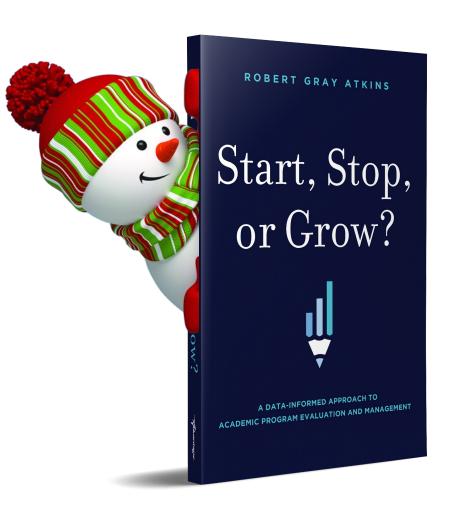




## **Demand for Higher Education Programs**

Results through November 2022



Gray has developed a complete Program Evaluation System.



We do a few other things, too.

**Pricing:** Competitive research, discrete choice surveys, and pricing simulators

Location Analysis: Al models to find the best place to add a campus or market your programs

Financial Planning Models: Simulate events and decisions; provide Pro-forma 10-year financials

### **Choose a Program**

- At the end of the presentation, we'll fire up PES and take requests for programs.
- If you have a program in mind, please let us know in the chat.
- However, we may not be able to get to all the requests in this meeting.
- If we don't get to your program, we will email its scorecard to you this week.

## Agenda

### **Student Demand**

- Leading Indicators: Google and International Search
- Current Demand: Enrollment
- Historical Trends: Completions

**Employment: Current Indicators** 

Non-Degree Courses

**College Athletics** 

**Program of the Month** 

Summary

## **Christmas ghosts of Student Demand**

Analyze demand metrics across the student lifecycle.

**Completions** *Past* 



**Enrollment** *Present* 



**Google Searches** *Future* 

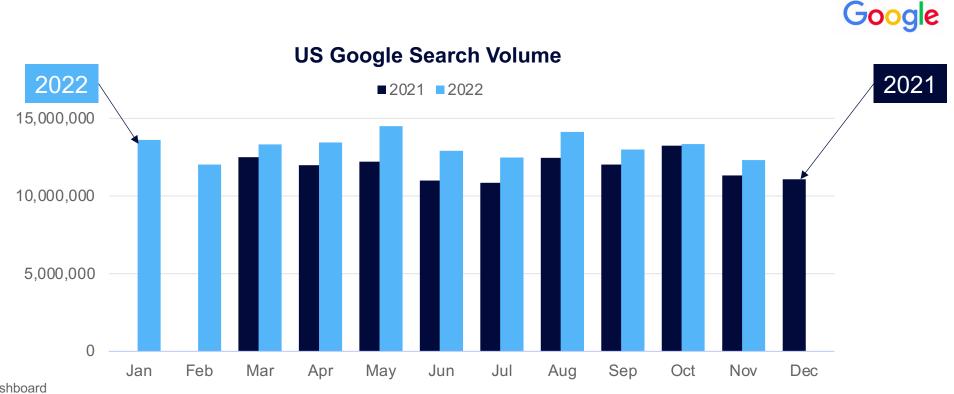






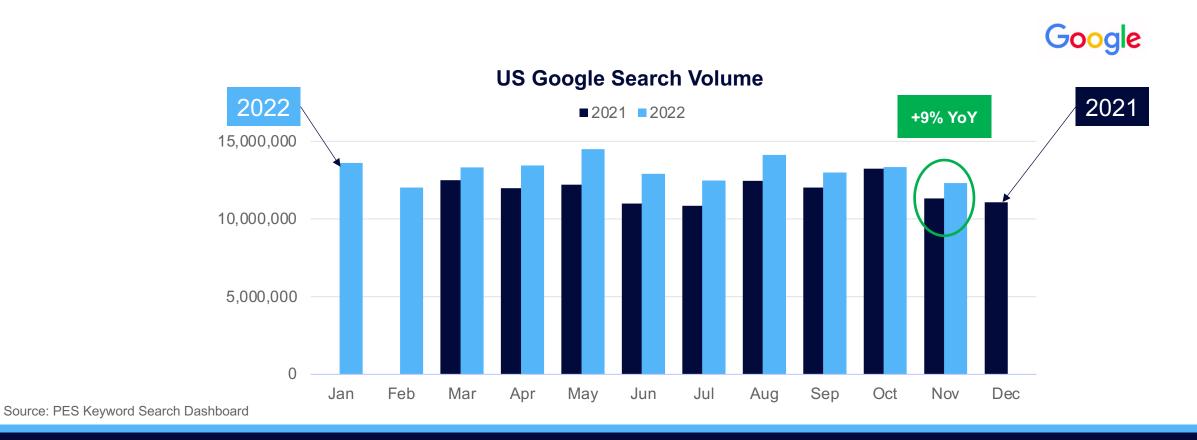
## **Google Search Trends: Programs**

Gray tracks searches for over 900 programs (90% of all US completions).



## **Google Search Trends: Programs**

In November, Google searches for academic programs rose 9% year-over-year.



## Google: US Highest Search Volume, Bachelor's and Above

In November, Registered Nursing had the highest search volume.



## Programs with the Highest Volume of Keyword Searches November 2022



Google search volume for standardized sets of academic keywords for academic programs.. Source: PES Keyword Search Dashboard

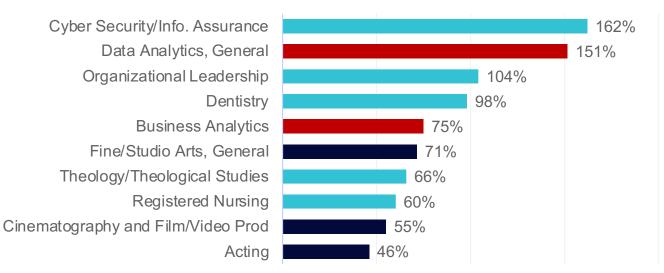
## **Google: US Fastest-Growing Programs**

In November, searches for Cyber Security programs increased 162%.



# Fastest-Growing Programs YoY Growth\*

November 2022



**Big Data** 

Arts

Other

\*Minimum 10,000 searches 2021

## Google: Cost-per-Click

In November, Accounting and Finance had the most expensive Google cost-per-click.

## Highest Marketing Costs November 2022

Google



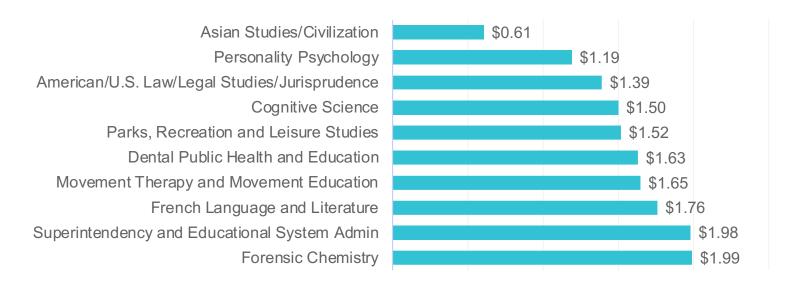
## Google: Cost-per-Click

Asian Studies had the least expensive Google cost-per-click.

### **Lowest Marketing Costs**

November 2022





### **International Student Demand**

In November, international student interest in US programs decreased 7% year-over-year.



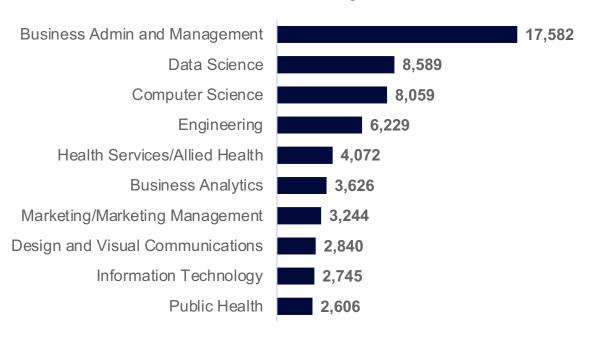
Source: PES International Student Demand Dashboard

### **International Student Demand**

# In November, the most-viewed programs were Business and Data Science.

#### **Top 10 Programs**

**International Page Views** 



### Marketing grew the fastest year-over-year.

#### **Fastest-Growing Programs**

International Page Views

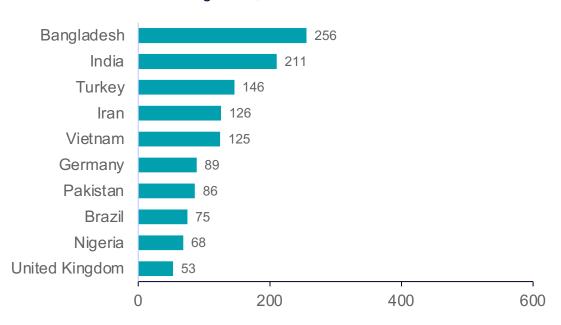


Source: PES International Student Demand Dashboard

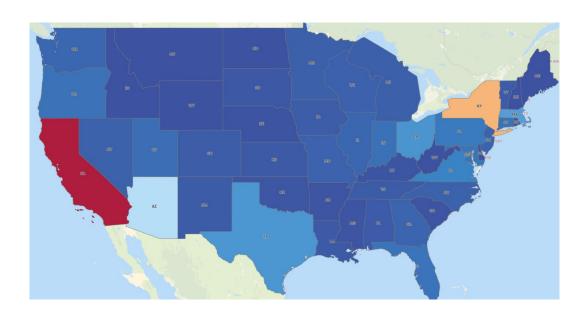
## International Page Views: Linguistics (sixth fastest-growing)

Bangladesh led in page views.

## International Page Views by Originating Country Linguistics, November 2022



# California was the most popular destination for this program.



Source: PES International Student Demand Dashboard

## Agenda

### **Student Demand**

- Leading Indicators: Google and International Search
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- Historical Trends: Completions

**Employment: Current Indicators** 

**Non-Degree Courses** 

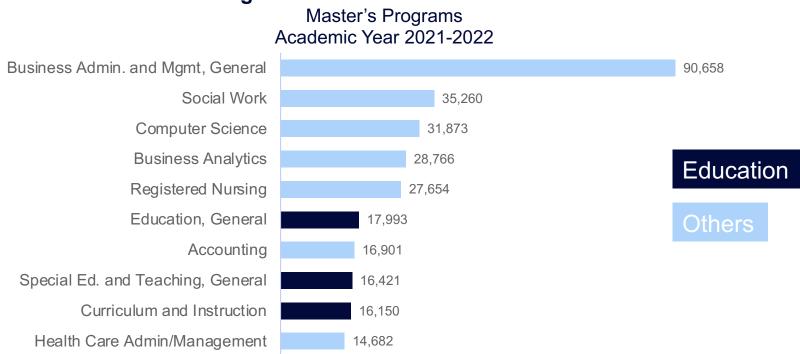
**College Athletics** 

**Program of the Month** 

**Summary** 

In academic year 2021-2022, Business had the highest new student enrollment of all master's programs.

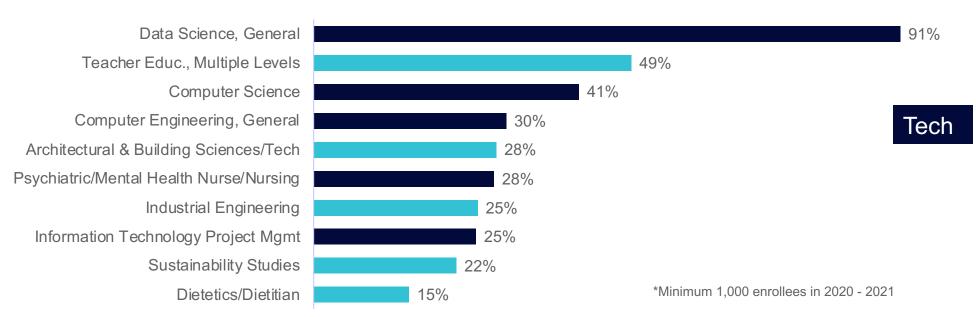




## Data Science new student enrollment grew 91% year-over-year.

#### **Fastest-Growing New Student Enrollment\***

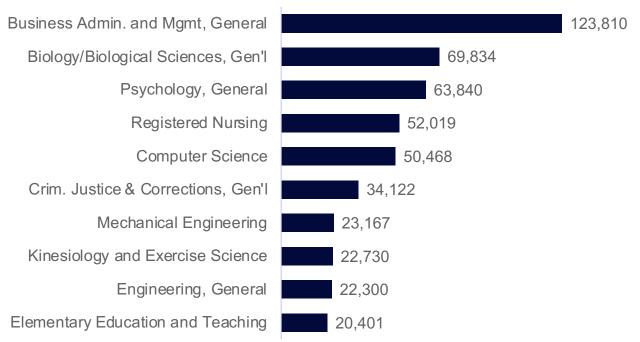
Master's Programs Academic Year 2021-2022



## In academic year 2021 - 2022, Business had the highest new student enrollment.

#### **Highest New Student Enrollment**

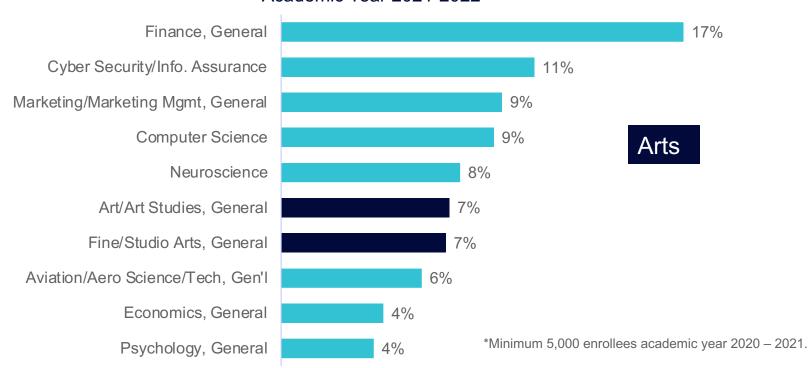
Bachelor's Programs Academic Year 2021-2022



## Among bachelor's programs, Finance grew the fastest.

#### **Fastest-Growing New Student Enrollment\***

Bachelor's Programs Academic Year 2021-2022



## Agenda

### **Student Demand**

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**Employment: Current Indicators** 

**Non-Degree Courses** 

**College Athletics** 

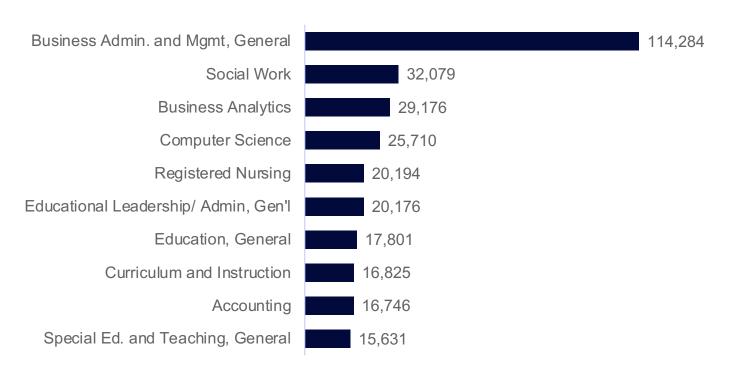
**Program of the Month** 

Summary

## Master's: in 2021, Business had the highest completion volume.

#### **Highest 2021 Completions**

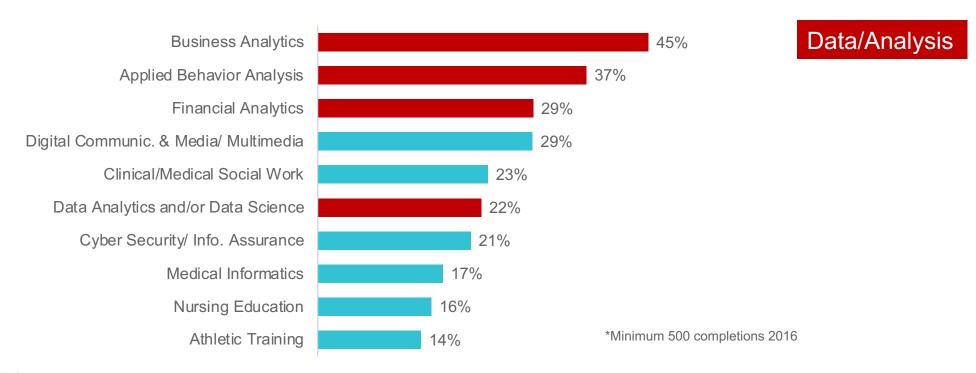
Master's Programs



## Master's: From 2016 – 2021, Business Analytics grew 45% annually.

#### **Fastest-Growing Program Completions**

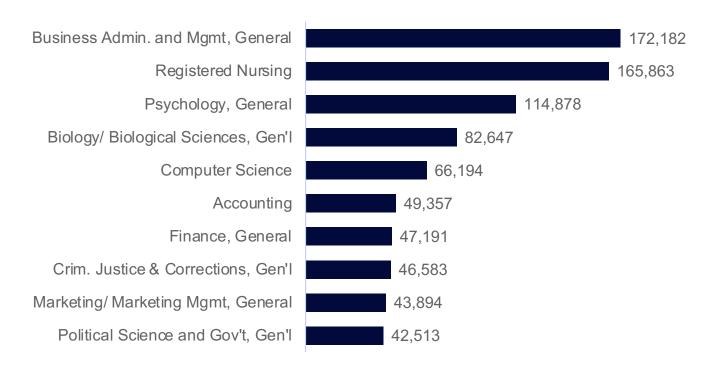
Master's Programs



## Bachelor's: in 2021, Business had the highest completion volume.

#### **Highest 2021 Completions**

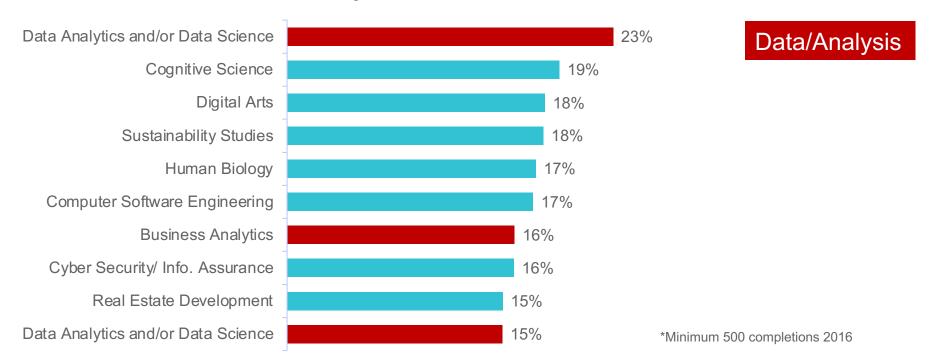
Bachelor's Programs



# Bachelor's: From 2016 – 2021, Data Science/Analytics grew an average of 23% annually.

#### **Fastest-Growing Program Completions**

Bachelor's Programs



## Agenda

### **Student Demand**

- Leading Indicators: Google and International Search
- Current Demand: Enrollment
- Historical Trends: Completions

**Employment: Current Indicators** 

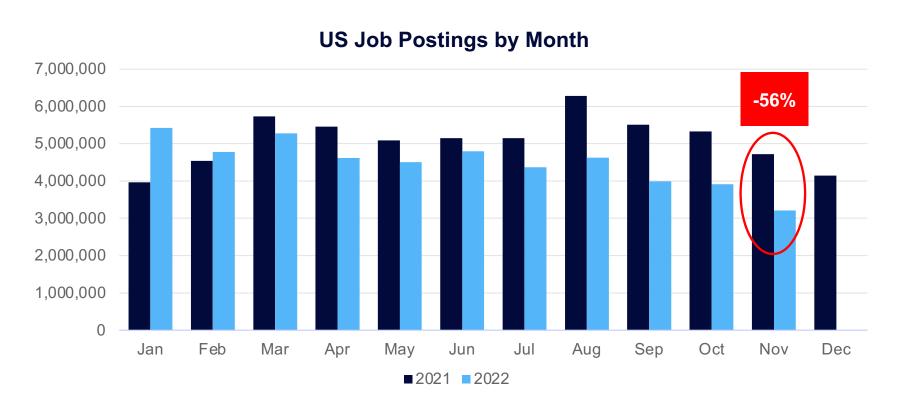
**Non-Degree Courses** 

**College Athletics** 

**Program of the Month** 

**Summary** 

### In November 2022, job postings volume dropped 56% year-over-year.



Source: PES Job Postings Dashboard

In November, Registered Nurses had the highest volume of job postings for bachelor's and above degree-holders.

Half of the occupations with the highest job postings were in management.



By Standard Occupational Code

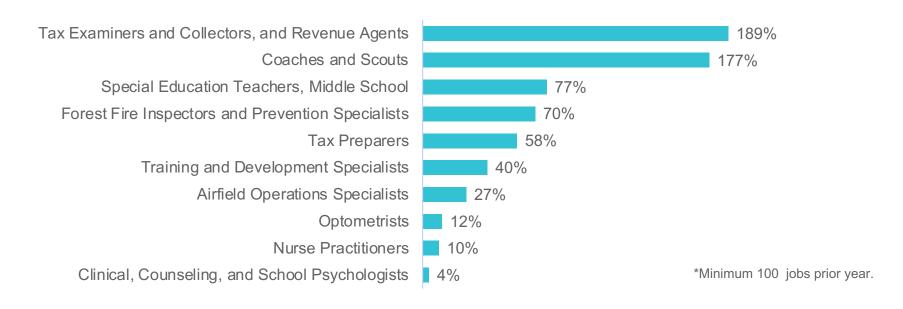


Source: PES Job Postings Dashboard

## In November, job postings for Tax Examiners increased 189% year-over-year.

## November Job Postings Year-over-Year Growth Bachelor's Degree and Above

By Standard Occupational Code



Source: PES Job Postings Dashboard

## Agenda

### **Student Demand**

- Leading Indicators: Google and International Search
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**Employment: Current Indicators** 

**Non-Degree Courses** 

**College Athletics** 

**Program of the Month** 

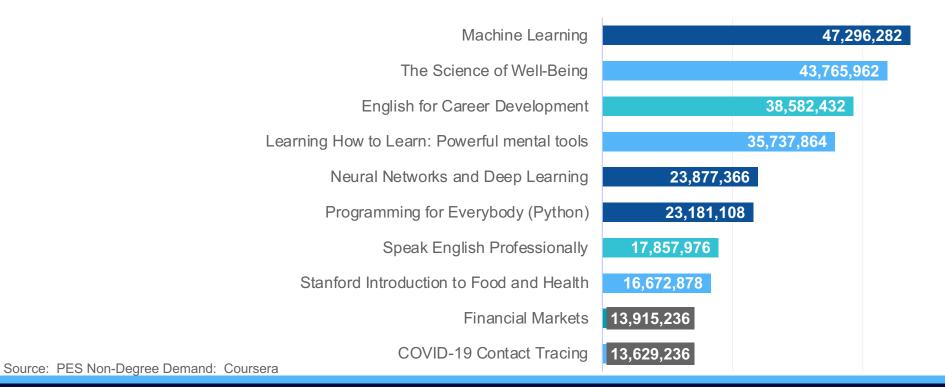
**Summary** 

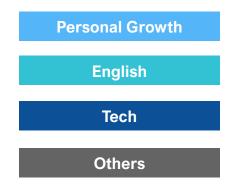
## **Coursera: Highest Cumulative Course Enrollment**

In November, Stanford Intro to Food and Health appeared for the first time in the top 10.

#### **Highest Course Enrollment Volume**

November 2022





31

## **Coursera: Fastest-Growing Courses**

In November, English for Career Development added the most students year-over-year.

### **Highest Year-Over-Year Unit Change in Enrollment**

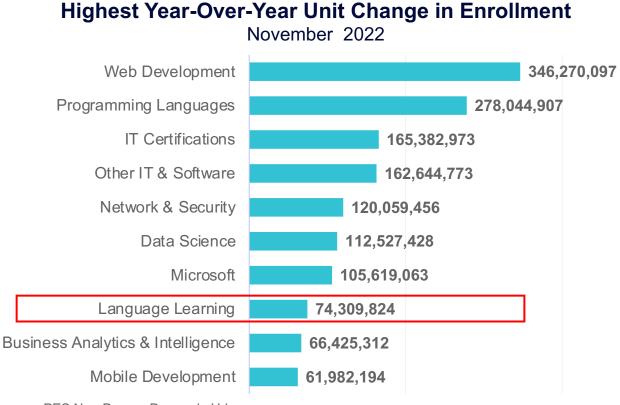
November 2022



Source: PES Non-Degree Demand: Coursera

## Udemy: Language Learning is one of the most popular categories.

Is there an untapped opportunity in higher education?





41,719 enrolled students



50,157 enrolled students

Source: PES Non-Degree Demand: Udemy

## Agenda

### **Student Demand**

- Leading Indicators: Google and International Search
- Current Demand: Enrollment
- Historical Trends: Completions

**Employment: Current Indicators** 

**Non-Degree Courses** 

**College Athletics** 

**Program of the Month** 

**Summary** 

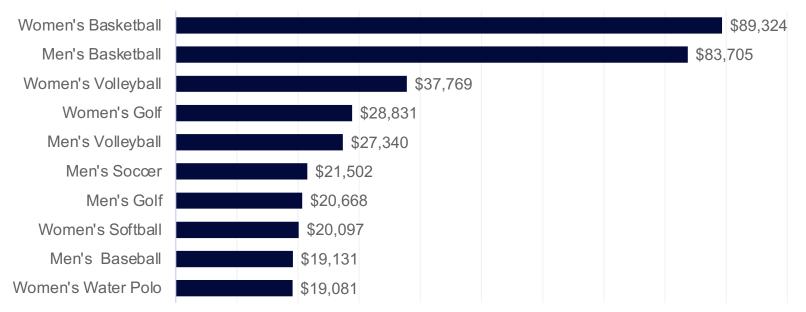
## **Athletics Benchmarking: Expenses, Large Division II Schools**

In 2021-2022, women's basketball had the highest expenses per athlete in large

**Division II institutions.** 

Highest Expenses per Participant Institutions with 25-50K Enrollment

Division II 2020-21



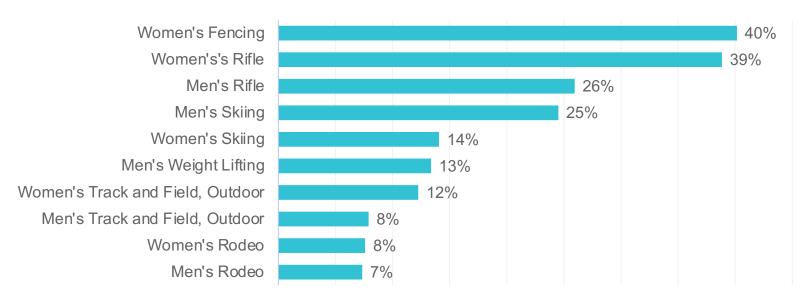
Source: Athletics Benchmarking Dashboard

## **Athletics Benchmarking: Growth in Expenses**

Women's fencing expenses grew the most.

## Highest Growth in Expenses per Participant Institutions with 25-50K Enrollment

Division II 2020-21



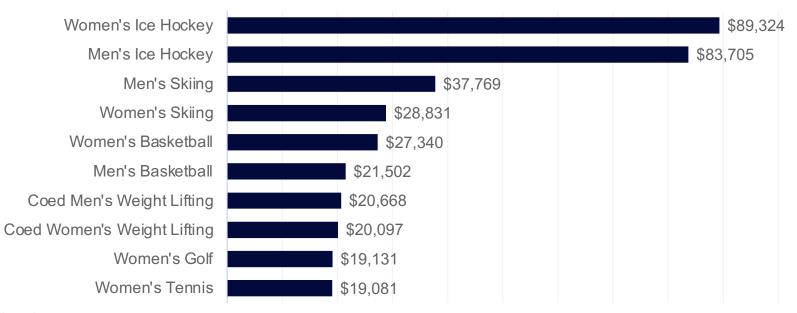
Source: Athletics Benchmarking Dashboard

## Athletics Benchmarking: Expenses, Small Division II Institutions

Women's ice hockey had the highest expenses at Division II small institutions.

**Highest Expenses per Participant Institutions with 1-5K Enrollment** 

Division II 2020-21



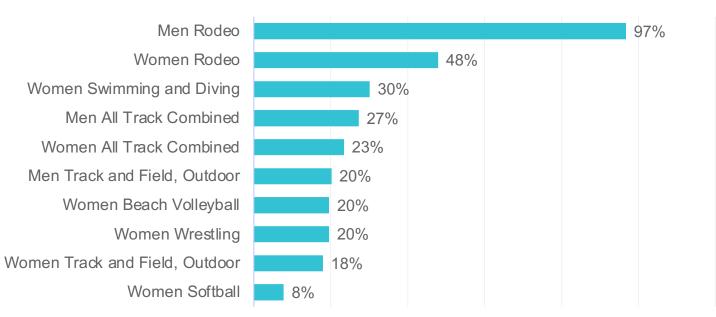
Source: Athletics Benchmarking Dashboard

## **Athletics Benchmarking**

Men's rodeo had the highest growth in expenses.

# Highest Growth in Expenses per Participant Institutions with 1-5k Enrollment

2020-21 Year-Over-Year



Source: Athletics Benchmarking Dashboard

## Agenda

## **Student Demand**

- Leading Indicators: Google and International Search
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**Employment: Current Indicators** 

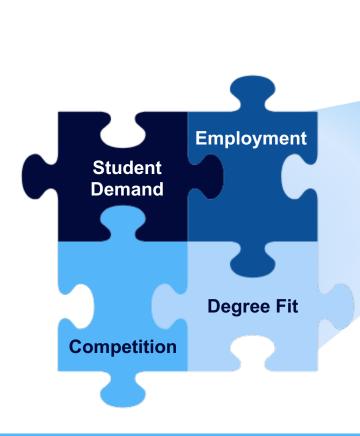
**Non-Degree Courses** 

**College Athletics** 

**Program of the Month** 

**Summary** 

What is a Program Evaluation System?





## **Program Markets: Program Rank**

## We score on Student Demand, Employment, Competitive Intensity, and Degree Fit.

Let's focus on the national market for a Master's in Education.

#### **US Program Ranking**

Master's Programs



Source: Gray's PES Markets

## **Program Scorecard: Percentiles**

All data are color-coded by their percentile rank in the local market compared to over 1,400 IPEDS programs (CIP codes).

#### **Percentile Color-Code:**

<40%	40%+	70%+	90%+	95%+	98%+
------	------	------	------	------	------

## **Program Scorecard: Student Demand**

# Education scores in the 99<sup>th</sup> percentile for Student Demand.

- New student enrollment is strong and grew 8% year-over-year.
- Online completions are in the 99<sup>th</sup> percentile.
  - Overall completions fell 6% year-over-year.
- International demand for a Master's in Education is in the 99<sup>th</sup> percentile.
- Google search volume is strong and growing.
  - It grew 12% year-over-year.

Student Demand				
Score: 32	Percentile: 99			

Catego	Pctl	Criterion	Value	Score
	98	Google Search Volume (3 Months)*	581,892	8
	99	International Page Views (12 Months)	15,382	NS
Size	98	New Student Enrollment Volume (12 Mo.)	539	8
Size	99	On-ground Completions at In-Market Institutions	12,429	4
	99	Online Completions by In-Market Students	7,521	4
	99	Sum of On-ground and Online Completions	19,950	4
	96	Google Search YoY Change (Units)*	63,738	3
	93	New Student Enrollment Vol. YoY Change (Units)	39	2
Growth	0	Completion Volume YoY Change (Units)	-1,205	-1
Growth	62	Google Search YoY Change (%)*	12%	0
	40	New Student Enrollment Vol. YoY Change (%)	8%	0
	38	Completion Volume YoY Change (%)	-6%	0

Source: Gray's PES Markets

## **Program Scorecard: Employment**

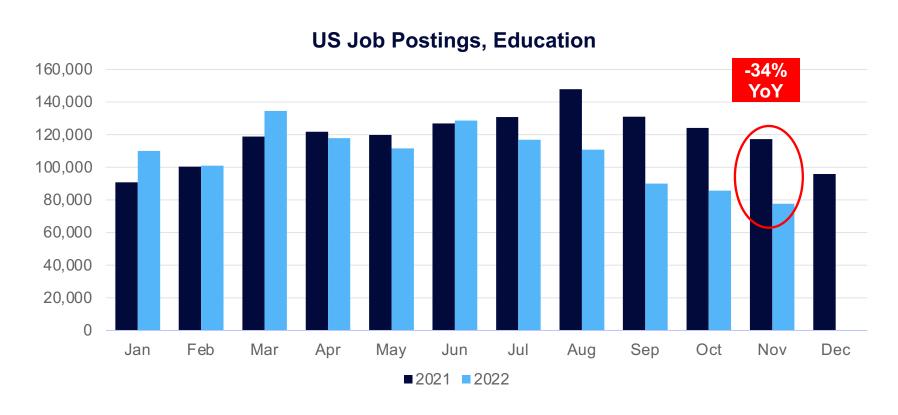
# Education ranks in the 99<sup>th</sup> percentile for Employment.

- Job volume is very high for this program.
  - However, it fell 4% year-over-year.
- Job postings per graduate are moderate.
- BLS mean wages are in the 27<sup>th</sup> percentile and lower for other wage metrics.

## Employment\* Score: 22 Percentile: 99

Category Pctl		Criterion	Value	Score
	95	Job Postings Total (12 Months)*	102,743	6
Size: Direct Prep	98	BLS Current Employment*	1,639,426	8
	98	BLS Annual Job Openings*	144,268	5
Size: ACS Bach.	95	Job Postings Total (12 Months)*	28,014	NS
Outcomes	97	BLS Current Employment*	244,002	NS
	47	BLS 1-Year Historical Growth*	-3.8%	0
Growth (Direct Prep)	51	BLS 3-Year Historic Growth (CAGR)*	0.7%	1
1100)	45	BLS 10-Year Future Growth (CAGR)*	0.5%	0
Saturation	68	Job Postings per Graduate*	3.4	0
(Direct Prep)	88	BLS Job Openings per Graduate*	4.8	2
Wages (Direct	31	BLS 10th-Percentile Wages*	33,861	NS
Prep)	27	BLS Mean Wages*	\$51,866	0
	22	Wages (Age < 30)	\$38,767	NS
	9	Wages (Age 30-60)	\$63,546	NS
National American	76	% with Any Graduate Degree	50%	NS
Community	95	% with Masters	44%	NS
Survey Bachelor's	28	% with Doct/Prof Degree	5%	NS
Degree Outcomes	19	% Unemp. (Age <30)**	2%	NS
Catcomes	19	% Unemp. (Age 30-60)**	1%	NS
	99	% in Direct Prep Jobs	67%	NS

## In November 2022, Education job postings dropped 34% year-over-year.

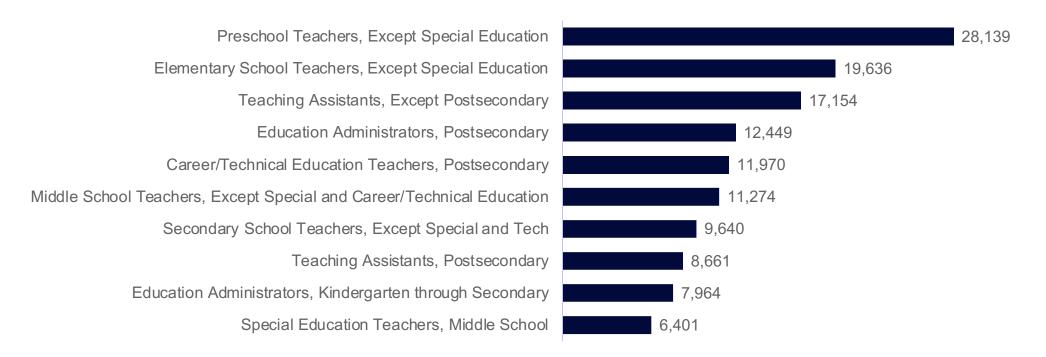


Source: PES Job Postings Dashboard

# In November 2022, preschool teachers had the highest volume of job postings for Education graduates.

#### **November Highest Job Postings**

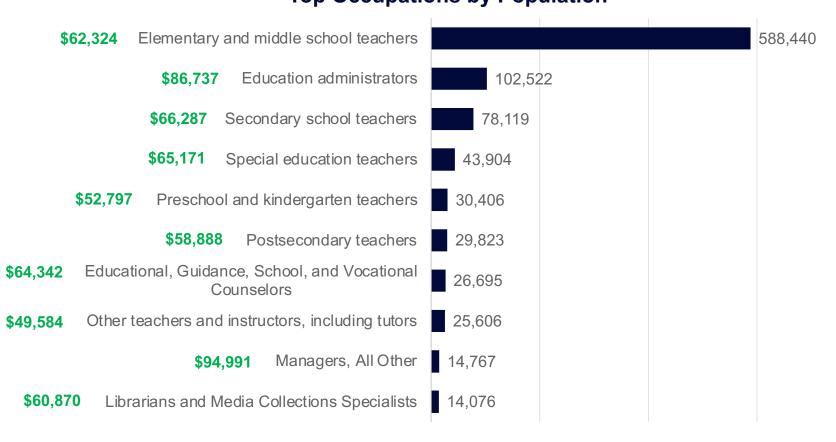
By Standard Occupational Code



Source: PES Job Postings Dashboard

# American Community Survey: Master's in Education occupations with average mid-life income Top Occupations by Population

Average Income Ages 30-60



Source: US Census, American Community Survey

## **Program Scorecard: Competitive Intensity**

## Education is a competitive program.

- 358 institutions have Master's in Education graduates
  - 38% of completions are online.
- Average and median program sizes are healthy
- Median size grew by 2% year-over-year.
- Marketing costs are very high for this program
  - 94<sup>th</sup> percentile for a Google click
  - 66<sup>th</sup> percentile competition index
- It is a popular online program: 38% of completions are online.

Competitive Intensity	
Score: -4 Percentile: 31	

Category	Pctl	Criterion	Value	Score
Volume of	99	Campuses with Graduates**	358	-8
In-Market	94	Campuses with Grads YoY Change (Units)**	4	-2
Competition 99	Institutions with Online In-Market Students**	138	NS	
30 00000000	97	Average Program Completions	35	4
In-Market	95	Median Program Completions	14	4
Program Sizes 90	YoY Median Prog. Compl. Change (Units)	1	1	
	79	YoY Median Prog. Compl. Change (%)	8%	0
In-Market	94	Google Search * Cost per Click**	\$21	-3
Saturation 66	Google Competition Index**	0.46	0	
National	99	National Online Institutions (Units)**	145	NS
Online	78	Nat'l Online % of Institutions	30%	NS
Competition	76	Nat'l Online % of Completions	38%	NS

## **Program Scorecard: Degree Fit**

### While 62% students are undergraduates, 63% of completers have a master's degree.

- 63% of completions are at the master's level.
  - Only 7% of enrollment is at the master's level.
- Only 6% of the national workforce have a master's degree.

Degree Fit:

Score: 0 Percentile: 50

#### National Completions by Level

Score: 0

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)
Certificate	2%	2%	0%
Associates	7%	7%	30%
Bachelors	16%	16%	62%
Postbaccalaureate Certificate	1%	1%	0%
Masters	63%	63%	7%
Post-masters Certificate	3%	3%	0%
Doctoral	8%	8%	1%
Unknown	0%	0%	0%

#### National Workforce Ed. Attainment

Score: 0

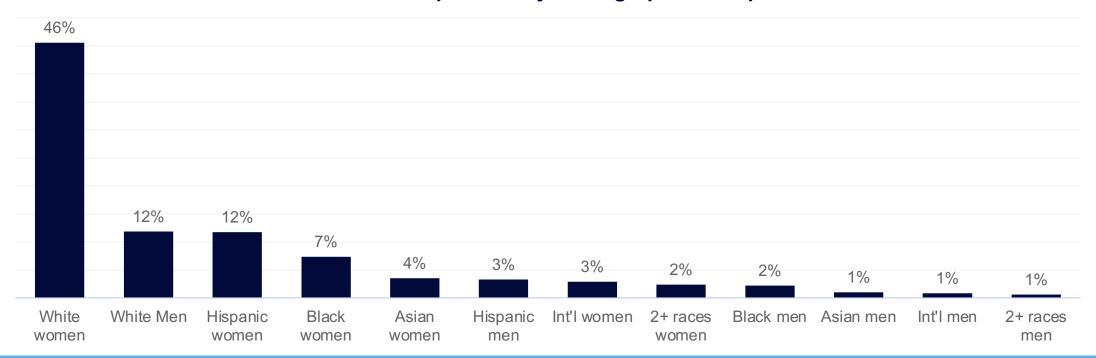
Award Level	BLS Educational Attainment
No College	33%
Some College	18%
Associates	18%
Bachelors	21%
Masters	6%
Doctoral	5%

## **Demographics**

## In 2020, white women made up 46% percent of completions for a Master's in Education.

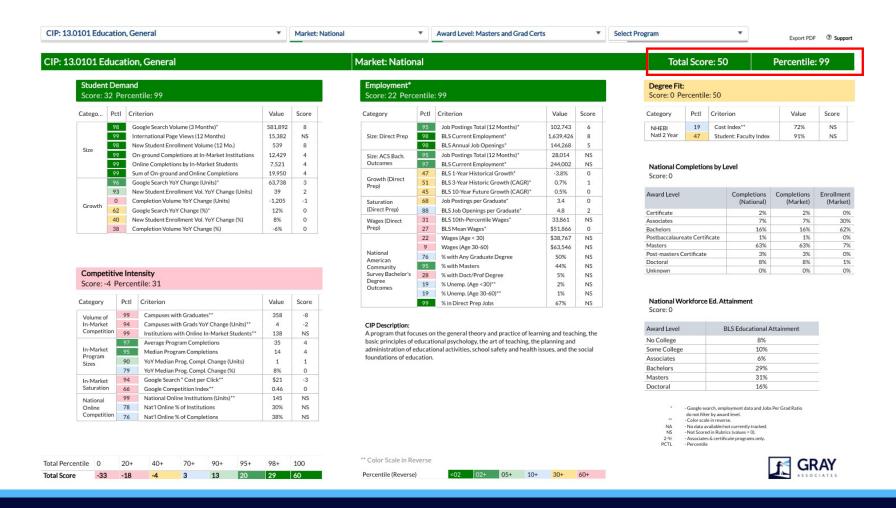
After white women, white men and Hispanic women had the highest percentage of completions.

#### 2020 Completions by Demographic Group



Source: PES Markets

## Program Scorecard: A Master's in Education ranks in the 99th percentile.



## Agenda

**Google Search** 

**International Student Demand** 

**Enrollment** 

**Employment Trends** 

Non-Degree Courses

**College Athletics** 

**Program of the Month** 

Summary

## **Summary**

- In November, US Google searches for academic programs increased 9% year-over-year.
  - Three of the 10 fastest-growing programs were in the arts.
- In academic year 2021-2022, the fastest-growing master's degree enrollment was in Data Science.
  - At the bachelor's level, Finance grew the fastest.
- In November, there was a strong employer demand for managers.
- Tax is a rapidly growing job market
- Demand for a Master's in Education is very high.
  - Student demand is very high.
  - Employer demand is very high.
    - However, mean wages are in the 27<sup>th</sup> percentile.
  - This program is very competitive.

## **Upcoming Webinars**

Topic	Date
Demand Trends Webcast:	<i>Wednesday</i>
Community Colleges	January 25 <sup>th</sup> at 2 pm ET
Demand Trends Webcast:	<i>Thursday</i>
Bachelor's and Above	January 26 <sup>th</sup> at 2 pm ET

Contact:
Robert Atkins
RobertGrayAtkins.com

