

The End of Semester is Too Late

Using technology to improve student
performance throughout the semester
across the academic unit

Ben Smith, Ph.D.

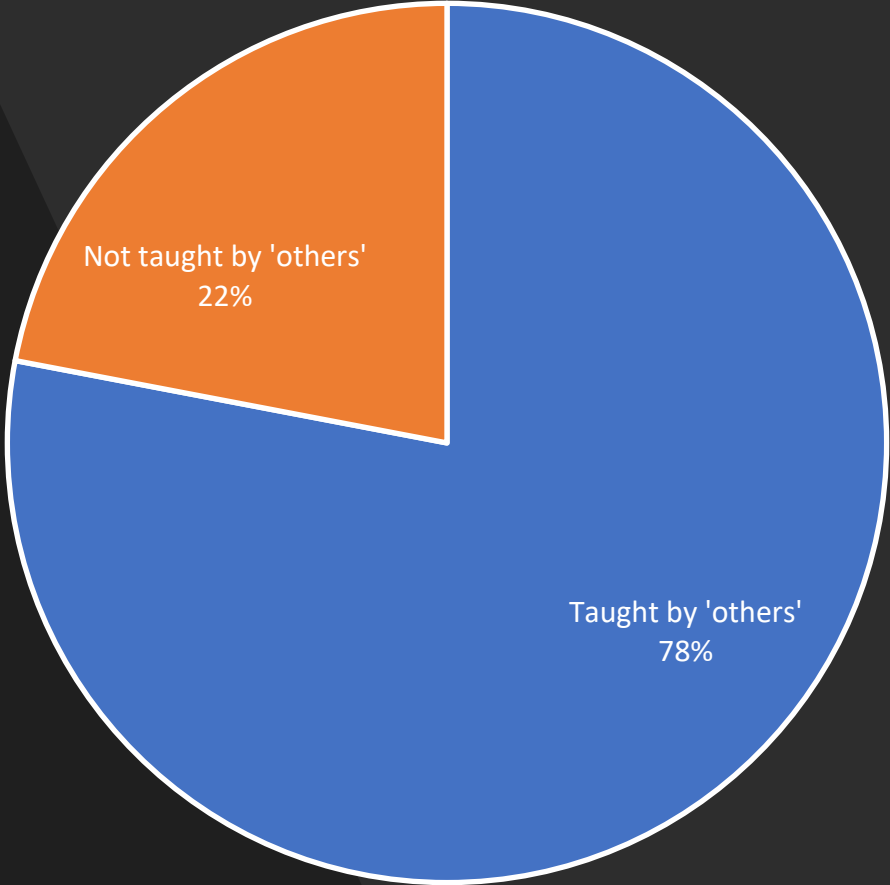
University of Nebraska at Omaha

Have you
thought about
classes taught
by 'other
people?'

- Students are often not notified of grades
- Grades are often not up-to-date
- Resources aren't highlighted
- Canvas is disorganized

In short: **They. Don't. Care.**

Students



Ben's "highly scientific" perception of teaching quality at UNO CBA

What's the problem?

- We have a 'three-strikes' rule for the CBA core
 - CBA Students must 'sit-out' a class if they fail it twice (C or better)
 - Students cannot take a class more than three times
- A specific list of classes often result in a C- or below:
 - Principles of Micro (2200) and Macro (2220)
 - Finance I (3250)
 - Accounting I (2220)
 - Math 1370
- Our tutors were just not used

Presentation Outline

- Providing students information
 - Automatic periodic emails containing current grade
 - Notifications of resources
 - Reminders of tutoring appointments
- Providing advisors and faculty information
 - 'At-risk' list produced for advisors
 - Tutoring appointments are tracked
 - Tutoring appointments, 'at risk' data and assessment data are all mapped together

Student's Perspective

This message is to inform you of your standing in select CBA courses. As of right now, your score in ECON2200 is 79.49. Your current grade is a(n) "B-." This score is based on the current data in Canvas. Please contact your instructor if you have any questions.

If you are struggling, it is recommended that you contact the economics tutor (<http://cba2.unomaha.edu/econtutor>) or your instructor. There is also a Math Science Learning Center (MSLC) if you are struggling with math. You will find information about the MSLC (<https://www.unomaha.edu/college-of-arts-and-sciences/math-science-learning-center/about-us/hours.php>).

In addition to these resources, you can also reach out to your academic advisor and set up a meeting to discuss an academic plan for you. Schedule an appointment through MavTRACK (<https://www.unomaha.edu/my/advising-system-mavtrack.php>). Note that the last day to withdraw from a class is Nov 8.

Sign Up Page

COLLEGE OF BUSINESS ADMINISTRATION

About Us ▾

Tutoring

UNO / College of Business Administration

Here to help

The College of Business Administration and lab hours below.

Horace Wu and Kate ...
Accounting Lab | MH ...

Target courses for student as ...
Phone: 402.554.2291


Spring 2020

Monday

Tuesday 8:00 A.M. - 12:00 P.M.

Wednesday Closed

Support CBA ▾



Duyen Truong

Welcome to my scheduling page. Please follow the instructions to add an event to my calendar. I am happy to help with the principles of economics.

15 Minute Meeting ▶
This tutoring appointment is in my office (MH 332J)

30 Minute Meeting ▶
This tutoring appointment is in my office (MH 332J)

15 Minute Zoom Meeting ▶
This tutoring appointment is a video conference

30 Minute Zoom Meeting ▶
This tutoring appointment is a video conference

Business Administration
Hall
at
ska 68182

@unomaha.edu
omaha.edu

es

out Rooms

<http://cba2.unomaha.edu/econtutor>

Sign Up Page

Enter Details

Name *

Email *

Add Guests

Which class are you having difficulty with? *

Who is your instructor?

Specifically, what question(s) would you like answered at this meeting? Please be as specific as possible. *

Matching Data from At Risk and Tutoring

Are students at risk getting help from the tutors (ECON and FNBK; Oct Data)?

Students who were at risk & haven't scheduled a time with a tutor:

	Name	Score	Grade ⓘ	Course	E-Mail
1.		29.27	F	FNBK3250860.11...	
2.		40.6	F	ECON2200004.11...	
3.		50.03	F	ECON2200003.11...	
4.		52.07	F	ECON2200003.11...	
5.		54.24	F	FNBK3250004.11...	
6.		58.45	F	ECON2200003.11...	
7.		60.61	F	FNBK3250004.11...	
8.		63.22	D-	FNBK3250004.11...	
9.		67.6	D+	FNBK3250004.11...	

Students who were at risk & have scheduled time with a tutor:

	Name	Score	Gra...	Course	E-Mail
1.		68.12	D+	ECON2200003.1198	
2.		69.31	D+	ECON2200003.1198	
3.		68.38	D	ECON2200004.1198	
4.		70.21	C-	ECON2200003.1198	
5.		72.87	C-	ECON2200003.1198	
6.		73.29	C	ECON2200003.1198	
7.		75.36	C	ECON2200003.1198	
8.		56	null	ECON2200006.1198	
9.		62.5	null	ECON2200001.1198	

Instructor Feedback

Hi _____,

As you might know, CBA sends you information about your grade in high risk classes approximately once a month - one was sent this morning. Unfortunately, you are considered to be an 'at risk' student as you currently have a C in my class (ECON 2200) - CBA students must earn a C or better in core courses. We also track usage of the econ tutor and have noticed that you haven't made an appointment; if you saw her without an appointment or used your personal email address to make the appointment, we would not be able to match that.

At this point, we would consider you at risk of not succeeding in the class. I highly suggest you make an appointment with her before Wednesday's exam. You can make an appointment with the econ tutor here:

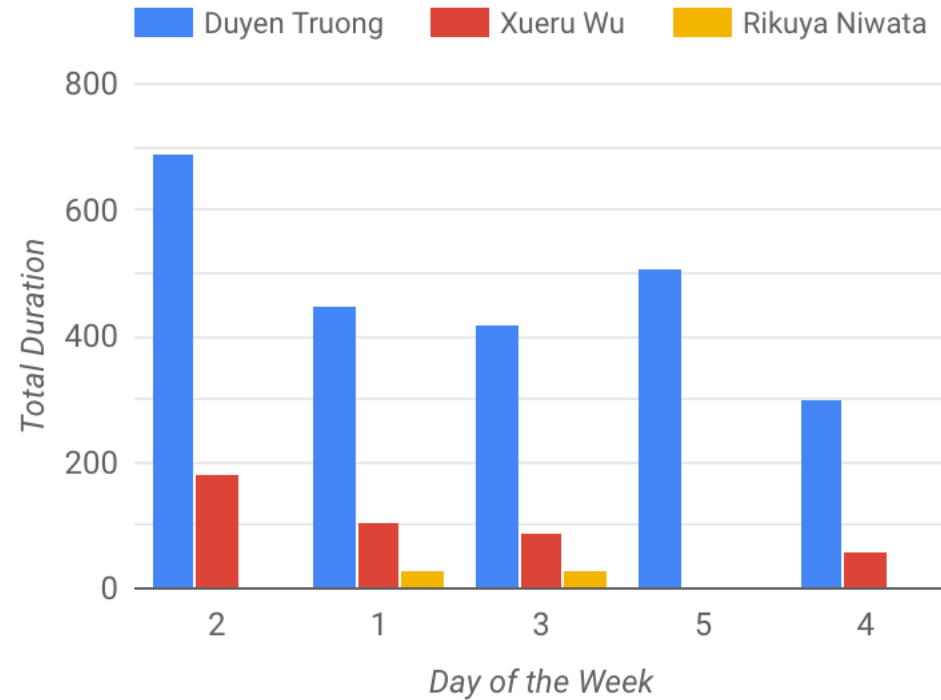
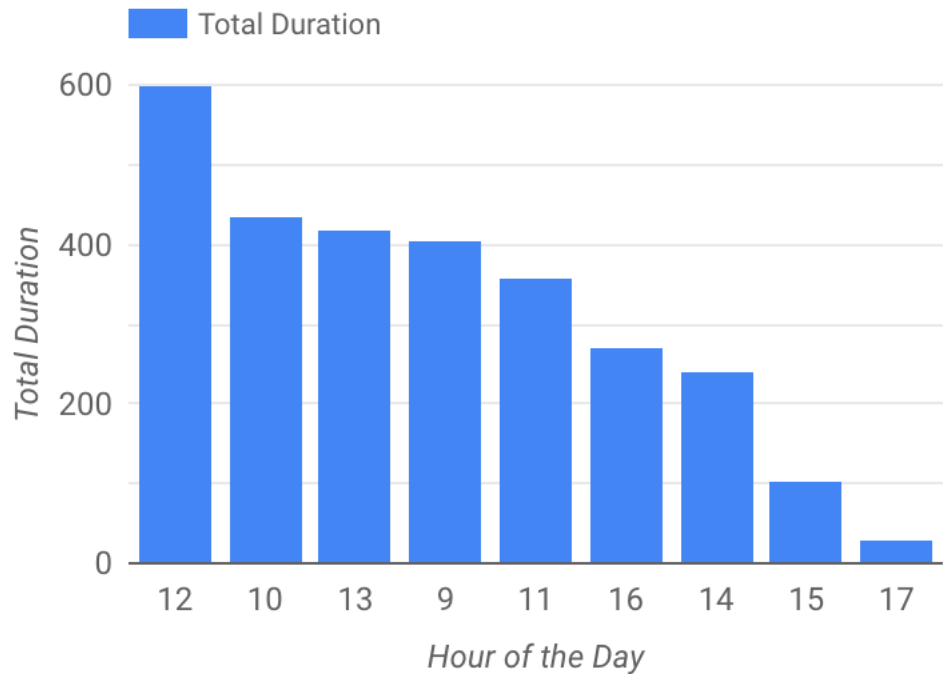
<http://cba2.unomaha.edu/econtutor>

Duyen is super nice and is always happy to help. Please go and see her!

Thanks!

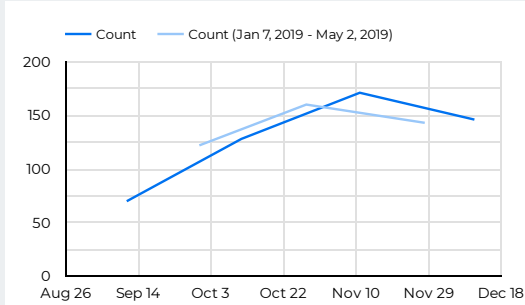
Ben (Your Econ Professor)

Tutoring Administrative Information



ECON 2200 - Report

of students on at-risk sheet



Are at-risk students getting help?

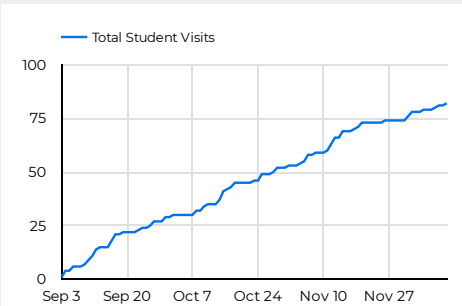
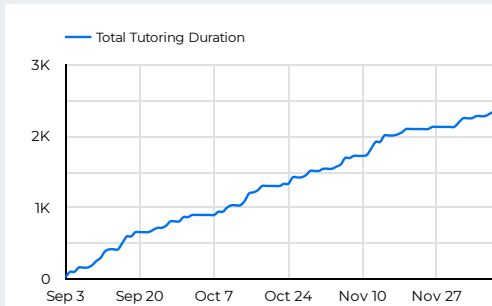
Students Who Haven't Got Help

136

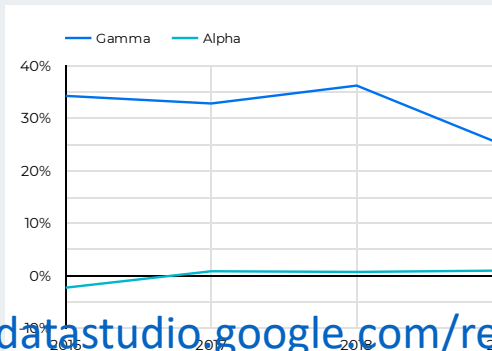
Students Who Have Got Help

10

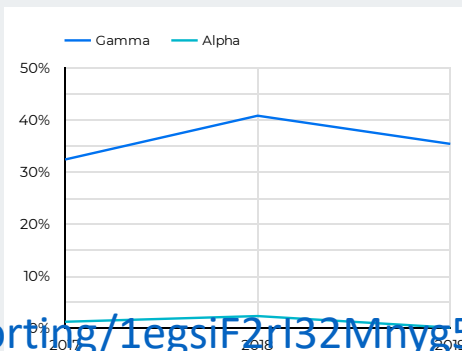
Usage of Economics tutor



Student Learning - Fall



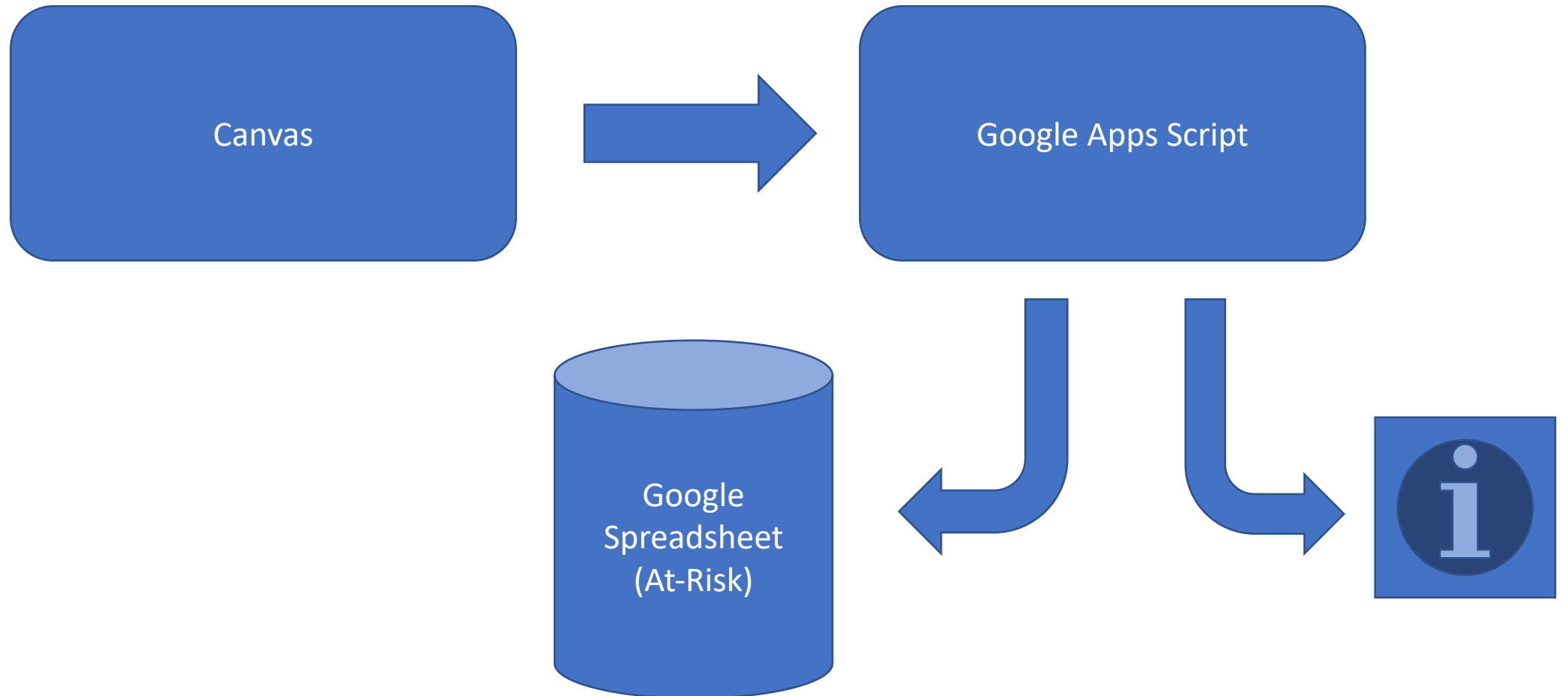
Student Learning - Spring



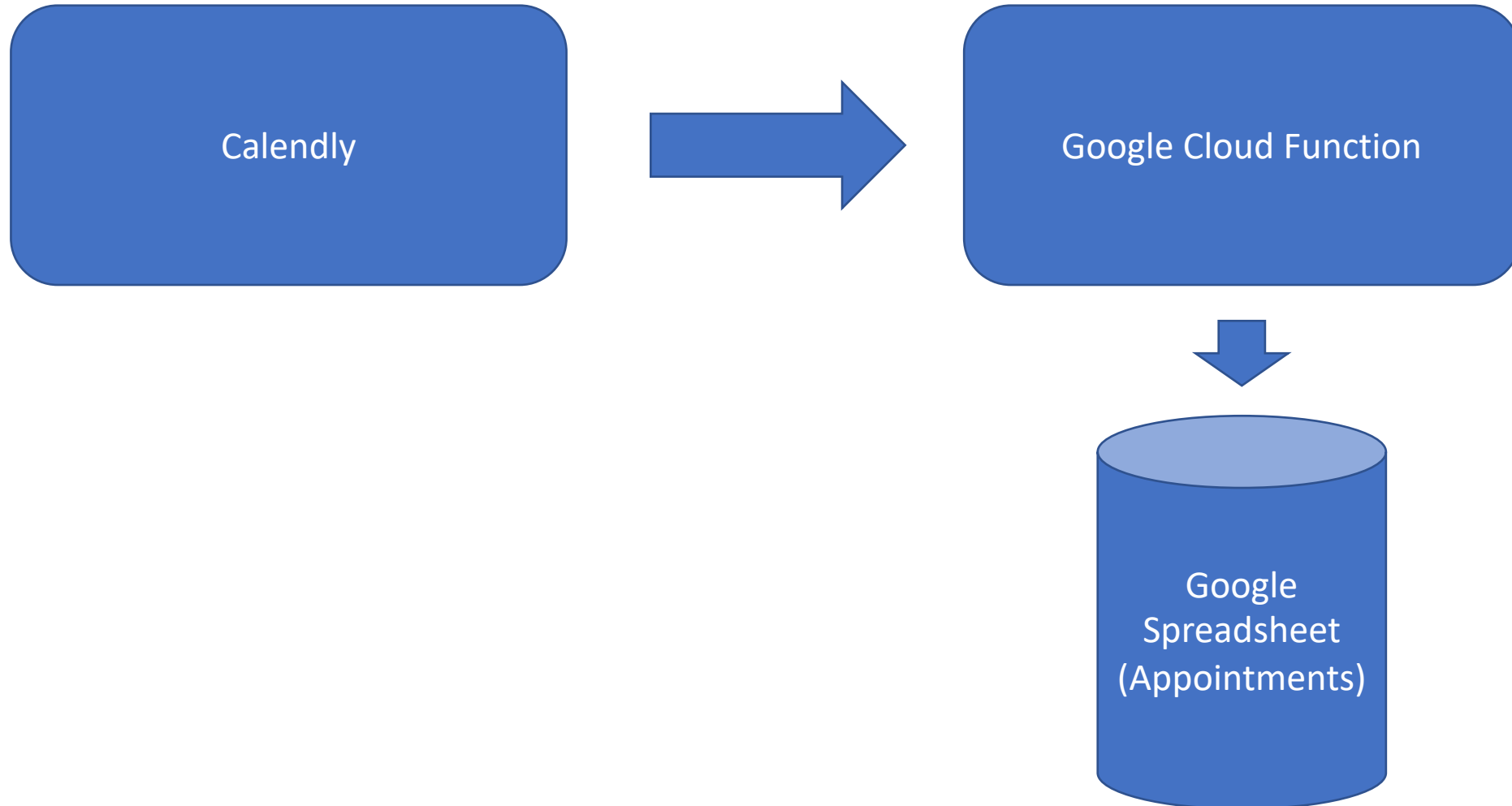
Course Report

<https://datastudio.google.com/reporting/1egsiF2ri32Mnyg5tEmQfqEttZsGZqf7u/page/W7v5>

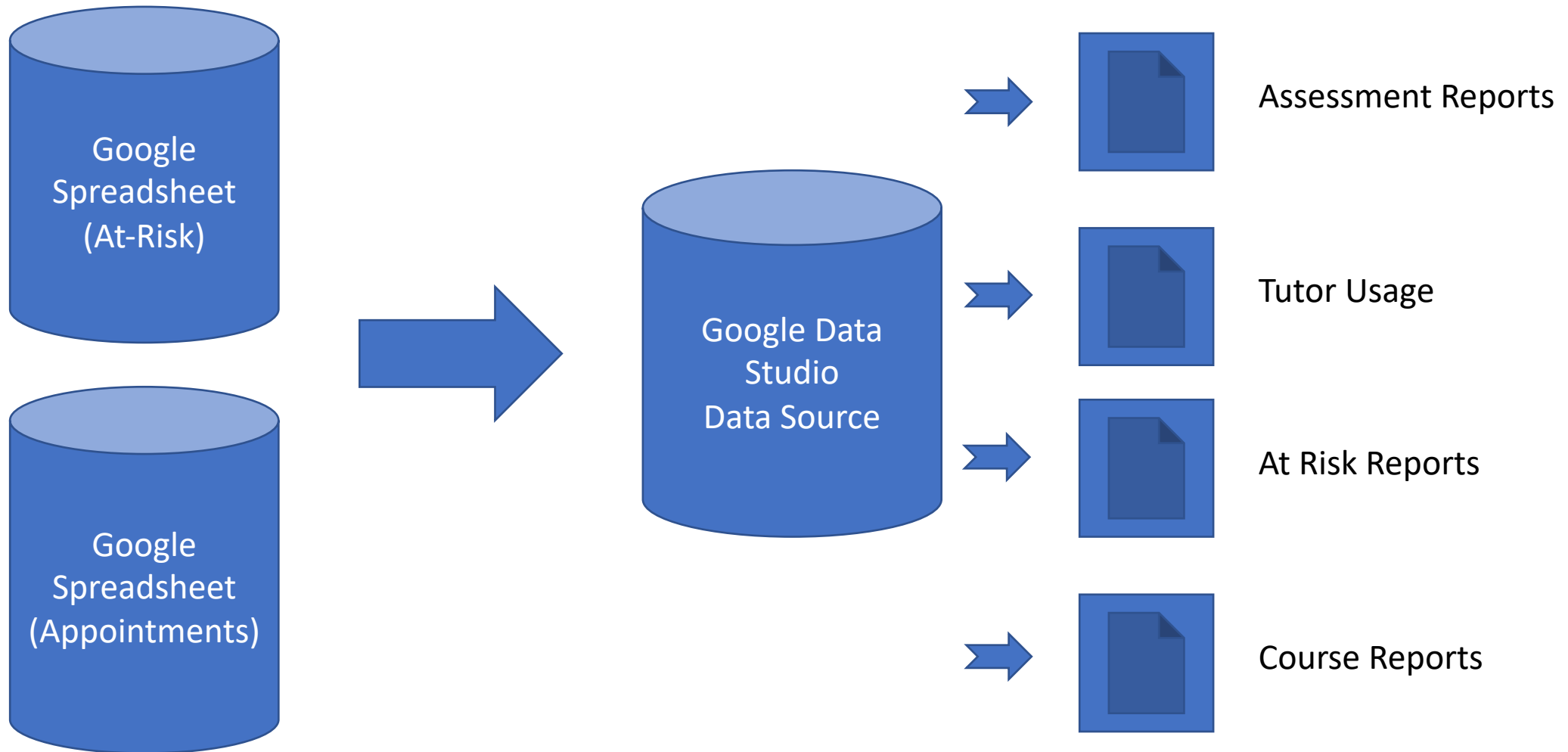
How Does This Work?



How Does This Work?



How Does This Work?



Costs?

- Canvas API: Free if you have Canvas
- Google G Suite:
 - Free running of Apps Scripts
 - Free Google Spreadsheets
 - Free Data Studio Reports
- Google Cloud Function
 - In theory \$0.0000004 per run
 - But first 2 million runs per month are free
- Calendly
 - Education discount of 25%
 - \$72 per tutor per year
- So, we spent \$216

What do you need?

- **One** technical person to set it up
- Source code for the Cloud Function and Apps Script:
 - <https://github.com/tazzben/process-tutoring>
 - <https://github.com/tazzben/Automated-Early-Warning-System-to-Notify-Students-and-Advisors>
- Some buy-in from the administration