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ACADEMIC AFFAIRS
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Course Offerings Guide

The following guide provides assistance in running and understanding the information returned by the Course Offerings 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.



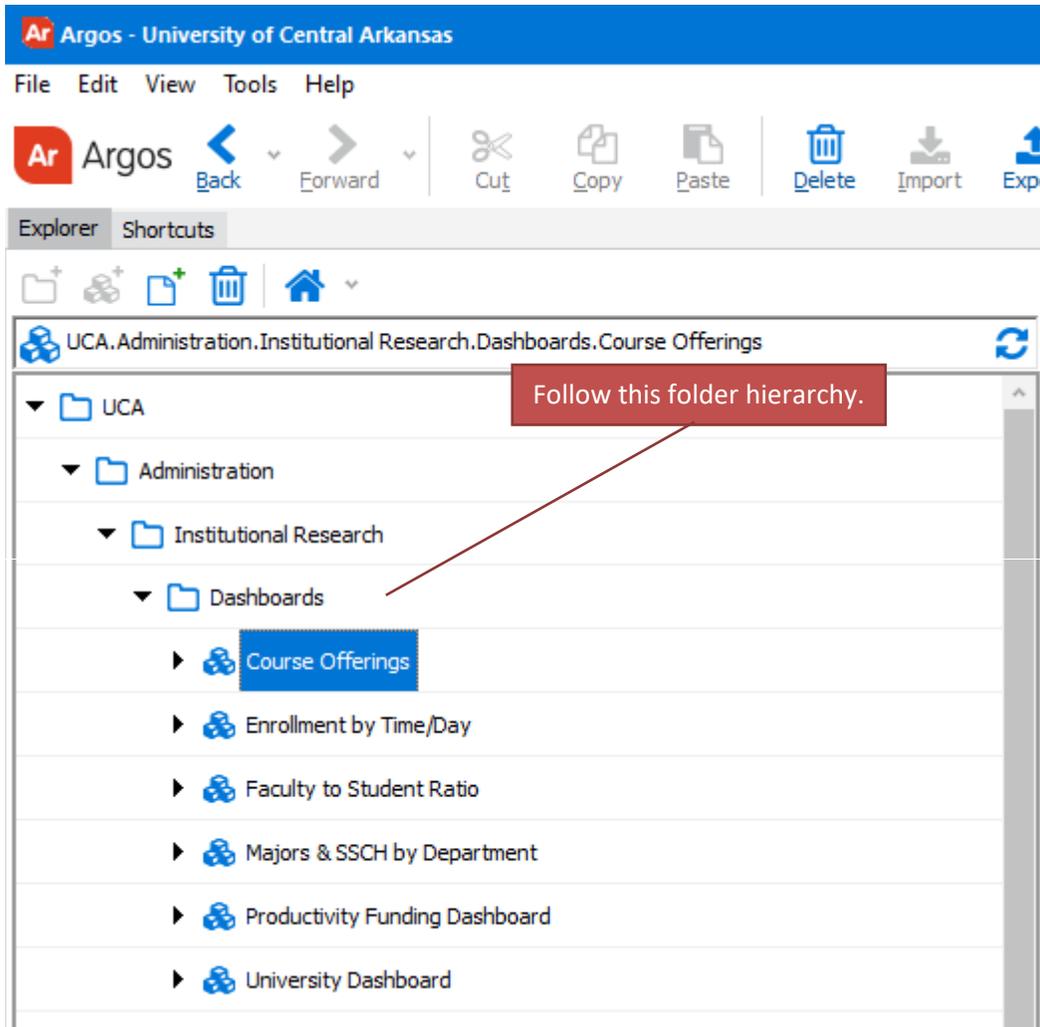
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Information Technology

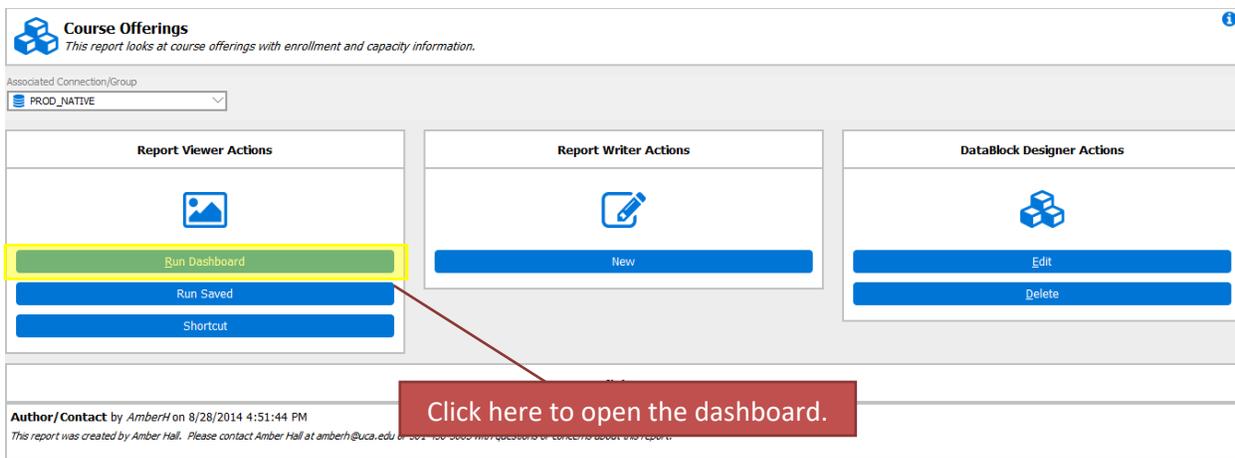
Banner Links Page

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

The dashboard is located at *UCA.Administration.Institutional Research.Dashboards.Course Offerings*. 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.

Offerings by AY

9/15/2022 12:10:47
UCA.Administration.Institutional
Research.Dashboards.Course
Offerings.Dashboard

University of Central Arkansas
Course Offerings by Department

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Please click on the buttons below to view the specified data

Offerings by AY

Additional information and a dashboard guide are available at <http://uca.edu/ir/facts-and-figures/argos-dashboards/>. If you have questions or need further help, please contact the IR representative for your college/unit.

College of Business
College of Arts, Humanities, & Social Sciences
Student Transitions
Torreyson Library

College of Education
College of Health & Behavioral Sciences
College of Natural Sciences & Mathematics
Honors College
Graduate School

Kristin Heffington
501-450-5371
kheffington@uca.edu

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 page will show course offerings by academic year: fall to summer semesters.

Course Offerings Dashboard

Dashboard Options: Report Options:

Offerings by AY

University of Central Arkansas
Course Offerings by Academic Year

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1.) Use this dropdown to select the year.

2.) Click the “Run Query” button to run the dashboard.

Academic Year: Run Query

College:

Department: (To select multiple departments, hold the Ctrl key while making selections)

For Year Selected:

Available Dimensions

Columns

Measures

SSCH:
Total SSCH generated by this course.

Section Count:
Number of sections that the university had.

Total Enrollment:
Total enrollment of the course.

Avg Enrollment:
Average enrollment of each section for the course.
Capacity is defined as enrollment divided by max enrollment.

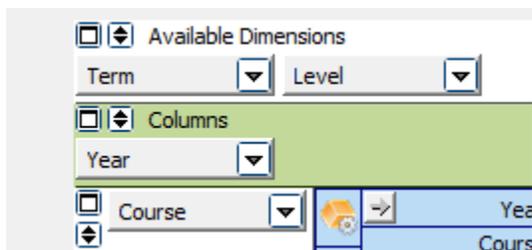
Q1 Capacity (25th percentile):
Q1 gives us the first quartile of the capacity of the sections for that course. This is also known as the 25th percentile, so this is value is where 25% of the sections lie below.

Median Capacity (50th percentile):
The median capacity of the sections for that course. This is also known as the 50th percentile, so this is value is where 50% of the sections lie below.

Q3 Capacity (75th percentile):

III. Interpreting the Dashboard

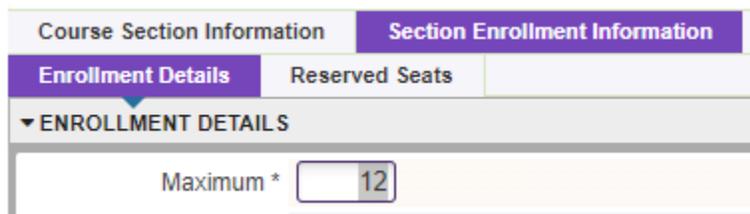
The dashboard has the following dimensions which you can use to manipulate the OLAP cube.



For each course, the following variables are shown:

Variable	Description
SSCH	Total SSCH generated by this course.
Section Count	Number of sections that the university had.
Total Enrollment	Total enrollment of the course.
Avg Enrollment	Average enrollment of each section for the course.
<i>Capacity is defined as enrollment divided by max enrollment.</i>	
Q1 Capacity (25th percentile)	Q1 gives us the first quartile of the capacity of the sections for that course. This is also known as the 25th percentile, so this is value is where 25% of the sections lie below.
Median Capacity (50th percentile)	The median capacity of the sections for that course. This is also known as the 50th percentile, so this is value is where 50% of the sections lie below.
Q3 Capacity (75th percentile)	Q3 gives us the third quartile of the capacity of the sections for that course. This is also known as the 75th percentile, so this is value is where 75% of the sections lie below.

For capacity, we use the enrollment of a course on the census day. Max enrollment is recorded in SSASECT in the field shown below in Banner.



Example: Enrollment on the census day is 10 and max enrollment is 12, so capacity if $10/12 = 83\%$.

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

A. Sorting

The screenshot shows an OLAP cube interface. At the top, there is a "Select a Term:" dropdown menu set to "Fall 2016" and a "Run Query" button. Below this, there are several dimension filters: "Available Dimensions" (Department, Level, Classification, Minority, College) and "Columns" (ADHE_Term, Gender). 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".

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		
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	484	540	540	540	2,174
NR Alien	489	575	606	606	630	630	630	2,828
Native Hawaiian/Pacific Islander	14	11	12	12	9	9	9	58
Two or more races	284	352	372	372	368	368	368	1,591
Unknown	317	142	117	117	75	75	75	998
White	7,892	7,915	7,997	7,997	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:

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

Columns: ADHE_Term

	Fall 2012	Fall 2013	Fall 2014
Students			
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:

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

Columns: ADHE_Term, Gender

Rows: Race

Race	Fall 2012			Fall 2013			Fall 2014		
	Students	Female	Male	Students	Female	Male	Students	Female	Male
	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, Students, Value

ADHE_Term	College	Students	Value
Fall 2012	Fall 2013		
5.0	5.0	522	1
5.0	5.0	778	1
5.0	5.0	893	1
5.0	5.0	2,640	2
5.0	5.0	723	1
5.0	5.0	1,163	1
5.0	5.0	20	1
5.0	5.0	11,073	11

Dimension editor: College

Caption: College

Enable prev. forecast value Forecasting method: Triple Exponential S

Enable next forecast value

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.

The screenshot shows the Argos OLAP interface. At the top, there is a 'Select a Term:' dropdown set to 'Fall 2016' and a 'Run Query' button. Below this are 'Available Dimensions' (Level, Classification, Race, College, ADHE_Term) and 'Columns' (Minority, Gender). The main area displays a data cube with dimensions: Department, Minority, Gender, and Students. The data is summarized by rows and columns. A purple callout box points to the 'Run Query' button, stating: 'The Excel document will contain what is currently shown in the OLAP cube, including selected filters.' A red callout box points to the context menu, stating: 'Right click anywhere within the OLAP cube to display the options menu. Choose Export to Excel (OLE)'. The context menu includes options like 'Export to Excel', 'Saved OLAP Settings', 'Undo', 'Cut', 'Copy', 'Paste', 'Print ...', and 'Select All'.

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

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.

The screenshot shows an Excel spreadsheet with the following data:

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