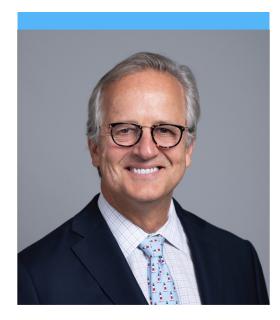


### **Demand for Higher Education Programs**

Results through March 2023



### **Today's Speakers**



Robert Gray Atkins Founder and CEO

**Gray Associates** 



Jay Kahl, Ph.D.
Assistant Vice Provost
Assessment and Academic Excellence



Gray has developed a complete Program Evaluation System (PES).

We assemble the data in easy-to-use software.



### Gray has developed a complete Program Evaluation System.

We facilitate an inclusive, data-informed evaluation process.



# Agenda

**Student Demand** 

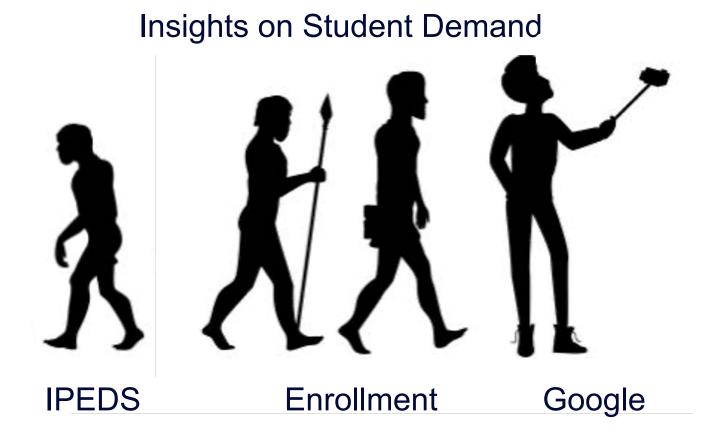
**Traditional Programs**Non-Degree Courses

**Employment: Current Indicators** 

**Program of the Month** 

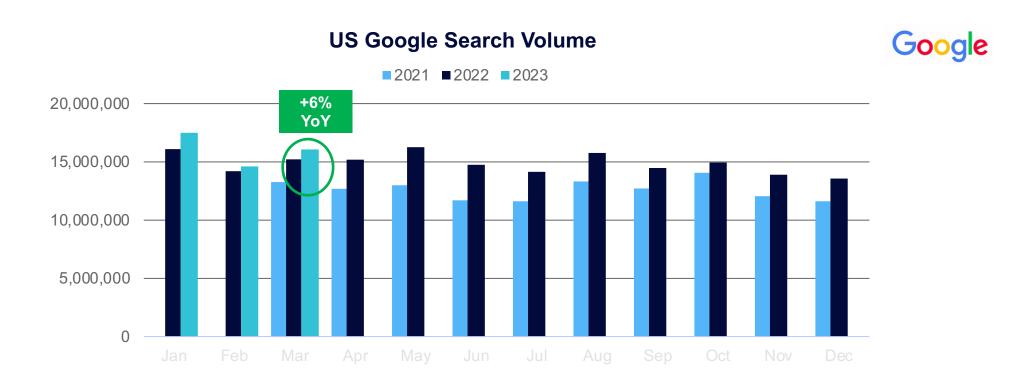
Summary

### IPEDS, Enrollment, and Google Search: Past, Present, and Future



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

In March, Google searches for academic programs rose 6% year-over-year.\*



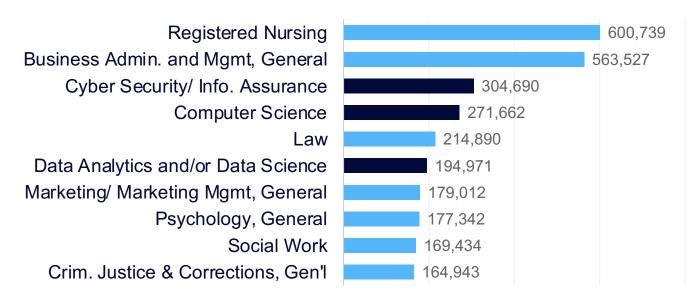
Source: PES Keyword Search Dashboard

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

In March, Registered Nursing had the highest search volume.



# Programs with the Highest Volume of Keyword Searches March 2023





\*Excludes associate and certificate non-transfer programs.

Source: PES Keyword Search Dashboard

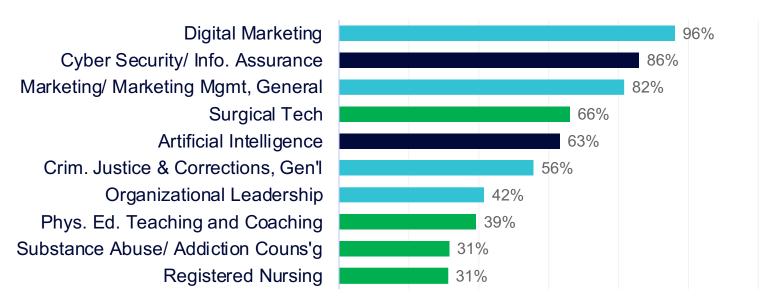
### **Google: US Fastest-Growing Programs**

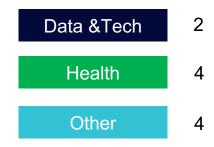
In March, searches for Digital Marketing programs rose 96%.











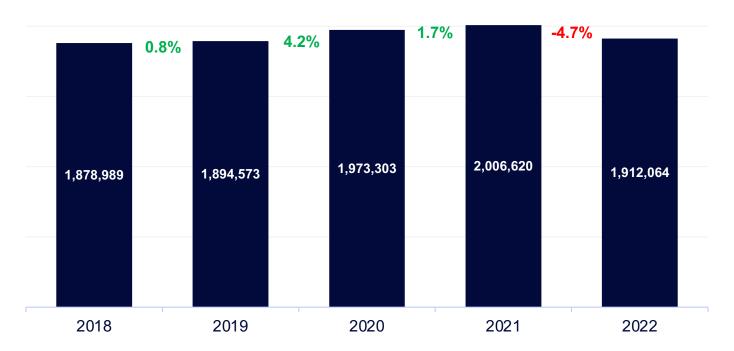
\*Minimum 10,000 searches March 2022

<sup>\*</sup>Excludes associate and certificate non-transfer programs.

### After three years of growth, Master's total enrollment fell 4.7% in Fall 2022.

#### **US Master's Programs Total Enrollment**

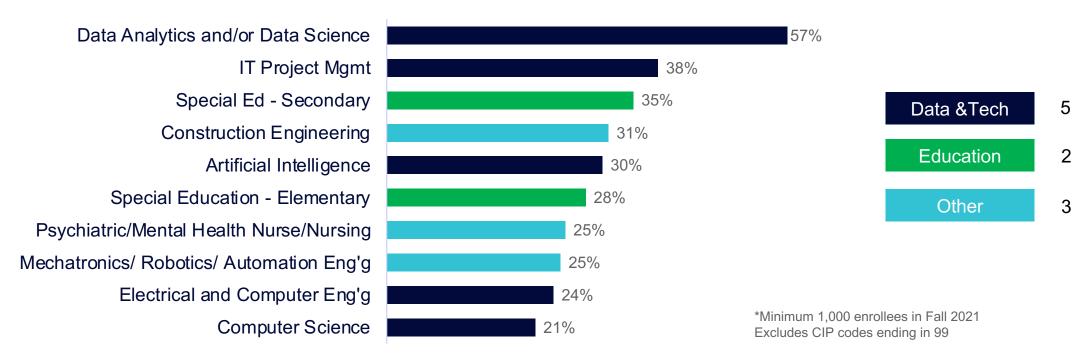
Fall 2018 - 2022



### Master's total enrollment in Data Analytics/Science grew 57% YoY.

#### **Fastest-Growing Total Enrollment\***

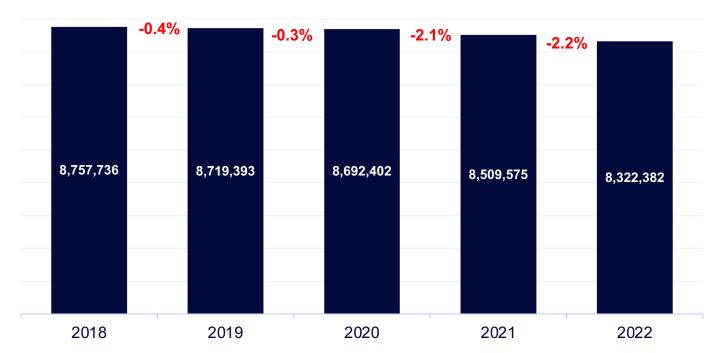
Master's Programs Fall 2022 YoY



#### The decline in Fall bachelor's enrollment accelerated to 2.2% in 2022.

#### **US Bachelor's Programs Total Enrollment**

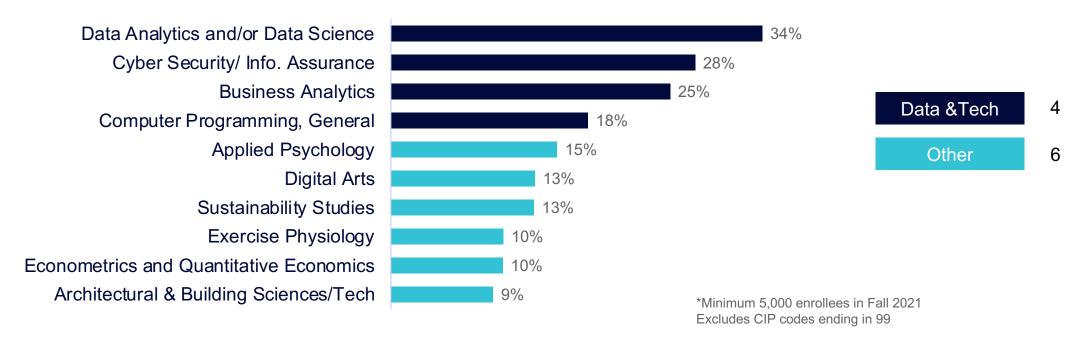
Fall 2018 - 2022



### Bachelor's enrollment in Data Analytics is exploding.

#### **Fastest-Growing Total Enrollment\***

Bachelor's Programs Fall 2022 YoY



# Agenda

**Student Demand** 

**Traditional Programs** 

**Non-Degree Courses** 

**Employment: Current Indicators** 

**Program of the Month** 

Summary

3

3

4

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

In March, The Science of Well-Being had the highest cumulative course enrollment once again.

Introduction to Psychology is a new entrant into the top 10.





Source: PES Non-Degree Demand: Coursera

### **Coursera: Largest-Growing Courses**

In March, Foundations: Data, Data, Everywhere added the most students year-over-year.

## Highest Year-Over-Year Unit Change in Cumulative Enrollment March 2023



Source: PES Non-Degree Demand: Coursera

# Agenda

**Student Demand** 

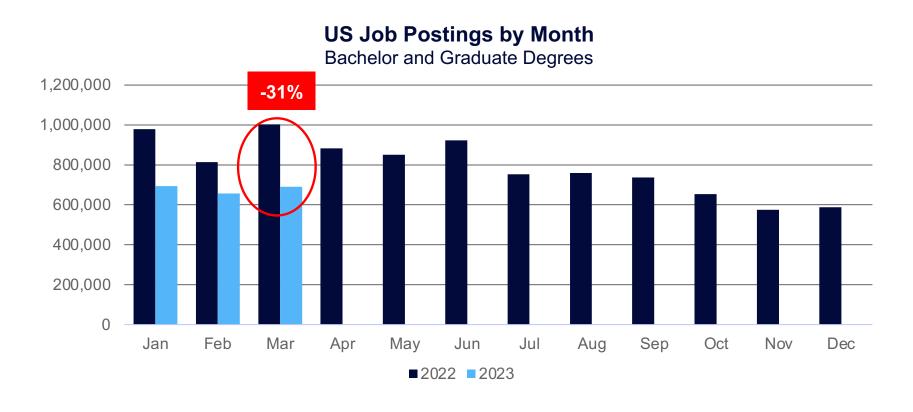
**Traditional Programs**Non-Degree Courses

**Employment: Current Indicators** 

**Program of the Month** 

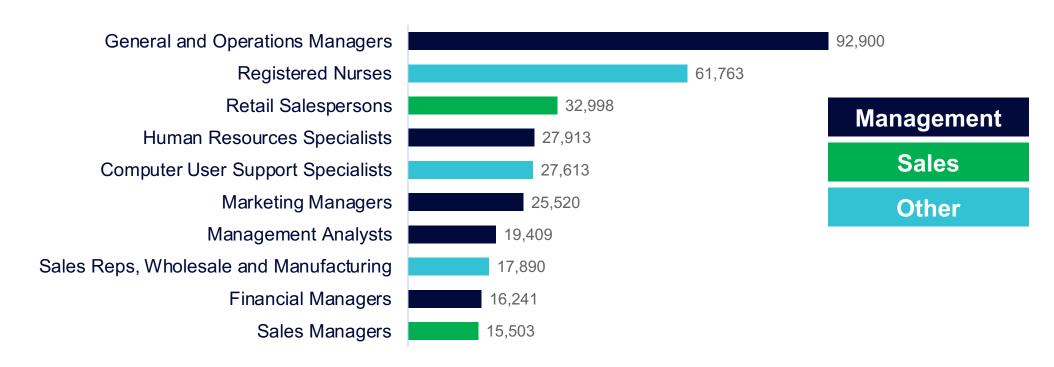
Summary

### In March, job postings for bachelor and above degree-holders fell 31% YoY.



# In March, General and Operations Managers had the highest number of job postings.

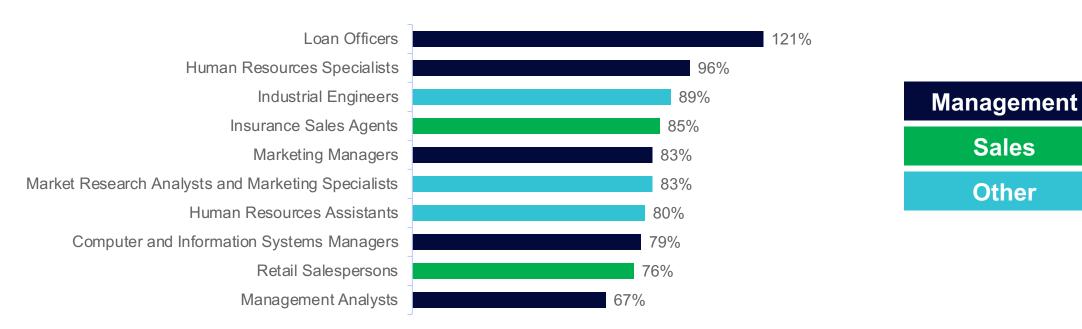
# Highest Number of Job Postings by Occupation March 2023



### In March, job postings for Loan Officers grew 121% year-over-year.\*

#### **10 Fastest-Growing Occupations**

By SOC Code, March 2023 YoY



\*Minimum 2,000 postings February 2023

# Agenda

**Student Demand** 

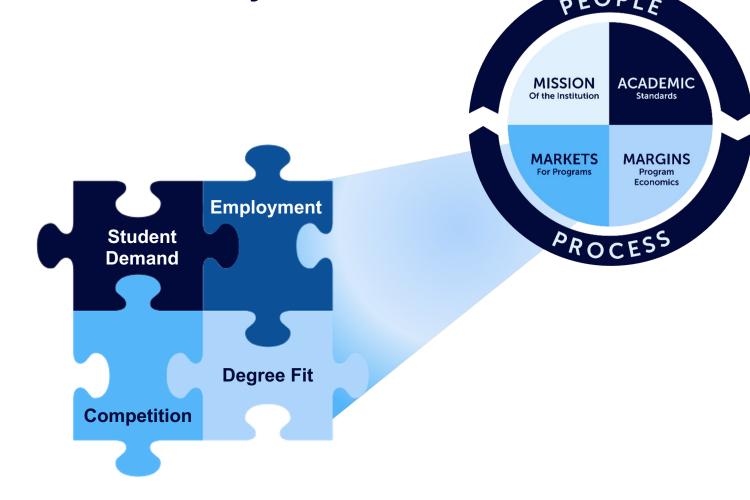
**Traditional Programs**Non-Degree Courses

**Employment: Current Indicators** 

**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 Midwest market for a Bachelor's in Psychology.

#### **Midwest Program Ranking**

Bachelor's Programs

CIP Q	Total Percentile	Student Demand Percentile	Competitive Intensity Percentile	Employment Percentile	Degree Fit Percentile
52.1001 Human Resources Management, Gen'l	97	97	5	87	50
51.0201 Communication Science, Gen'l	97	96	91	50	50
52.0901 Hospitality Admin/Mgmt, General	97	95	26	83	50
26.0908 Exercise Physiology	97	94	97	66	50
52.1201 Management Info. Systems, General	97	94	15	92	50
52.0299 Business Admin/Mgmt/ Oper., Other	97	90	21	96	50
14.4701 Electrical and Computer Eng'g	97	88	35	95	50
26.0701 Zoology/Animal Biology	97	87	98	92	50
49.0104 Aviation/ Airway Mgmt and Operations	97	87	15	99	50
26.0203 Biophysics	97	84	50	96	50
14.0803 Structural Engineering	97	78	35	98	50
42.0101 Psychology, General	96	99	11	9	50
51.0701 Health Care Admin/Mgmt	96	99	1	66	50
43.0100 Crim. Justice & Corrections, Gen'l	96	99	0	71	50
51.0000 Health Svcs/ Allied Health, Gen'l	96	98	15	25	50
40.0801 Physics, General	96	98	11	50	50
52.0213 Organizational Leadership	96	98	0	83	50
26.0202 Biochemistry	96	96	5	87	50
26.1501 Neuroscience	96	96	5	83	50
27 0501 Statistics General	96	95	R	87	50

Source: Gray's PES Markets

### **Program Scorecard: Student Demand**

# A Bachelor's in Psychology scores in the 99<sup>th</sup> percentile for Student Demand.

- This is a very large program.
  - Google search volume is in the 98<sup>th</sup> percentile.
  - All other size metrics are in the 99<sup>th</sup> percentile.

Student D	emand
Score: 34	Percentile: 99

	Catego	Pctl	Criterion	Value	Score
		98	Google Search Volume (3 Months)*	18,080	8
		99	International Page Views (12 Months)	3,037	NS
Sizo	C:	99	New Student Enrollment Volume (12 Mo.)	4,418	4
	Size	99	On-ground Completions at In-Market Institutions	6,474	12
		99	Online Completions by In-Market Students	917	4
		99	Sum of On-ground and Online Completions	7,391	3



#### **Student Demand: Growth Metrics**

#### Growth metrics are mixed.

- Google searches fell 16% year-over-year.
- Growth in new student enrollment and completions is average.

#### Student Demand Score: 34 Percentile: 99

Catego Pctl Criterion		Value	Score	
	98	Google Search Volume (3 Months)*	18,080	8
	99	International Page Views (12 Months)	3,037	NS
Size	99	New Student Enrollment Volume (12 Mo.)	4,418	4
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	99	Online Completions by In-Market Students	917	4
	99	Sum of On∙ground and Online Completions	7,391	3
	0	Google Search YoY Change (Units)*	-3,340	-1
	99	New Student Enrollment Vol. YoY Change (Units)	130	1
Growth	99	Completion Volume YoY Change (Units)	276	3
Growth	22	Google Search YoY Change (%)*	-16%	0
	62	New Student Enrollment Vol. YoY Change (%)	3%	NS
	62	Completion Volume YoY Change (%)	4%	0

Source: Gray's PES Markets

### **Program Scorecard: Employment**

In the Midwest, a Bachelor's in Psychology ranks in the 9<sup>th</sup> percentile for Employment.

#### **Direct Prep Jobs:**

- Job postings and current employment size ranks in the 84<sup>th</sup> percentile and lower.
- Historical growth is negative.
- Very low job postings per graduate.

#### **ACS Outcomes:**

 99<sup>th</sup> percentile for job postings and BLS current employment.

#### Employment\*

Score: -10 Percentile: 9

Category	Pctl	Criterion	Value	Score
	84	Job Postings Total (12 Months)*	2,521	1
Size: Direct Prep	78	BLS Current Employment*	3,806	1
	78	BLS Annual Job Openings*	342	0
Size: ACS Bach.	99	Job Postings Total (12 Months)*	27,430	NS
Outcomes	99	BLS Current Employment*	132,642	NS
G 11 (D)	33	BLS 1-Year Historical Growth*	-1.5%	-1
Growth (Direct Prep)	48	BLS 3-Year Historic Growth (CAGR)*	-0.4%	-1
гтер)	77	BLS 10-Year Future Growth (CAGR)*	1.0%	NS
Saturation	14	Job Postings per Graduate*	0.3	-1
(Direct Prep)	0	BLS Job Openings per Graduate*	0.0	-1
Wages (Direct	45	BLS 10th-Percentile Wages*	\$39,512	NS
Prep)	54	BLS Mean Wages*	\$65,385	NS
	18	Wages (Age < 30)	\$38,129	-5
	38	Wages (Age 30-60)	\$80,906	0
National American	76	% with Any Graduate Degree	50%	NS
Community	83	% with Masters	35%	NS
Survey Bachelor's Degree Outcomes	75	% with Doct/Prof Degree	15%	NS
	86	% Unemp. (Age <30)**	4%	-2
Odiconnes	73	% Unemp. (Age 30-60)**	2%	-1
	44	% in Direct Prep Jobs	5%	NS

Source: Gray's PES Markets

# Psychology: In March, Case Processors were in high demand in the Midwest.

#### **Highest Job Postings Volume, Midwest**

Bachelor's in Psychology, March 2023

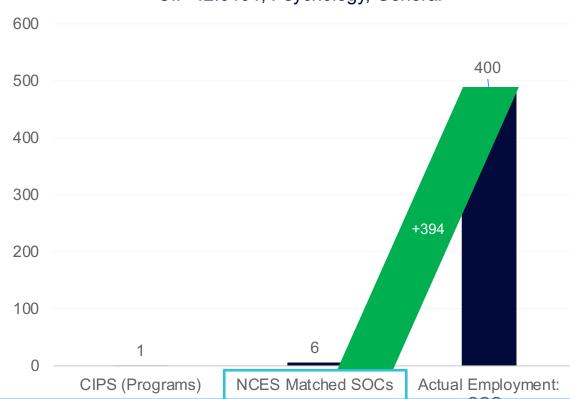


ACS Outcomes: In the Midwest, Psychology majors go into 400 SOCS and earn

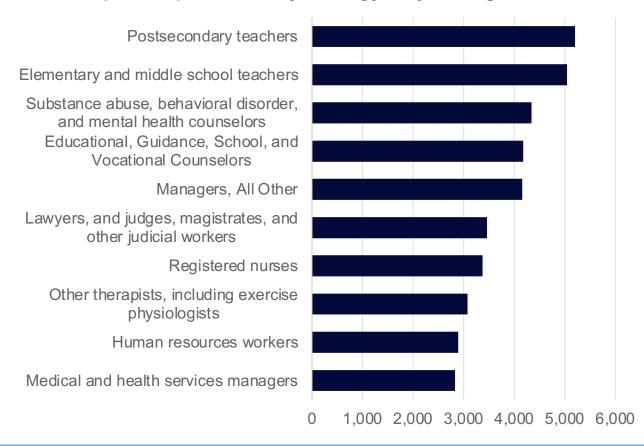
\$56,389 mid-career on average.

#### **Count of Programs and Occupations**

CIP 42.0101, Psychology, General



#### Top Occupations, Psychology Majors, Ages 30-60



### **Program Scorecard: Competitive Intensity**

#### Psychology is in the 11<sup>th</sup> percentile for Competitive Intensity.

- There are 146 campuses graduating psychology students in the Midwest.
- Midwestern students complete the program at 79 national online institutions.
- Median program size is healthy but dropped 17% year-over-year.
- Marketing costs are high.

Competit	ive Intensity
Score: -3	Percentile: 11

Category	Pctl	Criterion	Value	Score	
Volume of	99	Campuses with Graduates**	146	-4	ľ
In-Market	3	Campuses with Grads YoY Change (Units)**	-2	2	l
Competition	99	Institutions with Online In-Market Student	79	NS	l
	95	Average Program Completions	44	4	
In-Market	87	Median Program Completions	21	0	l
Program Sizes	15	YoY Median Prog. Compl. Change (Units)	-4	-1	l
	42	YoY Median Prog. Compl. Change (%)	-17%	-1	l
In-Market	98	Google Search * Cost per Click**	\$28	-3	
Saturation	85	Google Competition Index**	0.52	0	
National	99	National Online Institutions (Units)**	277	NS	
Online	84	Nat'l Online % of Institutions	19%	NS	
Competition	77	Nat'l Online % of Completions	11%	NS	

Source: Gray's PES Markets

### **Program Scorecard: Degree Fit**

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

- 91% of completions are at the bachelor's level in the Midwest.
- However, only 19% of the national workforce hold a bachelor's degree.
- Master's degrees are the most common in the workforce.

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)
Certificate	0%	1%	0%
Associates	13%	3%	15%
Bachelors	81%	91%	71%
Postbaccalaureate Certificate	0%	0%	0%
Masters	4%	4%	9%
Post-masters Certificate	0%	0%	1%
Doctoral	1%	1%	4%
Unknown	0%	0%	0%

Degree Fit:

Score: 0 Percentile: 50

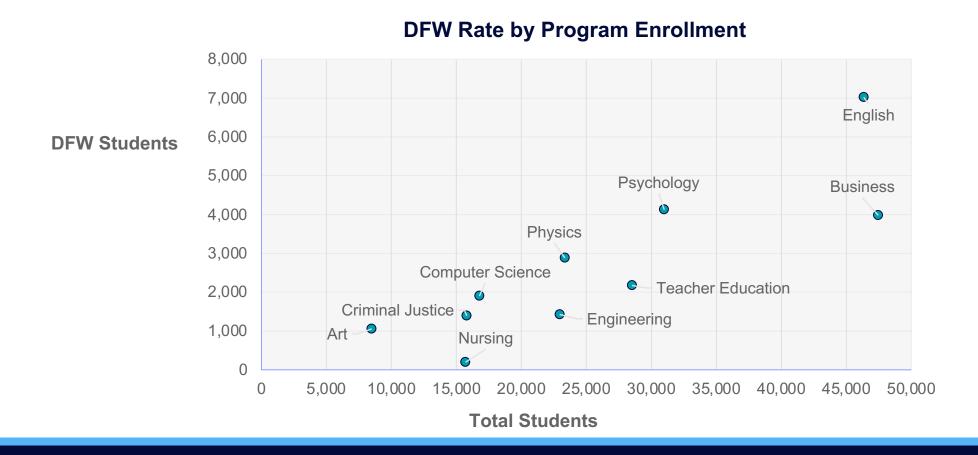
#### National Workforce Ed. Attainment

Score: 0

Award Level	BLS Educational Attainment
No College	6%
Some College	9%
Associates	5%
Bachelors	19%
Masters	34%
Doctoral	26%

Source: Gray's PES Markets

### 13% of Psychology students Drop, Fail, or Withdraw vs. an 11% average.

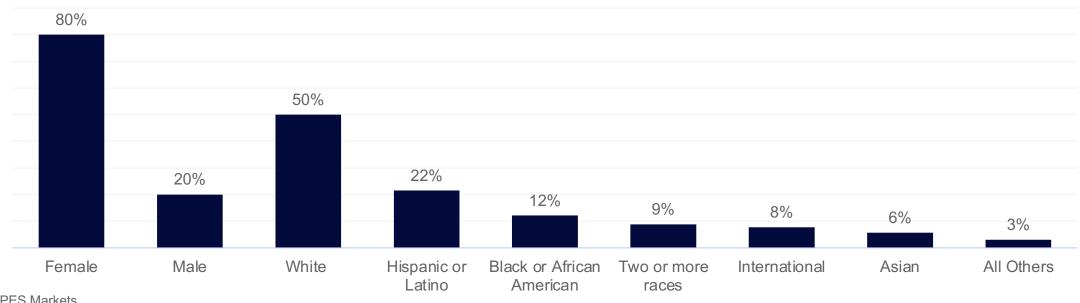


### **US** demographics: Psychology

#### In 2021, women were 80% of completions.

- 50% of 2021 completions were by white students.
- 22% were by Hispanic or Latino students.

#### **US 2021 Completions by Demographic Group**



#### CIP: 42.0101 Psychology, General

#### Student Demand Score: 34 Percentile: 99

Catego	Pctl	Criterion	Value	Score
	98	Google Search Volume (3 Months)*	18,080	8
	99	International Page Views (12 Months)	3,037	NS
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	62	Completion Volume YoY Change (%)	4%	0

#### Competitive Intensity

Score: -3 Percentile: 11

Category	Pctl	Criterion	Value	Score
Volume of	99	Campuses with Graduates**	146	-4
In-Market	3	Campuses with Grads YoY Change (Units)**	-2	2
Competition	99	Institutions with Online In-Market Students**	79	NS
In-Market	95	Average Program Completions	44	4
	87	Median Program Completions	21	0
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Online Competition	84	Nat'l Online % of Institutions	19%	NS
	77	Nat'l Online % of Completions	11%	NS

#### Market: Upper Midwest

#### Employment\*

Score: -10 Percentile: 9

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Outcomes	73	% Unemp. (Age 30-60)**	2%	-1
	44	% in Direct Prep Jobs	5%	NS

#### CIP Description:

A general program that focuses on the scientific study of individual and collective behavior, the physical and environmental bases of behavior, and the analysis and treatment of behavior problems and disorders. Includes instruction in the principles of the various subfields of psychology, research methods, and psychological assessment and testing methods.

#### Total Score: 21



Percentile: 96

#### Degree Fit:

Score: 0 Percentile: 50

Category	Pctl	Criterion	Value	Score	
NHEBI	0	Cost Index**	45%	NS	_
Natl 2 Year	98	Student: Faculty Index	1.61	NS	

#### National Completions by Level

Score: 0

Award Level	Completions (National)	Completions (Market)	Enrollment (Market)
Certificate	0%	1%	0%
Associates	13%	3%	15%
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Unknown	0%	0%	0%

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Score: 0

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Some College	9%
Associates	5%
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Masters	34%
Doctoral	26%

- Google search, employment data and Jobs Per Grad Ratio do not filter by award level.

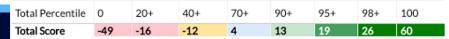
- Color scale in reverse.

- No data available/not currently tracked.

- Not Scored in Rubrics (values = 0).

- Associates & certificate programs only.

- Percentile









### Augustana New Program Feasibility and Program Review

- Moved to PES approximately three years ago (competitor had limited functionality)
  - AU has a decentralized IR department, soon to be reimagined.
  - Deans and Division Chair have access but expressed reluctance in usage.
- When dealing with new program feasibility, a deeper dive is typically required through a partnership with Gray (Fintech versus Neuroscience for example).
- Program Review offers time to reflect on the scorecard. Department Chairs/Program Directors often see this data for the first time and then connect with faculty. They receive National, Upper Midwest, and South Dakota market data as a baseline and then other reports (skills and or competitors information) upon request.
- Data largely creates a conversation about where nuances exist and where the department is headed (5year plan versus annual assessment reports).

# Agenda

**Student Demand** 

**Traditional Programs**Non-Degree Courses

**Employment: Current Indicators** 

**Program of the Month** 

Summary

### **Summary**

- Fall 2022 master's total enrollment in Data Analytics/Data Science leapt up 57% YoY.
  - Bachelor's enrollment in Data Science grew 34% the fastest of any program at the Bachelor's level.
- In February, US Google searches for academic programs increased 6% year-over-year.
  - Digital Marketing had the fastest-growth in searches.
- Total job posting volume fell 31% year-over-year.
  - Job postings for loan officers increased 121% year-over-year.
- Demand for a Bachelor's in Psychology in the Midwest is high.
  - New student enrollment is in the 99<sup>th</sup> percentile and grew 3% year-over-year.
  - Google searches are high but decreased 16% year-over-year.
  - Generalist job posting volume reached the 99<sup>th</sup> percentile.
- Augustana is tripling-down on PES usage, partially as a response to changing market conditions, and also as we enjoy a larger national presence. Early indications suggest student demand (and enrollment) for FA23 are similar to those of FA22, with some notable exceptions.

### **Upcoming Webinars**

Topic	Date
Demand Trends Webcast:	<i>Wednesday</i>
Community Colleges	May 24 <sup>th</sup> at 2 PM ET
Demand Trends Webcast:	<i>Thursday</i>
Bachelor's and Above	May 25 <sup>th</sup> at 2 PM ET

Contact:
Robert Atkins
RobertGrayAtkins.com

