

Student to Faculty Ratio Guide

The following guide aids in running and understanding the information returned by the Faculty to Student Ratio dashboard in Argos. The dashboard is located through the Argos reporting tool which can be accessed here: <https://it.uca.edu/banner/>.

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I. Locating and Accessing the Dashboard

To locate the dashboard, navigate to <https://it.uca.edu/banner/>. Click the “Argos (PROD)” hyperlink as highlighted below and then log in.



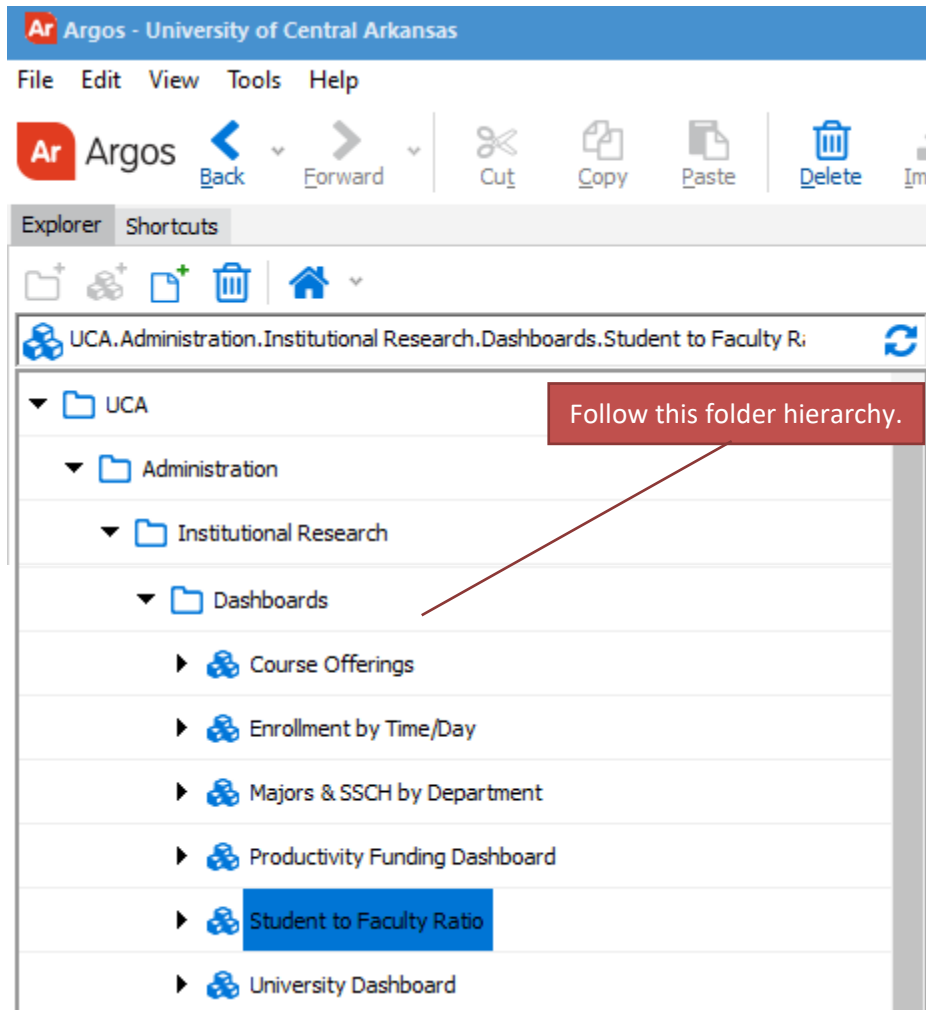
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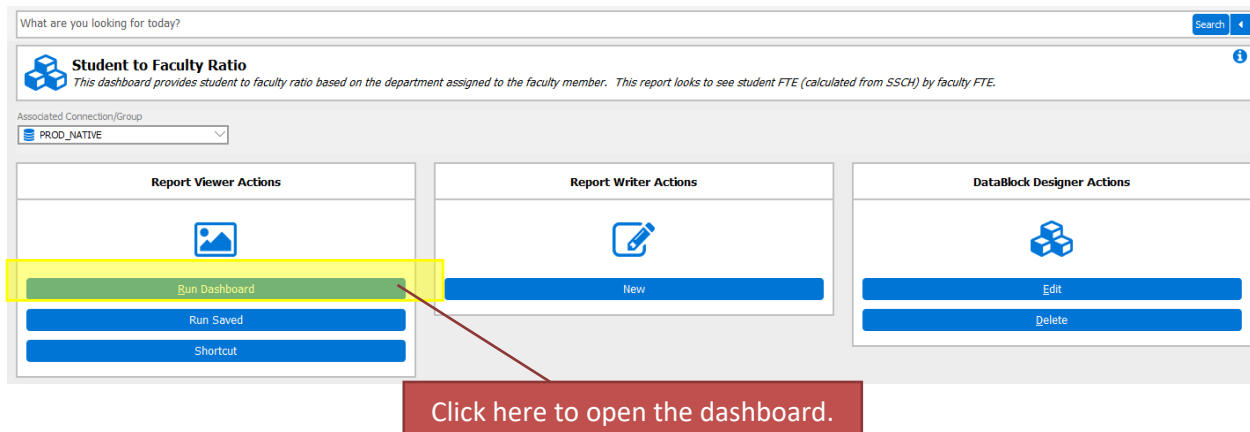
Banner Links Page

Banner 9		Banner 8 Self-Service	
Admin Pages Admin Pages (PROD) Admin Pages (TEST) Admin Pages (PPRD) Admin Pages (CONV) Banner Communication Management Communication Management (PROD) Communication Management (PPRD) Communication Management (CONV)		Direct Access Production Database (PROD) Test Database (TEST) Pre-Production Database (PPRD) Conversion Database (CONV)	Single Sign-on Production Database (PROD) Test Database (TEST) Pre-Production Database (PPRD) Conversion Database (CONV)
Banner 9 Self-Service		AppWorx	Evisions
General (PROD) General (TEST) General (PPRD) General (CONV) Student (PROD) Student (TEST) Student (PPRD) Student (CONV)	Faculty (PROD) Faculty (TEST) Faculty (PPRD) Faculty (CONV) Finance (PROD) Finance (TEST) Finance (PPRD) Finance (CONV)	AppWorx Client Installation	Argos (PROD) Argos Web Viewer (PROD) FormFusion (PROD) IntelleCheck (PROD)* Argos (DEV) Argos Web Viewer (DEV) FormFusion (DEV) IntelleCheck (DEV)*

The dashboard is located at *UCA.Administration.Institutional Research.Dashboards.Faculty to Student Ratio*. Navigate through the folder hierarchy to find the dashboard.



The following screen will appear to the right of the navigation tree. Click the “Run Dashboard” button to view the dashboard.



II. Running the Dashboard

After clicking the “Run Dashboard” button, the dashboard’s main page will appear.

The screenshot shows a web dashboard for the University of Central Arkansas. At the top, there are three tabs: 'Main', 'Fall Student to Faculty Ratio', and 'Spring Student to Faculty Ratio'. The 'Main' tab is currently selected. Below the tabs, on the left, is a timestamp '4/5/2023 11:45:47' and a breadcrumb trail: 'UCA.Administration.Institutional Research.Dashboards.Student to Faculty Ratio.Dashboard'. In the center, the title 'University of Central Arkansas' is displayed in a large, bold, purple font, with 'Student to Faculty Ratio' below it in a smaller, bold, black font. Below the title, a message reads: 'Please click on the buttons below to view the specified data'. Underneath this message are two buttons: 'Fall' and 'Spring'. On the right side of the dashboard, there is a section titled 'Additional information' with the URL 'http://uca.edu/ir/facts' and a note: 'questions or need furt for your college/unit.' Below this, there is a list of colleges: 'College of Business', 'College of Arts, Huma', 'Honors College', and 'Torreyson Library'.

Clicking on a button will take you to the specific page. You can also click on the tabs at the top of the page. The pages will either show the student to faculty ratio for the fall semester or spring semester.

4/5/2023 11:45:47
UCA.Administration.Institutional
Research.Dashboards.Student
to Faculty Ratio.Dashboard

University of Central Arkansas

Fall Student to Faculty Ratio



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Main Page

1.) Use this dropdown
to select the year/term.

2.) Click the "Run Query"
button to run the dashboard.

Select a Term: Run Query

Student to Faculty Ratio

Available Dimensions

Columns

Measures

Click the "Main Page" button to
return to the first screen, allowing
you to then select a different page.

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III. Interpreting the Dashboard

The college and department in the report is based on the college and department that a faculty member is assigned to. This report looks at paid faculty who are currently teaching for the semester indicated at the university.

A full-time faculty member counts as 1.0 FTE. For each part-time faculty member, we use the percentage of employment that is reported to Human Resources to determine the FTE. If a part-time faculty member is 25% then they are 0.25 FTE.

Student FTE is based off the courses that the faculty member teaches. Student FTE is calculated by a standard methodology explained on IR's [enrollment definitions website](#).

Example 1:

A full-time faculty member teaches courses that generate 23.0 student FTE. For that one faculty member, they are 23.0 student to 1.0 faculty ratio.

Example 2:

We have two faculty members for a department:

- (1) A part-time faculty member, who is employed 25%, generates 1.6 student FTE.
- (2) A full-time faculty member generates 23.0 student FTE.

	Student FTE	Faculty FTE
	1.6	0.25
	23.0	1.00
Total	24.6	1.25

Take the 24.6 and divide by 1.25, so now you get 19.68 students to 1.0 faculty for the department.

IV. Manipulating OLAP Cubes

OLAP stands for Online Analytical Processing. OLAP cubes are data structures that allow the end user to configure (“slice and dice”) the same data into many different views. They are designed to aid in decision-making and better understanding of information. Similar to pivot tables within Excel, the end user can add/remove variables (dimensions) as well as filter and sort the data to drill down into the details or generalize to see the big picture.

Note:

For a more comprehensive explanation of OLAP Cubes please refer to the Argos In-Product Help Guide:

<http://webhelp.evisions.com/HelpFiles/Argos/5.3/en/Default.htm#Report%20Viewer%20Guide/OLAP.htm%3FTocPath%3DUser%2520Guides%7CReport%2520Viewer%2520Guide%7COLAP%2520Data%2520Cubes%7C0>

A. Sorting

Select a Term: Fall 2016 Run Query Main Page

Available Dimensions: Department, Level, Classification, Minority, College

Columns: ADHE_Term, Gender

Hit the +/- symbol to expand/contract the information

Click the vertical or horizontal arrows to sort the rows/columns ascending or descending

	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Total by ROWS		
Gender	Female	Male	Students	Students	Students	Students		
Race	Students	Students	Students	Students	Students	Students		
	Value	Value	Value	Value	Value	Value		
American Indian/Alaskan Native	67	47	20	63	55	59	58	302
Asian	170	84	86	160	185	194	218	927
Black	1,942	2,011	1,913	1,788	1,788	1,788	1,788	9,451
Hispanic	373	452	484	540	540	540	540	2,174
NR Alien	489	575	606	630	630	630	630	2,828
Native Hawaiian/Pacific Islander	14	11	12	9	9	9	9	58
Two or more races	284	352	372	368	368	368	368	1,591
Unknown	317	142	117	75	75	75	75	998
White	7,892	7,915	7,997	7,801	7,801	7,801	7,801	39,251
Total by COLUMNS	1,534	11,698	11,754	11,754	11,487	11,487	11,487	57,580

B. Adding/Removing Dimensions

Editing the dimensions of the OLAP cube allows the user to view the data grouped in different ways. In the following example, the OLAP cube first displays enrollment data by Fall term. Dragging and dropping the necessary dimensions edits the OLAP cube to display the enrollment data split out by race/ethnicity and gender for each Fall term.

Select a Term: Fall 2016 Run Query Main Page

Available Dimensions: Department, Level, Classification, Gender, Minority

Columns: ADHE_Term

Rows: ADHE_Term

	Fall 2012	Fall 2013	Fall 2014
Students	11,107	11,534	11,698
Value			

Drag and drop dimensions from the available dimensions area to the columns or rows area to add dimensions.

Drag and drop dimensions from the columns or rows area to the available dimensions area to remove dimensions.

This is what the OLAP cube looks like after moving the gender and race dimensions:

Select a Term: Fall 2016 Run Query Main Page

Available Dimensions: Department, Level, Classification, Minority, College

Columns: ADHE_Term, Gender

Rows: Race

	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020
Gender	Female	Female	Female	Female	Female	Female	Female	Female	Female
Race	Students	Students	Students	Students	Students	Students	Students	Students	Students
Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
American Indian/Alaskan Native	67	47	20	63	55	59	58	302	
Asian	170	84	86	160	185	194	218	927	
Black	1,797	1,101	696	1,942	2,011	1,913	1,788	9,451	
Hispanic						484	540	2,174	
NR Alien						606	630	2,828	
Native Hawaiian/Pacific Islander						12	9	58	
Two or more races						372	368	1,591	
Unknown						117	75	998	
White						7,997	7,801	39,251	
Total by COLUMNS						11,754	11,487	57,580	

With the Gender dimension in the column area, the different gender categories are displayed horizontal along the top of the OLAP cube

With the Race dimension in the row area, the different race categories are displayed vertically along the left side of the OLAP cube

C. Filtering

Dimensions can be filtered to show only the user's chosen categories. A dimension **does not** need to be in the column and row areas to be filtered; it can be filtered from the available dimension area as well. For example, the user can click on the department dimension in the available dimensions area and filter it to show only enrollment for their department.

In the following example, the College dimension is being filtered (the dimension has changed from a gray box to a red box). Within the dimension editor:

- The Graduate School category has been removed (red crossed circle to the left of the category).
 - This category will not be visible in the OLAP cube nor will it be displayed in the totals.
- The Undeclared category has been changed to invisible (blue eye to the left of the category) in the dimension editor.
 - This category will not be visible in the OLAP cube but it *will* be displayed in the totals.
- All other categories were left with the default visible option (green eye to the left of the category) in the dimension editor.
 - These categories will be visible in the OLAP cube and will be displayed in the totals.

Select a Term: Fall 2016 Run Query Main Page

Available Dimensions: Department, Level, Classification, Gender, Minor

Columns: ADHE_Term

College	ADHE_Term	Fall 2012	Fall 2011
Business	Students	522	1
Education	Value	778	
Fine Arts and Communication	Students	893	
Health and Behavioral Sciences	Value	2,640	2
Liberal Arts	Students	723	
Natural Sciences and Mathematics	Value	1,163	1
Undergraduate Studies	Students	20	
Total by COLUMNS	Students	11,073	11

Dimension editor: College

Enable prev. forecast value ☐ Forecasting method: Triple Exponential S

Enable next forecast value ☐

- Business (Green eye)
- Education (Green eye)
- Fine Arts and Communication (Green eye)
- Graduate School (Red crossed circle)
- Health and Behavioral Sciences (Green eye)
- Liberal Arts (Green eye)
- Natural Sciences and Mathematics (Green eye)
- Undeclared (Blue eye)
- Undergraduate Studies (Green eye)

Items count: 9

1) Click the down arrow next to the dimension to bring up the Dimension Editor menu

2) Click the green checkmark to save your selection

The green eye means that category is visible and included in the totals

The red crossed circle means that the category is not visible and not included in the totals

The blue eye means that category is not visible but is included in the totals

To see examples of filtering an OLAP refer to Argos YouTube videos:

<https://youtu.be/kYwXgRRcAuM>

<https://youtu.be/ALmaNsYLk7M> (starting at minute 1:30)

D. Exporting to Excel

After manipulating an OLAP cube, the data can be extracted to an Excel file for further manipulation or for adding into a report.

Select a Term: Fall 2016 Run Query

Available Dimensions: Level Classification Race College ADHE_Term

Columns: Minority Gender

Department Minority Gender

Department	Minority			Non-Minority			Total by ROWS
	Students	Female	Male	Students	Female	Male	
Biology	200	124	76	596	353	243	796
Chemistry	53	32	21	159	92	67	212
Computer Science	75	14	61	270	30	240	345
Geography	9	3	6	69	20	49	78
Mathematics	23	16	7	107	42	65	130
Physics & Astronomy	14	2	12	70	11	59	84
Total by COLUMNS	374	191	183	1,271	548	723	1,645

The Excel document will contain what is currently shown in the OLAP cube, including selected filters.

Right click anywhere within the OLAP cube to display the options menu. Choose Export to Excel (OLE)

Export to Excel

Saved OLAP Settings

Undo Ctrl+Z

Cut Ctrl+X

Copy Ctrl+C

Paste Ctrl+V

Print ...

Select All Ctrl+A

The OLAP cube data will display in Excel exactly as it was displayed in the OLAP cube within Argos. The OLAP cube does not import as an image but as a general data format so that it can be manipulated further in Excel as needed.

File	Home	Insert	Page Layout	Formulas	Data	Review	View	ASAP Utilities	Nitro Pro
Clipboard Font Alignment Number Styles									
A1	Minority								
	A	B	C	D	E	F	G	H	
1	Minority	Minority			Non-Minority			Total by ROWS	
2	Gender		Female	Male		Female	Male		
3		Students	Students	Students	Students	Students	Students	Students	
4	Department	Value	Value	Value	Value	Value	Value	Value	
5	Biology	200	124	76	596	353	243	796	
6	Chemistry	53	32	21	159	92	67	212	
7	Computer Science	75	14	61	270	30	240	345	
8	Geography	9	3	6	69	20	49	78	
9	Mathematics	23	16	7	107	42	65	130	
10	Physics & Astronomy	14	2	12	70	11	59	84	
11	Total by COLUMNS	374	191	183	1,271	548	723	1,645	
12									
13									
14									