Identify your highest-risk students

with

The Student Risk Index

1 Student Population Surveyed

*Tailored **specifically to your student population**, I will identify the statistical likelihood of retention and graduation based on several common contributors to student success - these considerations help create weights for each value in the risk index calculation.*

WHAT DRIVES THE INDEX?

- *Likelihood of Retention and Graduation*
- *First-Generation Status*
- *First-Time Freshman Status*
- *Low-Income Status (Pell)*
- *Career, Transfer, and/or High School GPA*
- *Academic Probation History*
- *Developmental Coursework History*
- *Term Hours Enrolled*
- *Course Withdraw History*
- *Gender, Ethnicity, and Age*
- *Time out of Academic Pipeline*

2 SIS Data Used to Add Further Information

In addition to analysis of the survey data, I add information such as demographics, course history, and academic performance to the calculation, providing weights to further focus the risk assessment value on the individual student.

3 Index Calculated

Using a custom-designed algorithm, all factors are combined then scaled onto a 1-10 interval for readability. In the final step, a category is derived based on the variance of all index values in the analysis.

Final value delivered for each student

risk_index_value	risk_category
10	VERY HIGH
9.58	VERY HIGH
9.42	HIGH
7.5	HIGH
7.33	HIGH
7.1	MODERATE to HIGH
6.88	MODERATE to HIGH
6.48	MODERATE
6.47	MODERATE
6.33	MODERATE
6.27	MODERATE
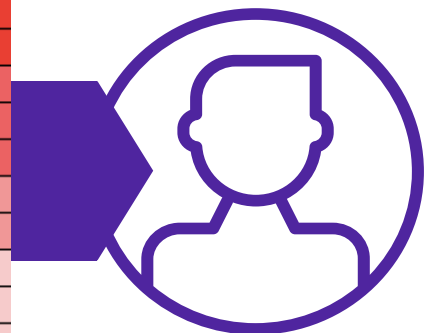
All student scores are provided in an Excel sheet, including student ID, demographic, and academic information, that can be distributed to advisors, instructors, and other departments as needed.

Initial data needed:

Email and student ID, one row per student per term, for all non-high school (concurrent/dual-credit) students in the most three recent completed academic years as well as the current year for the initial survey work (which I conduct with your permission). The needed data includes the elements listed in the "What Drives the Index?" table above. I will provide a data dictionary, and work with your IT/IR personnel during the retrieval. During the process of conducting the survey, I include a text box for students to include comments, and those results are provided in the initial report along with the index results, which may provide you with specific information as to why a student left the institution.

Institutional commitment needed after initial retrieval:

Minimal. Once I have surveyed your students and collected the needed data from your IT/IR department, I begin the process of building your custom index. I may have small data requests during that development period. In order to recalculate the index for a new term, I need nothing more than the initial retrieval script your IT/IR department wrote to be rerun for current students, and the data sent to me - this should be done very early in the term. I will build the index at whatever point you wish, with the suggestion to run it after your initial refund-based drop date has passed. The weights derived from the initial survey are reusable for a period of three years, after which they need to be re-calibrated through a new survey, as student characteristics will change over time, and the index is very sensitive to the weights used to derive the student risk value. The index *results* and report are your property, and I hold no claim to them other than their potential use in further refinement of the algorithm, and to validate the results for prior terms. For proprietary reasons, I do not divulge the survey results (except for open-ended comments), statistical analysis of data, final weighted components, nor the exact mathematical processes by which the index is derived.

STUDENT RISK INDEX CREATED BY
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