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# Student to Faculty Ratio Guide

The following guide provides assistance 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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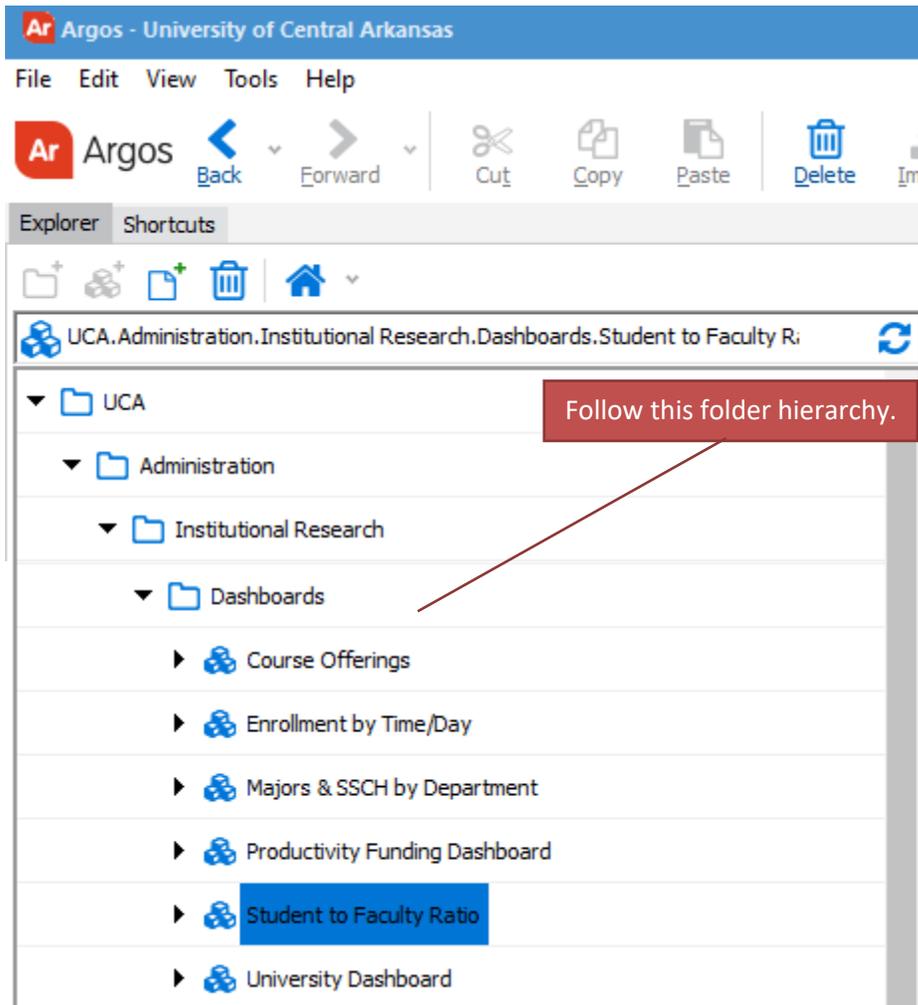
Information Technology

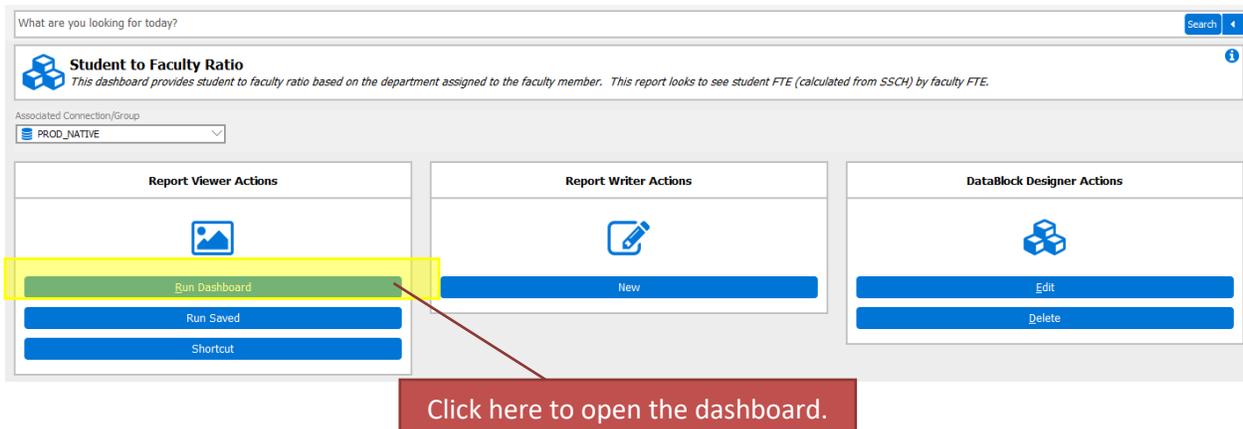
### Banner Links Page

Banner 9		Banner 8 Self-Service	
<p><b>Admin Pages</b></p> <p><a href="#">Admin Pages [PROD]</a>  <a href="#">Admin Pages [TEST]</a>  <a href="#">Admin Pages [PPRD]</a>  <a href="#">Admin Pages [CONV]</a></p> <p><b>Banner Communication Management</b></p> <p><a href="#">Communication Management [PROD]</a>  <a href="#">Communication Management [PPRD]</a>  <a href="#">Communication Management [CONV]</a></p>	<p><b>Direct Access</b></p> <p><a href="#">Production Database [PROD]</a>  <a href="#">Test Database [TEST]</a>  <a href="#">Pre-Production Database [PPRD]</a>  <a href="#">Conversion Database [CONV]</a></p>	<p><b>Single Sign-on</b></p> <p><a href="#">Production Database [PROD]</a>  <a href="#">Test Database [TEST]</a>  <a href="#">Pre-Production Database [PPRD]</a>  <a href="#">Conversion Database [CONV]</a></p>	
Banner 9 Self-Service		AppWorx	Evisions
<p><a href="#">General [PROD]</a>  <a href="#">General [TEST]</a>  <a href="#">General [PPRD]</a>  <a href="#">General [CONV]</a></p> <p><a href="#">Student [PROD]</a>  <a href="#">Student [TEST]</a>  <a href="#">Student [PPRD]</a>  <a href="#">Student [CONV]</a></p>	<p><a href="#">Faculty [PROD]</a>  <a href="#">Faculty [TEST]</a>  <a href="#">Faculty [PPRD]</a>  <a href="#">Faculty [CONV]</a></p> <p><a href="#">Finance [PROD]</a>  <a href="#">Finance [TEST]</a>  <a href="#">Finance [PPRD]</a>  <a href="#">Finance [CONV]</a></p>	<p><a href="#">AppWorx Client Installation</a></p>	<p><a href="#">Argos [PROD]</a></p> <p><a href="#">Argos Web Viewer [PROD]</a>  <a href="#">FormFusion [PROD]</a>  <a href="#">IntelleCheck [PROD]*</a></p> <p><a href="#">Argos [DEV]</a>  <a href="#">Argos Web Viewer [DEV]</a>  <a href="#">FormFusion [DEV]</a>  <a href="#">IntelleCheck [DEV]*</a></p>

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

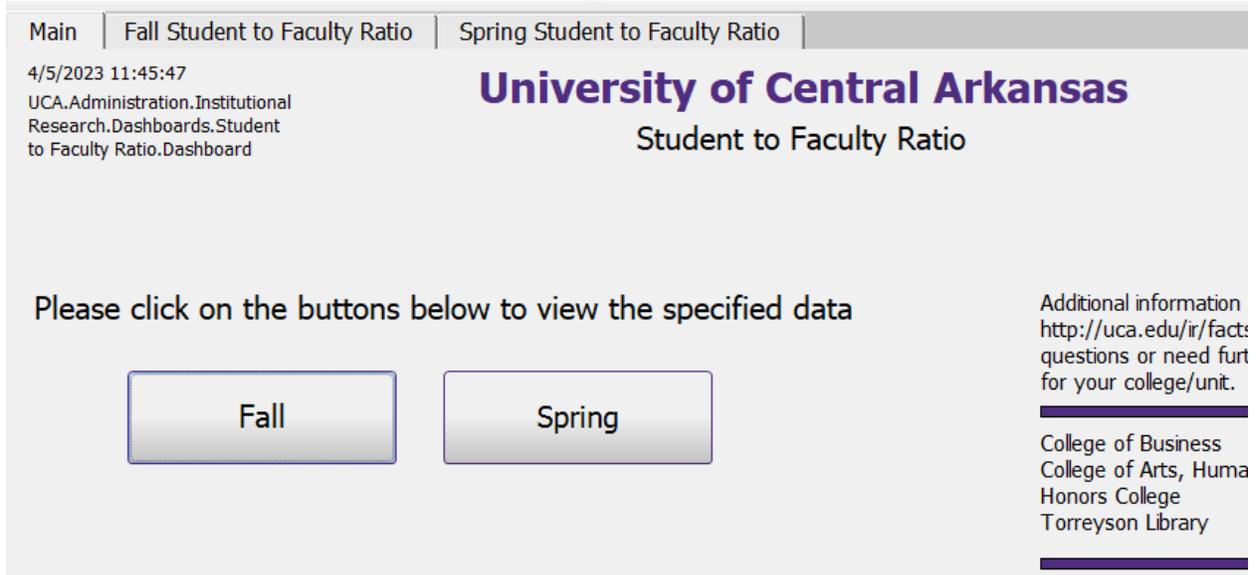


The following screen will appear to the right of the navigation tree. Click the "Run Dashboard" button to view the dashboard.



## 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 navigation tabs: "Main", "Fall Student to Faculty Ratio", and "Spring Student to Faculty Ratio". The "Main" tab is currently selected. Below the tabs, the date and time "4/5/2023 11:45:47" are displayed on the left, and the breadcrumb path "UCA.Administration.Institutional Research.Dashboards.Student to Faculty Ratio.Dashboard" is shown below it. The main heading is "University of Central Arkansas Student to Faculty Ratio". Below this heading, there is a prompt: "Please click on the buttons below to view the specified data". There are two buttons: "Fall" and "Spring". To the right of the buttons, there is a section for "Additional information" with the URL "http://uca.edu/ir/facts" and a note that users can ask questions or need further information for their 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.

Main | Fall Student to Faculty Ratio | Spring Student to Faculty Ratio

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

is static and comes from the official  
are available at [HERE](#)

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

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

Select a Term:  Run Query

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[Main Page](#)

### 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.

### 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.

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.

	<b>Student FTE</b>	<b>Faculty FTE</b>
	1.6	0.25
	23.0	1.00
<b>Total</b>	<b>24.6</b>	<b>1.25</b>

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%7C\\_0](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%7C_0)

### A. Sorting

The screenshot shows an OLAP report interface. At the top, there is a dropdown menu for "Select a Term:" set to "Fall 2016" and a "Run Query" button. Below this, there are several dimension dropdowns: "Available Dimensions" (Department, Level, Classification, Minority, College), "Columns" (ADHE\_Term, Gender), and "Race". The main data table has columns for "Race", "Gender", and "Students" for each year from Fall 2012 to Fall 2016, plus a "Total by ROWS" column. The "Race" dimension is expanded to show "American Indian/Alaskan Native", "Asian", "Black", "Hispanic", "NR, Alien", "Native Hawaiian/Pacific Islander", "Two or more races", "Unknown", "White", and "Total by COLUMNS". The "Gender" dimension is expanded to show "Female" and "Male". The "Students" column is expanded to show "Value".

Annotations:

- A purple box with the text "Hit the +/- symbol to expand/contract the information" points to the +/- symbols in the column headers.
- A red box with the text "Click the vertical or horizontal arrows to sort the rows/columns ascending or descending" points to the vertical and horizontal arrows in the column headers.

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

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

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

Race

Race	Fall 2012			Fall 2013			Fall 2014		
	Female	Male	Students	Female	Male	Students	Female	Male	Students
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
	Students	Students	Students
Business	Value	522	1
Education	Value	778	
Fine Arts and Communication	Value	893	
Health and Behavioral Sciences	Value	2,640	2
Liberal Arts	Value	723	
Natural Sciences and Mathematics	Value	1,163	1
Undergraduate Studies	Value	20	
Total by COLUMNS	Value	11,073	11

Dimension editor: College

Caption: College

Enable prev. forecast value  Forecasting method: Triple Exponential S

Enable next forecast value

- Business
- Education
- Fine Arts and Communication
- Graduate School
- Health and Behavioral Sciences
- Liberal Arts
- Natural Sciences and Mathematics
- Undeclared
- Undergraduate Studies

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:

Available Dimensions: Level, Classification, Race, College, ADHE\_Term

Columns: Minority, Gender

Department	Minority			Non-Minority			Total by ROWS
	Students	Female	Male	Students	Female	Male	Students
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

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.

Minority	Minority			Non-Minority			Total by ROWS
Gender	Students	Female	Male	Students	Female	Male	Students
Department	Value	Value	Value	Value	Value	Value	Value
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