“There is no end of course test for precalculus in high schools, so content and rigor varies widely. Scores of 500 or better on the Math SAT and 20 or better on the ACT are very good indicators for success in most math classes, but we currently admit many students who do not achieve these minimum scores. The placement test can distinguish between those students who truly need a more introductory college math course and those who are ready for college level mathematics.”

-W University internal report 2019…

# *Some Colleges Are Waiving SAT and ACT Requirements*

With high school disrupted, a growing number of schools are waiving standardized testing requirements for 2021 applicants.

A screenshot of a cell phone

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<https://www.nytimes.com/2020/04/15/us/sat-act-test-optional-colleges-coronavirus.html>

**Prerequisite Course Recommendations**

|  |  |  |  |
| --- | --- | --- | --- |
| **Course** | **Criteria Group 1** | **Criteria Group 2** | **Criteria Group 3** |
| **Math 112** |  | Math SAT < 500  **AND** Placement < 20 | ACT < 20  **AND** Placement < 23 |
| **Math 115** | Math SAT ≥ 500  **OR** ACT ≥ 20  **OR** Math 112 | Math SAT < 500  **AND** 20 ≤ Placement < 23 | ACT < 20  **AND** 23 ≤ Placement < 26 |
| **Math 117**  **Math 120** | Placement ≥ 26  **OR** Math 115 | Math SAT < 500  **AND** Placement ≥ 23 | ACT < 20  **AND** Placement ≥ 26 |
| **Math 209** | Placement ≥ 20  **OR** Math 112  **OR**  Math 115  **OR**  Math 116  **OR**  Math 117  **OR** Math 120 |  |  |

Build a classifier to determine the appropriate classification of a student as a success of determining the success “pass” = C- or better and “failure” = D+ or less, W or I. using the raw score of the placement test WITHOUT using standardized testing.

Data from pretest comes in different dataset than course taken and grade earned but “key” for both these records overlaps, key = student id (random string assigned)

Some of the records imported incorrectly and manually corrected those: as in wrong column…about 30 in 2017 data

Some records only had final grade recorded… about 20??

One record had a grade entered as ER followed by an F and then W….

When importing the scores changed from ints?

A screenshot of a cell phone

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A close up of text on a white background

Description automatically generatedA screenshot of a cell phone

Description automatically generatedA close up of text on a white background

Description automatically generated

And the case didn’t match for the ID s…so using BBEdit and case-folded -> using change case in the text editor

A screenshot of a computer

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Used vlookup(key, range, column, true/false) to combine multiple sheets connected with a common key in records…false allows us to not match on case…wish I had known that…but now I do.

Missing values common converted to ?

Treated dates as strings..could convert to date format in weka?

One record at TRSUMM on line 594 corresponding to student id 3ba8f93d …transferred summer was converted to summer in 2017 spreadsheet….