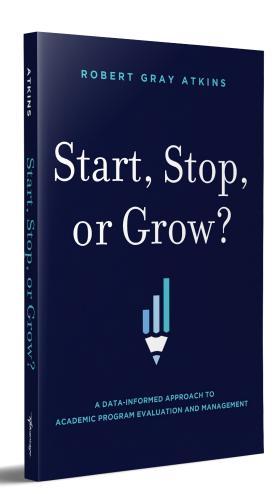


# **Demand for Higher Education Programs**

Results through August 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

# Agenda

**Google Search** 

**International Student Demand** 

**Enrollment** 

**Employment Trends** 

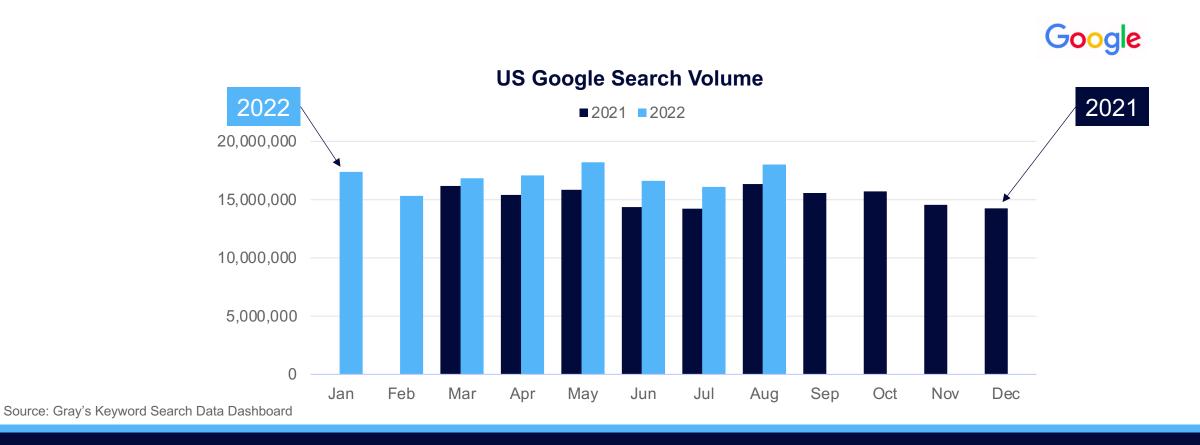
**Non-Degree Courses** 

**Program of the Month** 

Summary

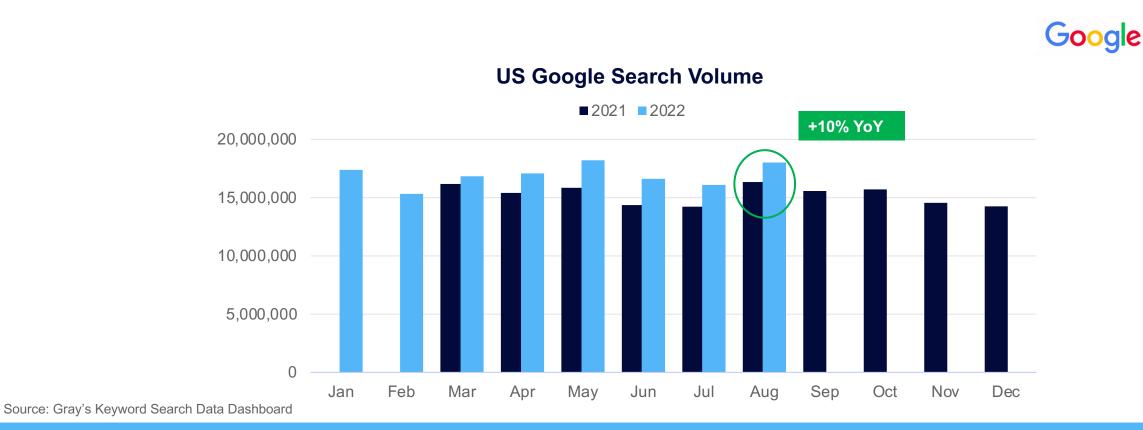
# **Google Search Trends: Programs**

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



## **Google Search Trends: Programs**

In August, Google searches for academic programs increased 10% year-over-year.

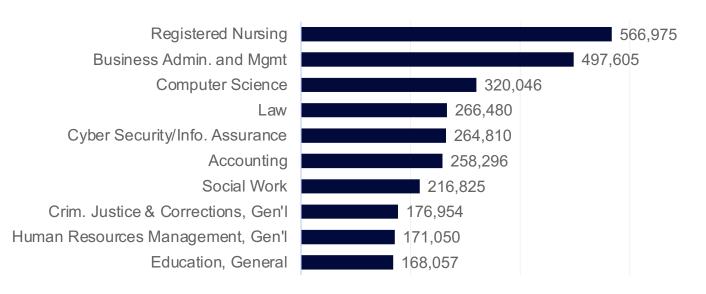


# Google: US Top Bachelor's Programs (excluding Associate and Below)

In August, Registered Nursing had the highest search volume.



# Programs with the Highest Volume of Keyword Searches August 2022



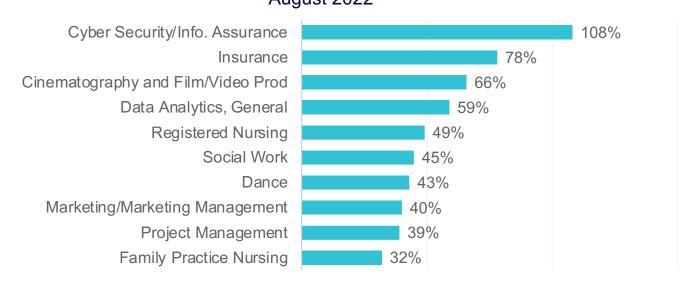
Google search volume for standardized sets of academic keywords for academic programs.. Source: Gray's Keyword Search Data Dashboard

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

In August, searches for Cyber Security programs increased 108%.



# Fastest-Growing Programs YoY Growth\* August 2022



\*Minimum 10,000 searches 2021

Google search volume for standardized sets of academic keywords for community college programs. Source: Gray's Keyword Search Data Dashboard

# Agenda

**Google Search** 

International Student Demand

**Enrollment** 

**Employment Trends** 

**Non-Degree Courses** 

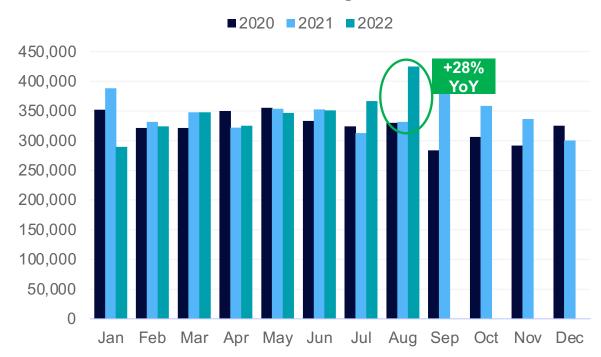
**Program of the Month** 

Summary

#### International Student Demand

In August, international student interest in US programs increased 28% YoY.

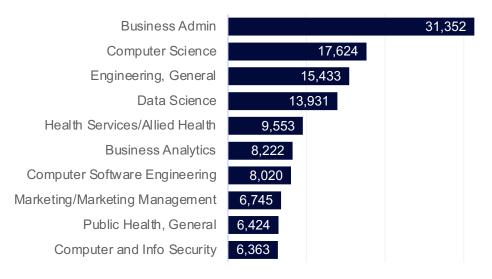
#### **International Page Views**



The most-viewed programs were Business and Computer Science.

#### **Top 10 Programs**

**International Page Views** 

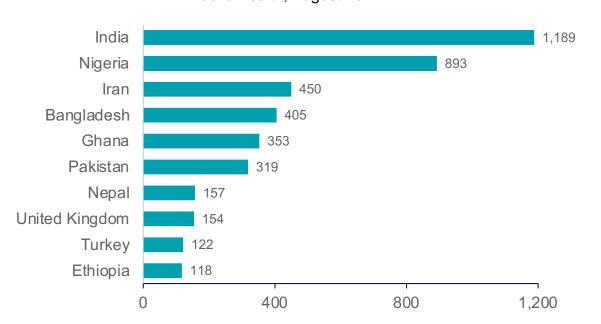


Source: Gray's International Student Demand Data Dashboard

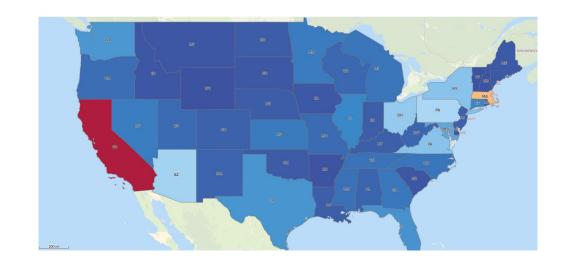
# International Page Views: Public Health (Ninth in Highest Views)

India led in page views for Public Health.

# International Page Views by Originating Country Public Health, August 2022



California was the most popular destination, followed by Massachusetts.



Source: Gray's International Student Demand Data Dashboard

# Agenda

**Google Search** 

**International Student Demand** 

**Enrollment** 

**Employment Trends** 

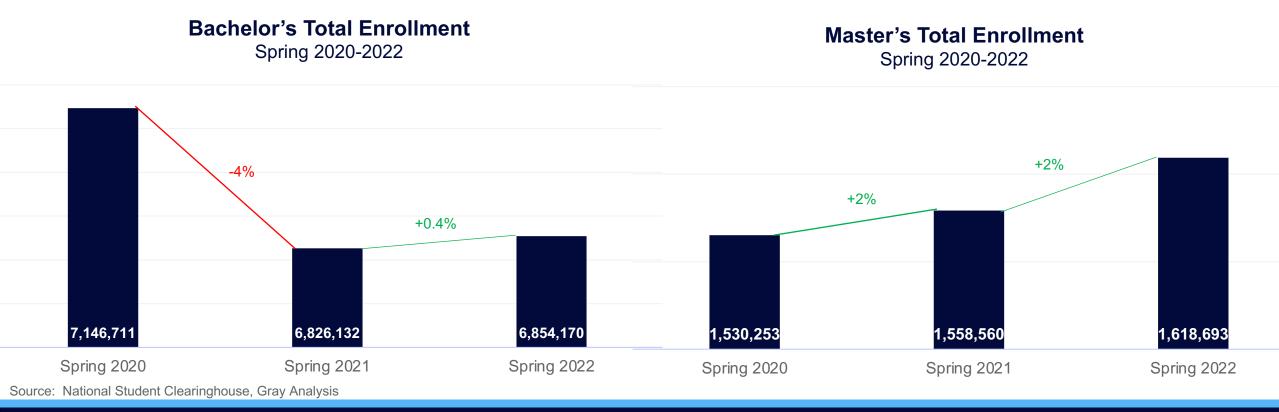
**Non-Degree Courses** 

**Program of the Month** 

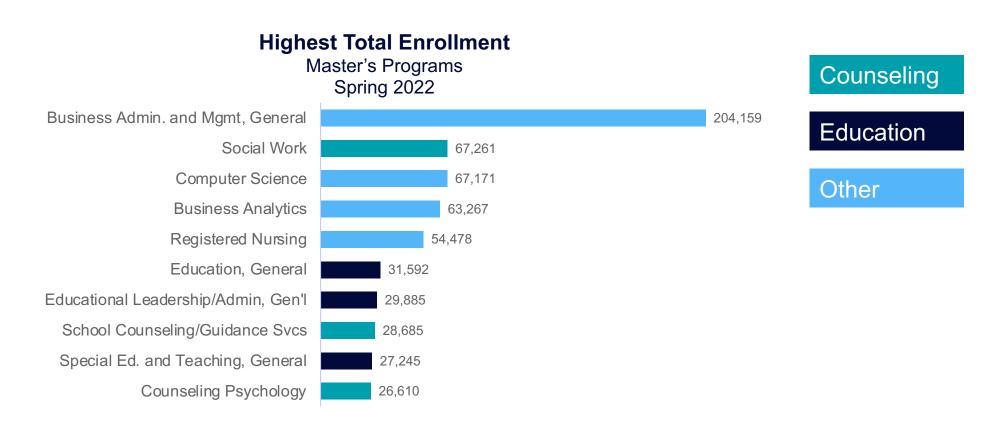
Summary

# Total Enrollment, Bachelor's and Master's Programs

### Spring 2022 enrollment grew!



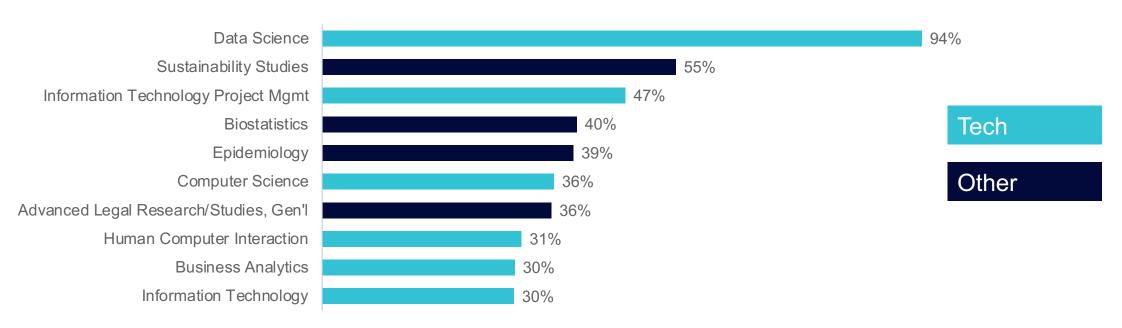
# In Spring 2022, Business had the highest enrollment of all master's programs.



Source: National Student Clearinghouse, Gray Analysis

# Data Science grew 94% year-over-year.



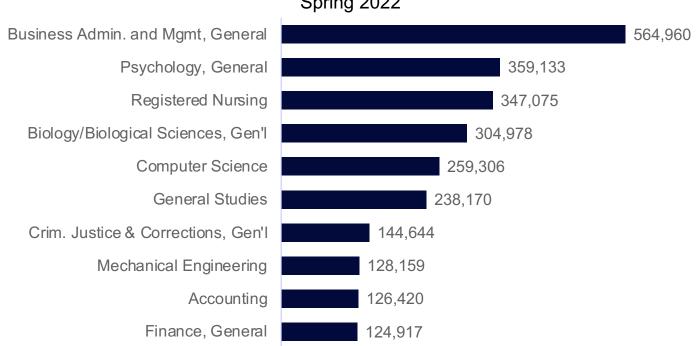


Source: National Student Clearinghouse, Gray Analysis

# In Spring 2022, Business had the highest enrollment of all bachelor's programs.

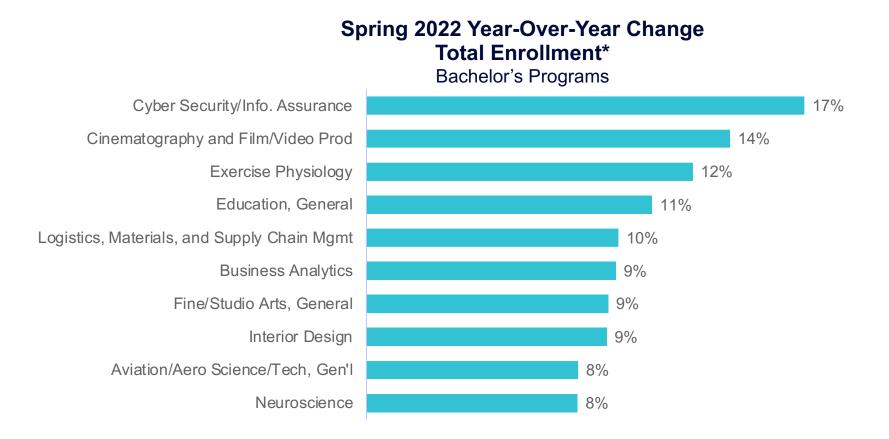






Source: National Student Clearinghouse, Gray Analysis

# Among bachelor's programs, Cyber Security grew the fastest.\*



\*\*Minimum 10,000 enrollees Spring 2021

# Agenda

**Google Search** 

**International Student Demand** 

**Enrollment** 

**Employment Trends** 

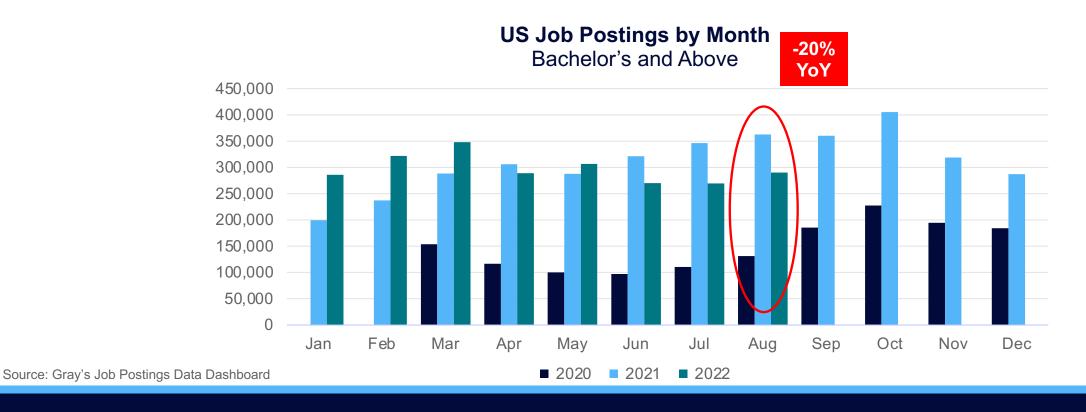
**Non-Degree Courses** 

**Program of the Month** 

Summary

# In August 2022, job postings volume for bachelor's and above degree-holders dropped 20% year-over-year.

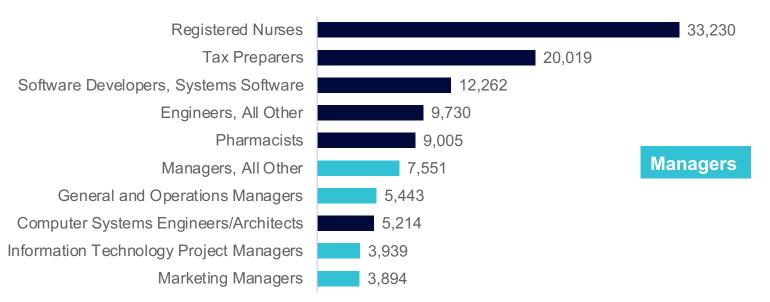
- However, postings are still 88% higher than in March 2020 (just before COVID).
- They also rose 7.6% month over month.



# August 2022, Registered Nurses had the highest volume of job postings.

#### **August 2022 Highest Job Postings**

By Standard Occupational Code

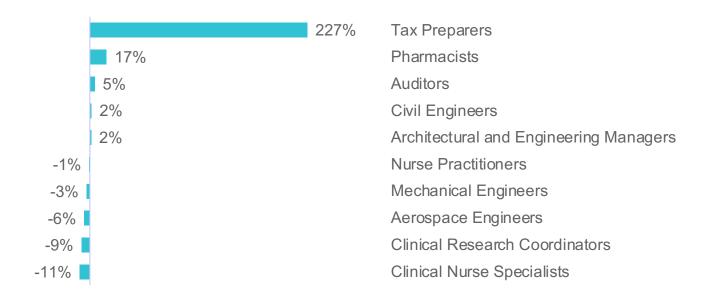


Source: Gray's Job Postings Data Dashboard

# In August, jobs for Tax Preparers increased 227% year-over-year.

#### **August 2022 Job Postings Year-over-Year Growth**

By Standard Occupational Code



Source: Gray's Job Postings Data Dashboard \*Minimum 1,000 jobs prior year.

# Agenda

**Google Search** 

**International Student Demand** 

**Enrollment** 

**Employment Trends** 

**Non-Degree Courses** 

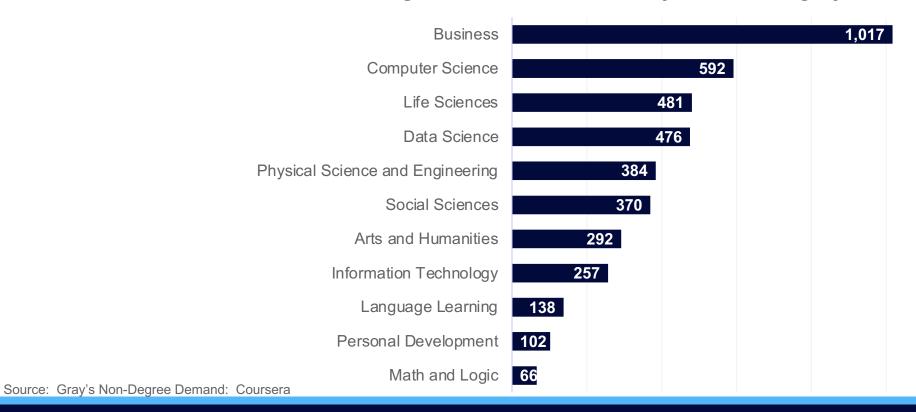
**Program of the Month** 

Summary

# **Coursera: Parent Categories**

Business offers the most courses in Coursera's parent categories.

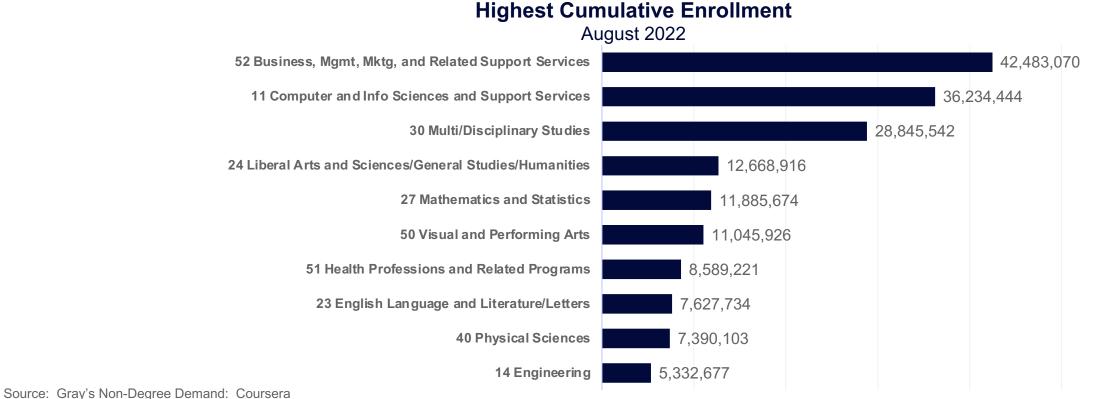
#### **Highest Count of Courses by Parent Category**



23

# **Coursera: Top Subjects Mapped to 2-Digit CIP Codes**

Since Coursera's inception, Business and Marketing have had the highest enrollment.

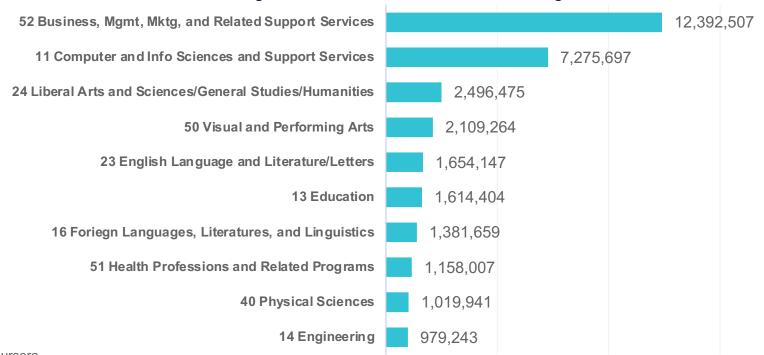


# Coursera: Fastest-Growing Subjects Mapped to 2-Digit CIP codes.

Education and Foreign Languages are among the fastest-growing.

#### **Fastest Cumulative Enrollment Growth**

August 2022 Year-over-Year Unit Change

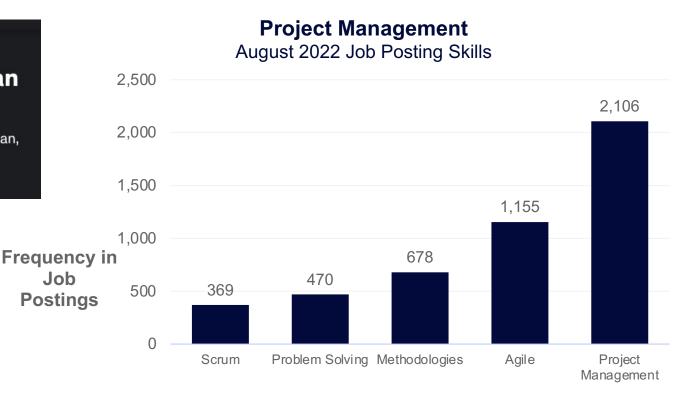


# Skills taught in Udemy's Agile/Scrum Certificate appear frequently in project manager job postings.



Sample Skills Taught in the Certificate:

- Agile
- Scrum
- Kanban
- Leadership Skills



Source: Gray's Non-Degree Demand: Udemy, udemy.com

# Agenda

**Google Search** 

**International Student Demand** 

**Enrollment** 

**Employment Trends** 

**Economics Benchmarking** 

Non-Degree Courses

**Program of the Month** 

Summary

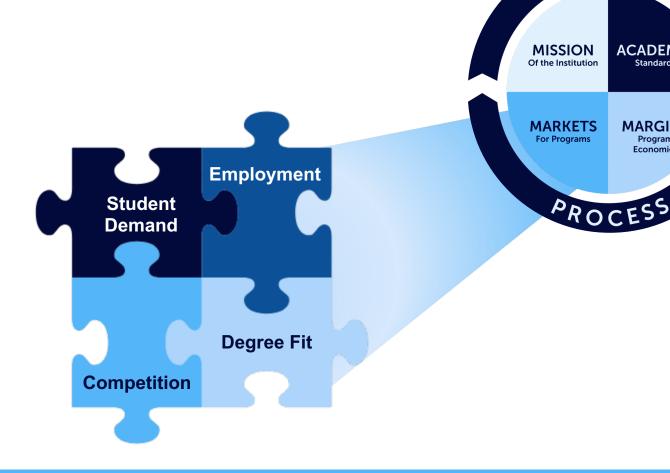
**ACADEMIC** 

Standards

**MARGINS** 

Program **Economics** 

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 Marketing/Marketing Management.

#### **US Program Ranking**

Bachelor's Programs

CIP Q	Total Percentile	Student Demand Percentile	Competitive Intensity Percentile	Employment Percentile	Degree Fit Percenti
51.3801 Registered Nursing	5 100	100	96	97	50
11.0701 Computer Science	99	100	21	92	50
14.1901 Mechanical Engineering	99	99	84	99	50
52.0201 Business Admin. and Mgmt, General	99	99	84	92	50
26.0101 Biology/Biological Sciences, Gen'l	99	99	84	88	50
52.0801 Finance, General	99	99	40	99	50
11.0103 Information Technology	99	99	21	92	50
52.0301 Accounting	99	99	8	98	50
52.1401 Marketing/Marketing Mgmt, General	99	99	3	84	50
14.0501 Bioengineering and Biomedical Engineering	99	98	93	94	50
14.0801 Civil Engineering, General	99	98	84	99	50
45.0601 Economics, General	99	98	32	96	50
14.1001 Electrical/Electronics Engin'g	99	98	21	98	50
01.0901 Animal Sciences, General	99	96	99	82	50
14.0201 Aero/Astro/Space Engineering	99	96	98	99	50
45.0603 Econometrics and Quantitative Economics	99	96	97	95	50
14.0701 Chemical Engineering	99	92	98	96	50
11.1003 Cyber Security/Info. Assurance	98	99	1	76	50
45.1001 Political Science and Gov't, Gen'l	98	98	14	84	50
30 7102 Rusiness Applytics	98	97	40	95	50

### **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**

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

- This is a very large program.
- Student Demand is growing.
  - Enrollment increased 9%.
  - Google searches increased 77%.
  - Completions increased 2%.
- 7% of completions are online.

#### Student Demand Score: 36 Percentile: 99

Catego	Pctl	Criterion	Value	Score
	97	Google Search Volume (3 Months)*	498,787	6
	97	International Page Views (12 Months)	1,149	NS
Size	99	New Student Enrollment Volume (12 Mo.)	13,126	8
Size	99	On-ground Completions at In-Market Institutions	40,892	4
	99	Online Completions by In-Market Students	3,061	4
	99	Sum of On-ground and Online Completions	43,953	4
	99	Google Search YoY Change (Units)*	217,325	3
	99	New Student Enrollment Vol. YoY Change (Units)	1,071	3
	99	Completion Volume YoY Change (Units)	801	3
Growth	97	Google Search YoY Change (%)*	77%	1
	65	New Student Enrollment Vol. YoY Change (%)	9%	0
	56	Completion Volume YoY Change (%)	2%	0

# **Program Scorecard: Employment**

# Marketing ranks in the 84<sup>th</sup> percentile for Employment.

- Job volume is at or above the 98<sup>th</sup> percentile.
  - Job postings are at the 99<sup>th</sup> percentile.
  - BLS current employment is in the 99<sup>th</sup> percentile.
  - Over the past three years, BLS jobs decreased by 1%.
- There are more graduates than jobs.
  - 12 job postings per graduate
- Wages are below the 80<sup>th</sup> percentile.

#### Employment\*

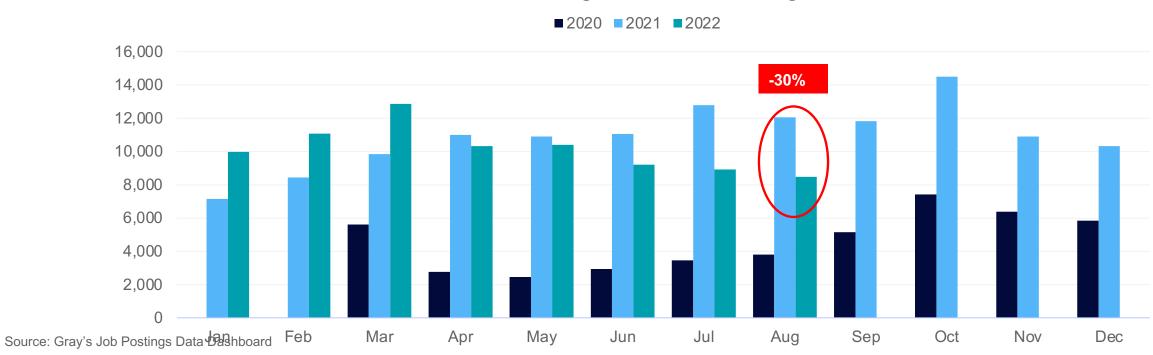
Score: 5 Percentile: 84

Category	Pctl	Criterion	Value	Score
	99	Job Postings Total (12 Months)*	599,750	2
Size: Direct Prep	98	BLS Current Employment*	1,845,061	2
	98	BLS Annual Job Openings*	188,768	NS
Size: ACS Bach.	99	Job Postings Total (12 Months)*	219,691	NS
Outcomes	99	BLS Current Employment*	936,658	NS
	36	BLS 1-Year Historical Growth*	-5.0%	NS
Growth (Direct Prep)	28	BLS 3-Year Historic Growth (CAGR)*	-1.0%	-1
Prep)	46	BLS 10-Year Future Growth (CAGR)*	0.5%	-1
Saturation (Direct Prep)	88	Job Postings per Graduate*	11.9	0
	86	BLS Job Openings per Graduate*	3.7	NS
Wages (Direct Prep)	43	BLS 10th-Percentile Wages*	\$37,344	NS
	66	BLS Mean Wages*	\$75,030	NS
	78	Wages (Age < 30)	\$50,629	3
	72	Wages (Age 30-60)	\$99,949	2
National American	7	% with Any Graduate Degree	18%	NS
Community	16	% with Masters	16%	NS
Survey Bachelor's Degree Outcomes	11	% with Doct/Prof Degree	2%	NS
	65	% Unemp. (Age <30)**	3%	-1
	73	% Unemp. (Age 30-60)**	2%	-1
	85	% in Direct Prep Jobs	23%	NS

# In August, job postings for a Bachelor's in Marketing decreased 30% YoY.

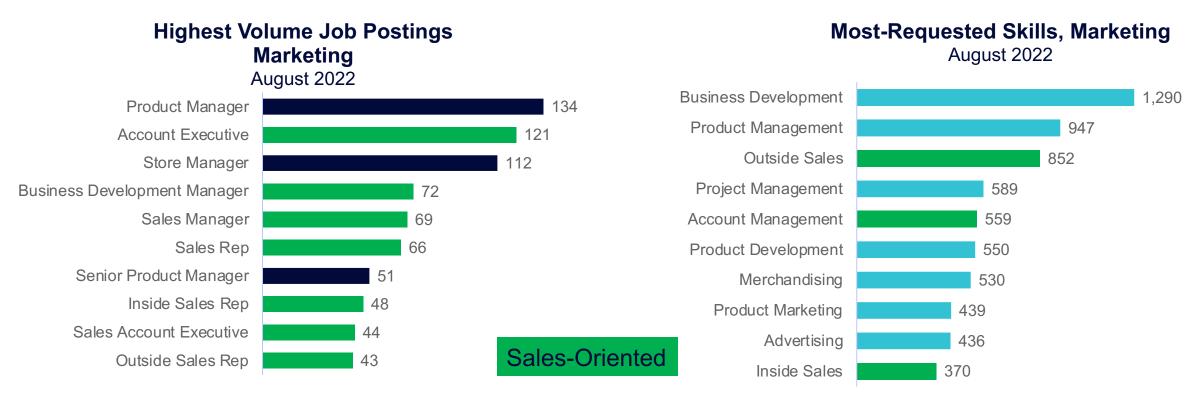
- They have increased 51% since before Covid.
- They have trended down for the last six months.

#### Job Postings Volume, Marketing



# **Job Postings: Marketing**

In August, Sales Reps and Managers were in high demand.



Source: Gray's Job Postings Data Dashboard

# **Program Scorecard: Competitive Intensity**

# Marketing scores in the 3<sup>rd</sup> percentile for Competitive Intensity.

- 705 institutions graduate marketing students.
  - 16% of institutions offer this program online.
- Average and median program sizes are healthy, but median size is down 4% yearover-year.
- Marketing costs are high.

### Competitive Intensity

Score: -9 Percentile: 3

Category	Pctl	Pctl Criterion		Score
Volume of	98	Campuses with Graduates**	705	-8
In-Market	93	Campuses with Grads YoY Change (Units)**	4	-2
Competition 99	Institutions with Online In-Market Students**	119	NS	
8 65 24 Å	96	Average Program Completions	58	4
In-Market	89	Median Program Completions	25	0
Program Sizes 51	YoY Median Prog. Compl. Change (Units)	-1	0	
	YoY Median Prog. Compl. Change (%)	-4%	0	
In-Market	90	Google Search * Cost per Click**	\$17	-3
Saturation 66	Google Competition Index**	0.46	0	
National	99	National Online Institutions (Units)**	132	NS
Online	84	Nat'l Online % of Institutions	16%	NS
Competition 74	Nat'l Online % of Completions	7%	NS	

## **Program Scorecard: Degree Fit**

### A bachelor's degree is an appropriate award level for Marketing.

- 87% of completions are at the bachelor's level.
- 44% of the national workforce have a bachelor's degree.

#### Degree Fit:

Score: 0 Percentile: 50

#### National Completions by Level

Score: 0

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)
Certificate	3%	3%	2%
Associates	3%	3%	13%
Bachelors	87%	87%	84%
Postbaccalaureate Certificate	1%	1%	0%
Masters	5%	5%	1%
Post-masters Certificate	0%	0%	0%
Doctoral	0%	0%	0%
Unknown	0%	0%	0%

#### National Workforce Ed. Attainment

Score: 0

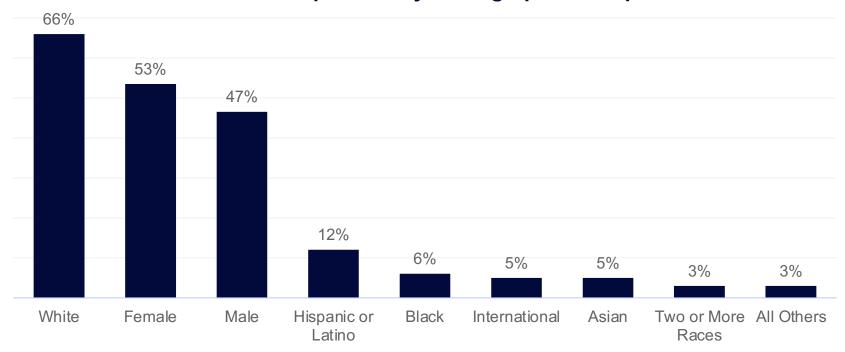
Award Level	BLS Educational Attainment
No College	16%
Some College	21%
Associates	8%
Bachelors	44%
Masters	10%
Doctoral	1%

# **Demographics**

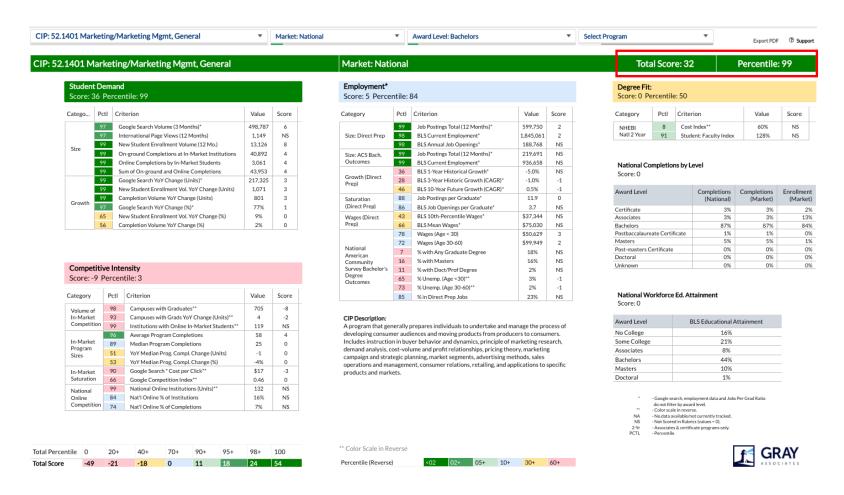
### In 2020, six percent more females than males completed this program.

• After Whites, Hispanics had the highest completions.

#### 2020 Completions by Demographic Group



# Program Scorecard: Marketing ranks in the 99th percentile.



# **Program Evaluation System: Economics**



# **Program Economics: Bachelor's in Marketing**

#### Illustrative Institution



40

# **Economic Benchmarks: Marketing Courses**

Illustrative Institution

Greater variance than benchmarks indicates costs are less controlled.



# Agenda

**Google Search** 

**International Student Demand** 

**Enrollment** 

**Employment Trends** 

**Economics Benchmarking** 

**Non-Degree Courses** 

**Program of the Month** 

Summary

## **Summary**

- In August, US Google searches for academic programs increased 10% year-over-year.
- In Spring 2022, Cyber Security had the fastest year-over-year bachelor's degree enrollment growth.
  - At the master's level, Data Science grew the fastest.
- Registered Nurses and Tax Prepares had the highest volume of job postings for bachelor's and above graduates.
  - Tax Preparers grew the fastest year over year.
- Demand for Marketing programs at the bachelor's level is high.
  - Student demand is very high.
  - Jobs per graduate are high.
  - Wages are fair.
  - Margin per student credit hour (SCH) is average.
    - The illustrative institution was well above the benchmark for 100, 400, and 600-level courses.
    - Cost per SCH varies by over 200% at several levels, suggesting poor control over course size.

# **Upcoming Webinars**

Topic	Date
Demand Trends Webcast: Community Colleges	<i>Wednesday</i> October 26 <sup>th</sup> at 2 pm ET
Demand Trends Webcast: Bachelor's and Above	Thursday October 27 <sup>th</sup> at 2 pm ET

Contact:
Robert Atkins
RobertGrayAtkins.com

