## De Anza College Office of Institutional Research and Planning

To: AB 705 Committee<br>From: Mallory Newell, De Anza Researcher<br>Date: 2/10/2020<br>Subject: Analysis of Success, Withdraw and Drop Rates after AB705 Changes - Fall 2019


#### Abstract

This analysis compares success, withdraw and drop rates in EWRT1A, EWRT1A + LART250 and EWRT1AS as well as MATH10, MATH10 + MATH210X, MATH10.MPS and MATH41, MATH41 + MATH231, and MATH41.MPS as well as MATH1A courses over the past five fall terms. Rates are disaggregated by modality (face to face, online, hybrid) and Math Performance Success (MPS) sections when appropriate. Overall rates as well as those disaggregated by ethnicity and DSPS status are included as well as distribution by high school GPA, letter grade and success rates by section.

Success include A, B, C, and P grades, Non Success include D, F, NP, FW and I grades, while Withdraw includes W, MW and EW grades. The success rate is the number of $A, B, C, P$ grades divided by total enrolled students in the course. Successful completions or volume of completions are a count of $A, B, C, P$ grades this term compared to the comparison term. Withdraw are students who withdrew from the course after census through week 8 and received a W grade. Drops are students who dropped the course before census. Drops are counted even if the student enrolled in a different section of the same course.


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## Summary of Results

Table 1. Summary of Access and Successful Completions

| Access via Enrollment |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Fall 20I8 | Fall 20I9 | Difference \% Difference |  |
| EWRTIA | $I, 929$ | 2,667 | +738 | $+38 \%$ |
| MATHIO | 1,780 | 1,749 | $-3 I$ | $-2 \%$ |
| MATH4I | 776 | 730 | -46 | $-6 \%$ |
| MATHIA | 559 | 758 | +199 | $+36 \%$ |
| Successful Completions |  |  |  |  |
| EWRTIA | $I, 537$ | $2,06 I$ | +524 | $+34 \%$ |
| MATHIO | $I, 096$ | $1, I 8 I$ | +13 | $+8 \%$ |
| MATH4I | $5 I 7$ | 429 | -88 | $-I 7 \%$ |
| MATHIA | 374 | 528 | +154 | $+4 I \%$ |

Includes standalone courses and those connected to a corequisite course.

- EWRT1A resulted in +738 additional students having access to the course and enrolling compared to last fall for a $38 \%$ increase.
- This resulted in +524 additional successful completions of EWRT1A - from 1,537 to 2,061 successful completions for a $34 \%$ increase in successful completions.
- MATH10 flattened out after a large increase in enrollment in fall 2018. While MATH10 enrollments decreased by $\mathbf{2 \%}$, successful completions increased by $\mathbf{8 \%}$, suggesting MATH10 has stabilized in enrollment but success continues to improve.
- MATH41 saw a decrease in enrollment of $6 \%$ and successful completions also decreased by $\mathbf{1 7 \%}$.
- MATH1A resulted in +199 additional students having access to Calculus and enrolling compared to last fall for a $36 \%$ increase.
- This resulted in +154 additional successful completions of MATH1A - a 41\% increase.

Table 2. Summary of Success, Drop and Withdraw Rates

| Change from prior year |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Success | Drop | Withdraw |
|  | Rate | Rate | Rate |
| EWRTIA | -3\% | 0\% | -1\% |
| MATHIO | +6\% | -2\% | -6\% |
| MATH4I | -8\% | +2\% | +1\% |
| MATHIA | +3\% | +4\% | -4\% |
| Change from 5-term average |  |  |  |
|  | Success | Drop | Withdraw |
|  | Rate | Rate | Rate |
| EWRTIA | -2\% | -1\% | -1\% |
| MATHIO | +4\% | 0\% | -5\% |
| MATH4I | -3\% | +1\% | - $1 \%$ |
| MATHIA | 0 | +3\% | -2\% |

- Success rates decreased 3 percentage points for EWRT1A compared to the prior year, increased 6 percentage points for MATH10, decreased 8 percentage points for MATH41 and increased 3 percentage points for MATH1A.
- When comparing to the average of the past five fall terms, success rates for EWRT1A decreased 2 percentage points, MATH10 increased 4 percentage points, MATH41 decreased 3 percentage points and MATH1A remained flat.
- Drop rates prior to census remained flat for EWRT1A when comparing to the prior fall, decreased by 2 percentage points for MATH10, increased by 2 percentage points for MATH41 and increased 4 percentage points for MATH1A.
- Withdraw rates between census and week 8 decreased 1 percentage point for EWRT1A compared to the prior fall, decreased 6 percentage points for MATH10, increased 1 percentage point for MATH41 and decreased 4 percentage points for MATH1A.

Table 3. Summary of Enrollment Volume, Success Rate and Success Volume - for African American, Filipinx, and Latinx Students

| Change from prior year |  |  |  |  |
| :---: | :--- | :---: | :---: | :---: |
|  |  | Enrollment <br> Volume | Success <br> Rate | Success <br> Volume |
| EWRTIA. American | +47 | $-2 \%$ | +33 |  |
|  | Filipinx | +27 | $-1 \%$ | -20 |
|  | Latinx | +285 | $0 \%$ | +191 |
| MATHIO | Af. American | -4 | $-4 \%$ | +5 |
|  | Filipinx | -13 | $+17 \%$ | +17 |
|  | Latinx | -62 | $4 \%$ | -5 |
| MATH4I | Af. American | +8 | $-11 \%$ | +2 |
|  | Filipinx | -3 | $-13 \%$ | -9 |
|  | Latinx | +9 | $-8 \%$ | -2 |

Includes standalone courses and those connected to a corequisite or stretch course.

- EWRT1A saw the greatest gains in access and enrollment with 285 additional Latinx students enrolling in EWRT1A in fall 2019 over fall 2018. Successful completions for Latinx students also increased by 191 additional successful completions of EWRT1A.


## EWRT1A Results

Table 4. EWRT1A - Success, Drop, and Withdraw Rates

|  | Enrollment Count | Success Count | Success Rate | Drop <br> Count | Drop <br> Rate | Withdraw Count | Withdraw Rate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fall 2015 | 1,554 | 1,259 | 81\% | 159 | 9\% | 134 | 9\% |
| Fall 2016 | 1,567 | 1,221 | 78\% | 145 | 8\% | 147 | 9\% |
| Fall 2017 | 1,519 | 1,223 | 81\% | 180 | 11\% | 146 | 10\% |
| Fall 2018 | 1,929 | 1,537 | 80\% | 172 | 8\% | 167 | 9\% |
| Fall 2019 | 2,667 | 2,061 | 77\% | 226 | 8\% | 210 | 8\% |
| Average |  |  | 79\% |  | 9\% |  | 9\% |

Includes all EWRT1A courses - standalone courses and those connected to a corequisite or stretch course.

- When looking at the past five fall terms, success rates dropped a bit while there was not much variation in drop or withdraw rates in fall 2019 than the past five fall terms.
- Enrollment in EWRT1A between fall 2018 and fall 2019 increased 38\% from 1,929 to 2,667, including the Stretch and Bundled sections.
- Success rates for all EWRT1A sections, including the Stretch and Bundled sections decreased 3 percentage points while drop rates remained unchanged at $8 \%$ and withdraw rates decreased $1 \%$ at $8 \%$.
- An additional +524 students successfully completed EWRT1A in fall 2019 compared to fall 2018 from 1,537 successful completions to 2,061 successful completions.


# Table 5. EWRT1A Success Rates by Course Type 

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Group | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| EWRTIA Stretch | 126 | $72 \%$ | 30 | $17 \%$ | 20 | $11 \%$ | 176 | $100 \%$ |
| EWRTIA Bundle | 484 | $71 \%$ | 157 | $23 \%$ | 43 | $6 \%$ | 684 | $100 \%$ |
| EWRTIA Standalone | 1,451 | $80 \%$ | 209 | $12 \%$ | 147 | $8 \%$ | 1,807 | $100 \%$ |
| Total | 2,061 | $77 \%$ | 396 | $15 \%$ | 210 | $8 \%$ | 2,667 | $100 \%$ |

Table 5 provides the success rates for students in EWRT1A with varying levels of support.

- Success rates in EWRT1AS (Stretch) were $72 \%$ with 176 total enrollments or 7\% of all EWRT1A enrollments.
- Success rates in EWRT1A +LART 250 (Bundle) were $71 \%$ with 684 total enrollments or $26 \%$ of all EWRT1A enrollments.
- Success rates in standalone EWRT1A sections had the highest success rates at $80 \%$ with the greatest enrollment at 1,807 total students or $68 \%$ of EWRT1A enrollment.
- It should be noted for context that even though the success rates for EWRT1A Bundle or Stretch are lower than the standalone course, one-year throughput rates for EWRT1A for students who started in EWRT, READ or LART2111 averaged 49\%. Thus, throughput in one term at $71 \%$ or $72 \%$ in just one-term is significantly higher than $49 \%$ in one year. See Table 16 for details on throughput rates.

Table 6. EWRT1AS: Stretch - Success Rates by Support Level and High School GPA

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stretch | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 2.6 or above | 17 | $89 \%$ | 1 | $5 \%$ | 1 | $5 \%$ | 19 | $100 \%$ |
| $2.59-1.9$ | 22 | $73 \%$ | 3 | $10 \%$ | 5 | $17 \%$ | 30 | $100 \%$ |
| Less than 1.9 | 19 | $53 \%$ | 12 | $33 \%$ | 5 | $14 \%$ | 36 | $100 \%$ |
| No GPA on File | 68 | $75 \%$ | 14 | $15 \%$ | 9 | $10 \%$ | 91 | $100 \%$ |
| Total | 126 | $72 \%$ | 30 | $17 \%$ | 20 | $11 \%$ | 176 | $100 \%$ |

Note: Includes only actual high school GPAs from CalPass Plus.

- Success rates in EWRT1AS were highest for students with a 2.6 GPA or higher who had an $89 \%$ success rate followed by students with no GPA on file (this was the largest group) with a success rate of 75\%, then students with a 2.59-1.9 GPA in high school at $73 \%$, and students with less than a 1.9 GPA with a success rate of $53 \%$.

Table 7. EWRT1A: Bundle - Success Rates by Support Level and High School GPA

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bundle | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 2.6 or above | 163 | $82 \%$ | 27 | $14 \%$ | 10 | $5 \%$ | 200 | $100 \%$ |
| $2.59-1.9$ | 80 | $66 \%$ | 30 | $25 \%$ | 12 | $10 \%$ | 122 | $100 \%$ |
| Less than 1.9 | 38 | $57 \%$ | 27 | $39 \%$ | 3 | $4 \%$ | 68 | $100 \%$ |
| No GPA on File | 203 | $69 \%$ | 73 | $25 \%$ | 18 | $6 \%$ | 294 | $100 \%$ |
| Total | 484 | $71 \%$ | 157 | $23 \%$ | 43 | $6 \%$ | 684 | $100 \%$ |

Note: Includes only actual high school GPAs from CalPass Plus.

- Success rates in EWRT1A.Q were highest for students with a 2.6 GPA or higher who had an $82 \%$ success rate followed by students with no GPA on file (this was the largest group) with a success rate of 69\%, then students with a 2.59-1.9 GPA in high school at $66 \%$, and students with less than a 1.9 GPA with a success rate of $57 \%$.

Table 8. EWRT1A: Standalone - Success Rates by Support Level and High School GPA

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Standalone | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 2.6 or above | 668 | $87 \%$ | 67 | $9 \%$ | 29 | $4 \%$ | 764 | $100 \%$ |
| $2.59-1.9$ | 86 | $59 \%$ | 35 | $24 \%$ | 25 | $17 \%$ | 146 | $100 \%$ |
| Less than 1.9 | 45 | $53 \%$ | 23 | $26 \%$ | 18 | $20 \%$ | 86 | $100 \%$ |
| No GPA on File | 652 | $80 \%$ | 84 | $10 \%$ | 75 | $9 \%$ | 811 | $100 \%$ |
| Total | 1,451 | $80 \%$ | 209 | $12 \%$ | 147 | $8 \%$ | 1,807 | $100 \%$ |

Note: Includes only actual high school GPAs from CalPass Plus.

- Success rates in EWRT1A standalone were highest for students with a 2.6 GPA or higher who had an $87 \%$ success rate followed by students with no GPA on file (this was the largest group) with a success rate of $80 \%$, then students with a $2.59-1.9$ GPA in high school at $59 \%$, and students with less than a 1.9 GPA with a success rate of $53 \%$.

Table 9. Distribution of Ethnic Groups by EWRT1A and EWRT1A + LART250

|  | EWRTIA Standalone |  | EWRTIA + LART250 |  | EWRTIAS |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Fall 20I9 | N | $\%$ | N | $\%$ | N | $\%$ |
| African American | 63 | $3 \%$ | 33 | $5 \%$ | 16 | $9 \%$ |
| Asian | 839 | $46 \%$ | 197 | $29 \%$ | 56 | $32 \%$ |
| Filipinx | 141 | $8 \%$ | 54 | $8 \%$ | 8 | $5 \%$ |
| Latinx | 473 | $26 \%$ | 295 | $43 \%$ | 74 | $42 \%$ |
| Native American | 5 | $0 \%$ | 2 | $0 \%$ | 1 | $1 \%$ |
| Pacific Islander | 15 | $1 \%$ | 10 | $1 \%$ | 2 | $1 \%$ |
| White | 233 | $13 \%$ | 79 | $12 \%$ | 16 | $9 \%$ |
| Decline to State | 38 | $2 \%$ | 14 | $2 \%$ | 3 | $2 \%$ |
| Total | 1,807 | $100 \%$ | 684 | $100 \%$ | 176 | $100 \%$ |

Table 9 provides the distribution of enrollment by ethnicity in each type of EWRT1A course for fall 2019.

- There is a higher percentage of African American and Latinx students enrolled in EWRT1A with additional support than in the standalone course.

Table 10. EWRT1A - Success, Drop and Withdraw Rates by Modality

|  |  | Enrollment | Success | Success | Drop | Drop | Withdraw | Withdraw |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mode | Term | Count | Count | Rate | Count | Rate | Count | Rate |
| Face to Face | Fall 2015 | 1,253 | 1,028 | $82 \%$ | 108 | $8 \%$ | 92 | $7 \%$ |
|  | Fall 2016 | 1,119 | 906 | $81 \%$ | 89 | $7 \%$ | 87 | $8 \%$ |
|  | Fall 2017 | 1,093 | 896 | $82 \%$ | 112 | $9 \%$ | 87 | $8 \%$ |
|  | Fall 2018 | 1,374 | 1,113 | $81 \%$ | 104 | $7 \%$ | 98 | $7 \%$ |
|  | Fall 2019 | 1,394 | 1,152 | $83 \%$ | 102 | $7 \%$ | 94 | $7 \%$ |
| Hybrid | Fall 2015 | 136 | 113 | $83 \%$ | 6 | $3 \%$ | 15 | $11 \%$ |
|  | Fall 2016 | 212 | 152 | $72 \%$ | 20 | $7 \%$ | 21 | $10 \%$ |
|  | Fall 2017 | 217 | 181 | $83 \%$ | 25 | $10 \%$ | 21 | $10 \%$ |
|  | Fall 2018 | 279 | 220 | $79 \%$ | 25 | $8 \%$ | 33 | $12 \%$ |
|  | Fall 2019 | 23 | 21 | $91 \%$ | 4 | $1 \%$ | 1 | $4 \%$ |
| Online | Fall 2015 | 165 | 118 | $72 \%$ | 45 | $21 \%$ | 27 | $16 \%$ |
|  | Fall 2016 | 236 | 163 | $69 \%$ | 36 | $13 \%$ | 39 | $17 \%$ |
|  | Fall 2017 | 209 | 146 | $70 \%$ | 43 | $17 \%$ | 38 | $18 \%$ |
|  | Fall 2018 | 277 | 204 | $74 \%$ | 43 | $13 \%$ | 36 | $13 \%$ |
|  | Fall 2019 | 390 | 278 | $71 \%$ | 46 | $11 \%$ | 52 | $13 \%$ |

Includes standalone EWRT1A sections only.

- Success rates for online EWRT1A standalone were the lowest out of the three modalities at $71 \%$ in fall 2019, down 3 percentage points from the prior fall. Face to face sections were at $83 \%$, down 2 percentage points from the prior fall. There appears to be only one hybrid section offered in fall 2019.

Table 11. EWRT1A - Success and Withdraw Rates by Ethnicity

|  |  | Enrollment |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: |
|  | Term | Success | Success | Withdraw | Withdraw |  |
| Count | Count | Rate | Count | Rate |  |  |
| African | Fall 2018 | 65 | 49 | $75 \%$ | 5 | $8 \%$ |
| American | Fall 2019 | 112 | 82 | $73 \%$ | 7 | $6 \%$ |
| Asian | Fall 2018 | 812 | 712 | $88 \%$ | 40 | $5 \%$ |
|  | Fall 2019 | 1,092 | 924 | $85 \%$ | 60 | $5 \%$ |
| Filipinx | Fall 2018 | 176 | 142 | $81 \%$ | 11 | $6 \%$ |
|  | Fall 2019 | 203 | 162 | $80 \%$ | 11 | $5 \%$ |
|  | Fall 2018 | 557 | 380 | $68 \%$ | 79 | $14 \%$ |
| Latinx | Fall 2019 | 842 | 571 | $68 \%$ | 95 | $11 \%$ |
| Native | Fall 2018 | 7 | 4 | $57 \%$ |  | $0 \%$ |
| American | Fall 2019 | 8 | 7 | $88 \%$ |  | $0 \%$ |
| Pacific | Fall 2018 | 16 | 10 | $63 \%$ | 3 | $19 \%$ |
| Islander | Fall 2019 | 27 | 19 | $70 \%$ | 4 | $15 \%$ |
| White | Fall 2018 | Fall 2019 | 279 | 226 | $81 \%$ | 29 |
|  | Fall 2018 | 328 | 253 | $77 \%$ | 31 | $9 \%$ |
| State | Fall 2019 | 17 | 14 | $82 \%$ |  | $0 \%$ |

Includes all EWRT1A courses - standalone courses and those connected to a corequisite or stretch course.

- Success rates within each ethnic group comparing fall 2018 to fall 2019 improved for Pacific Islander students, remained relatively stable for Filipinx and Latinx students, and declined for all other groups.
- However, the number of overall successful completions of EWRT1A increased for all ethnic groups: African American (+33), Asian (+212), Filipinx (+20), Latinx (+191), Pacific Islander (+9), White (+27) and Decline to State (+29).

Table 12. EWRT1A - Success by DSPS Status

|  |  | Success |  |
| :--- | :--- | ---: | ---: | ---: |
|  |  | $\%$ <br> Enrollment <br> Count | Success |

- When comparing DSPS students to non-DSPS students in EWRT1A courses, DSPS students on average exhibited somewhat lower success rates than their counterparts historically. However, in fall 2019, success rates for DSPS students was 18 percentage points lowers, suggesting that DSPS students could benefit from additional supports in transfer-level EWRT courses.

Table 13. EWRT1A by Course Type and Success by DSPS Status

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DSPS Students | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| EWRTIA Stretch | 8 | $73 \%$ | 3 | $27 \%$ | 0 | $0 \%$ | 11 | $100 \%$ |
| EWRTIA Bundle | 16 | $44 \%$ | 16 | $44 \%$ | 4 | $11 \%$ | 36 | $100 \%$ |
| EWRTIA Standalone | 27 | $71 \%$ | 5 | $13 \%$ | 6 | $16 \%$ | 38 | $100 \%$ |
| Total | 51 | $60 \%$ | 24 | $28 \%$ | 10 | $12 \%$ | 85 | $100 \%$ |

- Success rates for DSPS in fall 2019 in the Stretch and Standalone courses were relatively high and consistent with prior fall terms (see Table 13 above), the low success rate of $44 \%$ in the Bundle brought down the overall success rate in fall 2019.
- Over $40 \%$ of DSPS students are enrolled in the Bundle course in fall 2019, which has the lowest success rate of all modalities.
- It should also be noted that the Stretch course had the highest success rate, but these students will also need to pass EWRT1T in a subsequent term in order to get transferable credit for EWRT1A, thus the overall success rate may be lower after the second term.


## Graph 1. EWRT1A Standalone - Grade Distribution by Term



Graph 1 above shows a distribution of the percent of letter grades by the varying types of EWRT1A course sections in fall 2019. Overall, students in the Standalone and Bundle courses received A and B grades at the highest rate while students in the Stretch course received B and C grades at the highest rate and the highest rate of $F$ and $W$ grades.

- For A grades, students in Standalone EWRT1A received the highest rate of A grades at $44 \%$ of students receiving such grade, followed by the Bundle course at $29 \%$ and the Stretch class at $18 \%$.
- For B grades the distribution was closer by course type with students in the Stretch course receiving the highest rate of B grades at $34 \%$, followed by the Bundle at $31 \%$ and the Standalone course at $27 \%$.
- For C grades, students in the Stretch course received the highest rate of C grades at $19 \%$ followed by the Bundle at $12 \%$ and the lowest rate of C grades were in the Standalone course at 9\%.
- For D grades, $10 \%$ of students in the Stretch course received this grade while only $3 \%$ in the Standalone and $4 \%$ in the Bundle course received a D grade.
- For F grades, the distribution was rather similar with $13 \%$ of Bundle and $12 \%$ of Stretch students receiving an F and $8 \%$ in the Standalone course.
- In regards to W grades, the lowest rate was in the Bundle course at $6 \%$ followed by the Standalone at $8 \%$ and the highest was $11 \%$ in the Stretch course.


## Graph 2. EWRT1A Distribution of Success by Section - Fall 2019



Graph 2 above shows a distribution of course success by section for all EWRT1A sections in fall 2019. Success rates ranged from 32\% to $\mathbf{1 0 0 \%}$.

Table 14. EWRT1A Students Who Did Not Pass in Fall 2019

|  | Enrolled in fall 2019 | Did not pass in fall 2019 | \% Did not pass | Number enrolled in winter 2020 | \% Enrolled in winter 2020 | Number enrolled in EWRTIA in winter 2020 | \% Enrolled <br> in EWRTIA <br> in winter 2020 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Group | \# | \# | \% | \# | \% | \# | \% |
| EWRTIA Stretch | 176 | 50 | 28\% | 33 | 66\% | 10 | 8\% |
| EWRTIA Bundle | 684 | 200 | 29\% | 171 | 86\% | 21 | 16\% |
| EWRTIA Standalone | 1,807 | 356 | 20\% | 278 | 78\% | 98 | 76\% |
| Total | 2,667 | 606 | 23\% | 482 | 80\% | 129 | 100\% |

Note: As of first week of the winter quarter, not at census.
Table 14 above looks at the students who did not pass EWRT1A in fall 2019 and their enrollment in the following term.

- $28 \%$ of students did not pass the Stretch course in fall 2019 , of these students, $66 \%$ enrolled in the following term.
- $29 \%$ of students did not pass the Bundle in fall 2019 , of these students, $86 \%$ were enrolled in the following term.
- $20 \%$ of students did not pass EWRT1A standalone, $78 \%$ of these students were enrolled in the following term.
- Of all students who did not pass EWRT1A in fall 2019 but enrolled in an EWRT1A section in winter 2020, $8 \%$ enrolled in a Stretch section, $16 \%$ in a Bundle and 76\% in EWRT1A standalone.


## EWRT and READ - Throughput Rates

# Table 15. EWRT, READ and LART - Throughput Rates - All Starting Levels to Transfer-Level EWRT 

| Sequence Begin Course EWRT, READ, or LART | First-time <br> Students | All Transfer EWRT Completion - Fall |  | All Transfer EWRT Completion - |  | All Transfer EWRT Completion - Spring |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fall 2018 - All Starting Levels | 1,457 | 741 | 51\% | 943 | 65\% | 1,018 | 70\% |
| Fall 2017 - All Starting Levels | 1,481 | 372 | 25\% | 717 | 48\% | 874 | 59\% |
| Fall 2016 - All Starting Levels | 1,598 | 400 | 25\% | 721 | 45\% | 913 | 57\% |
| Fall 2015 - All Starting Levels | 1,619 | 374 | 23\% | 720 | 44\% | 907 | 56\% |

Sequence begin course is the first course in which a student enrolled at any level in the fall term.
As displayed in Table 26 above, throughput rates for all first time students enrolled in an EWRT, READ and LART course as their first course of enrollment have increased each year with the greatest increase between fall 2017 and fall 2008 from $59 \%$ to $70 \%$.

Table 16. EWRT, READ and LART - Throughput Rates by Starting Level to Transfer-Level EWRT

| First Level Enrolled | First-time Student Cohort |  | Fall EWRTIA <br> Completion |  | Winter EWRTIA <br> Completion |  | Spring EWRTIA <br> Completion |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EWRT, READ, or LART 200 | Fall 18 | 122 | 0 | 0\% | 27 | 22\% | 42 | 34\% |
|  | Fall 17 | 248 | 0 | 0\% | 3 | 1\% | 59 | 24\% |
|  | Fall 16 | 269 | 0 | 0\% | I | 0\% | 68 | 25\% |
| EWRT, READ, or LART 2II | Fall 18 | 446 | 2 | 0\% | 151 | 34\% | 197 | 44\% |
|  | Fall 17 | 828 | 10 | 1\% | 349 | 42\% | 448 | 54\% |
|  | Fall 16 | 849 | 0 | 0\% | 309 | 36\% | 425 | 50\% |
| EWRT IA | Fall 18 | 862 | 716 | 83\% | 729 | 85\% | 744 | 86\% |
|  | Fall 17 | 433 | 379 | 88\% | 385 | 89\% | 388 | 90\% |
|  | Fall 16 | 427 | 355 | 83\% | 364 | 85\% | 373 | 87\% |

Throughput rates track first time students in each fall term and check to see if they successfully completed any transfer-level EWRT course over 3 quarters based on the level in which they started. The lowest level course in which the student starts is counted as the first course in the sequence. Students who start directly in EWRT1A are tracked for three terms to successful completion of EWRT1A.

- Throughput rates for students who started in any 200 level course or combination of courses range from 24\%-34\%
- Throughput rates for students who started in any 211 level course or combination of courses range from 44\%-54\%
- Throughput rates for EWRT1A range from $87 \%-90 \%$


# Table 17. EWRT \& READ- Throughput Rates by Starting Level to EWRT2 

| First Level Enrolled | First-time Student Cohort |  | Fall EWRT2 <br> Completion |  | Winter EWRT2 Completion |  | Spring EWRT2 <br> Completion |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EWRT, READ, or LART 200 | Fall 18 | 122 | 0 | 0\% | 0 | 0\% | 15 | 12\% |
|  | Fall 17 | 248 | 0 | 0\% | 0 | 0\% | 2 | 1\% |
|  | Fall 16 | 269 | 0 | 0\% | 0 | 0\% | 0 | 0\% |
| EWRT, READ, or LART 2II | Fall 18 | 446 | 0 | 0\% | 0 | 0\% | 82 | 18\% |
|  | Fall 17 | 828 | 0 | 0\% | 1 | 0\% | 184 | 22\% |
|  | Fall 16 | 849 | 0 | 0\% | 0 | 0\% | 165 | 19\% |
| EWRT IA | Fall 18 | 862 | 0 | 0\% | 357 | 43\% | 460 | 53\% |
|  | Fall 17 | 433 | 0 | 0\% | 169 | 39\% | 224 | 52\% |
|  | Fall 16 | 427 | 0 | 0\% | 130 | 30\% | 167 | 39\% |
| EWRT 2 | Fall 18 | 14 | 12 | 86\% | 12 | 86\% | 12 | 86\% |
|  | Fall 17 | 13 | 11 | 85\% | 12 | 92\% | 12 | 92\% |
|  | Fall 16 | 8 | 8 | 100\% | 8 | 100\% | 8 | 100\% |

Throughput rates through EWRT2 track first time students in each fall term and check to see if they successfully completed EWRT2 over 3 quarters based on the level in which they started. The lowest level course in which the student starts is counted as the first course in the sequence. Students who start directly in EWRT2 are tracked for three terms to successful completion of EWRT2.

- Throughput rates for students who started in any 200 level course or combination of courses range from 0\%-12\%
- Throughput rates for students who started in any 211 level course or combination of courses range from 18\%-22\%
- Throughput rates for students who start in EWRT1A range from 39\%-53\%
- Throughput rates for students who start directly in EWRT2 range from 86\%-100\%


## MATH10 Results

Table 18. MATH10 - Success, Drop, and Withdraw Rates

|  | Enrollment <br> Count | Success <br> Count | Success <br> Rate | Drop <br> Count | Drop <br> Rate | Withdraw <br> Count | Withdraw <br> Rate |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fall 2015 | 1,075 | 710 | $66 \%$ | 159 | $13 \%$ | 151 | $14 \%$ |
| Fall 2016 | 1,045 | 648 | $62 \%$ | 165 | $14 \%$ | 201 | $19 \%$ |
| Fall 2017 | 1,038 | 658 | $63 \%$ | 167 | $14 \%$ | 203 | $20 \%$ |
| Fall 2018 | 1,780 | 1,096 | $62 \%$ | 327 | $16 \%$ | 323 | $18 \%$ |
| Fall 2019 | 1,749 | 1,181 | $68 \%$ | 284 | $14 \%$ | 214 | $12 \%$ |
| Average |  |  | $64 \%$ |  | $14 \%$ |  | $17 \%$ |

Note: Includes MATH10 standalone and MATH10 + MATH210x

- Success rates in fall 2019 were higher than success rates over the past 5 fall terms and drop and withdraw rates were lower in fall 2019 than prior terms.
- Enrollment in MATH10 between fall 2018 and fall 2019 remained rather stable at $-2 \%$ from 1,780 to 1,749 , as the largest changes for MATH10 took place in fall 2018 which saw a $61 \%$ increase in enrollment from fall 2017.
- Successful completions of MATH10 increased by +85 students, from 1,096 successful completions in fall 2018 to 1,181 successful completions in fall 2019 , though success rates increased by 6 percentage points from $62 \%$ to $68 \%$.

Table 19. MATH10 - Success Rates by Course Type

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| MATHIO + MATH2I0X | 78 | $63 \%$ | 31 | $25 \%$ | 14 | $11 \%$ | 123 | $100 \%$ |
| MATHIO MPS | 131 | $74 \%$ | 28 | $16 \%$ | 19 | $11 \%$ | 178 | $100 \%$ |
| MATHIO Standalone | 972 | $67 \%$ | 295 | $20 \%$ | 181 | $13 \%$ | 1,448 | $100 \%$ |
| Total | 1,181 | $68 \%$ | 354 | $20 \%$ | 214 | $12 \%$ | 1,749 | $100 \%$ |

- While overall success rates for MATH10 were $68 \%$ in fall 2019 , they varied by type of course with success rates for the standalone MATH10 course at 67\%, at 63\% for MATH10 with corequisite support, and at 74\% for the MPS sections.
- It should be noted for context that even though the success rates for MATH10 with corequisite support is lower than the standalone course, the one-year throughput rates for MATH10 for students who started in MATH114 averaged 44\%. Thus, a one-term throughput rate of $63 \%$ is higher than $44 \%$ in one year for students starting one-level below. See Table 38 for details on throughput rates.

Table 20. MATH10.Q - Success Rates by Support Level and High School GPA

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Corequisite | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 3.0 or higher | 26 | $90 \%$ | 2 | $7 \%$ | 1 | $3 \%$ | 29 | $100 \%$ |
| 2.9 or below | 23 | $49 \%$ | 17 | $35 \%$ | 8 | $16 \%$ | 48 | $100 \%$ |
| No GPA | 29 | $63 \%$ | 12 | $26 \%$ | 5 | $11 \%$ | 46 | $100 \%$ |
| Total | 78 | $63 \%$ | 31 | $25 \%$ | 14 | $11 \%$ | 123 | $100 \%$ |

Note: Includes only actual high school GPAs from CalPass Plus.

- Success rates in MATH10 with corequisite support were highest for students with a 3.0 GPA or higher who had a $90 \%$ success rate followed by students with no GPA on file with a success rate of $63 \%$, then students with a 2.9 or lower GPA in high school at 49\% (this was the largest group of students).

Table 21. MATH10.MPS - Success Rates by Support Level and High School GPA

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MPS | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 3.0 or higher | 27 | $100 \%$ |  |  |  |  | 27 | $100 \%$ |
| 2.9 or below | 38 | $59 \%$ | 14 | $21 \%$ | 14 | $21 \%$ | 66 | $100 \%$ |
| No GPA | 66 | $78 \%$ | 14 | $16 \%$ | 5 | $6 \%$ | 85 | $100 \%$ |
| Total | 131 | $74 \%$ | 28 | $16 \%$ | 19 | $11 \%$ | 178 | $100 \%$ |

Note: Includes only actual high school GPAs from CalPass Plus.

- Success rates in MATH10 MPS were highest for students with a 3.0 GPA or higher who had a 100\% success rate followed by students with no GPA on file with a success rate of $78 \%$ (this was the largest group of students), then students with a 2.9 or lower GPA in high school at $59 \%$.

Table 22. MATH10.Standalone - Success Rates by Support Level and High School GPA

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Standalone | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 3.0 or higher | 269 | $86 \%$ | 31 | $10 \%$ | 12 | $4 \%$ | 312 | $100 \%$ |
| 2.9 or below | 201 | $49 \%$ | 129 | $31 \%$ | 85 | $21 \%$ | 415 | $100 \%$ |
| No GPA | 502 | $70 \%$ | 135 | $19 \%$ | 84 | $12 \%$ | 721 | $100 \%$ |
| Total | 972 | $67 \%$ | 295 | $20 \%$ | 181 | $13 \%$ | 1,448 | $100 \%$ |

Note: Includes only actual high school GPAs from CalPass Plus.

- Success rates in MATH10 Standalone were highest for students with a 3.0 GPA or higher who had an $86 \%$ success rate followed by students with no GPA on file with a success rate of $70 \%$ (this was the largest group of students), then students with a 2.9 or lower GPA in high school at $49 \%$.

Table 23. MATH10 - Drop and Withdraw Rates by Modality

| Mode | Term | Enrollment Count | Success <br> Count | Success <br> Rate | Drop <br> Count | Drop <br> Rate | Withdraw Count | Withdraw Rate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Face to Face | Fall 2015 | 947 | 637 | 67\% | 128 | 12\% | 133 | 14\% |
|  | Fall 2016 | 769 | 494 | 64\% | 109 | 12\% | 147 | 19\% |
|  | Fall 2017 | 858 | 566 | 66\% | 129 | 13\% | 152 | 18\% |
|  | Fall 2018 | 1,436 | 868 | 60\% | 257 | 15\% | 268 | 19\% |
|  | Fall 2019 | 1,360 | 927 | 68\% | 227 | 14\% | 156 | 11\% |
|  | Average |  |  | 65\% |  | 13\% |  | 16\% |
| MPS | Fall 2015 | 50 | 36 | 72\% | 6 | 8\% | 5 | 10\% |
|  | Fall 2016 | 68 | 48 | 71\% | 4 | 7\% | 9 | 13\% |
|  | Fall 2017 | 64 | 48 | 75\% | 4 | 6\% | 6 | 9\% |
|  | Fall 2018 | 245 | 189 | 77\% | 25 | 37\% | 20 | 8\% |
|  | Fall 2019 | 178 | 131 | 74\% | 21 | 11\% | 19 | 11\% |
|  | Average |  |  | 74\% |  | 14\% |  | 10\% |
| Online | Fall 2015 | 78 | 37 | 47\% | 25 | 13\% | 13 | 17\% |
|  | Fall 2016 | 208 | 106 | 51\% | 52 | 34\% | 45 | 22\% |
|  | Fall 2017 | 116 | 44 | 38\% | 34 | 33\% | 45 | 39\% |
|  | Fall 2018 | 99 | 39 | 39\% | 45 | 31\% | 35 | 35\% |
|  | Fall 2019 | 88 | 45 | 51\% | 36 | 29\% | 25 | 28\% |
|  | Average |  |  | 45\% |  | 28\% |  | 28\% |

Note: Excludes MATH10Q sections.

- Success rates for face to face sections increased 8 percentage points from fall 2018 to fall 2019 from 60\% to 68\% while success rates for MPS sections decreased by 3 percentage points from 77\% to 74\% and online success rates increased 12 percentage points from $39 \%$ to 51\%.
- Drop rates for MATH10 decreased for all modalities. Withdraw rates decreased for face to face and online but increased for MPS.
- MPS success rates continued to remain higher than face to face sections by 6 percentage points.

Table 24. MATH10 - Success and Withdraw Rates by Ethnicity

|  |  | Enrollment |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: |
|  | Term | Count | Count | Success | Withdraw | Withdraw |
| Rate | Count | Rate |  |  |  |  |
| African | Fall 2018 | 77 | 40 | $52 \%$ | 15 | $19 \%$ |
| American | Fall 2019 | 73 | 35 | $48 \%$ | 14 | $19 \%$ |
| Asian | Fall 2018 | 653 | 509 | $78 \%$ | 72 | $11 \%$ |
|  | Fall 2019 | 699 | 589 | $84 \%$ | 49 | $7 \%$ |
| Filipinx | Fall 2018 | 149 | 76 | $51 \%$ | 39 | $26 \%$ |
|  | Fall 2019 | 136 | 93 | $68 \%$ | 16 | $12 \%$ |
| Latinx | Fall 2018 | 614 | 277 | $45 \%$ | 157 | $26 \%$ |
|  | Fall 2019 | 552 | 272 | $49 \%$ | 100 | $18 \%$ |
| Native | Fall 2018 | 7 | 4 | $57 \%$ | 1 | $14 \%$ |
| American | Fall 2019 | 4 | 4 | $100 \%$ | 0 | $0 \%$ |
| Pacific | Fall 2018 | 14 | 6 | $43 \%$ | 3 | $21 \%$ |
| Islander | Fall 2019 | 21 | 12 | $57 \%$ | 3 | $14 \%$ |
|  | Fall 2018 | 252 | 172 | $68 \%$ | 35 | $14 \%$ |
| White | Fall 2019 | 223 | 149 | $67 \%$ | 28 | $13 \%$ |
| Decline | Fall 2018 | 14 | 12 | $86 \%$ | 1 | $7 \%$ |
| to State | Fall 2019 | 41 | 27 | $66 \%$ | 4 | $10 \%$ |

Note: Includes all sections of MATH10 standalone and with support.

- Success rates within each ethnic group comparing fall 2018 to fall 2019 improved for Asian, Filipinx, Latinx, and Pacific Islander students, and decreased for African American and Decline to State and remained somewhat unchanged for White students.
- However, the number of overall successful completions increased for: Asian (+80), Filipinx (+17), Pacific Islander (+6), and Decline to State (+15).

Table 25. MATH10 - Success by DSPS Status

|  |  | Enrollment | Success Count | Success |
| :---: | :---: | :---: | :---: | :---: |
| Fall 2015 | DSPS | 25 | 15 | 60\% |
|  | Non-DSPS | 1,050 | 695 | 66\% |
| Fall 2016 | DSPS | 28 | 15 | 54\% |
|  | Non-DSPS | 1,017 | 633 | 62\% |
| Fall 2017 | DSPS | 28 | 16 | 57\% |
|  | Non-DSPS | 1,010 | 642 | 64\% |
| Fall 2018 | DSPS | 55 | 32 | 58\% |
|  | Non-DSPS | 1,725 | 1,064 | 62\% |
| Fall 2019 | DSPS | 64 | 43 | 67\% |
|  | Non-DSPS | 1,685 | I, 138 | 68\% |

- When comparing DSPS students to non-DSPS students in MATH10 courses, DSPS students overall exhibited a lower success rate than their counterparts historically, but this fall, success rates were very similar between the two groups.

Table 26. MATH10 by Course Type and Success by DSPS Status

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DSPS | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| MATHIO + MATH2IOX | 4 | $44 \%$ | 4 | $44 \%$ | 1 | $11 \%$ | 9 | $100 \%$ |
| MATHIO MPS | 11 | $73 \%$ | 4 | $27 \%$ | 0 | $0 \%$ | 15 | $100 \%$ |
| MATHIO Standalone | 28 | $70 \%$ | 8 | $20 \%$ | 4 | $10 \%$ | 40 | $100 \%$ |
| Total | 43 | $67 \%$ | 16 | $25 \%$ | 5 | $8 \%$ | 64 | $100 \%$ |

- Similar to EWRT1A, success rates for DSPS were relatively high and consistent with prior fall terms as displayed above in Table 3 in the MPS and Standalone courses, the low success rate of $44 \%$ in the corequisite brought down the overall success rate in fall 2019.
- The smallest population of DSPS students were in the corequisite course in fall 2019 with the majority in the standalone course, who had a $70 \%$ success rate, above the $68 \%$ success rate of non-DSPS students.


## Graph 3. MATH10 Grade Distribution by Term



| Fall 2019 | A | B | C | D | F | W |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| MATHIO + MATH2IOX | $28 \%$ | $23 \%$ | $13 \%$ | $6 \%$ | $20 \%$ | $11 \%$ |
| MATHIO MPS | $31 \%$ | $28 \%$ | $15 \%$ | $10 \%$ | $6 \%$ | $11 \%$ |
| MATHIO Standalone | $33 \%$ | $18 \%$ | $16 \%$ | $6 \%$ | $14 \%$ | $13 \%$ |

Graph 2 above shows a distribution of the percent of letter grades by the three types of MATH10 course sections in fall 2019.

- Students in the Standalone course had a higher rate of A, C and W grades while students in the MPS course had the highest rates of $B$ and $D$ grades while the Corequisite courses had the highest rates of $F$ grades.
- For A grades, students in Standalone MATH10 received the highest rate of A grades at $33 \%$ of students receiving such grade, followed by $31 \%$ for MPS and $28 \%$ in the Corequisite course.
- For B grades, students in the MPS course received the highest rate of B grades at $28 \%$ followed by the Corequisite course at $23 \%$ then the Standalone course at $19 \%$.
- For C grades, students in the Standalone and MPS courses had similar rate at 15-16\% followed by the Corequisite course at $13 \%$.
- For D grades, there was a similar distribution for Standalone and Corequisite at $6 \%$ while MPS was at 10\%.
- For W grades, MPS and Corequisite were both at $11 \%$ and the Standalone was a bit higher at $13 \%$.
- For F grades, the distribution was highest for the Corequisite course at $20 \%$ compared to $14 \%$ for the Standalone and 6\% for MPS.

Graph 4. MATH10 Distribution of Success by Section - Fall 2019


Note: Includes all MATH10 sections.
Graph 4 above shows a distribution of course success by section for all MATH10 sections. Success rates ranged from 34\% to 100\%.

Table 27. MATH10 Students Who Did Not Pass in Fall 2019

|  | Enrolled in fall 2019 | Did not pass in fall 2019 | \% Did not pass | Enrolled in <br> winter <br> 2020 | \% Enrolled in winter 2020 | Enrolled in MATH in winter 2020 | \% Enrolled in MATH in winter 2020 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Group | \# | \# | \% | \# | \% | \# | \% |
| MATHIO + MATH2IOX | 123 | 45 | 37\% | 32 | 71\% | 11 | 10\% |
| MATHIO MPS | 178 | 47 | 26\% | 41 | 87\% | 8 | 7\% |
| MATHIO Standalone | 1,448 | 476 | 33\% | 378 | 79\% | 96 | 83\% |
| Total | 1,749 | 568 | 32\% | 451 | 79\% | 115 | 100\% |

Note: As of first week of the quarter, not at census.

Table 27 above looks at the students who did not pass MATH10 in fall 2019 and their enrollment in the following term.

- $37 \%$ of students did not pass the MATH10 with a corequisite course in fall 2019 , of these students, $71 \%$ enrolled in the following term.
- $26 \%$ of students did not pass MATH10 MPS in fall 2019, of these students, $87 \%$ were enrolled in the following term.
- $33 \%$ of students did not pass MATH10 standalone, $79 \%$ of these students were enrolled in the following term.
- Of all students who did not pass MATH10 in fall 2019 but enrolled in a MATH course in winter 2020, 10\% of corequisite students took another MATH course, $7 \%$ of MPS students took another MATH course and $83 \%$ of MATH10 standalone students took another MATH course.


## MATH41 Results

Table 28. MATH41 - Success, Drop, and Withdraw Rates

|  |  | Success | Success | Drop | Drop | Withdraw | Withdraw |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | Enrollment | Count | Rate | Count | Rate | Count | Rate |
| Fall 2015 | 698 | 462 | $66 \%$ | 91 | $12 \%$ | 99 | $14 \%$ |
| Fall 2016 | 704 | 392 | $56 \%$ | 101 | $13 \%$ | 137 | $19 \%$ |
| Fall 2017 | 746 | 462 | $62 \%$ | 84 | $10 \%$ | 143 | $19 \%$ |
| Fall 2018 | 776 | 517 | $67 \%$ | 100 | $11 \%$ | 114 | $15 \%$ |
| Fall 2019 | 730 | 429 | $59 \%$ | 108 | $13 \%$ | 117 | $16 \%$ |
| Average |  |  | $62 \%$ |  | $12 \%$ |  | $17 \%$ |

- Overall, there was no shift in access to MATH41, either in fall 2018 or fall 2019, enrollment decreased in fall 2019 by $\mathbf{- 4 6}$ students and success rates decreased 8 percentage points.
- Success rates decreased to $59 \%$ from $67 \%$ in fall 2019 while the percent of students who dropped the course increased by 2 percentage point from $11 \%$ to $13 \%$ and students who withdrew increased 1 percentage point from $15 \%$ to $16 \%$ between fall 2019 and fall 2019.

Table 29. MATH41 - Success Rates by Support Level

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| MATH4I + MATH2I0X | 81 | $55 \%$ | 41 | $28 \%$ | 25 | $17 \%$ | 147 | $100 \%$ |
| MATH4I MPS | 65 | $67 \%$ | 26 | $27 \%$ | 6 | $6 \%$ | 97 | $100 \%$ |
| MATH4I Standalone | 283 | $58 \%$ | 117 | $24 \%$ | 86 | $18 \%$ | 486 | $100 \%$ |
| Average | 429 | $59 \%$ | 184 | $25 \%$ | 117 | $16 \%$ | 730 | $100 \%$ |

- Success rates for MATH41 Standalone were higher than MATH41 with a corequisite, $60 \%$ compared to $55 \%$, though lower than the MPS sections of MATH41 which were at $67 \%$.
- It should be noted for context that while a success rate of $55 \%$ or even $58 \%$ may seem low, it is a oneterm throughput rate that is higher than students who started in MATH114. The one-year throughput rate for students starting in MATH114 who completed MATH41 was $27 \%$ over the past three years, thus, the $55 \%$ or $58 \%$ for one-term is a higher throughput rate when students start directly in MATH41 than if they started in MATH114. See Table 39 for detailed throughput rates.

Table 30. MATH41.Q - Success Rates by Support Level and High School GPA

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Corequisite | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 3.4 or higher | 11 | $92 \%$ | 1 | $8 \%$ |  |  | 12 | $100 \%$ |
| $3.4-2.6$ but no Calculus | 27 | $63 \%$ | 11 | $26 \%$ | 5 | $12 \%$ | 43 | $100 \%$ |
| 2.6 or higher and Calculus | 2 | $100 \%$ |  |  |  |  | 2 | $100 \%$ |
| Less than 2.6 | 11 | $35 \%$ | 11 | $35 \%$ | 9 | $29 \%$ | 31 | $100 \%$ |
| No GPA | 30 | $51 \%$ | 18 | $31 \%$ | 11 | $19 \%$ | 59 | $100 \%$ |
| Total | 81 | $55 \%$ | 41 | $28 \%$ | 25 | $17 \%$ | 147 | $100 \%$ |

Note: Includes only actual high school GPAs from CalPass Plus.

- Success rates in MATH41 with corequisite support decreased as students' high school GPA decreased. Success rates for students with a 3.4 GPA or higher had a $92 \%$ success rate followed by students with a 3.4-2.6 GPA and had not enrolled in Calculus in high school at 63\%.

Table 31. MATH41.MPS - Success Rates by Support Level and High School GPA

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MPS | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 3.4 or higher | 4 | $67 \%$ | 1 | $17 \%$ | 1 | $17 \%$ | 6 | $100 \%$ |
| $3.4-2.6$ but no Calculus | 21 | $78 \%$ | 4 | $15 \%$ | 2 | $7 \%$ | 27 | $100 \%$ |
| 2.6 or higher and Calculus | 1 | $100 \%$ |  |  |  |  | 1 | $100 \%$ |
| Less than 2.6 | 8 | $40 \%$ | 11 | $55 \%$ | 1 | $5 \%$ | 20 | $100 \%$ |
| No GPA | 31 | $72 \%$ | 10 | $24 \%$ | 2 | $4 \%$ | 43 | $100 \%$ |
| Total | 65 | $67 \%$ | 26 | $27 \%$ | 6 | $6 \%$ | 97 | $100 \%$ |

Note: Includes only actual high school GPAs from CalPass Plus.

- Success rates in MATH41 MPS was largely comprised of students without a GPA in file, these students had a success rate of $72 \%$. The next largest group were students with a 3.4-2.6 GPA without Calculus, their success rate was $78 \%$. The 20 students with less than a 2.6 GPA had the lowest success rate at $40 \%$.

Table 32. MATH41.Standalone - Success Rates by Support Level and High School GPA

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Standalone | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| 3.4 or higher | 79 | $86 \%$ | 11 | $12 \%$ | 2 | $2 \%$ | 92 | $100 \%$ |
| $3.4-2.6$ but no Calculus | 51 | $58 \%$ | 23 | $26 \%$ | 14 | $16 \%$ | 88 | $100 \%$ |
| 2.6 or higher and Calculus | 4 | $44 \%$ | 4 | $44 \%$ | 1 | $11 \%$ | 9 | $100 \%$ |
| Less than 2.6 | 26 | $30 \%$ | 27 | $33 \%$ | 32 | $37 \%$ | 85 | $100 \%$ |
| No GPA | 123 | $58 \%$ | 52 | $25 \%$ | 37 | $17 \%$ | 212 | $100 \%$ |
| Total | 283 | $58 \%$ | 117 | $24 \%$ | 86 | $18 \%$ | 486 | $100 \%$ |

Note: Includes only actual high school GPAs from CalPass Plus.

- Success rates in MATH41 Standalone also decreased as high school GPA decreased. Success rates for students with a 3.4 GPA or higher had an $86 \%$ success rate followed by students with a 3.4-2.6 GPA and had not enrolled in Calculus in high school at 58\%. Students with less than a 2.6 GPA had a success rate of $30 \%$, and this was 85 total students.

Table 33. MATH41 - Success and Withdraw Rates by Ethnicity

|  |  | Enrollment Count | Success <br> Count | Success <br> Rate | Withdraw Count | Withdraw <br> Rate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| African | Fall 2018 | 18 | 11 | 61\% | 6 | 33\% |
| American | Fall 2019 | 26 | 13 | 50\% | 7 | 27\% |
| Asian | Fall 2018 | 375 | 275 | 73\% | 46 | 12\% |
|  | Fall 2019 | 306 | 214 | 70\% | 31 | 10\% |
| Filipinx | Fall 2018 | 55 | 39 | 71\% | 5 | 9\% |
|  | Fall 2019 | 52 | 30 | 58\% | 7 | 13\% |
| Latinx | Fall 2018 | 179 | 90 | 50\% | 29 | 16\% |
|  | Fall 2019 | 208 | 87 | 42\% | 51 | 25\% |
| Native | Fall 2018 | 1 | I | 100\% | 0 | 0\% |
| American | Fall 2019 | I | I | 100\% | 0 | 0\% |
| Pacific | Fall 2018 | 4 | I | 25\% | 0 | 0\% |
| Islander | Fall 2019 | 3 | I | 33\% | 2 | 67\% |
| White | Fall 2018 | 139 | 97 | 70\% | 28 | 20\% |
|  | Fall 2019 | 123 | 75 | 61\% | 19 | 15\% |
| Decline | Fall 2018 | 4 | 3 | 75\% | 0 | 0\% |
| to State | Fall 2019 | 11 | 8 | 73\% | 0 | 0\% |

- Success rates within each ethnic group comparing fall 2018 to fall 2019 decreased for all racial/ethnic groups except Pacific Islander students.

Table 34. MATH41 - Success by DSPS Status

|  |  | Success | \% |  |
| :--- | :--- | ---: | ---: | ---: |
|  |  | Enrollment | Count | Success |
| Fall 2015 | DSPS | 9 | 3 | $33 \%$ |
|  | Non-DSPS | 689 | 459 | $67 \%$ |
| Fall 2016 | DSPS | 18 | 11 | $61 \%$ |
|  | Non-DSPS | 686 | 381 | $56 \%$ |
| Fall 2017 | DSPS | 21 | 10 | $48 \%$ |
|  | Non-DSPS | 725 | 452 | $62 \%$ |
| Fall 2018 | DSPS | 19 | 12 | $63 \%$ |
|  | Non-DSPS | 756 | 505 | $67 \%$ |
| Fall 2019 | DSPS | 22 | 15 | $68 \%$ |
|  | Non-DSPS | 708 | 414 | $58 \%$ |

- When comparing DSPS students to non-DSPS students in MATH41 courses, DSPS students on average exhibit lower success rates than their counterparts. Though this was not the case in fall 2019, where DSPS students exhibited a success rate 10 percentage points higher than their non-DSPS counterparts.

Table 35. MATH41 - Success by DSPS Status and Course Type

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DSPS | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| MATH4I + MATH2I0X | 0 | $0 \%$ | 0 | $0 \%$ | 1 | $100 \%$ | 1 | $100 \%$ |
| MATH4I MPS | 3 | $50 \%$ | 2 | $33 \%$ | 1 | $17 \%$ | 6 | $100 \%$ |
| MATH4I Standalone | 12 | $80 \%$ | 1 | $7 \%$ | 2 | $13 \%$ | 15 | $100 \%$ |
| Average | 15 | $68 \%$ | 3 | $14 \%$ | 4 | $18 \%$ | 22 | $100 \%$ |

- DSPS students in the standalone MATH41 section did very well with a success rate of $80 \%$. The MPS sections had a success rate of $50 \%$ while there was only 1 student in the corequiste who withdrew.

Graph 6. MATH41 Grade Distribution by Term


| Fall 20I9 | A | B | C | D | F | W |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| MATH4I + MATH2IOX | $24 \%$ | $19 \%$ | $12 \%$ | $5 \%$ | $22 \%$ | $17 \%$ |
| MATH4I MPS | $31 \%$ | $22 \%$ | $14 \%$ | $9 \%$ | $18 \%$ | $6 \%$ |
| MATH4I Standalone | $26 \%$ | $19 \%$ | $15 \%$ | $6 \%$ | $19 \%$ | $16 \%$ |

Graph 2 above shows a distribution of the percent of letter grades by MATH10 course sections in fall 2019 with different types of support.

- Students in the MPS sections of MATH41 had the highest rate of $A$ and $B$ grades, as well as D grades while students in the Corequisite course had the lowest rates of A, C and D grades and the highest rate of $F$ grades. Students in the Standalone section had the highest rates of $A$ then $B$ and $F$ grades.
- For A grades, students in MPS MATH41 received the highest rate of A grades at $31 \%$ of students receiving such grade, followed by $26 \%$ in the Standalone course and $24 \%$ in the Corequisite course.
- For B grades, students in the MPS section had the highest rate at of B grades at $22 \%$ followed by the standalone course and Corequisite course, both at $19 \%$.
- For C grades, students in the MPS sections had similar rates as the Standalone course at 14-15\% and the Corequisite course at $12 \%$.
- For D grades, there was a similar distribution for Standalone and Corequisite at $5-6 \%$ though MPS was the highest at 9\%.
- For F grades, the distribution was similar for the Standalone and Corequisite course at 16-17\% compared to just 6\% for MPS.


## Graph 7. MATH41 Distribution of Success by Section - Fall 2019



Note: Includes all MATH41 sections.
Graph 7 above shows a distribution of course success by section for MATH41 sections in fall 2019. Success rates ranged from $\mathbf{3 1 \%}$ to $\mathbf{8 5 \%}$.

Table 36. MATH41 Students Who Did Not Pass in Fall 2019

|  | Enrolled in fall 2019 | Did not pass in fall $2019$ | \% Did not pass | Enrolled <br> in winter $2020$ | \% Enrolled in winter 2020 | Enrolled in MATH in winter 2020 | \% Enrolled in MATH in winter 2020 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Group | \# | \# | \% | \# | \% | \# | \% |
| MATH4I + MATH2IOX | 147 | 66 | 45\% | 57 | 86\% | 25 | 23\% |
| MATH4I MPS | 97 | 32 | 33\% | 28 | 88\% | 12 | 11\% |
| MATH4I Standalone | 486 | 203 | 42\% | 160 | 79\% | 74 | 67\% |
| Total | 730 | 301 | 41\% | 245 | 81\% | 111 | 100\% |

Table 36 above looks at students who did not pass MATH41 in fall 2019 and their enrollment in the following term.

- $45 \%$ of students did not pass the MATH41 with a corequisite course in fall 2019, of these students, $86 \%$ enrolled in the following term.
- $33 \%$ of students did not pass MATH41 MPS in fall 2019, of these students, $88 \%$ were enrolled in the following term.
- $42 \%$ of students did not pass MATH41 standalone, $79 \%$ of these students were enrolled in the following term.
- Of all students who did not pass MATH41 in fall 2019 but enrolled in a MATH course in winter 2020, 23\% of Corequisite students took another MATH course, $11 \%$ of MPS students took another MATH course and $67 \%$ of MATH41 Standalone students took another MATH course.


## Math1A Results

Table 37. MATH1A Enrollment, Success, Drops and Withdraws

|  | Enrollment <br> Count | Success <br> Count | Success <br> Rate | Drop <br> Count | Drop |  | Withdraw Withdraw |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Rate | Count | Rate |  |  |  |  |  |
| Fall 2015 | 536 | 374 | $70 \%$ | 47 | $8 \%$ | 67 | $13 \%$ |
| Fall 2016 | 527 | 366 | $69 \%$ | 33 | $6 \%$ | 85 | $16 \%$ |
| Fall 2017 | 502 | 367 | $73 \%$ | 67 | $12 \%$ | 64 | $13 \%$ |
| Fall 2018 | 559 | 374 | $67 \%$ | 57 | $9 \%$ | 91 | $16 \%$ |
| Fall 2019 | 758 | 528 | $70 \%$ | 116 | $13 \%$ | 90 | $12 \%$ |
| Average |  |  | $70 \%$ |  | $10 \%$ |  | $14 \%$ |

- Enrollment in MATH1A in fall 2019 increased by +199 students, a $36 \%$ increase.
- At the same time, success rates overall went up 2 percentage points from $67 \%$ to $70 \%$ while the number of overall successful completions increased by +154 successful completions or by $41 \%$.
- Drops in MATH1A did increase 4 percentage points though withdraws decreased 4 percentage points from the prior fall.

Table 38. MATH1A Success Rates

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| Fall 2015 | 374 | $70 \%$ | 95 | $18 \%$ | 67 | $13 \%$ | 536 | $100 \%$ |
| Fall 2016 | 366 | $69 \%$ | 76 | $14 \%$ | 85 | $16 \%$ | 527 | $100 \%$ |
| Fall 2017 | 367 | $73 \%$ | 71 | $14 \%$ | 64 | $13 \%$ | 502 | $100 \%$ |
| Fall 2018 | 374 | $67 \%$ | 94 | $17 \%$ | 91 | $16 \%$ | 559 | $100 \%$ |
| Fall 2019 | 528 | $70 \%$ | 140 | $18 \%$ | 90 | $12 \%$ | 758 | $100 \%$ |
| Average |  | $70 \%$ |  | $16 \%$ |  | $14 \%$ |  |  |

- Success rates increased from $67 \%$ in fall 2018 to $70 \%$ in fall 2019 while non success rates increased 1 percentage point from $17 \%$ to $18 \%$ and withdraw rates decreased from $16 \%$ to $12 \%$.

Table 39. MATH1A Success Rates

|  |  | Enrollment |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: | ---: |
|  | Corm | Success | Success Withdraw Withdraw |  |  |  |
|  | Count | Count | Rate | Count | Rate |  |
| African | Fall 2018 | 14 | 5 | $36 \%$ | 4 | $29 \%$ |
| American | Fall 2019 | 19 | 13 | $68 \%$ | 2 | $11 \%$ |
| Asian | Fall 2018 | 375 | 261 | $70 \%$ | 56 | $15 \%$ |
|  | Fall 2019 | 499 | 371 | $74 \%$ | 82 | $16 \%$ |
| Filipinx | Fall 2018 | 25 | 15 | $60 \%$ | 7 | $28 \%$ |
|  | Fall 2019 | 33 | 22 | $67 \%$ | 6 | $18 \%$ |
| Latinx | Fall 2018 | 42 | 26 | $62 \%$ | 10 | $24 \%$ |
|  | Fall 2019 | 78 | 33 | $42 \%$ | 22 | $28 \%$ |
| Native | Fall 2018 | 1 | 0 | $0 \%$ |  | $0 \%$ |
| American | Fall 2019 | 1 | 1 | $100 \%$ |  | $0 \%$ |
| Pacific | Fall 2018 | 1 | 1 | $100 \%$ |  | $0 \%$ |
| Islander | Fall 2019 | 1 | 1 | $100 \%$ |  | $0 \%$ |
| White | Fall 2018 | 89 | 58 | $65 \%$ | 14 | $16 \%$ |
|  | Fall 2019 | 109 | 76 | $70 \%$ | 21 | $19 \%$ |
| Decline to | Fall 2018 | 12 | 8 | $67 \%$ | 2 | $17 \%$ |
| State | Fall 2019 | 18 | 11 | $61 \%$ | 5 | $28 \%$ |

- Enrollment in MATH1A increased for all ethnic groups. Enrollment increased by +5 African American students, +124 Asian students, +8 Filipinx students, +36 Latinx students, +18 White students, and +6 Decline to State students.
- The number of successful completions also increased for all ethnic groups though success rates decreased for Latinx and Decline Students.

Table 40. MATH1A Success Rates by GPA

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| Above 3.4 | 104 | $74 \%$ | 25 | $18 \%$ | 12 | $9 \%$ | 141 | $100 \%$ |
| 3.4 to 2.6 and Calculus | 46 | $69 \%$ | 12 | $18 \%$ | 9 | $13 \%$ | 67 | $100 \%$ |
| 3.4 to 2.6 and no Calculus | 46 | $64 \%$ | 16 | $22 \%$ | 10 | $14 \%$ | 72 | $100 \%$ |
| Less than 2.6 | 23 | $52 \%$ | 12 | $27 \%$ | 9 | $20 \%$ | 44 | $100 \%$ |
| No GPA | 309 | $71 \%$ | 75 | $17 \%$ | 50 | $12 \%$ | 434 | $100 \%$ |
| Total | 528 | $70 \%$ | 140 | $18 \%$ | 90 | $12 \%$ | 758 | $100 \%$ |

- Using CalPASS Plus high school transcript data, which are actual transcripts rather than self-reported high school information, the largest group of students do not have a GPA on file at CalPass Plus, their success rate was $71 \%$.
- The next largest group were students above a 3.4 GPA with the highest success rates at 74\%.
- Students with a 3.4 to 2.6 and no Calculus were the next largest group with a $64 \%$ success rate.
- Students with a 3.4 to 2.6 and Calculus were the next largest with a $69 \%$ success rate.
- The smallest group, students with less than a 2.6 GPA had the lowest success rate at $52 \%$.

Table 41. MATH1A Success Rates by Placement Type

|  | Success |  | Non Success |  | Withdraw |  | Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Grades | Percent | Grades | Percent | Grades | Percent | Grades | Percent |
| All Other Placements | 251 | $71 \%$ | 56 | $16 \%$ | 46 | $13 \%$ | 353 | $100 \%$ |
| MATHIA - Guided Self-Placement | 87 | $71 \%$ | 22 | $18 \%$ | 14 | $11 \%$ | 123 | $100 \%$ |
| MATHIA - High School GPA | 190 | $67 \%$ | 62 | $22 \%$ | 30 | $11 \%$ | 282 | $100 \%$ |
| Total | 528 | $70 \%$ | 140 | $18 \%$ | 90 | $12 \%$ | 758 | $100 \%$ |

- Success rates are very similar across the various ways students were placed.
- Students who had a placement that was older than two years old which placed them into a course other than MATH1A had a success rate of $71 \%$, similar to students who were placed via guided self-placement with a success rate of $71 \%$ as well. Students who were placed with high school data had a slightly lower success rate at $67 \%$.

Table 42. MATH1A Success Rates by Section


- Success rates in MATH1A ranges from $45 \%$ to $100 \%$


## Math Throughput Rates

Table 43. Transfer Level Math - Starting at All Levels - Throughput Rates

| Sequence Begin Course - <br> Any MATH Course | First-time Students | All Transfer MATH Completion - Fall |  | All Transfer MATH <br> Completion - Winter |  | All Transfer MATH <br> Completion - Spring |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fall 2018 - All Starting Levels | 1,384 | 642 | 46\% | 770 | 56\% | 857 | 62\% |
| Fall 2017 - All Starting Levels | 1,624 | 362 | 22\% | 502 | 31\% | 654 | 40\% |
| Fall 2016 - All Starting Levels | 1,815 | 374 | 21\% | 523 | 29\% | 667 | 37\% |
| Fall 2015 - All Starting Levels | 1,770 | 400 | 23\% | 534 | 30\% | 660 | 37\% |

As displayed in Table 29 above, throughput rates for all first time students enrolled in a Math course as their first course of enrollment increased between fall 2016 and fall 2017 from $37 \%$ to $40 \%$ and the greatest increase was between fall 2017 and fall 2008 from $40 \%$ to $62 \%$.

Table 44. Transfer Level Math Including MATH10- Throughput Rates

| First Level Enrolled | First-time Student Cohort |  | Fall Transfer-Level MATH Completion |  | Winter Transfer- <br> Level MATH <br> Completion |  | Spring Transfer- <br> Level MATH <br> Completion |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MATH 210 | Fall 18 | 39 | 0 | 0\% | 1 | 3\% | 1 | 3\% |
|  | Fall 17 | 315 | 0 | 0\% | 0 | 0\% | 0 | 0\% |
|  | Fall 16 | 299 | 0 | 0\% | 0 | 0\% | 0 | 0\% |
| MATH 212 | Fall 18 | 102 | 0 | 0\% | 4 | 4\% | 25 | 25\% |
|  | Fall 17 | 578 | 0 | 0\% | 2 | 0\% | 101 | 17\% |
|  | Fall 16 | 606 | 0 | 0\% | 2 | 0\% | 88 | 15\% |
| MATH II 4 | Fall 18 | 244 | I | 0\% | 75 | 31\% | 101 | 41\% |
|  | Fall 17 | 317 | 1 | 0\% | 124 | 39\% | 168 | 53\% |
|  | Fall 16 | 376 | 1 | 0\% | 112 | 30\% | 148 | 39\% |
| MATH 10 | Fall 18 | 498 | 275 | 55\% | 294 | 59\% | 311 | 62\% |
|  | Fall 17 | 102 | 81 | 79\% | 85 | 83\% | 90 | 88\% |
|  | Fall 16 | 93 | 67 | 72\% | 71 | 76\% | 72 | 77\% |

Throughput rates track first time students in each fall term and check to see if they successfully completed any transfer-level math course over 3 quarters. Students who start directly in MATH10 are tracked for three terms to successful completion of MATH10.

- Throughput rates for MATH210 range from 0\%-3\%
- Throughput rates for MATH212 range from $15 \%-25 \%$
- Throughput rates for MATH114 range from 39\%-53\%
- Throughput rates for MATH10 range from $62 \%-88 \%$


# Table 45. Completion of MATH41- Throughput Rates 

| First Level Enrolled | First-time Student Cohort |  | Fall MATH4I <br> Completion |  | Winter MATH4I <br> Completion |  | Spring MATH4I <br> Completion |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MATH 210 | Fall 18 | 39 | 0 | 0\% | 0 | 0\% | 0 | 0\% |
|  | Fall 17 | 315 | 0 | 0\% | 0 | 0\% | 0 | 0\% |
|  | Fall 16 | 299 | 0 | 0\% | 0 | 0\% | 0 | 0\% |
| MATH 212 | Fall 18 | 102 | 0 | 0\% | 0 | 0\% | 8 | 8\% |
|  | Fall 17 | 578 | 0 | 0\% | 1 | 0\% | 30 | 5\% |
|  | Fall 16 | 606 | 0 | 0\% | 2 | 0\% | 28 | 5\% |
| MATH II4 | Fall 18 | 244 | 0 | 0\% | 55 | 23\% | 69 | 28\% |
|  | Fall 17 | 317 | 0 | 0\% | 65 | 21\% | 86 | 27\% |
|  | Fall 16 | 376 | 0 | 0\% | 71 | 19\% | 94 | 25\% |
| MATH 4I | Fall 18 | 258 | 208 | 81\% | 219 | 85\% | 230 | 89\% |
|  | Fall 17 | 176 | 134 | 76\% | 140 | 80\% | 145 | 82\% |
|  | Fall 16 | 203 | 137 | 67\% | 154 | 76\% | 161 | 79\% |

Throughput rates track first time students in each fall term and check to see if they successfully completed MATH41 over 3 quarters. Students who start directly in MATH41 are tracked for three terms to successful completion of MATH41.

- No students who started in MATH210 successfully completed MATH41
- Throughput rates for MATH212 range between $5 \%-8 \%$
- Throughput rates for MATH114 range from 25\%-28\%
- Throughput rates for MATH41 range from 79\%-89\%


## Background Information

In fall 2018 the English and Math departments began to change the way they place students into courses 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 3.4 GPA or a 2.6 and had enrolled in Calculus in high school were eligible to enroll in Math41 (Pre-calculus).

Math Performance Success (MPS) is a learning community for students in MATH10 and now MATH41. It requires students to enroll in a 10 -unit course opposed to a 5 -unit course. Success rates have historically been high for this learning community and the numbers of sections offered continues to expand.

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 starting 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.

