicity

MATHI0	Fall 20	17	Fall 20	18	%-Point Change	
Placement/Eligible	Count	%	Count	%	#	%
African American	13	3%	173	6%	160	3%
Asian	278	60%	1154	37%	876	-23%
Filipinx	27	6%	191	6%	164	0%
Latinx	56	12%	844	27%	788	15%
Native American	-	0%	15	0%	15	0%
Pacific Islander	3	1%	17	1%	14	0%
White	78	17%	692	22%	614	5%
Decline to State	11	2%	42	1%	31	-1%
Total	466	100%	3,128	100%	2,662	0%

In fall 2018, MATH 10 become open access, therefore, any student who enrolled in a basic skills math course or placed into basic skills math in the past year was given a MATH10 placement and notified of their eligibility.

- Access to transfer level MATH10 for Latinx students increased 15 percentage points from 12% eligible to 27%, removing any disproportionate impacts for Latinx students. Further, the total volume of Latinx students eligible for MATH10 increased from 56 to 844, an increase of 788 students.
 - African American students eligible for MATH10 increased 3 percentage points from 3% to 6%, again removing any disproportionate impacts for this population.
 - As a percent of total enrollment, Filipinx and Pacific Islander placement into MATH10 remained the same from term to term with no disproportionate impacts present, however, their total placement into MATH10 increased from 13 to 173 for African American students and from 27 to 191 for Filipinx students.

Enrollment by Ethnicity.

Table 10. EWRTIA Enrollment by Ethnicity

EWRTIA	Fall 20	17	Fall 20	Fall 2018		%-Point Change	
Enrollment	Count	%	Count	%	#	%	
African American	60	4%	67	3%	7	0%	
Asian	604	40%	816	42%	212	2%	
Filipinx	129	9%	177	9%	48	1%	
Latinx	398	26%	560	29%	162	3%	
Native American	6	0%	6	0%	-	0%	
Pacific Islander	16	1%	12	1%	(4)	0%	
White	283	19%	276	14%	(7)	-4%	
Decline to State	18	1%	16	1%	(2)	0%	
Total	1,514	100%	1,930	100%	416	0%	

- Enrollment into EWRT1A for Latinx students increased 3 percentage points from 26% to 29% with a total increase of 162 additional Latinx students eligible.
- African American and Filipinx enrollment as a percent of total remained the same though the volume of students increased, 7 and 48 students respectively.

Table 11. MATH41 Enrollment by Ethnicity

MATH4I	Fall 2017		Fall 20	Fall 2018		%-Point Change	
Enrollment	Count	%	Count	%	#	%	
African American	16	2%	18	2%	2	0%	
Asian	368	49%	376	48%	8	-1%	
Filipinx	П	1%	4	1%	(7)	-1%	
Latinx	51	7%	55	7%	4	0%	
Native American	174	23%	181	23%	7	0%	
Pacific Islander	5	1%	I	0%	(4)	-1%	
White	4	1%	4	1%	-	0%	
Decline to State	117	16%	137	18%	20	2%	
Total	746	100%	776	100%	30	0%	

• Enrollment into MATH41 remained similar from term to term across all ethnic groups and disproportionate impacts remained.

Table 12. MATH10 Enrollment by Ethnicity

MATHI0	Fall 20	17	Fall 2018		%-Point Change	
Enrollment	Count	%	Count	%	#	%
African American	39	4%	77	4%	38	1%
Asian	474	46%	655	37%	181	-9%
Filipinx	84	8%	152	9%	68	0%
Latinx	279	27%	613	34%	334	8%
Native American	3	0%	7	0%	4	0%
Pacific Islander	7	1%	12	1%	5	0%
White	139	13%	249	14%	110	1%
Decline to State	13	1%	15	1%	2	0%
Total	1,038	100%	1,780	100%	742	0%

• Enrollment into MATH10 increased substantially for Latinx students from 27% of the total MATH10 population to 34%, an 8 percentage point increase and an increase of 334 total students.

Placement by Gender.

Each term, De Anza enrolls around 50% female and 50% male students.

Table 13. EWRT1A Placement by Gender

EWRTIA	Fall 2017 Fall 2018		18	%-Point Change		
Placement	Count	%	Count	%	#	%
Female	559	43%	2,297	48%	1,738	5%
Male	734	56%	2,416	51%	1,682	-5%
Unreported	14	1%	46	1%	32	0%
Total	1,307	100%	4,759	100%	3,452	

• Enrollment into EWRT1A for female students increased 5 percentage points from 43% to 48%.

Table 14. MATH10 Placement by Gender

MATHI0	Fall 20	Fall 2017		Fall 2018		%-Point Change	
Placement	Count	%	Count	%	#	%	
Female	200	43%	1,585	51%	1,385	8%	
Male	258	55%	1,505	48%	1,247	-7%	
Unreported	8	2%	38	1%	30	-1%	
Total	466	100%	3,128	100%	2,662	0%	

• Placement into MATH10 for female students increased significantly form 43% of the total MATH10 population to 51%, removing any disproportionate impacts. \

Enrollments by Gender.

Table 15. EWRT1A Enrollment by Gender

EWRTIA	Fall 20	17	Fall 2018		%-Point Change	
Enrollment	Count	%	Count	%	#	%
Female	653	43%	912	47%	259	4%
Male	849	56%	1,003	52%	154	-4%
Unreported	12	1%	15	1%	3	0%
Total	1,514	100%	1,930	100%	416	0%

• Enrollment into EWRT1A for female students increased 4 percentage points from 43% to 47%, reducing disproportionate impacts for this group.

Table 16. MATH41 Enrollment by Gender

MATH41	Fall 20	17	Fall 2018		%-Point Change	
Enrollment	Count	%	Count	%	#	%
Female	290	39%	295	38%	5	-0.9%
Male	448	60%	477	61%	29	1.4%
Unreported	8	1%	4	1%	(4)	-0.6%
Total	746	100%	776	100%	30	0%

• Disproportionate impacts for female students enrolled in MATH41 remained form term to term.

Table 17. MATH 10 Enrollment by Gender

MATH10	Fall 20)17	Fall 2018		%-Point Change	
Enrollment	Count	%	Count	%	#	%
Female	530	51%	918	52%	388	0.5%
Male	501	48%	855	48%	354	-0.2%
Unreported	7	1%	7	0%	-	-0.3%
Total	1,038	100%	1,780	100%	742	0.0%

 MATH10 enrollment remained rather consistent across gender groups and no disproportionate impacts occurred in either term.

Background Information

In fall 2018 the English and Math departments began to change the way they place students into courses and the courses offered in compliance with AB 705. Students were placed via high school transcripts. Students with a 2.6 or higher were placed directly into EWRT1A. All students were eligible to enroll in MATH10 (Statistics), and students with a 3.5 GPA or a 2.6 and had enrolled in calculus in high school were eligible to enroll in Math41 (Pre-calculus).

It should be noted that the overall number of placements in Fall 2018 is significantly higher, this is due to students being re-assessed based on their high school transcripts going back one full year and that applying to their fall 2018 placement. Further, all students who applied in fall 2018 were automatically given a placement if high school transcript data was available.

In fall 2017 all students were required to take a placement test. In fall 2018, students were placed based on their high school transcript information but could choose to take a placement test. The highest placement is what is used in this analysis. Students without a high school transcript are required to take a placement test.