



# **Decision Support Toolkit Users Guide**

## **Program Performance Module**

University of Colorado Denver  
Office of Institutional Research & Effectiveness and  
The Budget Office

# About the Decision Support Toolkit

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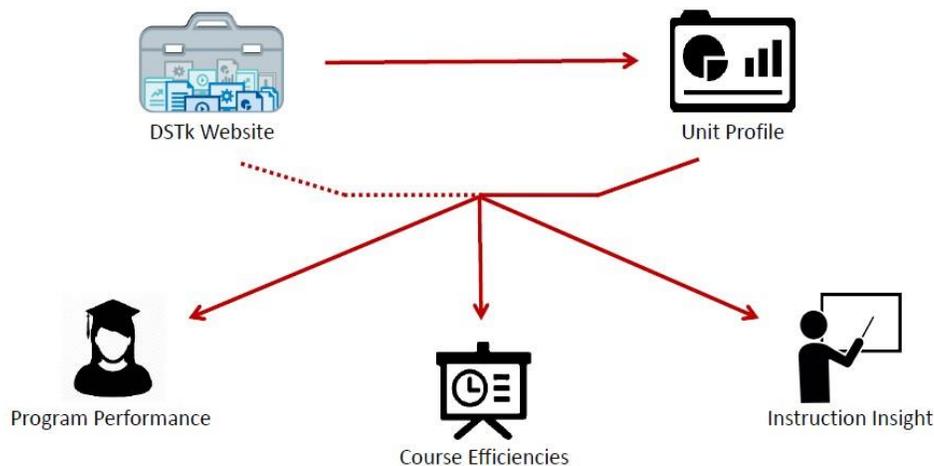
The DSTk is a series of Tableau dashboards that bring together data visualizations that show important metrics and analysis to support academic and fiscal planning decision-making.

The Program Performance module provides comparisons and trends across your programs, with data on student headcount, student credit hours, demographics, and more. These metrics allow users to measure efforts and drive progress toward strategic priorities such as cost efficiency, student outcomes, equity and enrollment.

## Connecting to Program Performance

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Navigate to the [DSTk Site](#) to access any of the 4 modules that make up the Toolkit. You may also go directly to the [Program Performance module](#) in Tableau Server. Remember, you must be logged on to the campus network or VPN to access Tableau.



# Navigating the Program Performance Module

- Start with the Level-Set page to begin exploring school/college level data – set your filters and parameters, which will apply to every metric on this page.

The **Program Performance** module is designed to help provide insight into your programs. Identify programs that are thriving and others that may need some attention.

First, select your School or College:

Select Term Year  
2020

Select Term Season  
Fall  
EOT Fall 2020 Snapshot

Student Type  
Main Campus, State Rep...

Select Student Career  
All

The criteria selected above will carry through for the entire dashboard

## School/College Comparison

- Compare growth in student headcounts across schools/colleges
- Remember to hover over graphs, reference lines, and information icons to see details

## Student Headcounts

Enrolled Main Campus, State Reportable (D1) students with **College of Liberal Arts and Sciences** majors. (Student Career: All)

Hover for Definitions



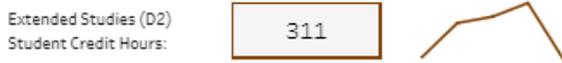
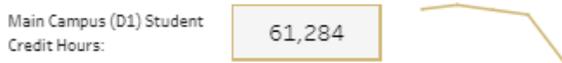
	Student Headcount	Change From Prior Spring	3-Year Change	Trends in Spring Headcount
College of Liberal Arts and Sciences	5,359	-9.2%	-12.1%	
Business School	2,685	16.9%	9.5%	
College of Architecture and Planning	741	1.0%	10.1%	
College of Arts and Media	1,275	-0.5%	9.8%	
College of Engineering, Design and Computing	1,623	10.3%	31.6%	
School of Education and Human Development	1,315	3.7%	21.9%	
School of Public Affairs	729	-2.7%	7.2%	

- Examine how your main campus and extended studies credit hours contribute to campuswide revenue contributions and how these figures are trending

### Credit Hours and Tuition Revenue Contributions

Main Campus, State Reportable (D1) Credit hours by **College of Liberal Arts and Sciences** Students  
 (Student Career: All) **For illustrative purposes only. Numbers do not reflect those used in the Budget Model**

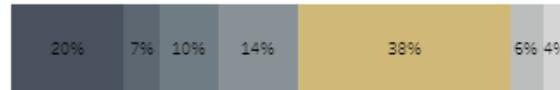
Spring 2020 Student Credit Hours by Main Campus, State Reportable (D1) Students:



Main Campus Estimated Tuition Revenue Generated by Main Campus, State Reportable (D1) Students:



Campuswide Spring 2020 Estimated Revenue Contribution by **College of Liberal Arts and Sciences**:



- The Program Flows section gives school/colleges insight on whether their students from the prior year are still enrolled in their college, at CU Denver or have graduated or left the institution.
- This high-level overview provides a snapshot of student demographics for the selected term. Use the parameter at the right to select demographic detail.

### Who are your students?

#### Program Flows

Where are your enrolled students going?

Program Flows shows changes in enrollment status from one semester to another.

Continuing in School/College	56%
Graduated	18%
Changed School/College	6%
Not Enrolled	19%

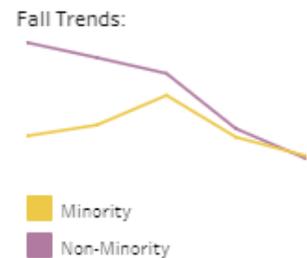
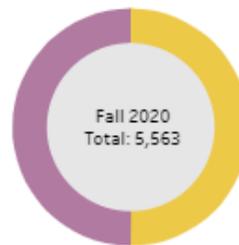
Here you will find Fall 2019 **College of Liberal Arts and Sciences** undergraduate students and their Fall 2020 enrollment status

[Much more on Program Flows on the Detail page](#)

#### Student Demographics

All Students - [Choose detail](#) ⇌

Minority Status ▾



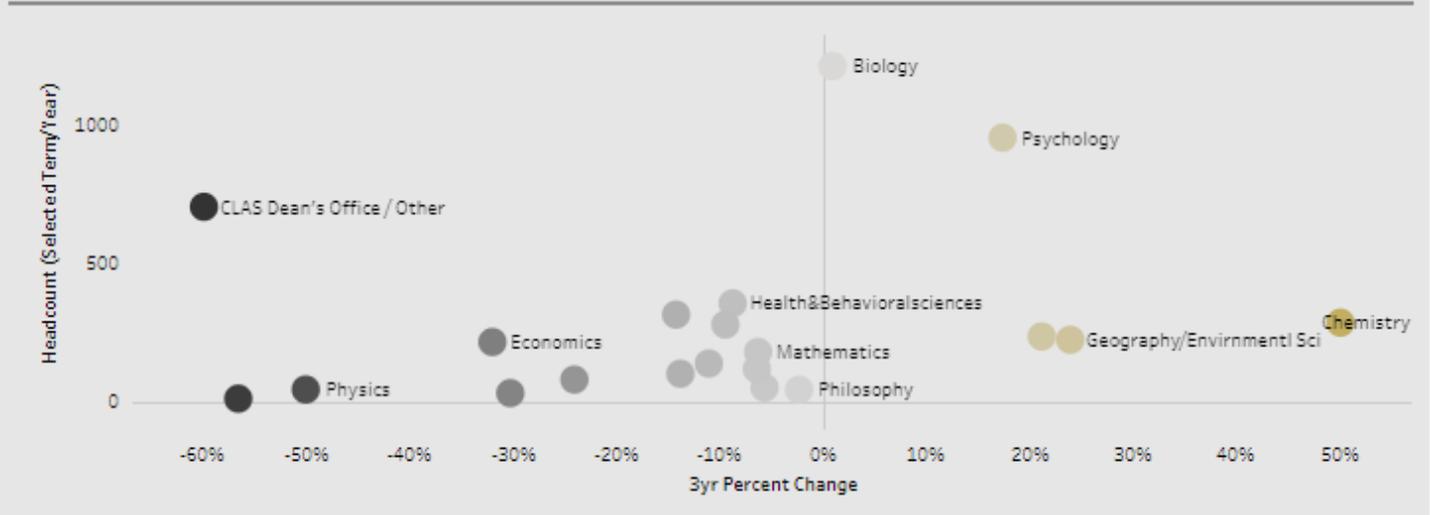
The **Breakdown** section allows users to compare program level data across their college

- The scatterplot displays two related metrics to easily identify outliers

### Student Headcount by Department

**Considerations:** The scatterplot within this section compares overall headcount to recent growth. A large department with diminishing growth may require some attention, while quickly growing small departments may be an area of opportunity to focus resources on.

Lower Growth | Higher Growth



- The table below allows users to dynamically sort by metric to compare programs and evaluate trends

### Programs Offered (Student Career: All)

Take a look at the programs offered during the Fall 2020 semester.

Sort by headcount and growth to identify thriving or struggling programs.

Sort By: 3yr HC Change ▾ Descending ▾

Programs (Count = 58)	Department	Fall 2020 Headcount	3-Year Change	Trends in Fall Headcount
ISMA-BA -- Individually Structured Major	CLAS Dean's Office / Other	60	757.1%	
STAT-MS -- Statistics	Mathematics	17	142.9%	
GEOS-MA -- Applied Geog & Geospatial Sci	Geography / Environmental Sci	34	88.9%	
PSCI-MA -- Political Science	Political Science	39	56.0%	

- Now, users can move on to the detail page, which contains similar metrics and analyses at a more granular level of detail.

-Now that you've gathered information, dig into details by visiting the Detail page

[Jump to Detail Page](#)

# Program Performance – Detail Page

- Parameters selected at the top of the page will apply to all data on the detail page. Use this area to select specific departments, terms, and/or student types to explore metrics for specific department and/or program(s). Note: 'Year' selected serves as an endpoint for trends

Select Term Year  
2020

Select Term Season  
Fall

Student Type: Main Campus, State Reportable (D1) | School or College: College of Liberal Arts and Sciences | Department: (All) | Student Level: All | Primary Major: (All)

- Some sections have additional parameters that apply only to that section. Be sure to check each header for additional ways to splice, filter, or sort the data.

Stats by Student Type Below you will find stats from enrolled students with a College of Liberal Arts and Sciences major. Use the information you collect here to dig even deeper. Choose a Student Grouping: Registration Type

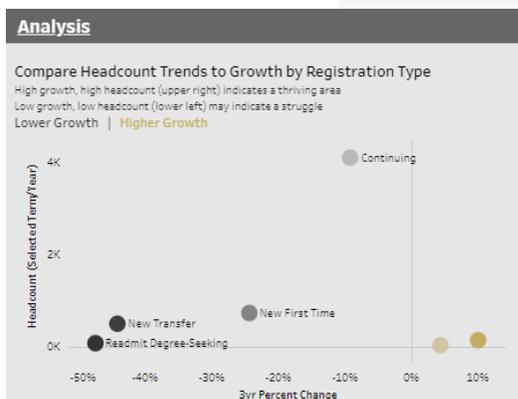
- The table to the right will display student headcount and credit hour data for the selected student group(s)

**Headcount** Overall headcount and credit hours with 3-year % change  
Main Campus, State Reportable (D1) students within parameters selected above

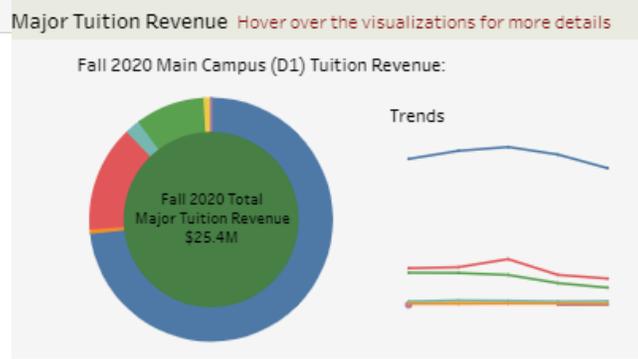
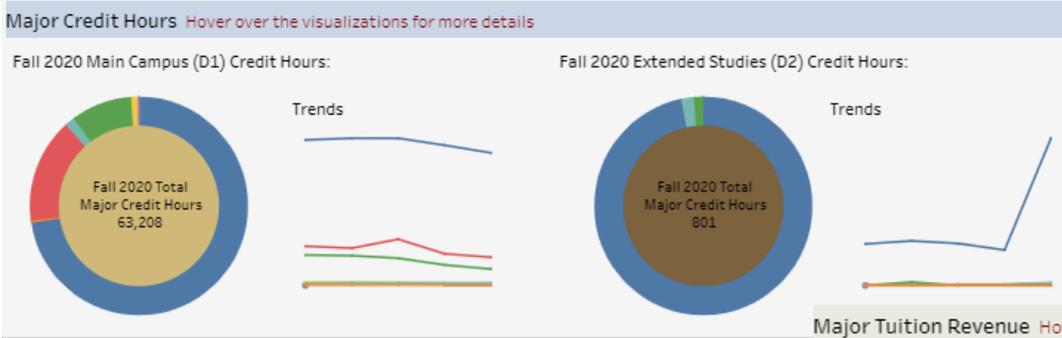
Pick a secondary grouping: Residency Hover for Definitions

Registration Type		Student Headcount	3-yr % change	Main Campus Major Credit Hours	3-yr % change	Trend in Fall Headcount
Continuing	Resident	3,614	-8.9%	40,343	-8.1%	
	Domestic Non-Resident	280	6.5%	3,102	1.1%	
	International Non-Resident	223	-26.9%	2,512	-38.2%	
New First Time	Resident	681	-18.8%	9,159	-18.8%	
	Domestic Non-Resident	38	-60.4%	512	-60.8%	

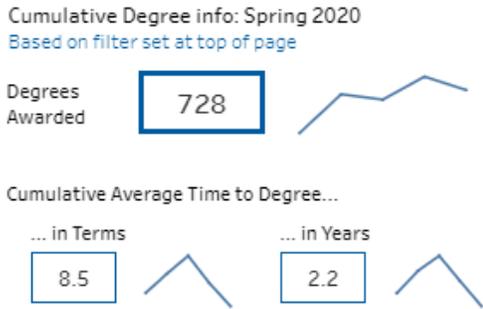
- The scatterplot below shows headcount and growth for the selected student group(s)



- Below, users can see student credit hours and revenue generated by majors, split by selected student group(s).



**Degrees** Gain Insight on your degrees awarded and time to degree as well. (This section displays TOTAL degrees awarded for all D1+ D2 programs) Sort Table Below By: Degrees Awarded Descending



- The Degrees section shows the number of degrees awarded and the average time for students to earn the degree.
- Note: Degrees data is updated less frequently than enrollment and other data sources. Spring terms have the most graduates and will therefore provide better sample sizes from which to gain insight
- The table below shows program level detail and trends, which can show various metrics selected and sorted by the section parameters above.

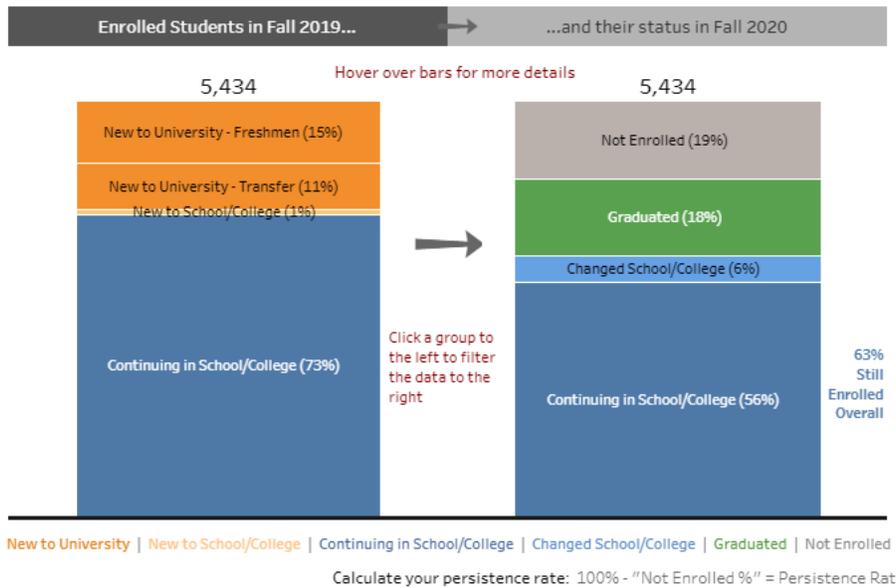
Primary Major	Degrees Awarded		Avg. Time to Degree (Terms)		Avg. Time to Degree (Years)		Trend in Spring Degrees Awarded
ECON-BA -- Economics	119	9.2%	8.3	-0.9%	2.2	-1.7%	
BIOL-BS -- Biology	113	-14.4%	10.5	-1.4%	2.9	-1.6%	
PSYC-BA -- Psychology	84	10.5%	7.1	-17.8%	1.8	-23.8%	
COMM-BA -- Communication	78	-17.0%	7.6	-9.3%	1.9	-11.1%	
PSYC-BS -- Psychology	49	145.0%	8.8	7.8%	2.3	7.7%	

- Program flows provides a wealth of information related to which students are continuing within your college, changing majors to another school/college within CU Denver, graduating or leaving the university.
- This section is not affected by the top of page filters, other than the selected school/college. Select a start and end term to explore how your students move over time.

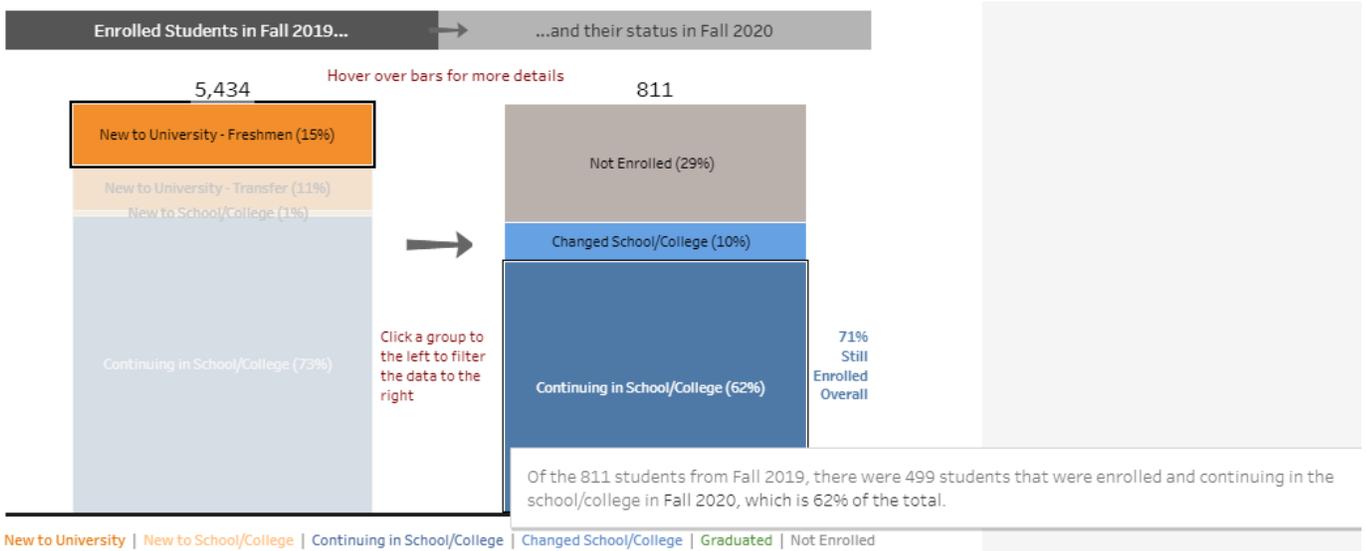
Student Level

Start Term

End Term



- Click a student group on the left to filter and show where these students are enrolled in the selected 'end term'



## Demographics Headcount by demographic type

From Main Campus, State Reportable (D1) students within parameters selected above

Select Demographics Detail:  Add Secondary:

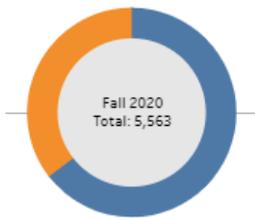
Gender		Fall 2020 Headcount	3-year Change	Trend in Fall Headcount
Female	Minority	1,905	-0.4%	
	Non-Minority	1,694	-17.2%	
Male	Minority	887	-21.7%	
	Non-Minority	1,077	20.8%	

- Demographics can be explored in more detail here. Select primary and secondary student groups to gain insight on headcount trends by subgroup.

- The Geography section below shows the location of undergraduate students' high school or prior college location by country, state, city or zip code.

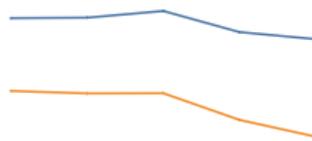
- Each of these items can be filtered by department and/program using the top of page parameters.

Fall 2020 Headcount Proportions:



Female Male

Fall Headcount Trends:



## Geography Location of your students' High School or Transfer College

From Main Campus, State Reportable (D1) Freshmen or Undergraduate Transfer students.

Undergraduate students only. Parameters above apply, except for student level.

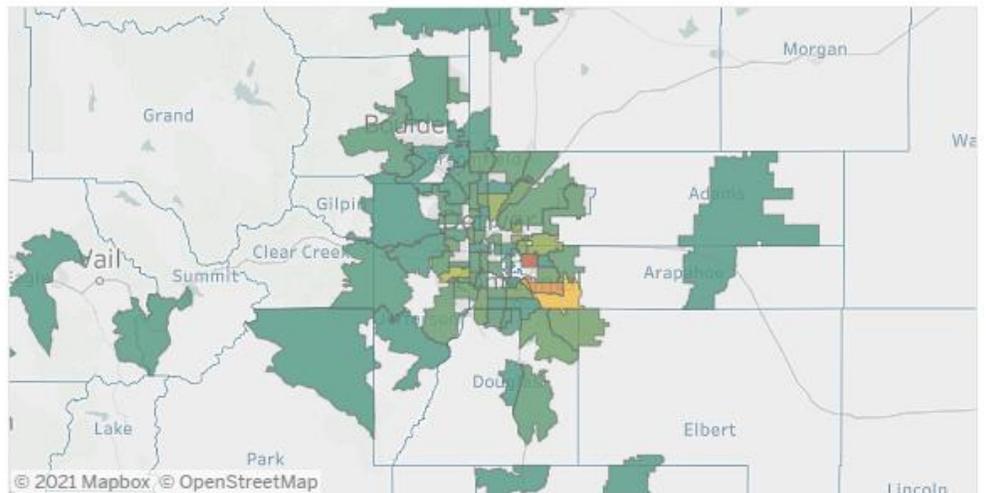
Choose Fall 2020 Student Group and Location Type:

% USA **97.1%**

% Colorado **82.8%**

% Denver **15.4%**

View headcount by geography using the map below. Choose geography level:



Low Density | Medium Density | High Density