

#### **Demand for Higher Education Programs**

March 27<sup>th</sup>, 2025

# Agenda

#### I. Demand Trends

- Student Demand
- Employment Demand

#### **II.** Spotlight: Program of the Month

- Identification ~ Program Market Data
- Information ~ Program Report
- Analysis ~ Sizing and Financial Estimates

## **III.** Coming Up Next



An academic Program Evaluation System enables growth and sustainable financials.





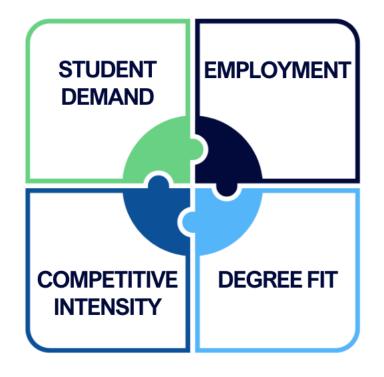
An academic Program Evaluation System enables growth and sustainable financials.



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#### Key elements of your market you need to understand.





# Agenda

## I. Demand Trends

- Student Demand
  - Google Search
  - Enrollment
  - International
  - Non-Degree
- Employment Demand
- II. Spotlight: Program of the Month

## **III. Coming Up Next**



#### **Student Demand Indicators: Past, Present, Future**

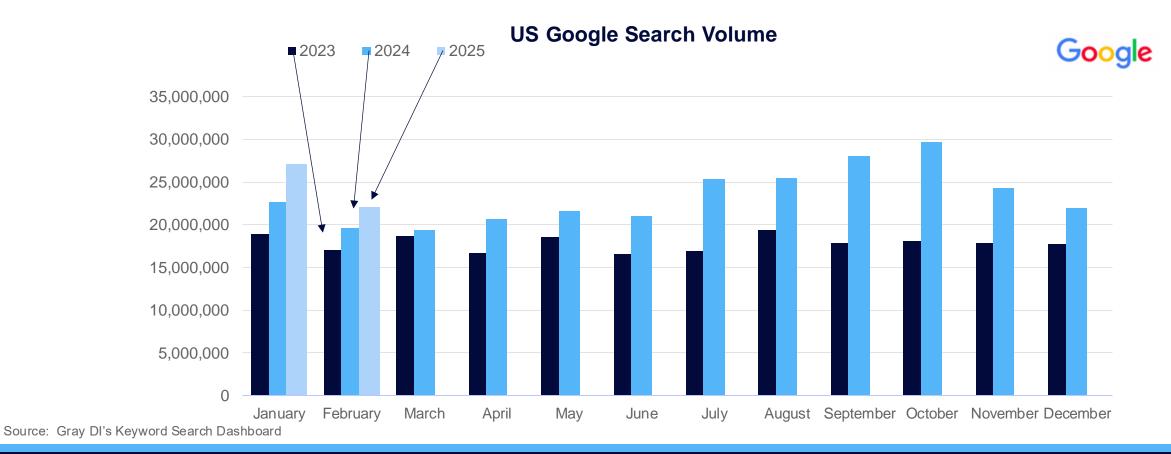
**Insights on Student Demand** 





#### **Google Search Trends: Programs**

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

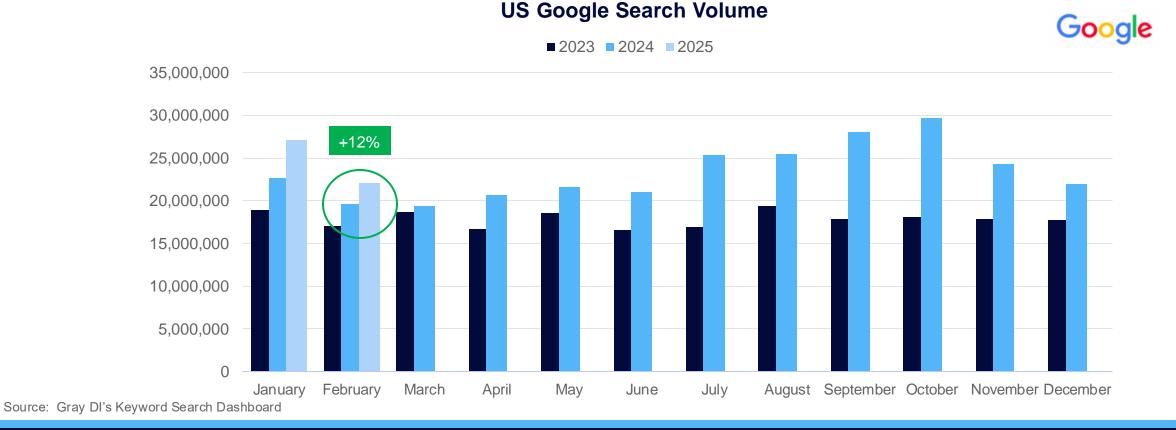


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#### **Google Search Trends: Programs**

#### In February 2025, Google searches for academic programs grew 12% year-over-year.

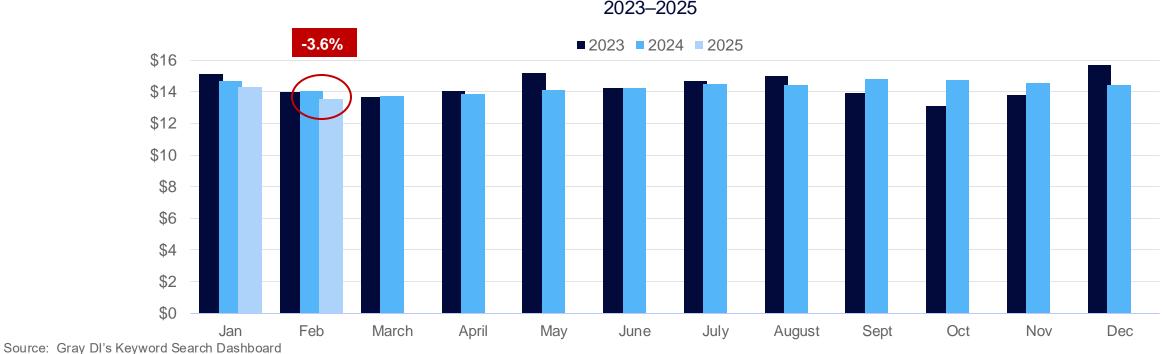




Google

#### **Google Search Trends: Cost-per-Click**

#### In February 2025, the average Google cost-per-click fell 3.6% year-over-year.



US Google Cost-per-Click 2023–2025

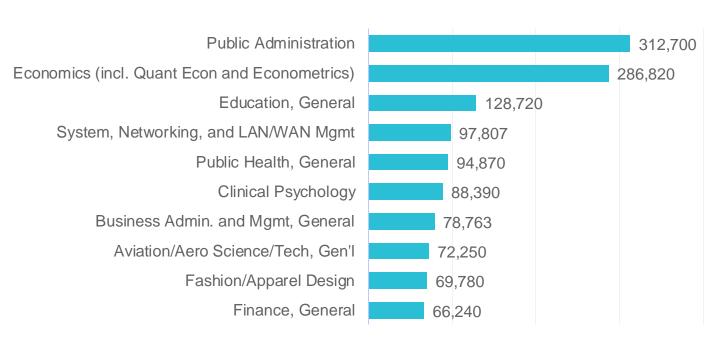


### **Google: Programs with Fastest-Growing US Search Volumes**

#### In February, searches for Public Administration programs grew by 312,700 year-over-year.

**Programs with the Fastest-Growing Google Search Volumes\*** 

February 2025 1-year Unit Change



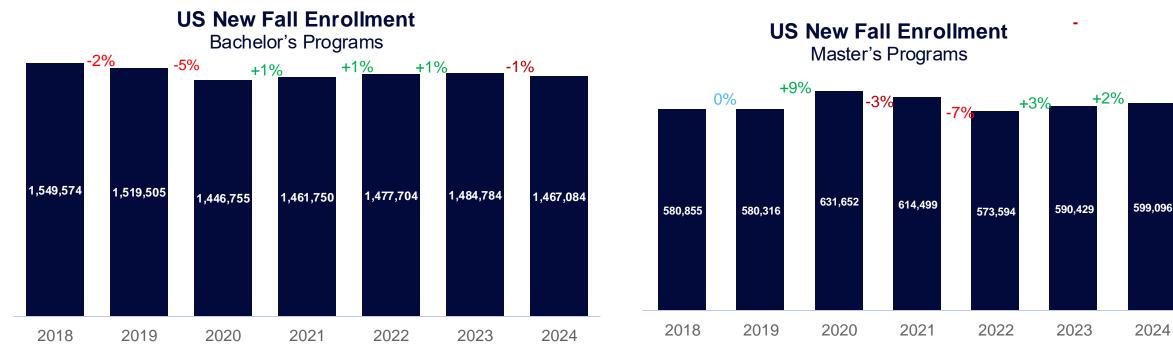
\*Excludes Undergraduate Certificate Programs

Google



### **Fall New Enrollment**

In Fall 2024, US new student enrollment fell 1% for bachelor's degrees, but master's grew 2%.



Source: Gray DI's PES Program Enrollment Dashboard

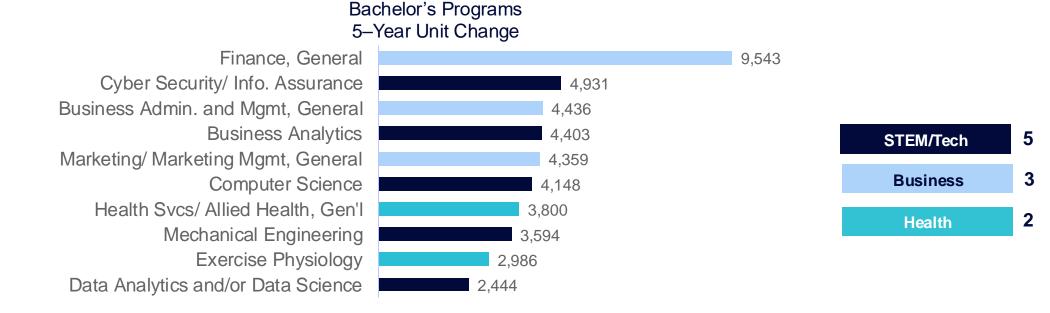
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## Bachelor's New Enrollment: Fall 2019–2024, 5-Year Change

#### From Fall 2019–2024, Finance added over 9,543 new student enrollments.

Half of the 10 fastest-growing programs were in STEM/Tech areas.

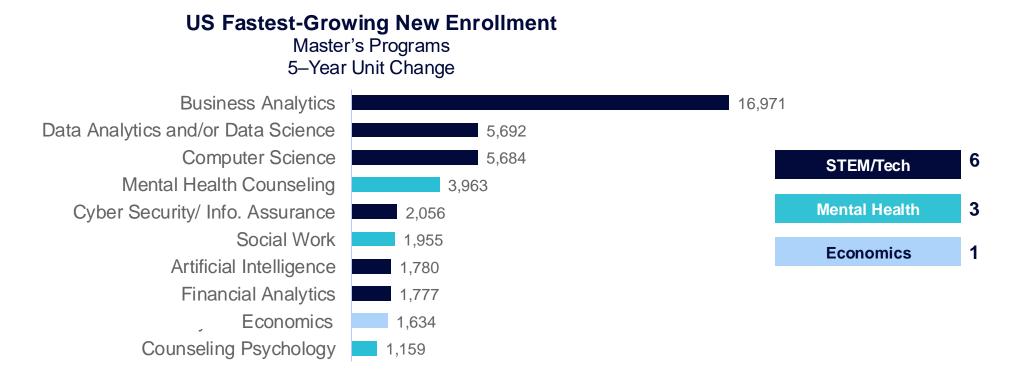


#### US Fastest-Growing New Enrollment



## Master's New Enrollment : Fall 2019–2024, 5-Year Change

#### From Fall 2019–2024, Business Analytics added 16,971 new student enrollments.





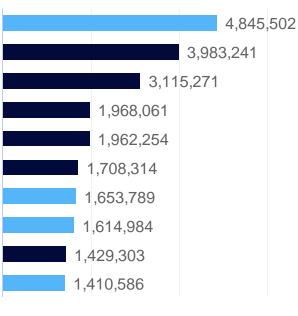
### **Non-Degree Demand: Coursera**

As of February 2025, there have been more than 143.7 million learners using Coursera since its inception (2012).

#### **Highest Enrollment Volume**

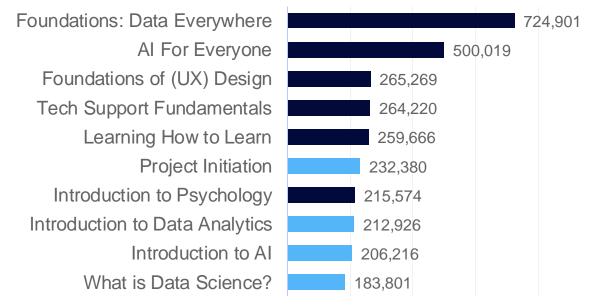
Cumulative: February 2025\*

The Science of Well-Being Learning How to Learn Foundations: Data Everywhere Tech Support Fundamentals Introduction to Psychology Al For Everyone First Step Korean Successful Negotiation Foundations of UX Design COVID-19 Contact Tracing



#### Highest Enrollment Volume

One Year: February 2024–2025



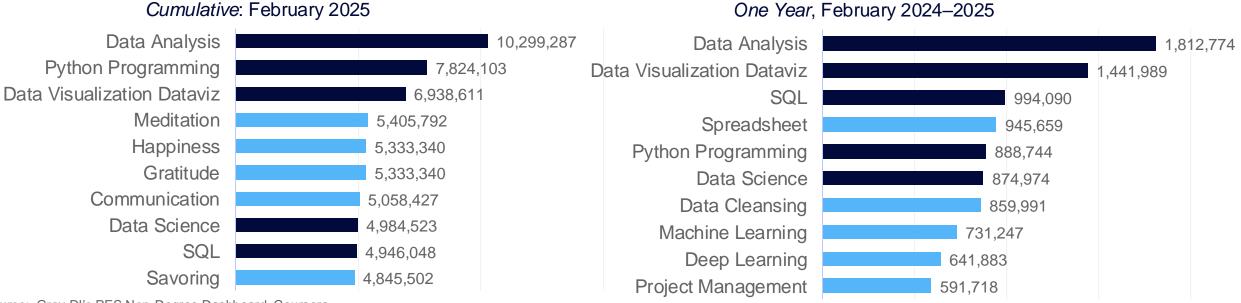


## Non-Degree Demand: Most Skills Taught on Coursera.

#### Data Analysis continues to be the most-taught skill.

- Historically, half of the most-taught skills were in personal development.
- In the last year, none were in the top 10 for volume.

**Highest Skills Volume** 



**Highest Skills Volume** 

Source: Gray DI's PES Non-Degree Dashboard, Coursera

#### 16

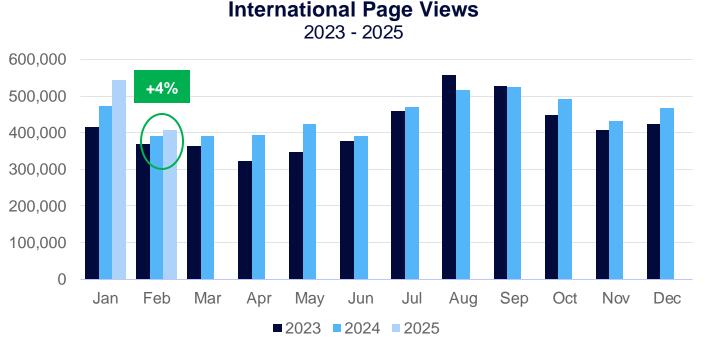
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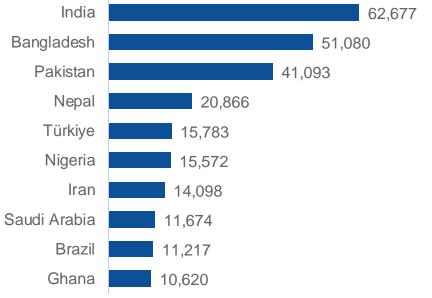
#### **International Student Demand**

In February 2025, international student interest in US programs rose 4% year-over-year.\*

#### India had the highest volume of page views.



Highest Page Views, Origin Countries February 2025



Source: Gray DI's PES International Student Demand Dashboard (excludes China)

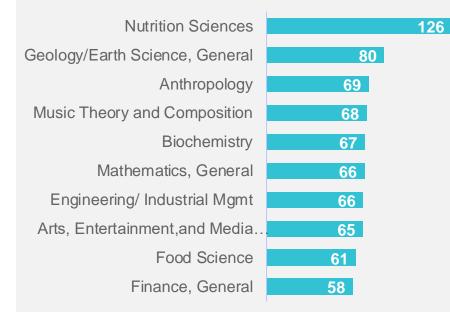
\*Bachelor's, Master's, PhD only



## International Page Views: February Fastest-Growing Programs

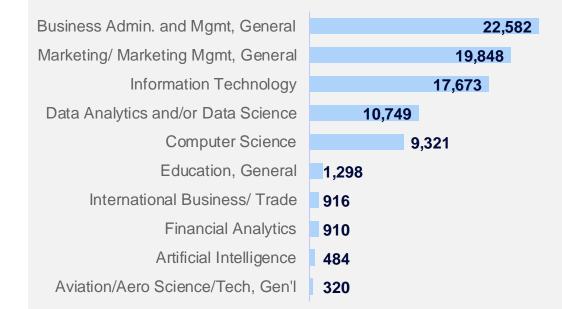
# The fastest-growing bachelor's program year-over-year was Nutrition Sciences.

#### **10 Fastest-Growing Bachelor's Programs** February 2025 YoY Change



# Business was the fastest-growing program at the master's level.

#### **10 Fastest-Growing Master's Programs** February 2025 YoY Change



# Agenda

- I. Demand Trends
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  - Employment Demand
    - Job Postings
    - Skills
- **II. Spotlight: Program of the Month**

## **III. Coming Up Next**



### Commonly available data sources link programs to direct prep occupations.

# According to direct prep jobs data, Bachelor's in Psychology grads are prepared for six occupations.

Almost all these occupations require a graduate degree.



Source: Gray DI's Job Postings Dashboard - Direct Prep



#### Data on than 1,012,711 graduates with a Bachelor's in Psychology shows 782 occupations.

#### Of the top 10 occupations they go into, only one appears in the direct prep crosswalks.

#### Top 10 Occupations Bachelor's in Psychology Sciences First Four Years Post-Grad



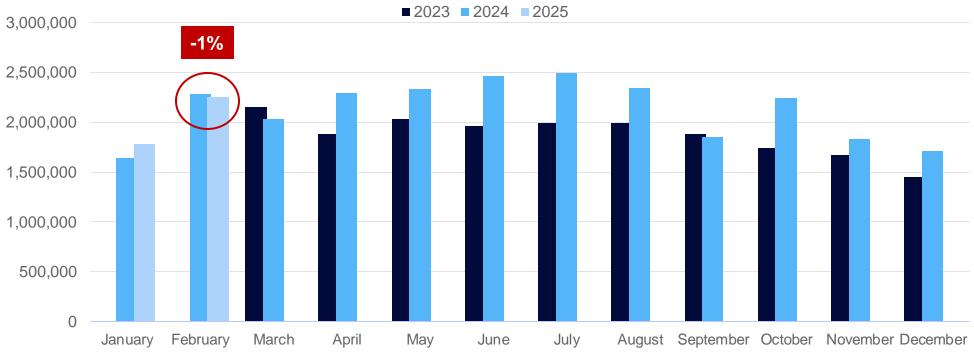
Direct Prep List



### **US Job Postings Trends**

#### In February, job postings fell 1% year-over-year.





Source: Gray DI's PES Job Postings Dashboard

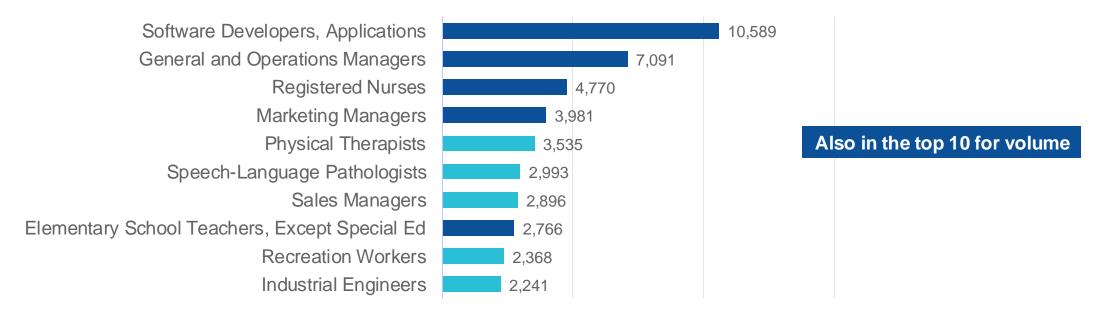


#### **Fastest-Growing Job Postings Year-over-Year**

#### In February, postings for Software Developers grew by 10,589 year-over-year.

#### Highest Job Postings Growth



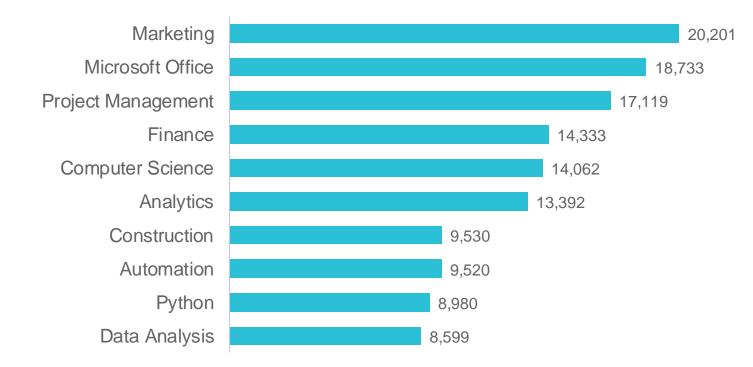




#### Which skills are growing in demand in the US?

#### Fastest-Growing Skills Volume, Bachelor's and Above

Listed in Job Postings, February, 2025 YoY Unit Change



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#### How do I know if there is market demand for an academic program?

#### Rank all programs in your market for student demand, employment, and competition.

CIP Q		Total Perc	entile			nt Demand rcentile	C	Competitive Intensity Percentile	Employment Percentile	Degree Fit Percentile
51.2305 Music Therapy		S	93			71		95	95	50
52.1206 Information Resources Management			93			71		90	97	50
11.9999 Computer/Info Sci and Svcs, Other			93			71		79	98	50
50.0409 Graphic Design			92			97		50	79	50
50.0602 Cinematography and Film/Video Prod			92			96		98	62	50
52.0701 Entrepreneurship/ Entrepreneurial Studies			92			96		79	77	50
09.0902 Public Relations/ Image Management			92			95		90	79	50
45.0901 International Relations/ Affairs			92			95		74	83	50
51.0001 Health and Wellness, General			92			93		97	79	50
51.2207 Public Health Education and Promotion			92			89		98	80	50
→ Total Percen	tile 0	20+	40+	70+	90+	95+	98+	100		
Total Score	-20	-16	2	15	27	34	42	67		

#### US Program Ranking Bachelor's Award Level



## **Student Demand**

#### Cinematography is in the 96th percentile for Student Demand in the US Market.

- Google searches are healthy as measured in total size but dropped 19% year-over-year.
- New student enrollment is strong in comparison to other programs and remains stable year over year.
- Completions are also sizeable, placing the program in the 95<sup>th</sup> percentile, and grew 3% year-over-year.

Student D Score: 15					
Category	Pctl	Criterion	Value	Score	
	90	Google Search Volume (12 Months)*	646,290	2	
	0	International Page Views (12 Months)	0	NS	
Size	96	New Student Enrollment Volume (12 Mo.)	6,205	4	
Size	96	On-ground Completions at In-Market Institutions	5,503	3	
	86	Online Completions by In-Market Students	103	1	
	95	Sum of On-ground and Online Completions	5,606	3	
	0	Google Search YoY Change (Units)*	-147,240	0	
	77	New Student Enrollment Vol. YoY Change (Units)	11	0	
Crowth	97	Completion Volume YoY Change (Units)	155	2	
Growth	16	Google Search YoY Change (%)*	-19%	0	
	52	New Student Enrollment Vol. YoY Change (%)	0%	0	
	68	Completion Volume YoY Change (%)	3%	0	

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## Employment

# Overall, Cinematography is in the 62<sup>nd</sup> percentile for Employment in the US.

- There is a healthy volume of entry-level jobs.
- Historical job growth is above average.
- But other indicators suggest further evaluation may be needed:
  - Underemployment is high.
  - Market saturation is high.
  - Median wages for bachelor's grads are low.

#### Employment Score: 3 Percentile: 62

Category	Pctl	Criterion	Value	Score
	93	Job Postings Total (12 Months)	4,226	2
Size: Entry Jobs	93	BLS Current Employment	28,289	0
	93	BLS Annual Job Openings	2,596	0
Underemployed	11	Underemployed Percent of Graduates**	61%	0
	78	BLS 1-Year Historical Growth	4.1%	0
Growth: Entry Jobs	88	BLS 3-Year Historic Growth (CAGR)	4.7%	1
5005	38	BLS 10-Year Future Growth (CAGR)	0.6%	0
Saturation: Entry	24	Job Postings per Graduate	0.8	0
Jobs	36	BLS Job Openings per Graduate	0.5	0
	27	Entry 25th Percentile	\$48,791	0
	23	Post Entry Median	\$72,799	0
Weighted-Avg		Post Entry w/Associates Median	NA	NS
BLS Wages	18	Post Entry w/Bachelors Median	\$69,276	NS
	20	Post Entry w/Masters Median	\$89,374	NS
	42	Post Entry w/Doctoral Median	\$113,391	NS
National	8	% with Any Graduate Degree*	18%	NS
American Community	12	% with Masters*	15%	NS
Survey	17	% with Doct/Prof Degree*	3%	NS
Bachelor's Degree	2	% Unemp. (Age <30)**	6%	NS
Outcomes*	64	% in Direct Prep Jobs*	11%	NS



## Competition

#### **Cinematography graduates come from 159 institutions in the U.S.**

- The average program size is in the 91<sup>st</sup> percentile, and the median is at the 80<sup>th</sup> percentile.
- Comparatively, cost per click is high.
- This very much an on-campus program, with only 2% of all completions estimated to be online.

<b>Competitive Inte</b> Score: 12 Percer		3		
Category	Pctl	Criterion	Value	Score
Volume of In-	6	Campuses with Graduates**	159	4
Market	95	Campuses with Grads YoY Change (Units)**	-5	NS
Competition	11	Institutions with Online In-Market Students**	7	0
	91	Average Program Completions	35	2
In-Market	80	Median Program Completions	15	1
Program Sizes	71	YoY Median Prog. Compl. Change (Units)	0	0
	71	YoY Median Prog. Compl. Change (%)	0	0
In-Market	35	Google Search * Cost per Click**	\$9	2
Saturation	63	Google Competition Index**	0.09	3
	9	National Online Institutions (Units)**	9	NS
National Online Competition	61	Nat'l Online % of Institutions	4%	NS
competition	55	Nat'l Online % of Completions	2%	NS



#### Who are the top competitors for Cinematography?

#### In 2023, five schools accounted for 25% of the total 5,606 completions.

	I	op 5 compe		
Campus	2023 Completions	5-yr CAGR	UG Tuition and Fees (in-state)	UG Tuition and Fees (out-of-state)
New York University	406	0.6%	\$60,438	\$60,438
Emerson College	298	-6.6%	\$55,392	\$55,392
Savannah College of Art and Design	267	14.4%	\$40,595	\$40,595
DePaul University	239	12.4%	\$44,460	\$44,460
University of Central Florida	186	11.3%	\$6,368	\$22,467

**Bachelor's in Cinematography** 

Top 5 Competitors

Top 5 Completions = 1,396

#### Bachelor's in Cinematography US Completions 2018–2023





## **Degree Fit and Cost Benchmarking**

- Bachelor's is an appropriate award level for Cinematography.
  - 62% of completions are at the bachelor's level
  - 58% of new enrollment is at bachelor's
  - 53% of the US workforce hold bachelor's degrees.
- Comparatively, this program's cost per student credit hour is relatively low.

#### **Degree Fit** Score: 0 Percentile: 50 Category Pctl Criterion Value Score Average Cost per SCH Index\*\* 0.63 NS Cost Benchmarking Median Cost per SCH Index\*\* 81 0.73 NS National Completions by Level National Workforce Ed. Attainment Score: 0 Score: 0 Award Level Completions Completions Enrollment **BLS Educational** (National) (Market) (Market) Attainment No College 8% Some College 15% Certificate 17% 17% 9% Associates 10% 10% 23% 7% Bachelors 62% 62% 58% 53% Postbaccalaureate Certificate 0% 0% 0% Masters 11% 11% 10% 13% Post-masters Certificate 0% 0% 0% Doctoral 0% 0% 0% 5%

CIP: 50.0602 Cinematography and Film/Video Prod	•	Award Level: Bachelors	•	Market: National	•	Select Program Group	•	Export PDF	🐱 Al Report	③ Support	View Definitions
											View Definitions
CIP: 50.0602 Cinematography and Film/Video Prod		1	Award Level: Bach	elors	Market: Natio	nal				Total Score: 30	Percentile: 92
Student Demand		<b>, ,</b>	Employment					Degree Fit			

#### Score: 15 Percentile: 96

Category	Pctl	Criterion	Value	Score
	90	Google Search Volume (12 Months)*	646,290	2
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Growth	16	Google Search YoY Change (%)*	-19%	0
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#### **Competitive Intensity** Score: 12 Percentile: 98

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Volume of In-	6	Campuses with Graduates**	159	4
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Google search do not filter by award level.

\*\* - Percentiles are displayed in reverse (100% minus the percentile).

NA - No data available/not currently tracked.

NS - Not Scored in Rubrics (values = 0). PCTL - Percentile

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Degree Fit	
Score: 0 Perce	ntile: 50

Category	Pctl	Criterion	Value	Score	
Cost	95	Average Cost per SCH Index**	0.63	NS	
Benchmarking	81	Median Cost per SCH Index**	0.73	NS	

National Completions by L Score: 0	National Workforce Ed. Attainment Score: 0				
Award Level	Completions (National)	Completions (Market)	Enrollment (Market)	BLS Educational Attainment	
No College				8%	
Some College				15%	
Certificate	17%	17%	9%		
Associates	10%	10%	23%	7%	
Bachelors	62%	62%	58%	53%	
Postbaccalaureate Certificate	0%	0%	0%		
Masters	11%	11%	10%	13%	
Post-masters Certificate	0%	0%	0%		
Doctoral	0%	0%	0%	5%	

#### CIP Description:

A program that prepares individuals to communicate dramatic information, ideas, moods, and feelings through the making and producing of films and videos. Includes instruction in theory of film, film technology and equipment operation, film production, film directing, film editing, cinematographic art, film audio, techniques for making specific types of films and/or videos, media technologies, computer image making, multi-media production, and the planning and management of film/video operations.

Total Percentile	0	20+	40+	70+	90+	95+	98+	100
Total Score	-20	-16	2	15	27	34	42	67

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#### Detailed data are critical, but sometimes are too much to communicate effectively.

# The option to choose reporting "levels" is an effective asset as you move the program evaluation and discussion forward.

- The Gray DI PES Markets system currently provides you with two report choices, each with a differing level
  of detail but both with key data elements included.
  - We provide an AI program report that highlights key demand, employment, and competitive data in one page.
  - For a deeper view, the program summary report draws from more detailed scorecard data; in seven
    pages it covers scorecard areas in greater depth.
- We now have created an expanded program report and would like to present it to you today.
  - This report pulls additional data and trends information from our in-depth data sets to deliver a full summary report



# **Cinematography Program Report**



# You'd like to consider adding this program. How can you assess its potential for your institution?

#### Strong market demand data is crucial; however, each institution is different.

- Once you have a sense of demand, then how do you gage its possible size for you?
- With a size estimate, how can you tackle defining the economic value that may be created for your school?
- And then, can you "net" it out so that you have a clear understanding of its possible financials?
  - > A new program proposal, including a pro forma, can take months to prepare.



#### Past, Present, and Future

**Estimating Program Size** 







Average Size Median Size Peer Institution Analysis Accreditor's Data **Build Machine Learning** 

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## **Predict Program Size**

#### **School Attributes**

- Size
- Sector (e.g., public)
- Focus and portfolio
- Selectivity
- Student types
- Location



#### **Machine Learning**

Gradient Boosting XGB Regressor Random Forest Etc.





- Size
- Size at similar schools
- Type (e.g., Engineering)
- Award level
- Modality
- Market data
- Program-portfolio fit



### What is your institution's focus?

#### A small school with an arts focus can produce 3x the completions of a larger state school.

CIP (Bachelor's)	Institution	2023 Completions	Status	On-Ground Prediction	Online Prediction	Both Prediction
50.0602 Cinematography and Film/Video Production	Art and Design Focus	850	New Program	76	75	75
50.0602 Cinematography and Film/Video Production	State School	2,930	New Program	22	26	24

Bachelor's in Cinematography Program Size Predictions, Completions at Maturity



#### **Pro Forma Financials**

#### You can know what programs cost before they are added to a program portfolio.



Predicted Size



Benchmark Cost per Student



**Pro Forma Financials** 



## Enrollment

- Gray DI's size predictions
- School's retention rates
- National growth ramps

## Revenue

- Students' credits per year
- Tuition and Fees
- Discount Rate

Pro Forma Financials

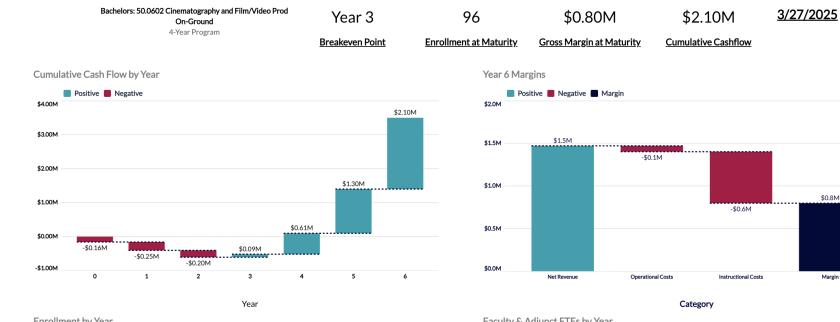
## **Non-Instructional Costs**

- Administration Cost
- Program Development Costs
- Marketing Costs

# Instructional Costs

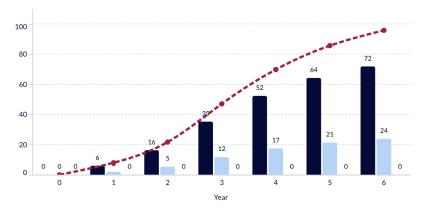
- Curricular Mapping
  - Current vs New Courses
- Instructional Cost per SCH



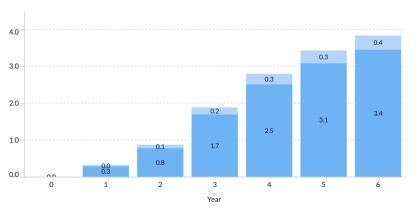


Enrollment by Year





Faculty & Adjunct FTEs by Year



📕 Adjuncts 📃 Full Time

\$0.8M

Margin



## Summary

#### Trends:

- In February, Google searches for academic programs rose 12% year-over-year.
  - Public Administration searches grew by 312,700 year-over-year.
- Fall 2024 new student enrollment in bachelor's programs fell 1% year-over-year while master's new enrollment is up 2%.
- From Fall 2019–2024, Finance and Business Analytics had the highest new enrollment growth.
- In February, Software Developers had the highest job postings growth year-over-year and skills in marketing, Microsoft Office, and project management continue to be in high demand.
- Reminder: Evaluate the breadth of employment, not just direct preparation CIP-SOC matches, to get the full view of opportunity.
  - Bachelor's in Psychology grads go into 782 occupations; most are not directly related to their major.
- Market demand data informs decisions to start, stop, or grow programs. Additional data and tools provide further decision intelligence support for your processes.
  - Selecting the best report match can help with the communication and evaluation of program opportunity.
  - Predicting program size and building associated financials quickly informs those decisions for your individual institution.

# Agenda

I. Demand Trends

**II. Spotlight: Program of the Month** 

**III.** Coming Up Next



## **Master Class Series:**

#### All classes are from 2-3 PM ET.

Date	Торіс			
Tues., March 4	Foundations of Academic Program Evaluation			
Tues., March 11	Fiscal Fitness to Fund Growth			
Tues., March 18	Market Demand: The Key to Program Growth and Relevance			
Tues., March 25	Managing and Sustaining Program Evaluation			
Tues., April 1	Embracing Innovation: The Future of Program Evaluation			

Register here: https://www.graydi.us/2025-master-class-series

## Next Month: Butler University Case Study Webinar

#### Thursday, April 17th, 2 PM ET

#### Using Data for Growth: Driving Innovation in Higher Education

How Butler University's Transformation Lab is Accelerating Change with Data-Informed Strategies

