

The logo for "Cal Answers" is displayed in a yellow, sans-serif font against a dark blue background. The background features a faint, stylized image of a classical building facade with columns and arches. A small white light flare is positioned to the right of the text.

Cal Answers

***Cal Answers
Dashboard Reports***

Student All Access - Census

Office of Planning & Analysis
Associate Vice Chancellor – Chief Financial Officer
University of California, Berkeley

May 2012

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To report any problems with the Cal Answers Portal, Reports, or Dashboards:

- Send an e-mail to calanswers-help@berkeley.edu, or
- Call the Help Desk at 642-8500, Monday – Friday, 8:00am – 5:00pm

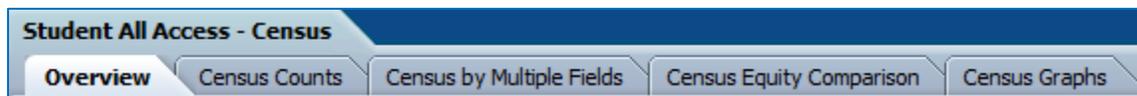
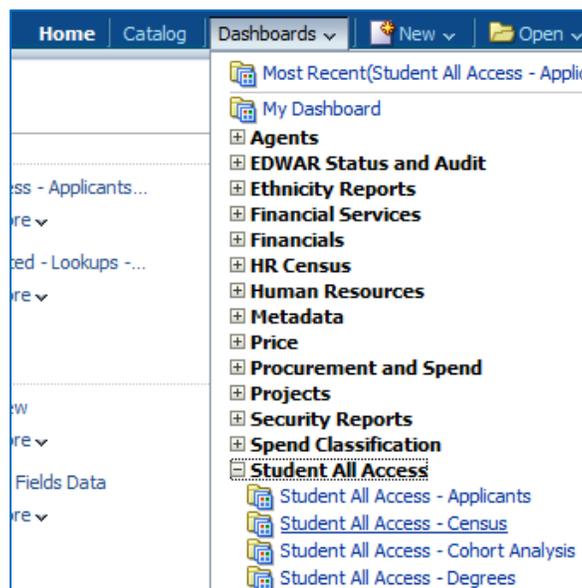
Overview

Accessing Dashboard Reports

The Cal Answers reporting environment, using Oracle Business Intelligence Enterprise Edition (OBIEE) software, provides two different interfaces to the UC Berkeley Enterprise Data Warehouse (EDW). One of these interfaces, called “Analysis,” is an ad hoc query tool. The other interface, which is discussed in this document, is called “Dashboards,” and provides interactive reports to campus users.

This document specifically covers the **Student All Access – Census** dashboard pages dealing with registered student census counts, a set of standard reports that are available to all Cal Answers users. You can access these reports from the “Dashboards” dropdown list that appears at the top right of any OBIEE screen, as shown in the screenshot to the right. Simply drop down the list, and expand the node named “Student All Access” to see the dashboards available within that grouping. Finally, in this case, you’ll choose the blue “Student All Access - Census” link.

When you click the “Student All Access - Census” link, you will then see all of the available reports, each on a separate tab, that currently exist within this dashboard. For example:



You then simply click on a tab in order to see a given dashboard page and the report that it contains. The first tab, “Overview,” contains brief descriptions of each report.

Understanding Student Census Data

The student census is the official count of registered students at all UC campuses, taken on the equivalent day of each semester or quarter at each campus. At UC Berkeley, the census occurs at the end of the 15th day of classes in a given term. The campus then reports this census data to the UC Office of the President, and through them, to the State of California. In order to be counted in the census, a student must:

- Be degree-seeking;
- Be enrolled in at least one class; and
- Have paid at least a portion of billed fees, or be reported as “in process” by the Financial Aid Office or the Graduate Division.

The remainder of this document covers each of the student census count dashboard reports in more detail.

Census Counts Dashboard Page

The “Census Counts” dashboard tab defaults to showing a simple table of the campus total census counts, by student level, for the most recent 10 semesters:

**Registered Student Census Counts
By Term, Level, and Unit**

Year & Term
2011 Fall; 2011 Sp.

Census Counts

Select Data View:

		Student Census Headcounts									
		2007 Spring	2007 Fall	2008 Spring	2008 Fall	2009 Spring	2009 Fall	2010 Spring	2010 Fall	2011 Spring	2011 Fall
Student Level	Campus Unit										
U	All	23,351	24,636	24,032	25,151	24,448	25,530	25,051	25,540	24,969	25,885
G	All	9,592	10,317	9,809	10,258	9,735	10,313	9,854	10,298	9,789	10,257
Grand Total		32,943	34,953	33,841	35,409	34,183	35,843	34,905	35,838	34,758	36,142

Please note that when viewing headcount data, the grand total line counts unduplicated students and so may not equal the sum of the row values.

[Export](#)

Understanding the Data

This report can display census values for undergraduates and graduate students as either headcounts (the default) or prorated counts. These two types of counts allow you to see double and triple majors in different ways. They are equivalent at the campus total level, but may be different at any level below that in the academic hierarchy.

For example, the major programs in Physics and History are both in the College of Letters & Science, but they are in different departments, and each of those departments is in a different division.

Using headcounts, then, a student who was double majoring in Physics and History would count as 1 in each of those major programs, as 1 in each department, and as 1 in both the Social Sciences Division and the Math & Physical Sciences Division. Headcounts do not duplicate students within shared organizational levels, however, so this student would only count as 1 in the College of Letters & Science.

With prorated counts, on the other hand, this student would count as 0.5 in each major program, department, and division. These prorated values would then roll up to 1 at the college level. Note that prorated census counts are *not* the same thing as full-time equivalent (FTE) counts, which are based on student course loads.

When viewing headcount data in this table, note that the grand total line may not equal the sum of the row values, because it counts unduplicated students at the next higher organizational level.

Using the Report

**Registered Student Census Counts
By Term, Level, and Unit**

Filters → **Year & Term**
2011 Fall; 2011 Sp. ▾ Apply Reset

Census Counts

Select Data View: Headcount Table ▾ ← Data Views

Sorting & Drag/Drop

		Student Census Headcounts									
		2007 Spring	2007 Fall	2008 Spring	2008 Fall	2009 Spring	2009 Fall	2010 Spring	2010 Fall	2011 Spring	2011 Fall
Student Level ▾	Campus Unit										
U	All	23,351	24,636	24,032	25,151	24,448	25,530	25,051	25,540	24,969	25,885
G	All	9,592	10,317	9,809	10,258	9,735	10,313	9,854	10,298	9,789	10,257
Grand Total		32,943	34,953	33,841	35,409	34,183	35,843	34,905	35,838	34,758	36,142

Please note that when viewing headcount data, the grand total line counts unduplicated students and so may not equal the sum of the row values.

Drill into Academic Hierarchy [Export](#) Export Link

By default, this report will show student census headcounts by student level for the entire campus, for the most recent 10 fall and spring semesters. Cal Answers dashboard reports have several interactive features, however, that let you customize the data that you see.

Filters

At the top of each dashboard page, just below the title, you'll see one or more filters that you can apply to the data. In this case, you can choose multiple years and terms, going back to Fall 1983. In order to select a different set of years and terms than the default, simply click on the down-arrow button, and then choose the values you want from the list. (If you need more flexibility, choose the "Search..." option that appears at the bottom of the list.) Once you've made your selections, click "Apply" to set your new filter values.

Data Views

The "Select Data View" dropdown lets you choose how you want to see the data. In this case, you have four options:

- Headcount Table – This shows a table of values compiled as headcounts (as described above, double and triple majors count as 1 in each of the campus units involved).
- Headcount Chart – This shows the headcount values as a line chart, rather than in a table.
- Prorated Table – This shows a table of values compiled as prorated counts (as described above, double and triple majors count as 0.5 or 0.333 in each of the campus units involved).
- Prorated Chart – This shows the prorated values as a line chart, rather than in a table.

Sorting and Drag/Drop

The small up and down arrowheads that appear in some cells allow you to sort table rows or columns by the values in those cells. When you move your mouse just above a column, you'll see a drag/drop bar  that you can then use to change the order of columns. For instance, you could move the "Campus Unit" column to the left of the "Student Level" column.

Drill into Academic Hierarchy

The header and values in the “Campus Unit” table column are links that allow you to drill down into the campus academic hierarchy. Clicking the header value (“Campus Unit”) will display data by college or school for all rows in the table. Clicking a specific row value (“All”) will display college/school data only for that row. You can then continue drilling through divisions, departments, and down to individual major programs. As you drill into this hierarchy, you’ll see “Return” and “Back” links appear just below the data table. Clicking “Back” moves you one step back up the drilldown hierarchy. Clicking “Return” takes you all the way back to the top.

Export Link

Finally, just below the table is an “Export” link that lets you download data in a variety of formats.

Census by Multiple Fields Dashboard Page

The “Census by Multiple Fields” dashboard tab defaults to showing a table of the campus total undergraduate census counts, by gender, four-value ethnicity, and nine-value ethnicity, for the most recent six semesters:

Registered Student Census Counts
By Term, Level, Unit, and Any Three Additional Fields

Year & Term: 2012 Spring;2011 |
 College/School: |
 Department: |

Undergrad/Grad: U |
 Division: |
 Major: |
 [Apply](#) [Reset](#)

Census Counts

Select Field 1: Gender Desc |
 Select Field 2: Ucb Level1 Ethnic Rollup Desc |
 Select Field 3: Ucb Level2 Ethnic Rollup Desc |

Select Data View: Headcount Table

				Student Census Headcounts					
				2009 Fall	2010 Spring	2010 Fall	2011 Spring	2011 Fall	2012 Spring
Student Level	Gender Desc	Ucb Level1 Ethnic Rollup Desc	Ucb Level2 Ethnic Rollup Desc						
U	Female	Asian/Pacific Islander	Asian	5,432	5,457	5,371	5,348	5,277	5,292
			Pacific Islander	35	35	30	26	27	27
		International	668	661	887	836	1,155	1,094	
		Underrepresented Minority	African American	577	541	538	536	542	518
			Chicano/Latino	1,737	1,692	1,715	1,698	1,802	1,809
			Native American/Alaskan Native	69	68	83	88	93	97
		White/Other	Decline to State	835	801	808	796	802	761
			Other	219	215	160	147		
		Male	Asian/Pacific Islander	White	3,937	3,869	3,922	3,844	3,962
	Asian			4,812	4,715	4,686	4,583	4,699	4,602
	Pacific Islander		30	29	31	29	35	33	
	International		733	719	957	929	1,268	1,196	
	Underrepresented Minority		African American	346	329	336	318	350	331
			Chicano/Latino	1,310	1,270	1,295	1,269	1,328	1,289
			Native American/Alaskan Native	60	58	63	64	76	77
	White/Other		Decline to State	725	679	725	689	695	645
			Other	159	154	115	105		
			White	3,846	3,759	3,818	3,664	3,774	3,664
U Total			25,530	25,051	25,540	24,969	25,885	25,277	

The filters used to display these values are:

Semester Year Name Concat is equal to **2012 Spring, 2011 Fall, 2011 Spring, 2010 Fall, 2010 Spring, 2009 Fall**
 and Ungrad Grad Cd is equal to **U**

[Export](#)

Understanding the Data

As noted above in the “Understanding the Data” section of this document, this report can display census values for undergraduates and graduate students as either headcounts (the default) or prorated counts. See that section for a complete explanation of these two different ways of counting majors.

As the report title indicates, this dashboard page lets you choose three fields from a selection of nine, for grouping the data that appears in the table. (See the “Using the Report” section below for instructions on how to do this.) The nine fields, which OBIEE identifies by rather unfriendly database column names, that are available include:

- **Ucb Level1 Ethnic Rollup Desc** – This is a four-value, high-level ethnicity description. Note that the university does not report the ethnicities of non-US citizens/immigrants, so international students are reported separately, as one of the four categories. Students self-select their ethnicities at the time of application, and can later request changes, although that rarely happens.
- **Ucb Level2 Ethnic Rollup Desc** – This is a nine-value, mid-level ethnicity description. As above, international students are reported separately.
- **Short Ethnic Desc** – This is a 16-value, detailed ethnicity description. As above, international students are reported separately.
- **Gender Desc** – This description indicates a student’s gender.
- **Entry Status Desc** – This field describes how a student entered the university as an undergraduate; the two most common ways are as “New Freshmen” or “Advanced Standing” (transfer). For graduate students, this field will be blank, unless they attended Berkeley as undergrads.
- **Educ Level Cd** – This field indicates the level of a student (e.g., 1 = “Freshman,” 4 = “Senior,” 5 = “Masters,” 6/7/8 = “Doctoral,” L = “Limited,” etc.) including all units, whether completed through coursework or by exam.
- **Educ Non Exam Level Cd** – This field indicates the level of a student (e.g., 1 = “Freshman,” 4 = “Senior,” 5 = “Masters,” 6/7/8 = “Doctoral,” L = “Limited,” etc.) including only units completed through coursework, not by exam.
- **Registrn Elig Status Desc** – Registration eligibility status describes whether students are new, continuing, returning/reentrant, or visitors.
- **Residency Status Desc** – This field indicates whether students are California residents or nonresidents. Note that these are demographic determinations and may not correspond to the fees that students pay.

Using the Report

Registered Student Census Counts
By Term, Level, Unit, and Any Three Additional Fields

Year & Term: 2012 Spring; 2011
 College/School:
 Department:
 Undergrad/Grad: U
 Division:
 Major:

Census Counts

Select Field 1: Gender Desc
 Select Field 2: Ucb Level1 Ethnic Rollup Desc
 Select Field 3: Ucb Level2 Ethnic Rollup Desc
 Select Data View: Headcount Table

Student Level	Gender Desc	Ucb Level1 Ethnic Rollup Desc	Ucb Level2 Ethnic Rollup Desc	Student Census Headcounts					
				2009 Fall	2010 Spring	2010 Fall	2011 Spring	2011 Fall	2012 Spring
U	Female	Asian/Pacific Islander	Asian	5,432	5,457	5,371	5,348	5,277	5,292
			Pacific Islander	35	35	30	26	27	27
		International	668	661	887	836	1,155	1,094	
		Underrepresented Minority	African American	577	541	538	536	542	518
			Chicano/Latino	1,737	1,692	1,715	1,698	1,802	1,809
			Native American/Alaskan Native	69	68	83	88	93	97
		White/Other	Decline to State	835	801	808	796	802	761
	Other		219	215	160	147			
	Male	Asian/Pacific Islander	Asian	4,812	4,715	4,686	4,583	4,699	4,602
			Pacific Islander	30	29	31	29	35	33
		International	733	719	957	929	1,268	1,196	
		Underrepresented Minority	African American	346	329	336	318	350	331
			Chicano/Latino	1,310	1,270	1,295	1,269	1,328	1,289
			Native American/Alaskan Native	60	58	63	64	76	77
White/Other		Decline to State	725	679	725	689	695	645	
	Other	159	154	115	105				
		White	3,846	3,759	3,818	3,664	3,774	3,664	
U Total				25,530	25,051	25,540	24,969	25,885	25,277

The filters used to display these values are:
Semester Year Name Concat is equal to 2012 Spring, 2011 Fall, 2011 Spring, 2010 Fall, 2010 Spring, 2009 Fall and Ungrad Grad Cd is equal to U

[Export](#)

By default, this report will show campus total undergraduate student census headcounts by gender, four-value ethnicity, and nine-value ethnicity, for the most recent six fall and spring semesters. Cal Answers dashboard reports have several interactive features, however, that let you customize the data.

Filters

At the top of each dashboard page, just below the title, you'll see one or more filters that you can apply to the data. In this case, you can choose:

- Multiple years and terms, going back to Fall 1983;
- Either undergraduate or graduate students;
- Specific colleges/schools, divisions, departments, or major programs.

After making selections, remember to click the "Apply" button to apply your new filter values. The "Reset" button will reset the filters to their default values. Note that text immediately below the table indicates what filter values the report is currently applying to the data that you see.

Field Selections

The dropdowns labeled “Select Field 1,” “Select Field 2,” and “Select Field 3” let you choose which categories you’d like to see data grouped by. To change any of them, simply select a new value, and the table will automatically update. See the [“Understanding the Data”](#) section above for descriptions of available fields.

Data Views

The “Select Data View” dropdown lets you choose how you want to see the data. In this case, you have two options:

- Headcount Table – This shows a table of values compiled as headcounts (as described above, double and triple majors count as 1 in each of the campus units involved).
- Prorated Table – This shows a table of values compiled as prorated counts (as described above, double and triple majors count as 0.5 or 0.333 in each of the campus units involved).

Sorting and Drag/Drop

The small up and down arrowheads that appear in some cells allow you to sort table rows or columns by the values in those cells. When you move your mouse just above a column, you’ll see a drag/drop bar  that you can then use to change the order of columns. For instance, you could move the “Gender Desc” column to the left of the “Student Level” column.

Drill into Ethnicity Hierarchy

If your table is displaying either the four-value or nine-value ethnicity fields, the values in that table column will be links that allow you to drill down into the ethnicity hierarchy. Clicking the column header value will display detailed data for all rows in the table. Clicking a specific row value will display detailed data only for that row. As you drill into this hierarchy, you’ll see “Return” and “Back” links appear just below the data table. Clicking “Back” moves you one step back up the drilldown hierarchy. Clicking “Return” takes you all the way back to the top.

Export Link

Finally, just below the table is an “Export” link that lets you download data in a variety of formats.

Using the Report

Registered Student Census Equity Comparison
By Term, Level, Unit, Gender, and Ethnicity

Year & Term: 2011 Fall; 2011 Sp
College/School:
Department:

Undergrad/Grad: U
Division:
Major:

[Apply](#) [Reset](#)

Sorting & Drag/Drop

Campus Total for Comparison

Select Data View: Headcount Table **Data Views** **Select Data View:** Headcount Table

		Student Census Headcounts						Student Census Headcounts									
		2009 Spring	2009 Fall	2010 Spring	2010 Fall	2011 Spring	2011 Fall			2009 Spring	2009 Fall	2010 Spring	2010 Fall	2011 Spring	2011 Fall		
Student Level	Gender	Ethnicity								Ethnicity							
		U	Female	Asian/Pacific Islander	5,491	5,467	5,492	5,401	5,374	5,304	U	Female	Asian/Pacific Islander	5,491	5,467	5,492	5,401
		International	467	668	661	887	836	1,155			International	467	668	661	887	836	1,155
		Underrepresented Minority	2,280	2,383	2,301	2,336	2,322	2,437			Underrepresented Minority	2,280	2,383	2,301	2,336	2,322	2,437
		White/Other	4,816	4,991	4,885	4,890	4,787	4,764			White/Other	4,816	4,991	4,885	4,890	4,787	4,764
		Female Total	13,054	13,509	13,339	13,514	13,319	13,660			Female Total	13,054	13,509	13,339	13,514	13,319	13,660
		Male	4,773	4,842	4,744	4,717	4,612	4,734			Male	4,773	4,842	4,744	4,717	4,612	4,734
		Asian/Pacific Islander									Asian/Pacific Islander						
		International									International	529	733	719	957	929	1,268
		Underrepresented Minority									Underrepresented Minority	1,585	1,716	1,657	1,694	1,651	1,754
		White/Other									White/Other	4,507	4,730	4,592	4,658	4,458	4,469
		Male Total	11,394	12,021	11,712	12,026	11,650	12,225			Male Total	11,394	12,021	11,712	12,026	11,650	12,225
		Grand Total	24,448	25,530	25,051	25,540	24,969	25,885			Grand Total	24,448	25,530	25,051	25,540	24,969	25,885

The filters used to display these values are:

Semester Year Name Concat is equal to 2011 Fall, 2011 Spring, 2010 Fall, 2010 Spring, 2009 Fall, 2009 Spring
and Ungrad Grad Cd is equal to U

[Export](#)

Export Links

By default, this report will show undergraduate student census headcounts by gender and ethnicity for the entire campus (in both tables), for the most recent six fall and spring semesters. Cal Answers dashboard reports have several interactive features, however, that let you customize the data that you see.

Filters

At the top of each dashboard page, just below the title, you'll see one or more filters that you can apply to the data. In this case, you can choose:

- Multiple years and terms, going back to Fall 1983;
- Either undergraduate or graduate students;
- Specific colleges/schools, divisions, departments, or major programs.

After making selections, remember to click the “Apply” button to apply your new filter values. The “Reset” button will reset the filters to their default values. Note that text immediately below the left-hand table indicates what filter values the report is currently applying to the data in that table (the right-hand table always shows the campus totals for comparison purposes).

Data Views

The “Select Data View” dropdowns let you choose how you want to see the data in each table. In this case, you have four options for each table:

- Headcount Table – This shows a table of values compiled as headcounts (as described above, double and triple majors count as 1 in each of the campus units involved).
- Headcount % Table – This shows the headcounts as percentages, rather than values.
- Prorated Table – This shows a table of values compiled as prorated counts (as described above, double and triple majors count as 0.5 or 0.333 in each of the campus units involved).
- Prorated % Table – This shows the prorated counts as percentages, rather than values.

Sorting and Drag/Drop

The small up and down arrowheads that appear in some cells allow you to sort table rows or columns by the values in those cells. When you move your mouse just above a column, you'll see a drag/drop bar  that you can then use to change the order of columns. For instance, you could move the "Gender" column to the left of the "Student Level" column.

Drill into Ethnicity Hierarchy

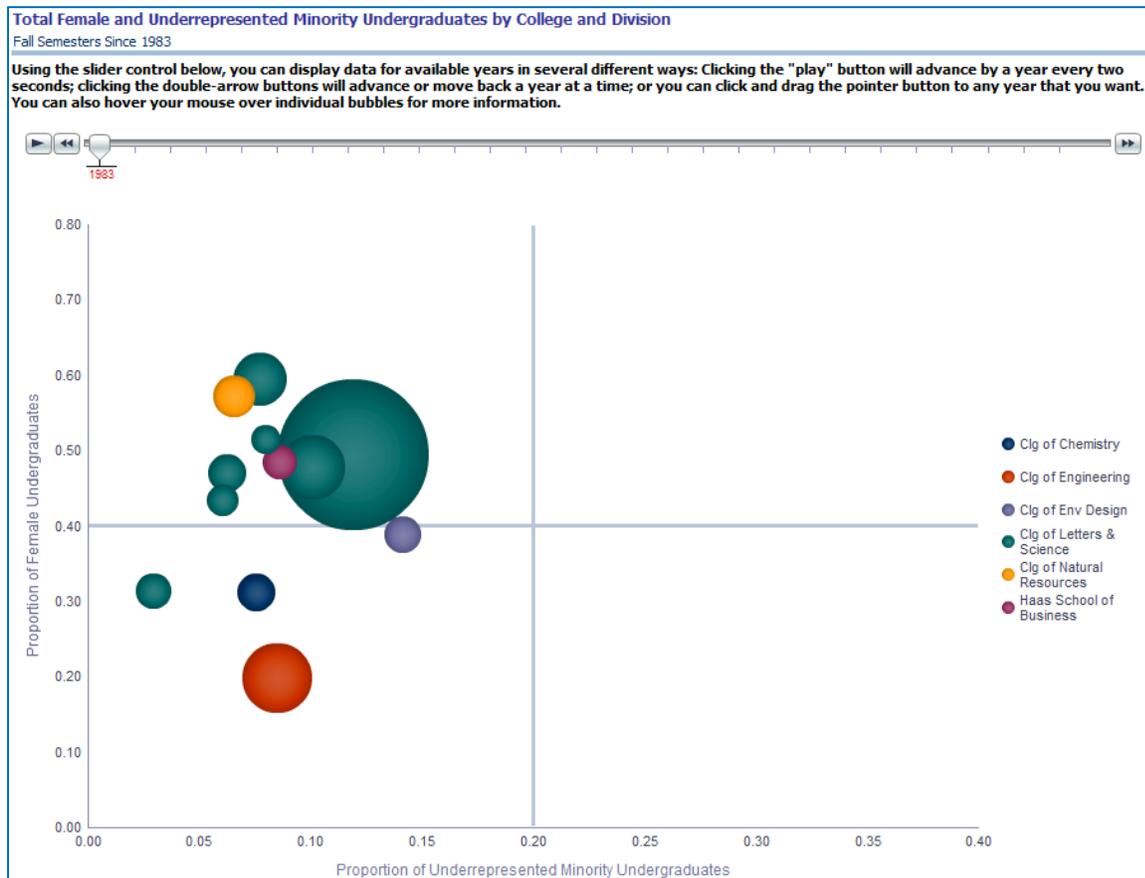
The values in the "Ethnicity" table column are links that allow you to drill down into the ethnicity hierarchy. Clicking the column header value will display detailed data for all rows in the table. Clicking a specific row value will display detailed data only for that row. You can then continue drilling down to detailed ethnic categories. As you drill into this hierarchy, you'll see "Return" and "Back" links appear just below the data table. Clicking "Back" moves you one step back up the drilldown hierarchy. Clicking "Return" takes you all the way back to the top.

Export Links

Finally, just below each table is an "Export" link that lets you download data in a variety of formats.

Census Graphs Dashboard Page

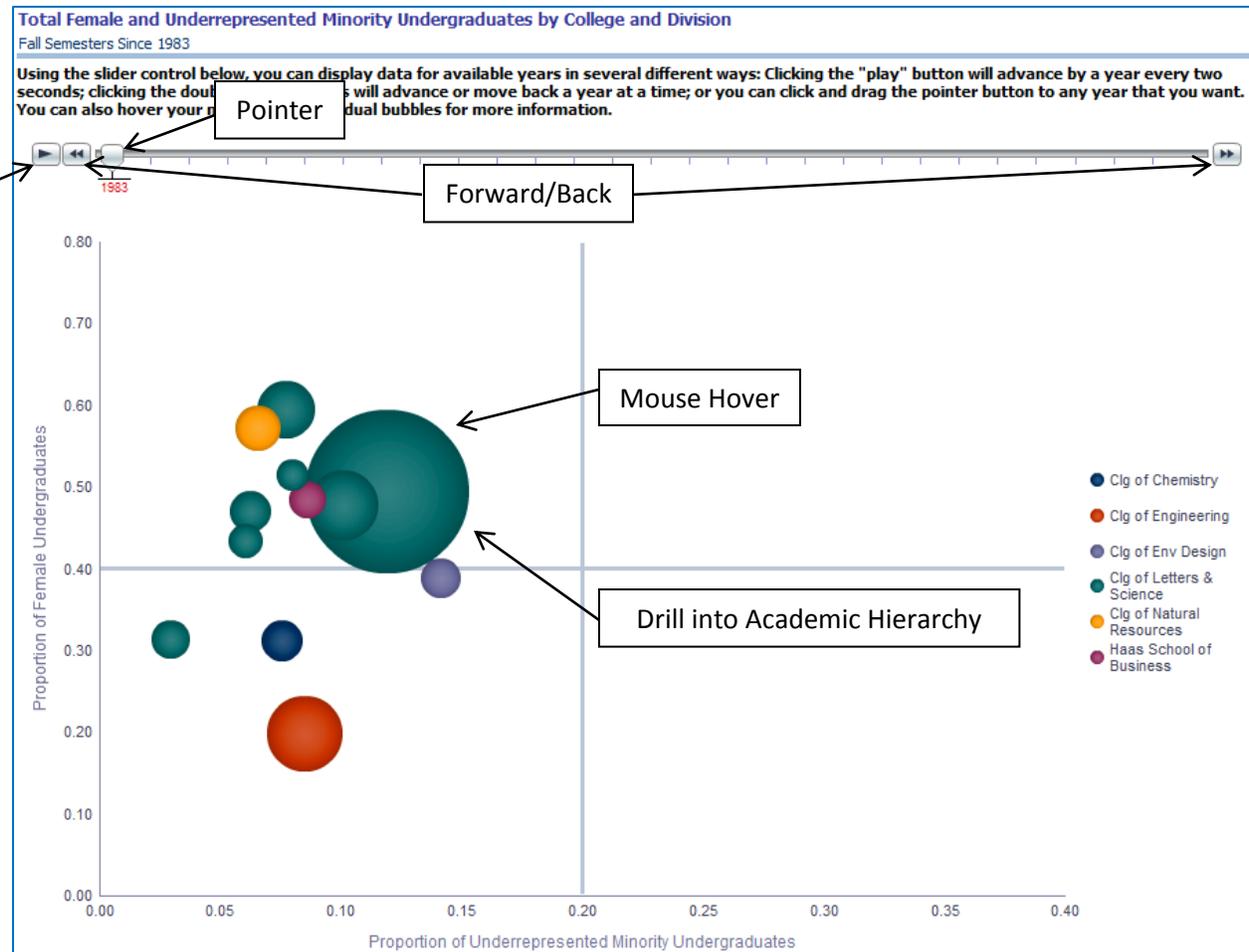
The "Census Graphs" dashboard tab provides access to a set of graphs that demonstrate different ways to visualize student census data:



Understanding the Data

The first graph in this section, “Total Female and Underrepresented Minority Undergraduates by College and Division,” shows changes in college/division total enrollment, proportion of female majors, and proportion of underrepresented majors for each Fall semester since 1983.

Using the Report



In addition to standard graph functionality, this report utilizes a slider control, which you can interact with in several ways.

Slider Buttons

The slider control has several buttons that you can use to view data for different fall semesters:

- Play Button – Clicking the “Play” button will automatically advance the slider to a new Fall semester every two seconds until it reaches the end.
- Forward/Back Buttons – Clicking the double-arrow “Forward/Back” buttons will move the slider forward or backward one Fall semester at a time.
- Pointer Button – You can click and drag the “Pointer” button to any Fall semester value.

Mouse Hover

Hovering your mouse over any bubble will display the series (college), group (division), and current X (proportion of underrepresented minority undergrads), Y (proportion of female undergrads), and Z values for that bubble.

Drill into Academic Hierarchy

Finally, clicking on any bubble will allow you to drill down into the campus academic hierarchy. For instance, clicking the “Clg of Engineering” bubble will display a new graph showing bubbles for each of the departments within that college, for the Fall semester that you were currently viewing. You can then continue drilling down to individual major programs. As you drill into this hierarchy, you’ll see “Return” and “Back” links appear just below the graph. Clicking “Back” moves you one step back up the drilldown hierarchy. Clicking “Return” takes you all the way back to the top.