**Camp Rio Matriculation Analysis**

**September 7, 2021**

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**Summary:**

IDEA calculates matriculation differently from NSC, and from Camp Rio, and I was told by Tarah Burris and her department, that each place/department/person calculates matriculation/persistence for college differently, so you'll have some differences in the percentages. For example, differences can include data reporting dates to NSC, enrollment status, and enrollment start date.

For Camp Rio, we omit everyone who is not Full Time, and anyone who did not matriculate in the Fall the same year as their IDEA graduation. Some students matriculate to college in the winter and spring, and at Part Time, Half Time, and other Enrollment Statuses besides Full Time, which can account for differences.

In addition, we had 7/32 survey respondents with a student Id that was not a 108-Student ID on the students table, and to keep n >30, a unique row from each of those respondents was included (so 3 rows), but these students would not show up on the matriculation table. Only students with 108-Student IDs from the students table will show up on the Matriculation table as having matriculated. I could remove those 3 rows with the Student IDs that are not "108" (and therefore not on the Matriculation table), and we would increase the Matriculation from 22/32 to 22/29, from 68% to 76%.

In addition, it was a pandemic year and some students may have delayed their matriculation a year. Some reasons could include not wanting to pay full tuition to attend virtual college. I read news articles about this issue last year. It’s possible that the pandemic influenced the matriculation rate (to be lower), in addition to how we calculate matriculation for Camp Rio.

**Matriculation Business Rules:**

* Used 3 sets of data:
  + 1. *NSC raw data* from Spring 2021 (provided by Tarah Burris)
    - Included:
      * student 108 ID numbers
      * entry and exit dates for college (month, day, year)
      * Enrollment Status: Full Time, Half Time, Part Time, etc.
  + 2. *Students table*, including Grade Level, Student ID Number, Academic Year (found in the data warehouse)
  + 3. *Camp Rio Video Surveys* (2020-2021 Academic Year) and *Camp Rio Surveys* (2019-2020 Academic Year) – electronic surveys provided by Rodrigo San Miguel and Edison Coronado; these are student self-reported data from iPads given at the camp by Mary Barba
* Include only those IDEA seniors (Grade Level = 12) who attended Camp Rio in the 2019-2020 school year
* Include only those who matriculated in Fall 2020 immediately following IDEA graduation (same year for graduation and matriculation)
* Include only those whose college status is “Full Time”
  + Only those who matriculated in August, September, or October, were counted as “Matriculated”
  + Those who matriculated after IDEA graduation in May, June, July, November, December 2020, or January, February, March, or April 2021 the following year, were not counted.
* 782/1245 matriculated who did not attend Camp Rio
* 32 Camp Rio Surveys for Seniors in the 2019-2020 school year
  + 22 had student ID numbers starting with “108” and found on the Students table
  + 10 had student ID numbers that were not on the Students table and did not start with “108”; 3 unique the rest duplicated
    - Mary Barba let me know that it is not possible to get each student’s 108 Student ID number, and in the case when the student doesn’t know their 108 student ID number or can’t located it, the counselor has them input “12345”, “1234”, or other variations of this.
* 22/32 matriculated who did attend Camp Rio
  + Includes 3 rows of students whose Student ID was not recorded as a 108 number and not found on the Students Table: one row of 1234, one row for 12345, one row for 1015.
    - There were 3 duplicated self-reported Student ID numbers:
      * total of 3 rows of “12345”,
      * 2 rows of “1234”,
      * 2 rows of “1015”, so one row was used from each of these so as to eliminate duplicates
  + Could remove those three rows, then we’d have: 22/29 matriculated who attended Camp Rio, and 7/29 did not matriculate who attended Camp Rio, increasing Matriculation from 68% to 76% for Camp Rio participants.
    - If these rows were removed, we’d be removing 3 people who did not have a Student ID located on the Students table.
  + If they did not have an ID on the Students table, they will not show up on the Matriculation table (as having matriculated) because only those students with a valid 108 Student ID number from the Students table will who up on the Matriculation Table.
    - So, some of the students with ID numbers: 12345, 1234, and 1015, could have matriculated, but they would not show up on the Matriculation table, so would be recorded as Not Matriculated
    - I left a unique row for each of the three Student IDs that were not 108 numbers, so as to count as many Camp Rio and survey participants as possible, and keep our n > 30.
* In addition, it was a pandemic year and some students may have delayed their matriculation by a year; perhaps because they did not want to pay all that tuition to go to virtual college. I read news articles about this particular issue last year. So it's possible that the matriculation rate would be lower, in addition to how we calculate it for Camp Rio.