

# IRP@FHDA

**To:** Erika Flores, 3SP Program Coordinator II, De Anza College  
Rob Mieso, Associate Vice President Student Services, De Anza College

**From:** Lourdes Del Rio-Parent, PhD, Sr. Research Analyst/Data Warehouse Coordinator FHDA

**Date:** 9 November 2017

**Re:** Validation of Data for Initial Orientation Services Offered Online, De Anza College, Summer 2017

## **Abstract**

The purpose of this document is to present a summary of the results for a validation study of data used to report initial orientation<sup>1</sup> services provided at De Anza College through an online course in Canvas (learning management system). This document includes an item analysis for the quiz designed to identify participants who met the intended outcomes for the orientation, test results on whether these participants were identified by the Banner system (information system) as having received the service at the expected date or term, and demographics for participants compared to that for the College student population. Study findings show that one of the items used in the final quiz was scored incorrectly and that there were minor discrepancies between data in Canvas and the Banner system regarding the date when the service was provided (i.e., date when a quiz with a passing score was submitted). Regarding demographics (gender, race/ethnicity, and residency), data for participants in the online orientation show statistics similar to those for the College student population. For age, the data show the expected results: those who received online orientation services are on average significantly younger than students already enrolled at De Anza College.

## **Findings**

A total of 1,896 records for the online orientation final quiz submitted between May 17 and November 2 of 2017 were extracted from Canvas. Records for employees (not including student employees) were deleted, which made a final total of 1,884 records or 1,430 participants. Data in Table 1 show that 297 or about 20% of all participants attempted the quiz at least twice. Figures in Table 2 show that the likely reason for multiple attempts to the

---

<sup>1</sup> Initial orientation refers to credit orientation services provided as a part of the student success process at the college.

quiz was an error with item 3, which showed a difficulty index of less than 1% (only 2 out of 1,430 received full credit for the item). Excluding item 3, quiz data show that most participants answered all items correctly at their first attempt.

A total of 1,426 of the 1,430 participants (> 99%) met the criterion for a passing grade: a final score of at least 5 in the quiz. Banner data (SPAIDEN) summarized in Table 4 confirmed that all 1,426 who met the criterion were coded or identified as having received the online orientation during a term between the spring and fall of 2017.

Data shown in Table 5 to Table 11 were used to outline a profile of the 1,430 participants in the online orientation and assess the extent to which these could be classified as first-time students at the college in 2017-18. In Table 5, data for the participants' most recent CCC admissions application<sup>2</sup> show that about 88% (1,255 of 1,430) had recently applied for a term in the 2018-17 academic year (new or returning students). The data also showed 95 participants who had not submitted yet this application; these included 89 international or foreign students and 3 California residents with a "general student" record in Banner-SGASTDN. Data in Table 6 show similar findings to those in Table 5: about 88% of the participants (1,259 of 1,430) registered<sup>3</sup> for the first time at De Anza College in 2017-18 or had not registered yet.

Table 7 to Table 11 show statistics for gender, race/ethnicity, age group, and residency status for all participants and compare these to related statistics for the College student population. Data in Table 7 to Table 9 show no significant differences between participants in the online orientation and the college population regarding gender, race/ethnicity, or residency status. In Table 10, data for age group show expected results: participants in the online orientation are significantly younger than the college student population.

Data in Table 11 show that 673 (49%) of all 1,430 participants graduated from high school in 2017—class of 2017. Data in Table 12 show that 85% (575 of 673) of these graduated from a California high school. Table 13 and Table 14 show the number of participants in the class of 2017 by high school and district, respectively. The data in these tables show East Side Union High and Fremont Unified as the top feeder high school districts for first-time students at De Anza College for the class of 2017.

---

<sup>2</sup> California Community Colleges Admissions Application or CCCApply.

<sup>3</sup> Registration at census date

In Table 15, data show that 921 of the online orientation participants will be reported in the MIS SS (Student Success) as having received initial orientation services in summer of 2017. These include the 920 with the code for “DA Online Orientation” and 1 who did not get the minimum score for the online orientation quiz but who had the code for “Attended DA HS Orientation” in Banner-SPAIDEN for summer 2017.

Finally, the data showed that all but seven students who had met the criterion for the online orientation in summer 2017 (June 1 to August 31 of 2017) will be included in the MIS SS report. The seven students missing from the report are those with an activity date in Banner-SPAIDEN on or after September 1 of 2017, which may have been caused by a delay or data transmission error between Canvas and Banner. These seven students will be included in the MIS SS report for fall 2017, for a total of 502 (see Table 4).

**Table 1. De Anza Online Orientation, Final Quiz: Headcount by Number of Attempts**

<b>Number of Attempts</b>	<b>Headcount</b>	<b>Percent</b>
1	1,143	80%
2	189	13%
3	61	4%
4	18	1%
5	12	1%
6	2	< 1%
7	4	< 1%
8	1	< 1%
<b>Total</b>	<b>1,430</b>	

**Notes**

Data for Canvas online orientation quizzes submitted between 09-MAY-17 and 02-NOV-17. Records for district employees, other than student employees, were deleted.

About 20% of the respondents attempted and completed the quiz more than once. It is very likely that a significant number of these respondents were trying to figure out the correct answer to all parts of item 2. Because of a system error, less than 1% of all respondents received full credit in this item.

**Table 2. De Anza Online Orientation, Final Quiz: Item Difficulty level**

<b>Item</b>	<b>Answered Correctly</b>	<b>Difficulty Level</b>
1. Your online resource for adding and dropping classes, checking grades, and more is:	1,423	> 0.99
2. Placements tests are required for Math, English (or ESL) and are in place to help you be successful.	1,404	0.98
3. Though the best and easiest option is to pay your fees online, the [option1] Office is where you may go to pay tuition and fees. If you need help paying for college, you will want to visit the [option2] Office. If you need help with your Abbreviated Ed Plan, you should make an appointment with [option3]. If you're having problems registering for classes, please contact [option4].	2	< 0.01
4. Academic probation is in place to keep students on track. To avoid academic probation, De Anza students need to maintain a GPA of:	1,410	0.99
5. [ ] is your educational planning tool at De Anza.	1,316	0.92
6. After completing this orientation, including completion of the Sexual Violence Prevention module in My Portal, your final step to qualify for priority enrollment is to:	1,131	0.79
7. In addition to the Abbreviated Ed Plan, you will need to use Degree Works to create your Comprehensive Ed Plan by the end of your first term.	1,307	0.91
<b>Total</b>	<b>1,430</b>	

**Notes**

Results are for the participants' first attempt to the quiz.

Difficulty level is the proportion of students who answered the item correctly in their first attempt.

The system incorrectly graded answers to item 3.

Data are for Canvas online orientation quizzes submitted between 09-MAY-17 and 02-NOV-17.

**Table 3. De Anza Online Orientation, Final Quiz: Statistics for Final Total Score**

<b>Statistic</b>	<b>Result</b>
Headcount	1,430
Min score	0
Max score	7
Average	5.83
Median	6.25
Mode	6.25

**Notes**

Results are for the participants' first attempt to the quiz.  
Data are for Canvas online orientation quizzes submitted between 09-MAY-17 and 02-NOV-17.

**Table 4. Headcount by Academic Period and Orientation/Workshop Type for De Anza Online Orientation Participants, Banner-SPAIDEN**

<b>Academic Period</b>	<b>Orientation/Workshop Type</b>	<b>Headcount</b>	<b>Min Official Score</b>	<b>Max Official Score</b>
201512	Attended DA HS Orientation	1	7	7
201512	Attended DA Orient "Workshop"	4	6.25	7
201522	Attended DA Orient "Workshop"	1	6.25	6.25
201532	Attended DA Orient "Workshop"	1	6.5	6.5
201612	Attended DA Orient "Workshop"	2	5.25	7
201622	Attended DA Intern Stud Orient	1	6.25	6.25
201622	Attended DA Orient "Workshop"	1	6.25	6.25
201642	Attended DA Orient "Workshop"	1	5.25	5.25
201722	Attended DA Intern Stud Orient	1	6.25	6.25
201732	Attended DA Orient "Workshop"	1	6.25	6.25
201742	Attended DA Orient "Workshop"	1	6.25	6.25
<b>201742</b>	<b>DA Online Orientation</b>	<b>4</b>	<b>6.25</b>	<b>7</b>
<b>201812</b>	<b>Attended DA HS Orientation</b>	<b>2</b>	<b>4.5</b>	<b>6</b>
201812	Attended DA Intern Stud Orient	2	6.25	6.25
201812	Attended DA Orient "Workshop"	21	5.25	6.25
<b>201812</b>	<b>DA Online Orientation</b>	<b>920</b>	<b>5</b>	<b>7</b>
201822	Attended DA Intern Stud Orient	77	5.25	6.5
201822	Attended DA Orient "Workshop"	4	5.25	6.25
<b>201822</b>	<b>DA Online Orientation</b>	<b>502</b>	<b>5</b>	<b>7</b>
<b>N/A</b>	<b>No Orientation flag in SPAIDEN</b>	<b>3</b>	<b>2.25</b>	<b>3.25</b>
<b>Total</b>		<b>1,430</b>		

**Notes**

Headcounts figures are not mutually for students may have received multiple services.  
Data are for Canvas online orientation quizzes submitted between 09-MAY-17 and 02-NOV-17.

**Table 5. Headcount by Effective Term in Latest CCC Admissions Application, De Anza Online Orientation Participants**

<b>Effective Term Code for Latest CCC Application</b>	<b>Headcount</b>	<b>Percent</b>	<b>Cumulative Headcount</b>	<b>Cumulative Percent Headcount</b>
20151	4	0%	4	0%
20152	3	0%	7	0%
20153	2	0%	9	1%
20154	1	0%	10	1%
20161	1	0%	11	1%
20162	4	0%	15	1%
20163	3	0%	18	1%
20164	4	0%	22	2%
20171	8	1%	30	2%
20172	20	1%	50	3%
20173	12	1%	62	4%
20174	21	1%	83	6%
20181	209	15%	292	20%
20182	993	69%	1,285	90%
20183	53	4%	1,338	94%
CCC Admissions Application was not submitted	92	6%	1,430	100%
<b>Total</b>	<b>1,430</b>	<b>100%</b>		

**Notes**

The 92 students without a CCC admissions application include 89 international/foreign students and another 3 with personal data, including residency status, entered manually in the Banner system.

Data are for Canvas online orientation quizzes submitted between 09-MAY-17 and 02-NOV-17.

**Table 6. Headcount by First Term Registered by Census Date at De Anza College, De Anza Online Orientation Participants**

<b>First Tem Registered</b>	<b>Count</b>	<b>Percent</b>	<b>Cum Count</b>	<b>Cum Percent</b>
201612 and Before	60	4%	60	4%
201622	10	1%	70	5%
201632	7	0%	77	5%
201642	8	1%	85	6%
201712	22	2%	107	7%
201722	38	3%	145	10%
201732	12	1%	157	11%
201742	14	1%	171	12%
201812	197	14%	368	26%
201822	867	61%	1,235	86%
Not registered	195	14%	1,430	100%
<b>Total</b>	<b>1,430</b>	<b>100%</b>		

**Notes**

Data are for Canvas online orientation quizzes submitted between 09-MAY-17 and 02-NOV-17.

**Table 7. Headcount by Gender, De Anza Online Orientation**

<b>Gender</b>	<b>Headcount</b>	<b>Percent</b>	<b>College Percent</b>
Male	681	48%	49%
Female	726	51%	50%
Not Reported	23	2%	1%
<b>Total</b>	<b>1,430</b>	<b>100%</b>	

**Notes**

Data are for Canvas online orientation quizzes submitted between 09-MAY-17 and 02-NOV-17.

College Percent: Based on data for students enrolled at De Anza College in 2016-17 (N = 32,257).



**Table 8. Headcount by Race/Ethnicity, De Anza Online Orientation Participants**

<b>Race/Ethnicity</b>	<b>Headcount</b>	<b>Percent</b>	<b>College Percent</b>
American Indian/Alaskan Native	2	0%	< 1%
Asian	531	37%	38%
Black or African American	46	3%	3%
Hispanic	376	26%	26%
Pacific Islander	7	0%	< 1%
White or Caucasian	276	19%	20%
Multiple Race	88	6%	5%
Foreign/International	95	7%	8%
Not Reported	9	1%	1%
<b>Total</b>	<b>1,430</b>	<b>100%</b>	

**Notes**

Data are for Canvas online orientation quizzes submitted between 09-MAY-17 and 02-NOV-17.

College Percent: Based on data for students enrolled at De Anza College in 2016-17 (N = 32,257).

**Table 9. Headcount by Residency Status, De Anza Online Orientation Participants**

<b>Residency Status</b>	<b>Headcount</b>	<b>Percent</b>	<b>College Percentage</b>
California Resident	1,204	84%	86%
Out of State	112	8%	5%
Foreign	95	7%	8%
Undeclared	19	1%	< 1%
<b>Total</b>	<b>1,430</b>	<b>100%</b>	

**Notes**

Data are for Canvas online orientation quizzes submitted between 09-MAY-17 and 02-NOV-17.

College Percent: Based on data for students enrolled at De Anza College in 2016-17 (N = 32,257).

College percentage is based on spring 2017 MIS data.

**Table 10. Headcount by Age Group, De Anza Online Orientation Participants**

<b>Age Group</b>	<b>Headcount</b>	<b>Percent</b>	<b>College Percent</b>
19 or Less	899	63%	31%
20 to 24	298	21%	36%
25 to 29	79	6%	13%
30 to 34	67	5%	6%
35 to 39	34	2%	4%
40 to 44	15	1%	3%
45 to 49	14	1%	2%
50 or more	24	2%	5%
	<b>1,430</b>	<b>100%</b>	

**Notes**

Data are for Canvas online orientation quizzes submitted between 09-MAY-17 and 02-NOV-17.

College Percent: Based on data for students enrolled at De Anza College in 2016-17 (N = 32,257).

**Table 11. Headcount by High School Graduation Year, De Anza Online Orientation**

<b>High School Graduation Year</b>	<b>Headcount</b>	<b>Percent</b>	<b>Cum Headcount</b>	<b>Cum Percent</b>
2015 or Before	476	33%	476	33%
2016	150	10%	626	44%
<b>2017</b>	<b>673</b>	<b>47%</b>	<b>1,299</b>	<b>91%</b>
2019	1	0%	1,300	91%
Not Reported	130	9%	1,430	100%
<b>Total</b>	<b>1,430</b>	<b>100%</b>		

**Notes**

Data are for Canvas online orientation quizzes submitted between 09-MAY-17 and 02-NOV-17.

College Percent: Based on data for students enrolled at De Anza College in 2016-17 (N = 32,257).

**Table 12. De Anza Online Orientation, Class of 2017: Headcount by High School Location**

<b>Enrollment Status for Summer or Fall 2017</b>	<b>Headcount</b>	<b>Percent</b>
<b>California School</b>		
Enrolled 1st Time	489	85%
Enrollment on prior academic year	31	5%
Did not enroll	55	10%
<b>Total</b>	<b>575</b>	<b>100%</b>
<b>Out-of-State</b>		
Enrolled 1st Time	66	87%
Enrollment on prior academic year	1	1%
Did not enroll	9	12%
<b>Total</b>	<b>76</b>	<b>100%</b>
<b>International/Foreign</b>		
Enrolled 1st Time	15	88%
Did not enroll	2	12%
<b>Total</b>	<b>17</b>	<b>100%</b>
<b>No High School Reported</b>		
Enrolled 1st Time	5	100%
<b>Total</b>	<b>5</b>	<b>100%</b>
<b>Total for 2017 Class</b>		
Enrolled 1st Time	575	85%
Enrollment on prior academic year	32	5%
Did not enroll	66	10%
<b>Total</b>	<b>673</b>	<b>100%</b>

**Notes**

Data are for students who submitted at least one online orientation quiz between 09-MAY-17 and 02-NOV-17 and who graduated from high school in 2017.

**Table 13. De Anza Online Orientation, Class of 2017: Headcount by High School**

School	District	Total Count	Enrolled Count	Enrolled Percent
Fremont High	Fremont Union High	24	22	92%
Silver Creek High	East Side Union High	23	23	100%
Evergreen Valley High	East Side Union High	22	21	95%
Monta Vista High	Fremont Union High	22	20	91%
Santa Clara High	Santa Clara Unified	20	20	100%
Andrew P. Hill High	East Side Union High	19	18	95%
Del Mar High	Campbell Union High	19	18	95%
Lynbrook High	Fremont Union High	19	17	89%
Santa Teresa High	East Side Union High	19	17	89%
Adrian Wilcox High	Santa Clara Unified	18	18	100%
Independence High	East Side Union High	17	16	94%
Milpitas High	Milpitas Unified	17	17	100%
Prospect High	Campbell Union High	16	15	94%
Yerba Buena High	East Side Union High	16	16	100%
Pioneer High	San Jose Unified	15	15	100%
Homestead High	Fremont Union High	14	13	93%
Leigh High	Campbell Union High	14	12	86%
Gunderson High	San Jose Unified	13	10	77%
Leland High	San Jose Unified	13	13	100%
Westmont High	Campbell Union High	13	11	85%
Willow Glen High	San Jose Unified	12	n/a	n/a
Cupertino High	Fremont Union High	11	10	91%
Piedmont Hills High	East Side Union High	10	n/a	n/a

**Notes**

Data are for students who submitted at least one online orientation quiz between 09-MAY-17 and 02-NOV-17 and who graduated from high school in 2017.

**Table 14. De Anza Online Orientation, Class of 2017: Headcount by High School District**

<b>High School District</b>	<b>Headcount</b>	<b>Enrolled Count</b>	<b>Enrolled Percent</b>
East Side Union High	156	146	94%
Fremont Unified	95	82	86%
Campbell Union High	64	64	100%
San Jose Unified	68	58	85%
Santa Clara Unified	41	41	100%
Milpitas Unified	17	17	100%
Los Gatos-Saratoga Joint Union High	13	13	100%
Morgan Hill Unified	10	10	100%
Palo Alto Unified	10	10	100%

**Notes**

Data are for students who submitted at least one online orientation quiz between 09-MAY-17 and 02-NOV-17 and who graduated from high school in 2017.

**Table 15. Headcount by Academic Period for MIS SS06 Initial Orientation at the College, De Anza Online Orientation, Summer 2017**

<b>Term Code for Initial Orientation</b>	<b>Number of Year Since Initial Orientation</b>	<b>Headcount</b>
201432	3.40	1
201512	2.92	2
201532	2.41	1
201612	1.93	3
201622	1.70	2
201632	1.41	1
201642	1.16	5
201712	0.93	2
201722	0.68	5
201732	0.39	4
201742	0.14	11
999999	0	884
<b>Total for initial service, SS06</b>		<b>885</b>
<b>Total Online Orientation</b>		<b>921</b>

**Notes**

Data are for Canvas online orientation quizzes submitted between 01-JUN-17 and 31-AUG-17 (summer 2017).

Total for initial service, SS06: Online orientation participants to be reported in the MIS SS report for summer 2017 as having received initial orientation services.

Term code for initial orientation equal to 999999: No initial orientation at the college has been reported for the student prior summer 2017.

Services for initial orientation are reported for students who received the service at the college for the first time within the last three years.