|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Effect | Algebra 2 | | | | | | | | AP Class | | | | | | | | Biology | | | | | | | | | Chemistry | | | | | | | | |
|  | Estimate | *SE* | 95% CI | | | *p* | | | Estimate | | *SE* | | 95% CI | | *p* | | Estimate | | *SE* | | 95% CI | | *p* | | | Estimate | | *SE* | 95% CI | | | | *p* | |
| *LL* | | *UL* | *LL* | *UL* | *LL* | *UL* | *LL* | | *UL* | |
| Fixed Effects | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intercept | -.00 | .16 | -.32 | | .32 | .99 | | | -.11 | | .14 | | -.39 | .17 | .432 | | .03 | | .17 | | -.30 | .36 | .86 | | | .01 | | .16 | -.30 | | .32 | | .94 | |
| Course | -.02 | .01 | -.04 | | -.00 | .03 | | | -.08 | | .01 | | -.10 | -.06 | <.001 | | .01 | | .01 | | -.01 | .02 | .55 | | | -.04 | | .01 | -.06 | | -.02 | | <.001 | |
| Tracks | -.08 | .04 | -.16 | | -.01 | .04 | | | -.08 | | .03 | | -.15 | -.01 | .02 | | -.08 | | .04 | | -.16 | -.00 | .04 | | | -.08 | | .04 | -.15 | | -.01 | | .03 | |
| Diversity | .59 | .10 | .39 | | .78 | <.001 | | | .51 | | .09 | | .33 | .68 | <.001 | | .63 | | .10 | | .43 | .83 | <.001 | | | .57 | | .10 | .38 | | .75 | | <.001 | |
| Census | .02 | .04 | -.06 | | .11 | .60 | | | .05 | | .04 | | -.02 | .13 | .15 | | .01 | | .04 | | -.08 | .10 | .78 | | | .02 | | .04 | -.06 | | .10 | | .59 | |
| Random Effects | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Within-District Variance | | | |  | | | .01 |  | |  | |  | |  | | .02 |  |  | |  | |  | | .02 |  | |  | | |  | |  | | .02 |
| Between District Variance | | | |  | | | .03 |  | |  | |  | |  | | .02 |  |  | |  | |  | | .03 |  | |  | | |  | |  | | .02 |
| ICC | | | |  | | | .64 |  | |  | |  | |  | | .55 |  |  | |  | |  | | .65 |  | |  | | |  | |  | | .61 |
| N | | | |  | | | 118 |  | |  | |  | |  | | 118 |  |  | |  | |  | | 118 |  | |  | | |  | |  | | 118 |
| Observations | | | |  | | | 676 |  | |  | |  | |  | | 637 |  |  | |  | |  | | 690 |  | |  | | |  | |  | | 667 |

Table x.y Multilevel Model Results for Percent Black in courses Relative to School Enrollment

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **(1)** | **(2)** | **(3)** | **(4)** |
|  | **Algebra 2** | **AP Class** | **Biology** | **Chemistry** |
| **Intercept** | -.00  (.16) | -.11  (.14) | .03  (.17) | .01  (.16) |
| **Course a** | -.02\*  (.01) | -.08\*\*\*  (.01) | .01  (.01) | -.04\*\*\*  (.01) |
| **Tracks b** | -.08\*  (.04) | -.08\*  (.03) | -.08\*  (.04) | -.08\*  (.04) |
| **Diversity c** | .59\*\*\*  (.10) | .51\*\*\*  (.09) | .63\*\*\*  (.10) | .57\*\*\*  (.10) |
| **Census (log)** | .02  (.04) | .05  (.04) | .01  (.04) | .02  (.04) |
| **Random Effects:** |  | | | |
| Within-District Variance | .01 | .02 | .02 | .02 |
| Between District Variance | .03 | .02 | .03 | .02 |
| ICC | .64 | .55 | .65 | .61 |
| N | 118 | 118 | 118 | 118 |
| Observations | 676 | 637 | 690 | 667 |
| **R-squared (Conditional)** | 0.713 | 0.650 | 0.717 | 0.682 |
| \* The individual coefficient is statistically significant at the \*5% level, \*\*1% level, or \*\*\*0.1% level.  a This is the binary comparison between the racial composition of that course and the percent Black of the enrolling school, where the enrolling school is the comparison baseline. b Tracks in this case refers to the number of available course tracks for all SOL-eligible courses in the district. c Refers to the diversity index in Kelly & Price (citation) | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Levels of Courses | | | | |
|  | Estimate | *SE* | 95% CI | | *p* |
| *LL* | *UL* |  |
| Intercept | -.35 | .80 | -1.93 | 1.23 | .678 |
| Diversity Index a | .83 | .27 | .28 | 1.37 | .044 |
| Percent FRPL b | -.59 | .21 | -1.01 | -.18 | .037 |
| Log Enrollment c | .48 | .17 | .14 | .82 | .034 |
| *Note.* Number of districts = 119.  *CI* = confidence interval; *LL* = lower limit; *UL* = upper limit. | | | | | |
| a Diversity index from Kelly and Price (2011). b Percent of students qualifying for free and reduced price lunch. c Common logarithm, base 10. | | | | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Levels of Courses | | | Levels of Courses | | |
| Predictors | Estimates | *CI* | *p* | Estimates | *CI* | *p* |
| Intercept | 0.08 | -1.11 – 1.27 | 0.893 | 0.21 | -1.36 – 1.78 | 0.783 |
| Diversity Index | 0.71 | 0.17 – 1.25 | 0.008 | 0.69 | 0.11 – 1.28 | 0.018 |
| Percent FRPL | -0.49 | -0.93 – -0.05 | 0.027 | -0.53 | -1.01 – -0.05 | 0.027 |
| Log Enrollment | 0.21 | 0.07 – 0.34 | 0.002 | 0.19 | 0.02 – 0.37 | 0.029 |
| Urban |  |  |  | 0.05 | -0.19 – 0.28 | 0.706 |
| Mostly rural |  |  |  | 0.01 | -0.32 – 0.30 | 0.947 |
| Observations | 120 | | | 119 | | |
| R2 / R2 adjusted | 0.398 / 0.382 | | | 0.396 / 0.369 | | |