**Data Shows Connection Between COA Library Chromebook Checkouts and Increased Student Success – Academic Year 2023-2024**

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**Overview**

Services that improve student success in community colleges are important not only to individual students' success but also to college planning and funding. This document provides the results of a data request carried out to explore whether the checkout of the COA Library’s Chromebooks by College of Alameda Students is associated with higher success rates than the institutional standard. The data was limited to 2023-2024 and drew on demographic data from the district’s enrollment system and instances of Chromebook checkouts from the library's management system. COA Library Chromebooks were checked out to 3% of the College of Alameda Student Population in Academic Year 2023-2024.

**The data shows a higher rate of Chromebook checkouts and success rate for equity-impacted groups (including Black/African American, low-income, SAS and Foster Youth) in comparison to that same group in the general population in Academic Year 2023-2024.**

**Data also indicates that checking out a COA Library Chromebook (from the Circulating Collection) is associated with a higher student success rate** for equity-impacted groups such as Black/ African Americans (57% success rate in general population for Academic Year 2023-2024, 58% success rate in Library Check-out Subgroup from Academic Year 2023-2024), Hispanic/Latinos (66% success rate in general population for Academic Year 2023-2024, 71% success rate in Library Checkout Subgroup from Academic Year 2023-2024), Two or More (66% success rate in general population for Academic Year 2023-2024, 67% success rate in Library Checkout Subgroup from Academic Year 2023-2024), Low Income (67% success rate in general population for Academic Year 2023-2024, 72% success rate in Library Checkout Subgroup from Academic Year 2023-2024), DSPS (66% success rate in general population for Academic Year 2023-2024, 67% success rate in Library Checkout Subgroup from Academic Year 2023-2024), and Foster Youth (40% success rate in general population for Academic Year 2023-2024, 51% success rate in Library Checkout Subgroup from Academic Year 2023-2024). *(See below, Data Table 1)*

**Data also showed higher rates of checkout of COA Library Chromebooks by equity-impacted groups** such as Black/African Americans (27% of students checking out books in Academic Year 2023-2024, compared to 19% in general population in Academic Year 2023-2024) low income students (85% of students checking out books in Academic Year 2023-2024, compared to 66% in general population in Academic Year 2023-2024), Foster Youth students (8% of students checking out books in Academic Year 2023-2024, compared to 2% in general population in Academic Year 2023-2024), and SAS students (9 % of students checking out books in Academic Year 2023-2024, compared to 5% in general population in Academic Year 2023-2024) as compared to their make-up in the general population. *(see below, Data Table 2)*

Therefore, continuing support and improvement of library services is an important part in serving the equity-impacted population at COA. Findings from this study suggest that the COA Library can contribute to the success of students by providing access to working Chromebooks.

**Table 1 - Success Rate Comparison between COA General Population vs. Library Checkout Subgroup (2023-2024)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | |  |  |  |  |  |  |  |  |  |
|  | **General Population (COA), 2023-2024** | | | | | |  | **Library Checkout Subgroup (COA), 2023-2024** | | | | | |
|  |  | **Categories** | **Census Enrollment** | **Success** | **Success Rate** | **Percentage Point Gap compared to Overall College Success Rate** |  |  | **Categories** | **Census Enrollment** | **Success** | **Success Rate** | **Percentage Point Gap compared to College Success Rate for same group in the General Population** |
|  | Ethnicity | American Indian | 72 | 41 | 57% | -15% |  | Ethnicity | American Indian | < 5 | < 5 | 0% | \*\* |
|  |  | Asian | 7,468 | 6,287 | 84% | 13% |  |  | Asian | 246 | 200 | 81% | -3% |
|  | Black / African American | 3,980 | 2,270 | 57% | -15% |  | Black / African American | 246 | 143 | 58% | 1% |
|  | Hispanic / Latino | 6,247 | 4,132 | 66% | -5% |  | Hispanic / Latino | 222 | 158 | 71% | 5% |
|  | Pacific Islander | 78 | 52 | 67% | -5% |  | Pacific Islander | < 5 | < 5 | 40% | \*\* |
|  | Two or More | 1,624 | 1,073 | 66% | -5% |  | Two or More | 78 | 52 | 67% | 1% |
|  | Unknown / NR | 719 | 547 | 76% | 4% |  | Unknown / NR | 34 | 22 | 65% | -12% |
|  | White | 3,833 | 2,787 | 73% | 1% |  | White | 242 | 184 | 76% | 3% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Gender | Female | 12,920 | 9,086 | 70% | -1% |  | Gender | Female | 726 | 535 | 74% | 4% |
|  |  | Male | 10,127 | 7,418 | 73% | 2% |  |  | Male | 337 | 216 | 64% | -9% |
|  | Unknown | 974 | 685 | 70% | -1% |  | Unknown | 12 | 10 | 83% | 13% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Special Populations | Low\_Income | 16,040 | 10,815 | 67% | -4% |  | Special Populations | Low\_Income | 932 | 667 | 72% | 5% |
|  |  | DSPS | 1,555 | 1,031 | 66% | -5% |  |  | DSPS | 207 | 139 | 67% | 1% |
|  | Foster\_Youth | 492 | 198 | 40% | -31% |  | Foster\_Youth | 84 | 43 | 51% | 11% |
|  | Veterans | 242 | 161 | 67% | -5% |  | Veterans | 15 | 9 | 60% | -7% |
|  | **Overall College Total** | **24,021** | **17,189** | **72%** |  |  | **2023-2024 Sub group - Total** | **1,075** | **761** | **71%** | -1% |

**Table 3 - Demographic Data – General Population compared to Library Checkout Subgroup (2023-2024)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |
|  | **General Population (COA), 2023-2024** | | | |  | **COA Library Subgroup, 2023-2024** | | | | |
|  |  | **Categories** | **All students** | **% to total** |  |  | **Categories** | **Library Sub group** | **% to total** | **Percentage Point Gap to the College Category** |
|  | Ethnicity | American Indian | 31 | 0.3% |  | Ethnicity | American Indian | \* | < 5 % | \* |
|  |  | Asian | 2740 | 25.4% |  |  | Asian | 53 | 19.7% | -5.7% |
|  | Black / African American | 2012 | 18.7% |  | Black / African American | 72 | 26.8% | 8.1% |
|  | Hispanic / Latino | 3089 | 28.7% |  | Hispanic / Latino | 48 | 17.8% | -10.9% |
|  | Pacific Islander | 39 | 0.4% |  | Pacific Islander | \* | < 5 % | \* |
|  | Two or More | 751 | 7.0% |  | Two or More | 24 | 8.9% | 1.9% |
|  | Unknown / NR | 285 | 2.6% |  | Unknown / NR | 9 | 3.3% | 0.7% |
|  | White | 1828 | 17.0% |  | White | 59 | 21.9% | 4.9% |
|  | Total | 10775 | 100% |  | Total | 269 | 100% |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | Gender | Female | 5962 | 55.3% |  | Gender | Female | 168 | 62.5% | 7.2% |
|  |  | Male | 4295 | 39.9% |  |  | Male | 96 | 35.7% | -4.2% |
|  | Unknown | 518 | 4.8% |  | Unknown | \* | <5 % | \* |
|  | Total | 10775 | 100% |  | Total | 269 | 100% |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | Special Populations | Low\_Income | 7114 | 66.0% |  | Special Populations | Low\_Income | 229 | 85.1% | 19.1% |
|  |  | DSPS | 583 | 5.4% |  |  | DSPS | 25 | 9.3% | 3.9% |
|  | Foster\_Youth | 218 | 2.0% |  | Foster\_Youth | 22 | 8.2% | 6.2% |
|  | Veterans | 112 | 1.0% |  | Veterans | \* | < 5 % | \* |
|  |  |  |  |  |  |  |  |  |  |  |

**Methods**

In Spring 2025, the Head Librarian used the Library Management System to generate a list of patron id numbers (this is different from patron barcode) for the last patron to check out any Chromebooks in Academic Year 2023-2024 This list was given to the institutional researcher to run data on this Library Check-out Subgroup such as demographics, success rates, , etc. and also provide college averages in these areas as a comparison.