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Wrangling Canvas LMS Outcomes Data – From 2 Weeks to 2 Minutes

Office of Online Education (OOE) - Analysis, Planning, and Support (APS) Team
Office of Collaborative Academic Programs (OCAP)

Assessment Institute 2023





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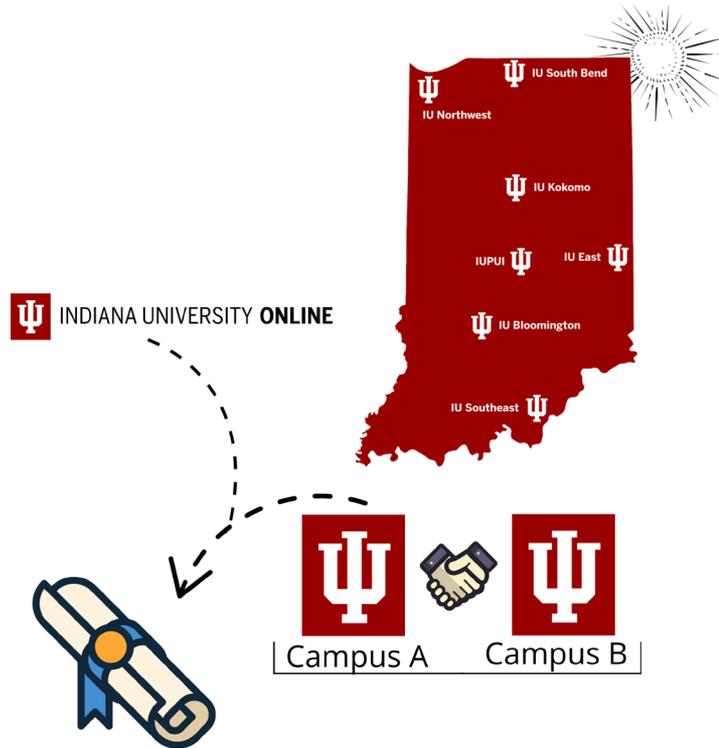
Chelsie Deatrick
Data Analyst for Analytics, Planning, and Support



Sharon Wavle, EdD
Director of Analytics, Planning, and Support

What is a Collaborative Program?

- 2 (or more) IU campuses agree to combine their resources to offer a collaborative degree
- IU Office of Online Education (OOE) offers the support staff to facilitate the management of the degree program through the Office of Collaborative Academic Programs (OCAP)

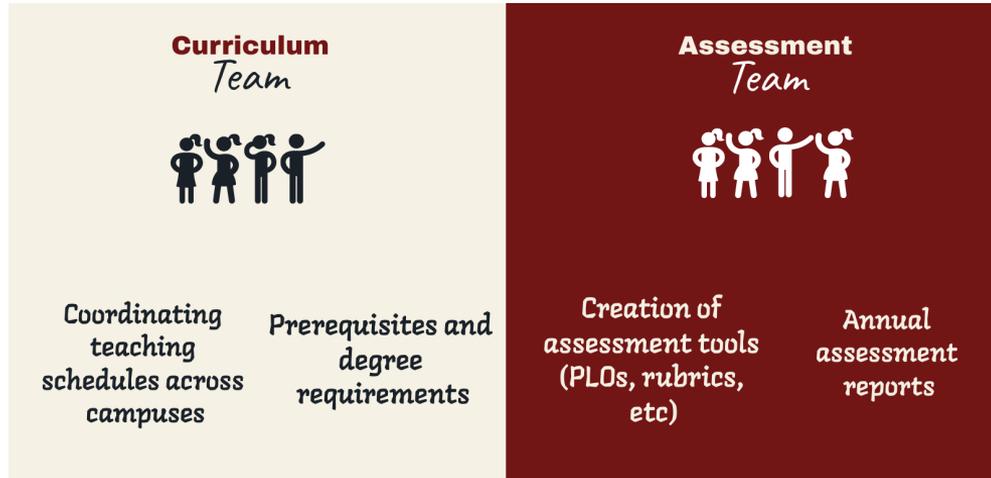


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What Does OCAP Do?



- OCAP contains two main support functions: Curriculum and Assessment
- The Faculty Committees, comprising of representatives from each participating campus, maintain control of the degree programs





What Does Analytics, Planning, and Support Do?

- Regular and ad-hoc reporting
- Decision-making support for the office and university-wide partners
- Online collaborative program implementation and course sharing
- Online policy and regulatory compliance





OACAP Assessment Process

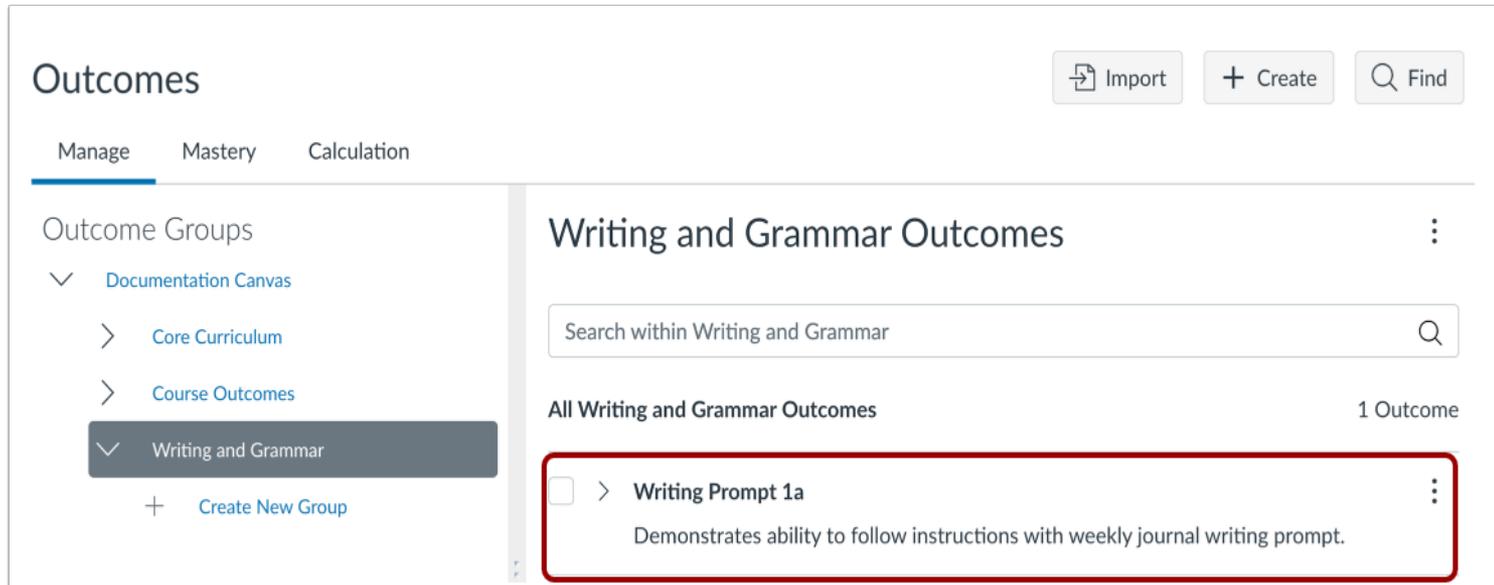


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| What is Canvas Outcomes?

- Inbuilt Canvas Feature
- Purpose: track progress on course and program-level learning outcomes



The screenshot displays the Canvas Outcomes interface. At the top, there are three tabs: 'Manage', 'Mastery', and 'Calculation'. To the right of these tabs are three buttons: 'Import', 'Create', and 'Find'. Below the tabs, the left sidebar shows a tree view of 'Outcome Groups' with 'Writing and Grammar' selected. The main content area is titled 'Writing and Grammar Outcomes' and contains a search bar. Below the search bar, it shows 'All Writing and Grammar Outcomes' with a count of '1 Outcome'. A red box highlights the following outcome:

- > Writing Prompt 1a
Demonstrates ability to follow instructions with weekly journal writing prompt.





Adding Outcomes to Assignments

- Outcomes can be added to assignment rubrics
- Cannot have two separate rubrics

Essay Rubric (1)

Title:

Criteria	Ratings			Pts
<p>Ideas and Content</p> <p>Ideas and content include the essay's main idea and supporting details.</p> <p>Range <input checked="" type="checkbox"/></p>	<p>10.0 to >5.0 pts</p> <p>Full Marks</p>	<p>5.0 to >3.0 pts</p> <p>Proficient</p> <p>Essay includes a main idea with general or limited supporting details.</p>	<p>3.0 to >0 pts</p> <p>No Marks</p>	<input type="text" value="10.0"/> pts
<p>Organization</p> <p>Organization describes the introduction, body, and conclusion of an essay and determines how well these parts fit together.</p> <p>Range <input type="checkbox"/></p>	<p>5.0 pts</p> <p>Full Marks</p>	<p>0.0 pts</p> <p>No Marks</p>		<input type="text" value="5.0"/> pts
<p>1.3.d</p> <p>threshold: 3 pts</p>	<p>4 pts</p> <p>Exceeds Expectations</p>	<p>3 pts</p> <p>Meets Expectations</p>	<p>0 pts</p> <p>Does Not Meet Expectations</p>	<input type="text" value="4"/> pts

+ Criterion 🔍 Find Outcome

Total Points: 19

Use this rubric for assignment grading

Hide score total for assessment results

Cancel **Update Rubric**





Canvas Data Reports

- Course-level outcomes = Learning Mastery Gradebook
- Account-level outcomes = Outcome Results

Learning Mastery Grade Book

Course average: 3.67 / 3, 3.5 / 3, 3.67 / 3, 3 / 3

Students: Writing Prom..., Quiz Outcom..., Group Work, 1.1.d

Students	Writing Prom...	Quiz Outcom...	Group Work	1.1.d
Emily Boone History 101 and History 101 MWF	5 / 3	4 / 3	5 / 3	3 / 3
Max Johnson History 101 T-Th	3 / 3	3 / 3	3 / 3	
Bruce Jones History 101	2 / 3	2 / 3	2 / 3	
Joe Rogers History 101	5 / 3	5 / 3	5 / 3	
Nora Sanderson History 101 T-Th	3 / 3	4 / 3	3 / 3	
Jane Smith History 101 MWF	4 / 3	3 / 3	4 / 3	
Test Student History 101, History 101 MWF, an...				

Legend:

- Exceeds Mastery
- Meets Mastery
- Near Mastery
- Well Below Mastery

Options:

- Hide outcomes with no results
- Hide students with no results
- Export report

Callouts: 1 (Students list), 2 (Course average), 3 (Group Work column), 4 (Section dropdown), 5 (Options checkboxes), 6 (Export report button)

Settings Quotas Notifications Admins Announcements Reports Apps Feature Options Security

Name	Last Run	
Outcome Export ?	Jan 20 at 6:55am ↓	Run Report
Outcome Results ?	Never	Configure...



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Now What?

student	assessm	learning	learning	attemp	section	learning	learning	account	enrollm
1	Paper 1	PLO 01	#		1 FA42-NW-	Exceeds Ex		3 #	active
2	Paper 1	PLO 01	#		1 FA42-IN-P	Exceeds Ex		3 #	inactive
3	Homework	PLO 01	#		1 FA42-NW-	Meets Exp		2 #	active
4	Homework	PLO 01	#		1 FA42-IN-P	Below Exp		1 #	active
5	Paper 1	PLO 01	#		1 FA42-IN-P	Meets Exp		2 #	active
1	Homework	PLO 01	#		1 FA42-NW-	Meets Exp		2 #	inactive
2	Homework	PLO 01	#		1 FA42-IN-P	Does Not I		0 #	active
3	Paper 1	PLO 01	#		1 FA42-NW-	Exceeds Ex		3 #	active
4	Paper 1	PLO 01	#		1 FA42-IN-P	Below Exp		1 #	active
5	Homework	PLO 01	#		1 FA42-IN-P	Exceeds Ex		3 #	active



M.S. Data Wrangling
Assessment of Student Learning Report
For Academic Year: 2046-2047



Which Hat Do We Wear?



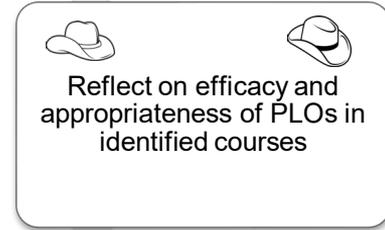
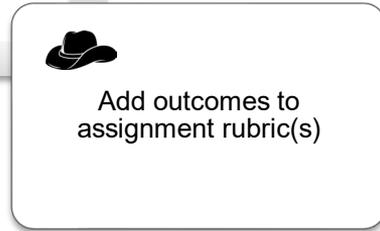
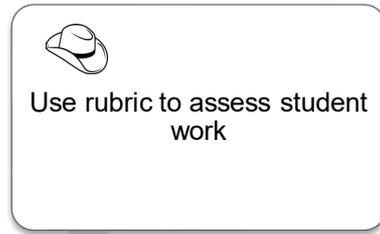
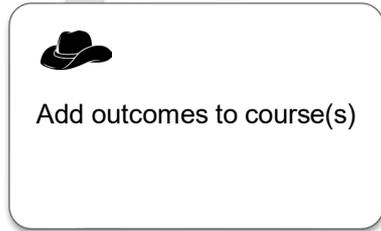
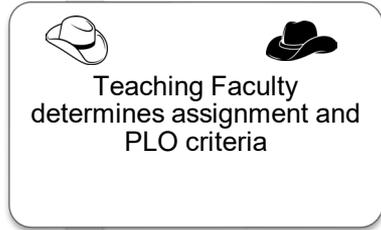
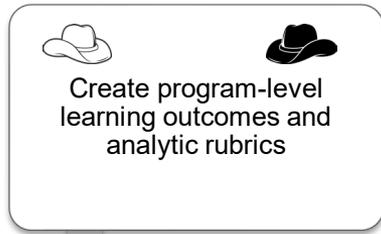
OCAP



Faculty Committee



Teaching Faculty



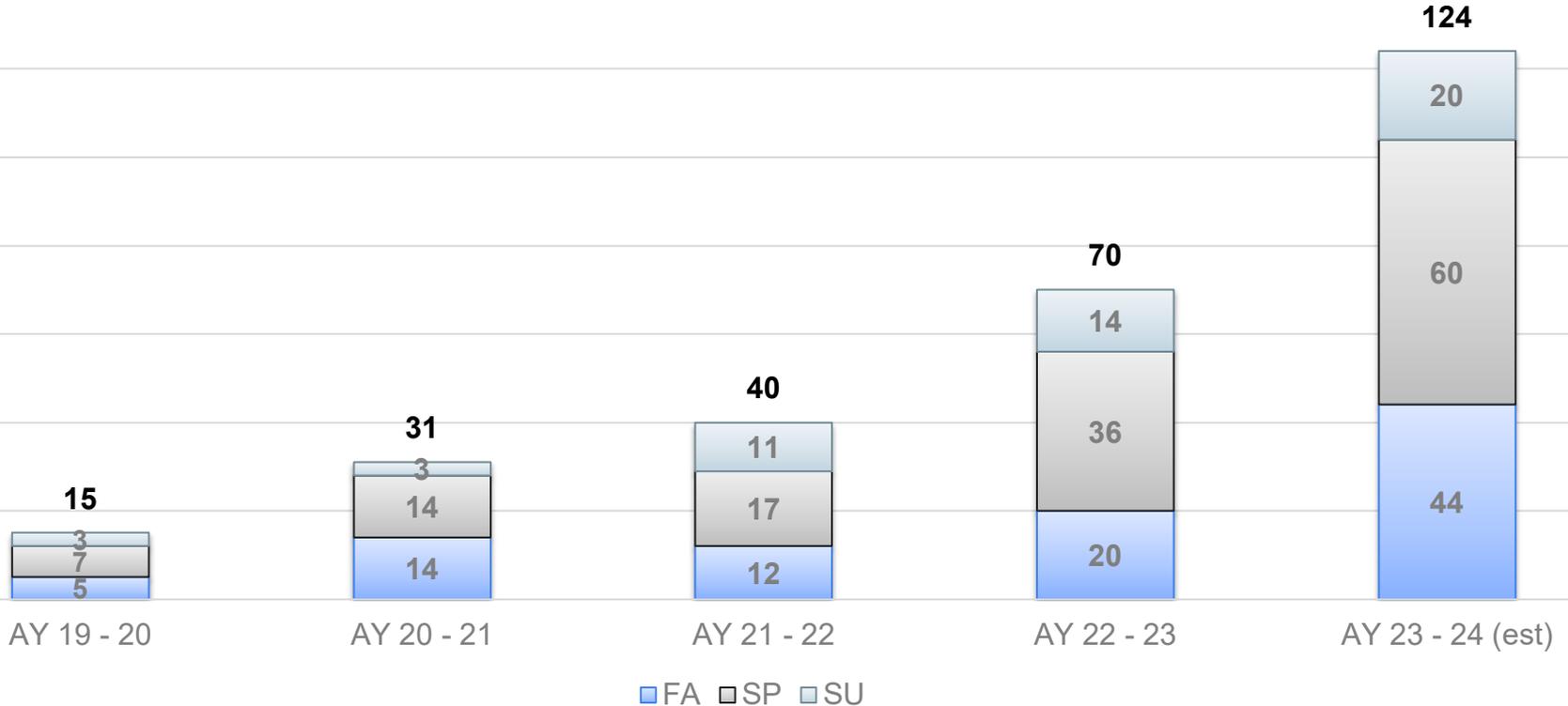
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OCAP Canvas Outcomes Assessment History

Number of Courses Used to Collect Data





Canvas Outcomes Data Analysis (By Hand)



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Two Levels of Canvas Outcomes Data Analysis

student	assessm	learning	learning	attempt	section	learning	learning	account	enro.
1	Paper 1	PLO 01	#		1 FA42-NW-	Exceeds Ex		3 #	active
2	Paper 1	PLO 01	#		1 FA42-IN-Pi	Exceeds Ex		3 #	inactive
3	Homework	PLO 01	#		1 FA42-NW-	Meets Exp		2 #	active
4	Homework	PLO 01	#		1 FA42-IN-Pi	Below Exp		1 #	active
5	Paper 1	PLO 01	#		1 FA42-IN-Pi	Meets Exp		2 #	active
1	Homework	PLO 01	#		1 FA42-NW-	Meets Exp		2 #	inactive
2	Homework	PLO 01	#		1 FA42-IN-Pi	Does Not I		0 #	active
3	Paper 1	PLO 01	#		1 FA42-NW-	Exceeds Ex		3 #	active
4	Paper 1	PLO 01	#		1 FA42-IN-Pi	Below Exp		1 #	active
5	Homework	PLO 01	#		1 FA42-IN-Pi	Exceeds Ex		3 #	active

Assignment	course/section	assessed		Exceeds Expectations		Meets Expectations		Below Expectations		does not meet expectations	
		n	%	n	%	n	%	n	%	n	%
		Paper 1	FA42-NW-POSI-H333-09876	2	100.00%	0	0.00%	0	0.00%	0	0.00%
	FA42-IN-POSI-H333-12345	2	0.00%	1	50.00%	1	50.00%	0	0.00%	0	0.00%
	TOTAL	4	50.00%	1	25.00%	1	25.00%	0	0.00%	0	0.00%
Homework 3	FA42-NW-POSI-H333-09876	1	0.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%
	FA42-IN-POSI-H333-12345	3	33.33%	0	0.00%	1	33.33%	1	33.33%	1	33.33%
	TOTAL	4	25.00%	1	25.00%	1	25.00%	1	25.00%	1	25.00%

n = Students Assessed	Assessed	Exceeds		Meets		Below		Does Not Meet	
		n	%	n	%	n	%	n	%
PLO 01	Fall	5	60.00%	0	0.00%	1	20.00%	1	20.00%
	Spring		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!
	Summer		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!
AY 21-22		5	60.00%	0	0.00%	1	20.00%	1	20.00%
AY 21-22 Summary %		60.00%				40.00%			



For Course Reflection

- For use in Faculty Reflection Forms
- Uses granular data focusing on PLO and Assignment for data information
- Reported in the course-specific Appendices, not the main body of the Annual Reports

LO 01										
Assignment	course/section	assessed	Exceeds Expectations		Meets Expectations		Below Expectations		does not meet expectations	
		n	n	%	n	%	n	%	n	%
Paper 1	FA42-NW-POSI-H333-09876	2	2	100.00%	0	0.00%	0	0.00%	0	0.00%
	FA42-IN-POSI-H333-12345	2	0	0.00%	1	50.00%	1	50.00%	0	0.00%
	TOTAL	4	2	50.00%	1	25.00%	1	25.00%	0	0.00%
Homework 3	FA42-NW-POSI-H333-09876	1	0	0.00%	1	100.00%	0	0.00%	0	0.00%
	FA42-IN-POSI-H333-12345	3	1	33.33%	0	0.00%	1	33.33%	1	33.33%
	TOTAL	4	1	25.00%	1	25.00%	1	25.00%	1	25.00%

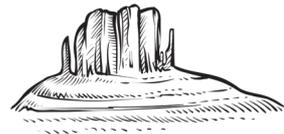
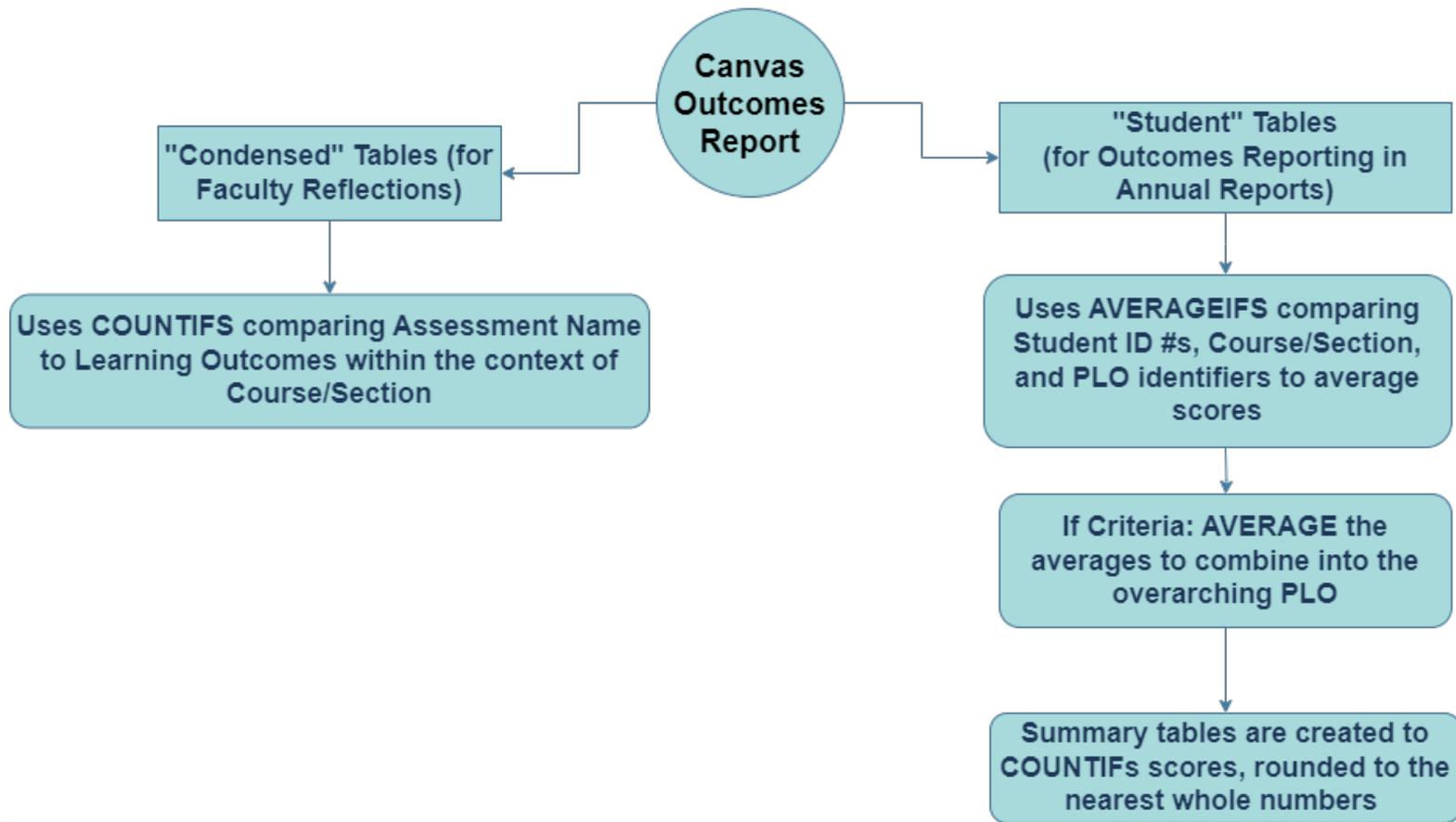


Learning Outcome Overall Analysis

- For use in Outcomes Reporting
- Uses student data as a basis to track student progress across courses/assignments for a PLO
- Condensed for reporting to show %s due to limitations in Canvas Outcomes Reporting

n = Students Assessed		Assessed	Exceeds		Meets		Below		Does Not Meet	
		n	n	%	n	%	n	%	n	%
PLO 01	Fall	5	3	60.00%	0	0.00%	1	20.00%	1	20.00%
	Spring			#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!
	Summer			#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!
AY 21-22		5	3	60.00%	0	0.00%	1	20.00%	1	20.00%
AY 21-22 Summary %			60.00%			40.00%				







Limitations

- Canvas outcomes report not connected to IU's SIS data
 - Mixed enrollments, can't identify program
- Complexity
 - High possibility for errors (Human/Instructor)
- Time
 - Unsustainable

One of Five formulas developed for the by hand process:

```
=AVERAGEIFS('Mock Data'!$W:$W,'Mock Data'!$A:$A,'Mock Student'!$A6,'Mock Data'!$G:$G,'Mock Student'!$A$2,'Mock Data'!$Z:$Z,"<>inactive")
```

Legend

- Student SIS ID (column A)
- Learning Outcome Name (column G)
- Learning Outcome Rating Points (column W)
- Enrollment State (column Z)
- "\$A6" and "\$A\$2" refer to Unique lists created during the process to run comparisons (student ID numbers and PLO identifiers)





Analytics Cavalry to the rescue!



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Canvas Outcomes Data Analysis (Automated)



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The Problem

- Disparate data sources – Outcomes (Excel) and SIS (SQL)
- Data must be decoded –
 - Term, Campus, Course, Section
- Datasets are too large and vlookups are cumbersome
 - SIS Student Data ~ **1M rows** to search through
- Complex formulas are prone to human error
- Pivoting the data in excel is very time consuming

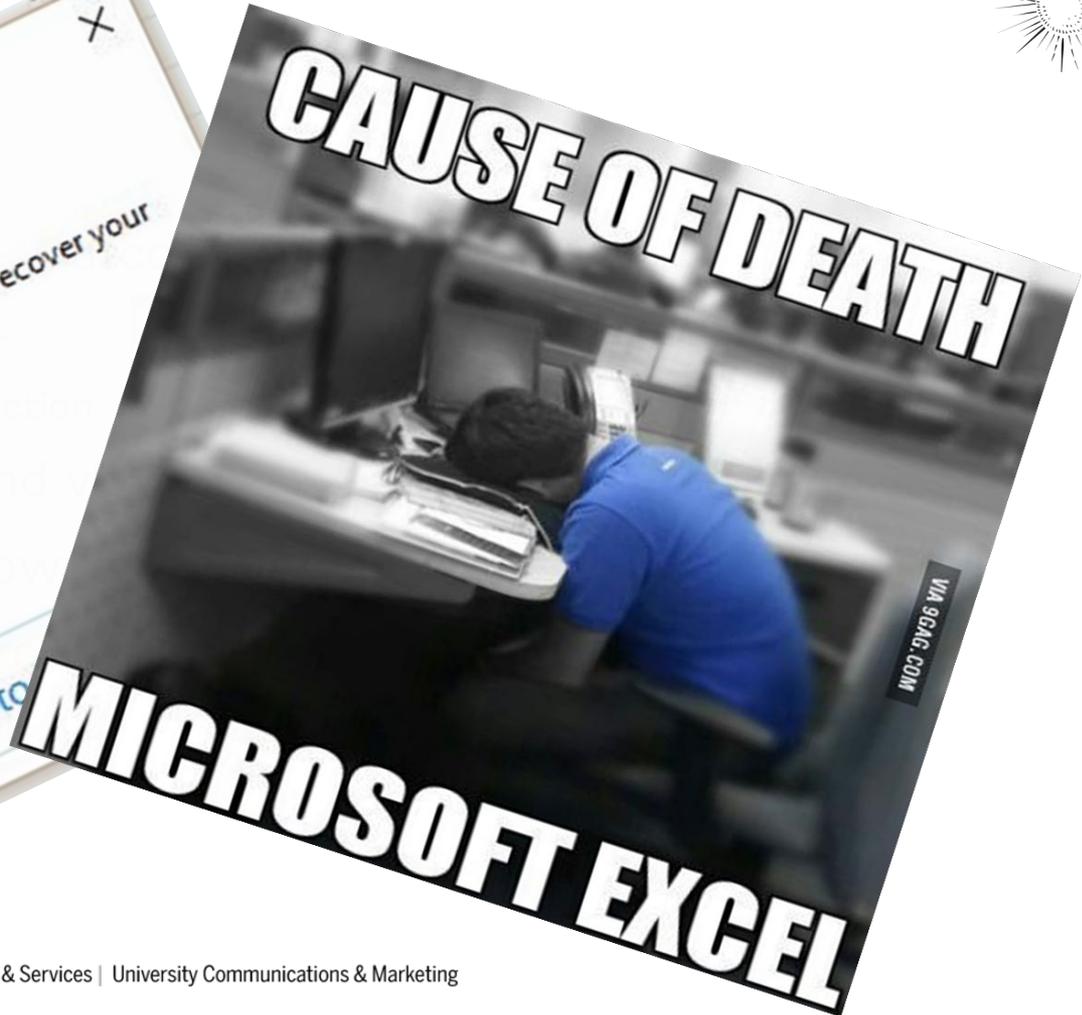
course sis id
SP22-EA-BUS-J401-17057





The Problem

- Dis...





The Solution



alteryx

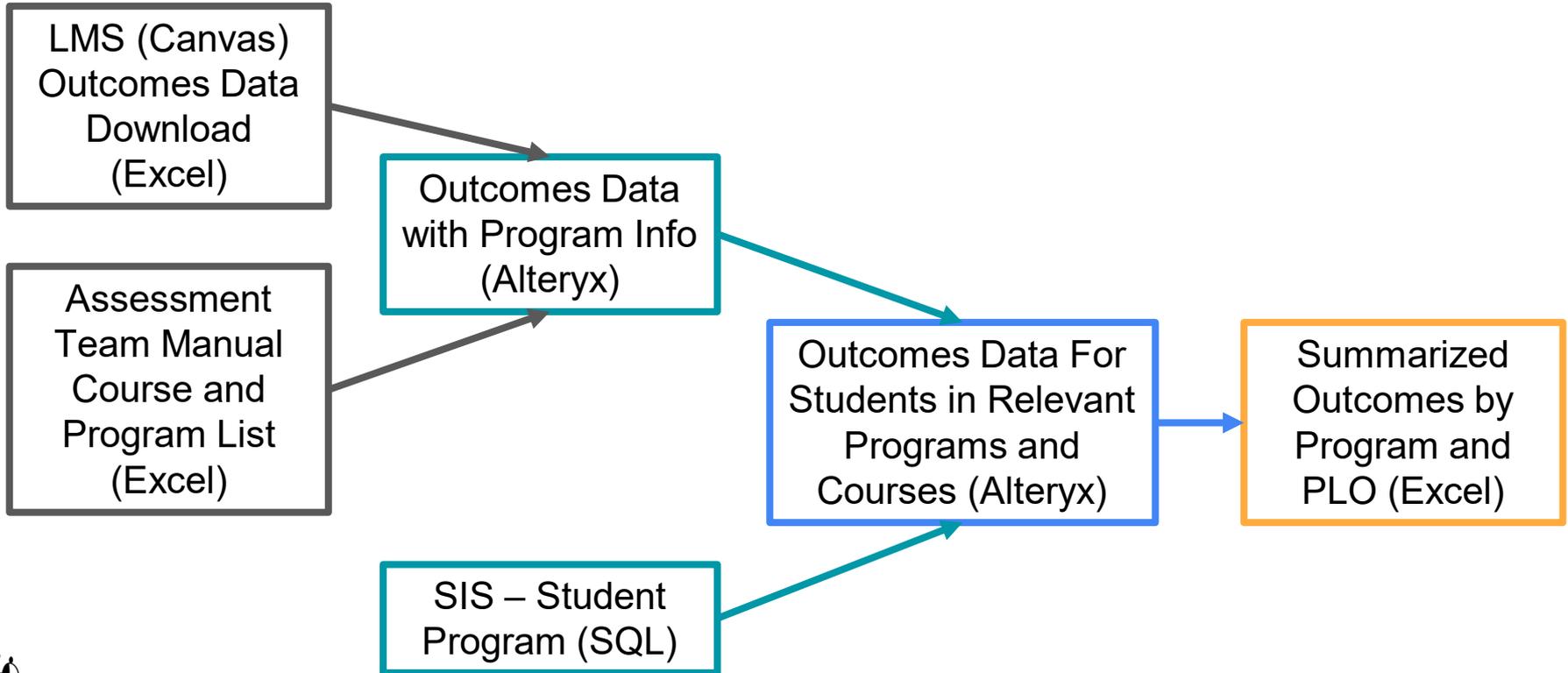
- Leverage Data Prep and Blend Tool
 - Ingest large spreadsheets
 - Query Student Information System (SIS) data warehouse
 - Blend data together to find student program
 - Limit results to collaborative online students only
 - Create complex formulas and summaries/pivots
 - **Save, Rinse, Repeat!**
- Data Manipulation: **2 weeks → 2 minutes**



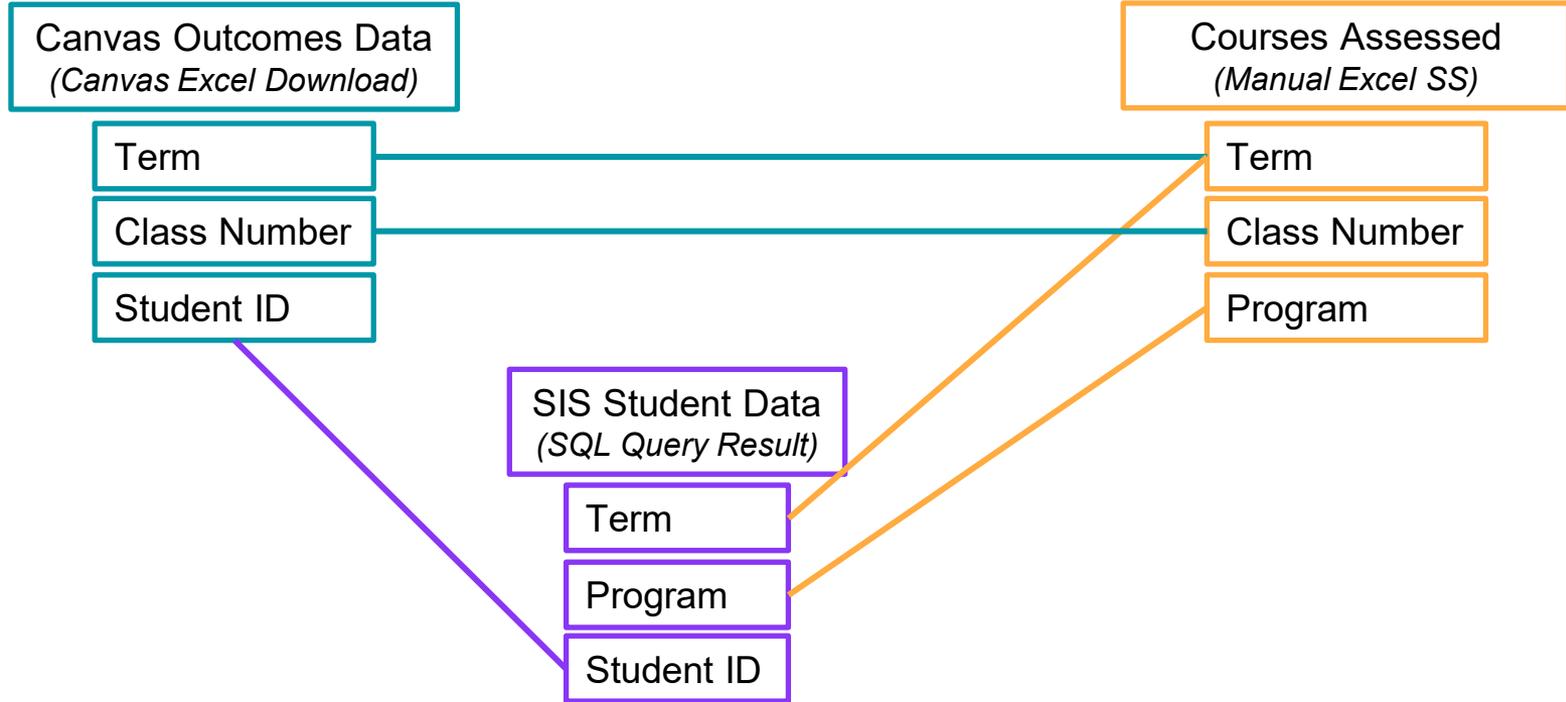
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Canvas Outcomes Overview



Wrangling the Flow of Data



Student ID

Canvas Outcomes Raw Data

student name	student id	student sis id	assessment title	assessment id	assessment type	submission date	submission score	learning outcome	learning outcome attempt	outcome score	assessment question	assessment question	course name	course id	course sis id	section name	section id	section sis id
Resource Port	14248264	assignment	2023-04-16T16	3	PLO 01.1 - Cre		1	3					SP23: PEDAGG	2128924	SP23-EA-CMC	SP23-IN-CMCI	2436662	SP23-IN-CMCI
Interactive Di	14248263	assignment	2023-03-30T16	3	PLO 01.2 - App		1	3					SP23: PEDAGG	2128924	SP23-EA-CMC	SP23-IN-CMCI	2436662	SP23-IN-CMCI
Module 1 Per	14345792	assignment	2023-02-12T05	19	PLO 04.2 Pers		1	3					SP23: CURREN	2132156	SP23-IN-EDUC	SP23-BL-EDUC	2424005	SP23-BL-EDUC
Module 1 Per	14345792	assignment	2023-02-12T05	19	PLO 04.3 Appl		1	2					SP23: CURREN	2132156	SP23-IN-EDUC	SP23-BL-EDUC	2424005	SP23-BL-EDUC
Module 1 Per	14345792	assignment	2023-02-12T21	18.5	PLO 04.2 Pers		1	2					SP23: CURREN	2132156	SP23-IN-EDUC	SP23-BL-EDUC	2424005	SP23-BL-EDUC
Module 1 Per	14345792	assignment	2023-02-12T21	18.5	PLO 04.3 Appl		1	2					SP23: CURREN	2132156	SP23-IN-EDUC	SP23-BL-EDUC	2424005	SP23-BL-EDUC
Final Examina	14723243	assignment	2023-05-04T22	49	PLO 01.1 - Ide		1	3					SP23: PHYSICA	2128876	SP23-EA-CHEM	SP23-BL-CHEM	2425002	SP23-BL-CHEM
Final Examina	14723243	assignment	2023-05-04T22	49	PLO 01.2 - Pro		1	1					SP23: PHYSICA	2128876	SP23-EA-CHEM	SP23-BL-CHEM	2425002	SP23-BL-CHEM
Final Examina	14723243	assignment	2023-05-04T22	49	PLO 01.3 - Eva		1	0					SP23: PHYSICA	2128876	SP23-EA-CHEM	SP23-BL-CHEM	2425002	SP23-BL-CHEM
Final Examina	14723243	assignment	2023-05-04T22	49	PLO 01.4 - Imp		1	0					SP23: PHYSICA	2128876	SP23-EA-CHEM	SP23-BL-CHEM	2425002	SP23-BL-CHEM
Literature Rev	14359713	assignment	2023-04-21T05	124	PLO 02.1 - Eva		1	3					SP23: PUBLIC I	2143028	SP23-SE-POLS	SP23-KO-POLS	2443752	SP23-KO-POLS
Literature Rev	14359713	assignment	2023-04-21T05	124	PLO 02.2 - Use		1	3					SP23: PUBLIC I	2143028	SP23-SE-POLS	SP23-KO-POLS	2443752	SP23-KO-POLS
Final ePortfol	14507430	assignment	2023-04-26T11	100	5. Integrate co		1	3					SP23: GRANTS	2128686	SP23-EA-AHSC	SP23-SB-AHSC	2445201	SP23-SB-AHSC
Final ePortfol	14507430	assignment	2023-04-26T11	100	6. Utilize info		1	3					SP23: GRANTS	2128686	SP23-EA-AHSC	SP23-SB-AHSC	2445201	SP23-SB-AHSC
Final ePortfol	14507430	assignment	2023-04-26T11	100	7. Explore the		1	3					SP23: GRANTS	2128686	SP23-EA-AHSC	SP23-SB-AHSC	2445201	SP23-SB-AHSC
Final Service-	14233433	assignment	2023-05-03T21	288	HA 1. Integrat		1	3					SP23: HEALTH	2138547	SP23-NW-AHSC	SP23-SB-AHSC	2445164	SP23-SB-AHSC
Final Service-	14233433	assignment	2023-05-03T21	288	HA 2. Evaluate		1	3					SP23: HEALTH	2138547	SP23-NW-AHSC	SP23-SB-AHSC	2445164	SP23-SB-AHSC
Final Service-	14233433	assignment	2023-05-03T21	288	HA 3. Utilize c		1	3					SP23: HEALTH	2138547	SP23-NW-AHSC	SP23-SB-AHSC	2445164	SP23-SB-AHSC
Week 16 - Fin	14644967	assignment			0 D4. Demonst		1	0					SP23: HCI/INT	2133367	SP23-IN-INFO	SP23-IN-INFO	2437936	SP23-IN-INFO
Week 11 - An	14733949	assignment			0 D3.1 Qualitat		1	0					SP23: HCI/INT	2133367	SP23-IN-INFO	SP23-IN-INFO	2437936	SP23-IN-INFO
Week 12 - Re	14756863	assignment			0 D3.1 Qualitat		1	0					SP23: HCI/INT	2133367	SP23-IN-INFO	SP23-IN-INFO	2437936	SP23-IN-INFO

course sis id

SP22-EA-BUS-J401-17057

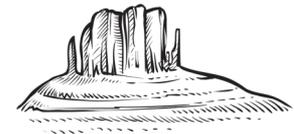
Term

Class
Number



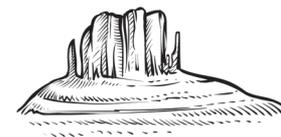
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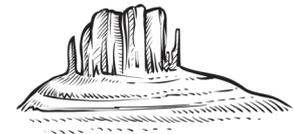
Assessed Courses File

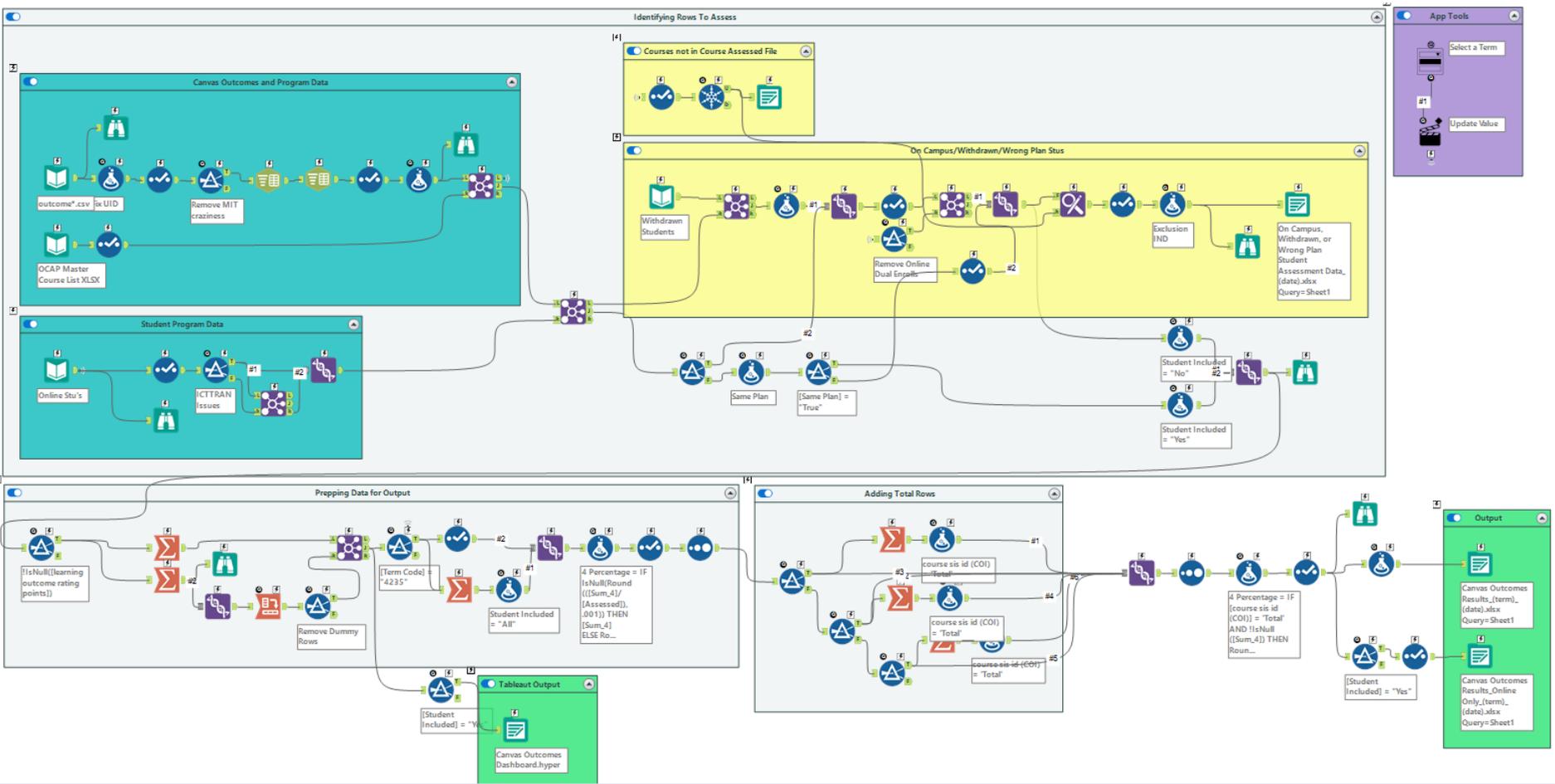
Term Code	Class Number	Course	Course Desc	Program	Course Assessed?	Faculty Reflection Form Complete	Notes
4218	1275	BUS-J401	Administrative Policy	Business Administration BS	Yes		
4218	2011	BUS-J401	Administrative Policy	Business Administration BS	Yes		
4218	26282	RADS-R405	Advanced Diagnostic Imaging I	Medical Imaging Tech BS	Yes		
4218	26336	RADS-R403	Advanced Topics in MIT	Medical Imaging Tech BS	Yes		
4218	27627	AHLT-R405	Advanced Diagnostic Imaging I	Medical Imaging Tech BS	Yes		
4218	31649	AHLT-R472	Multiplanar Anatomy and Pathology I	Medical Imaging Tech BS	Yes		
4218	31997	BUS-X410	Business Career Planning and Placement	Business Administration BS	Yes		
4218	33676	RADI-R451	Medical Imaging Theory I	Medical Imaging Tech BS	Yes		
4218	39589	SPEA-J502	Research Methods in CJPS	Criminal Justice & Public Safety MS	Yes		
4218	45531	BUS-X410	Business Career Planning and Placement	Business Administration BS	Yes		
4218	46250	BUS-X410	Business Career Planning and Placement	Business Administration BS	Yes		
4218	47633	BUS-X410	Business Career Planning and Placement	Business Administration BS	Yes		
4222	15607	AHLT-R406	Advanced Diagnostic Imaging II	Medical Imaging Tech BS	Yes		
4222	15608	AHLT-R409	Project in Medical Imaging	Medical Imaging Tech BS	Yes		
4222	16064	AHLT-R473	Multiplanar Anatomy and Pathology II	Medical Imaging Tech BS	Yes		
4222	16145	AHSC-C435	Program Assessment, Planning, and Evalatuion II	Applied Health Sciences BS	Yes		
4222	16352	AHSC-H330	Intercultural Health Communication	Applied Health Sciences BS	Yes		



Student Information System Query Results

Student ID	Term	Program	PRSN_UNIV_ID	Term Code	Campus	Spring Summer Fall	Program Plan Code	Program Description
				4218	Southeast	Fall	ACPNDG1	ACP Students
				4218	Southeast	Fall	ACPNDG1	ACP Students
				4228	Bloomington	Fall	AADVDEGCRT	Academic Advising GCRT
				4232	Bloomington	Spring	AADVDEGCRT	Academic Advising GCRT
				4218	Bloomington	Fall	AADVDEGCRT	Academic Advising GCRT
				4232	Bloomington	Spring	AADVDEGCRT	Academic Advising GCRT
				4235	Bloomington	Summer	AADVDEGCRT	Academic Advising GCRT
				4228	Bloomington	Fall	AADVDEGCRT	Academic Advising GCRT
				4232	Bloomington	Spring	AADVDEGCRT	Academic Advising GCRT
				4225	Bloomington	Summer	AADVDEGCRT	Academic Advising GCRT
				4238	Bloomington	Fall	AADVDEGCRT	Academic Advising GCRT
				4238	Bloomington	Fall	AADVDEGCRT	Academic Advising GCRT
				4228	Bloomington	Fall	AADVDEGCRT	Academic Advising GCRT
				4235	Bloomington	Summer	AADVDEGCRT	Academic Advising GCRT
				4232	Bloomington	Spring	AADVDEGCRT	Academic Advising GCRT
				4218	Bloomington	Fall	AADVDEGCRT	Academic Advising GCRT





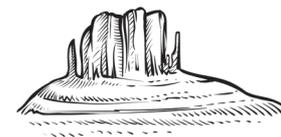
Before...

01.3 - Evaluate Potential Solutions										
Assignment	course/section	assessed	Exceeds Expectations		Meets Expectations		Below Expectations		does not meet expectations	
			n	%	n	%	n	%	n	%
Module 3: Graded Discussion (Synthesis of P	SU-BL-CHEM-T520-12768	17	1	5.88%	16	94.12%	0	0.00%	0	0.00%
	TOTAL	17	1	5.88%	16	94.12%	0	0.00%	0	0.00%
02.1 Connections to Discipline										
Assignment	course/section	assessed	Exceeds Expectations		Meets Expectations		Below Expectations		does not meet expectations	
			n	%	n	%	n	%	n	%
Final Project - Program Assessment	SU-EA-CHEM-T590-1449	14	9	64.29%	5	35.71%	0	0.00%	0	0.00%
	TOTAL	14	9	64.29%	5	35.71%	0	0.00%	0	0.00%



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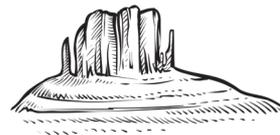
After...

Term Code	Program	learning outcome name	assessment title	course sis id (COI)	Assessed	3 Count	3 Percentage	2 Count	2 Percentage	1 Count	1 Percentage	0 Count	0 Percentage
4235	Chemistry	PLO 01.3 - Evaluate Potential Solutions	Module 3: Graded Discussion (Synthesis of Pumiliotoxin C	SU23-BL-CHEM-T520-12768	17	1	6%	16	94%				
4235	Chemistry	PLO 01.3 - Evaluate Potential Solutions	Module 3: Graded Discussion (Synthesis of Pumiliotoxin C	Total	17	1	6%	16	94%				
4235	Chemistry	PLO 02.1 - Connections to Discipline	Final Project - Program Assessment	SU23-EA-CHEM-T590-1449	14	9	64%	5	36%				
4235	Chemistry	PLO 02.1 - Connections to Discipline	Final Project - Program Assessment	Total	14	9	64%	5	36%				
4235	Chemistry	PLO 03.2 - Existing Knowledge, Research, and Evidence	Importance of Stereoselective Synthesis	SU23-BL-CHEM-T520-12768	17	12	71%	5	29%				
4235	Chemistry	PLO 03.2 - Existing Knowledge, Research, and Evidence	Importance of Stereoselective Synthesis	Total	17	12	71%	5	29%				
4235	Chemistry	PLO 04.1 - Central Message and Structure	Part 3: Final Draft of Project	SU23-BL-CHEM-T520-12768	17	12	71%	5	29%				
4235	Chemistry	PLO 04.1 - Central Message and Structure	Part 3: Final Draft of Project	Total	17	12	71%	5	29%				
4235	Chemistry	PLO 04.6 - History and/or Application	Module 2: Graded Discussion (History of Organic Synthesi	SU23-BL-CHEM-T520-12768	17	15	88%	2	12%				
4235	Chemistry	PLO 04.6 - History and/or Application	Module 2: Graded Discussion (History of Organic Synthesi	Total	17	15	88%	2	12%				
4235	Chemistry	PLO 05.1 - Topic Selection	Final Project - Program Assessment	SU23-EA-CHEM-T590-1449	14	6	43%	6	43%	2	14%		
4235	Chemistry	PLO 05.1 - Topic Selection	Final Project - Program Assessment	Total	14	6	43%	6	43%	2	14%		
4235	Chemistry	PLO 05.2 - Existing Knowledge, Research, and/or Views	Final Project - Program Assessment	SU23-EA-CHEM-T590-1449	14	3	21%	3	21%	8	57%		
4235	Chemistry	PLO 05.2 - Existing Knowledge, Research, and/or Views	Final Project - Program Assessment	Total	14	3	21%	3	21%	8	57%		
4235	Chemistry	PLO 05.3 - Design Process	Final Project - Program Assessment	SU23-EA-CHEM-T590-1449	14	9	64%	5	36%				
4235	Chemistry	PLO 05.3 - Design Process	Final Project - Program Assessment	Total	14	9	64%	5	36%				
4235	Chemistry	PLO 05.6 - Limitations and Implications	Final Project - Program Assessment	SU23-EA-CHEM-T590-1449	14							14	100%
4235	Chemistry	PLO 05.6 - Limitations and Implications	Final Project - Program Assessment	Total	14							14	100%



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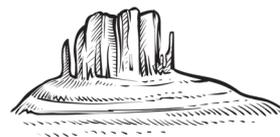
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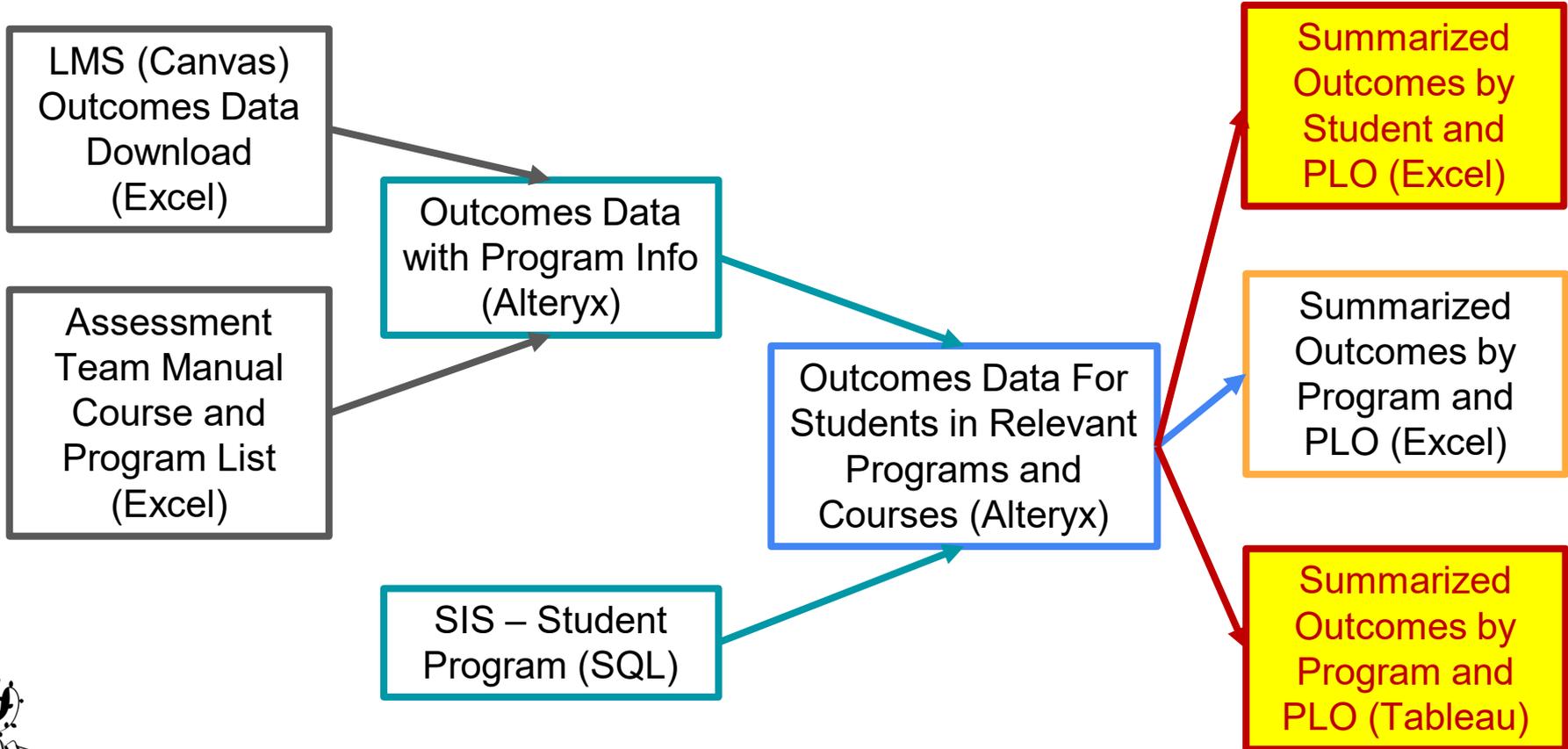
After...

Term Code	Program	learning outcome name	assessment title	course sis id (COI)	Assessed	3 Count	3 Percentage	2 Count	2 Percentage	Count	1 Percentage	0 Count	0 Percentage
4235	Chemistry	PLO 01.3 - Evaluate Potential Solutions	Module 3: Graded Discussion (Synthesis of Pumiliotoxin C	SU23-BL-CHEM-T520-12768	17	1	6%	16	94%				
4235	Chemistry	PLO 01.3 - Evaluate Potential Solutions	Module 3: Graded Discussion (Synthesis of Pumiliotoxin C	Total	17	1	6%	16	94%				
4235	Chemistry	PLO 02.1 - Connections to Discipline	Final Project - Program Assessment	SU23-EA-CHEM-T590-1449	14	9	64%	5	36%				
4235	Chemistry	PLO 02.1 - Connections to Discipline	Final Project - Program Assessment	Total	14	9	64%	5	36%				
4235	Chemistry	PLO 03.2 - Existing Knowledge, Research, and Evidence	Importance of Stereoselective Synthesis	SU23-BL-CHEM-T520-12768	17	12	71%	5	29%				
4235	Chemistry	PLO 03.2 - Existing Knowledge, Research, and Evidence	Importance of Stereoselective Synthesis	Total	17	12	71%	5	29%				
4235	Chemistry	PLO 04.1 - Central Message and Structure	Part 3: Final Draft of Project	SU23-BL-CHEM-T520-12768	17	12	71%	5	29%				
4235	Chemistry	PLO 04.1 - Central Message and Structure	Part 3: Final Draft of Project	Total	17	12	71%	5	29%				
4235	Chemistry	PLO 04.6 - History and/or Application	Module 2: Graded Discussion (History of Organic Synthesi	SU23-BL-CHEM-T520-12768	17	15	88%	2	12%				
4235	Chemistry	PLO 04.6 - History and/or Application	Module 2: Graded Discussion (History of Organic Synthesi	Total	17	15	88%	2	12%				

learning outcome name	assessment title	course sis id (COI)	Assessed	3 Count	3 Percentage	2 Count	2 Percentage
PLO 01.3 - Evaluate Potential Solutions	Module 3: Graded Discussion (Synthesis of Pumiliotoxin C	SU23-BL-CHEM-T520-12768	17	1	6%	16	94%
PLO 01.3 - Evaluate Potential Solutions	Module 3: Graded Discussion (Synthesis of Pumiliotoxin C	Total	17	1	6%	16	94%
PLO 02.1 - Connections to Discipline	Final Project - Program Assessment	SU23-EA-CHEM-T590-1449	14	9	64%	5	36%
PLO 02.1 - Connections to Discipline	Final Project - Program Assessment	Total	14	9	64%	5	36%



Canvas Outcomes Next Project Steps



Which Hat Do We Wear?

 APS 

 OCAP

 Faculty Committee

 Teaching Faculty

 
Create program-level learning outcomes and analytic rubrics


Use rubric to assess student work

 
Aggregate and analyze outcomes performance data

 
Teaching Faculty determines assignment and PLO criteria

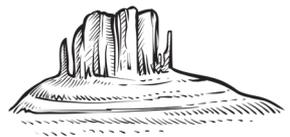

Add standard statement to assignment instructions for transparency

 
Reflect on efficacy and appropriateness of PLOs in identified courses


Add outcomes to course(s)


Add outcomes to assignment rubric(s)

 
Use data to improve program



Further Questions? Please Contact:

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