College Outcomes: Using Data to Track Earnings, Retention, and Return on Investment

Jason Pontius

Iowa Board of Regents

Al suggested titles

- Policy and Postsecondary Alignment
- 1. From Data to Decisions: Advancing Higher Education Policy Through Evidence

Emphasizes the shift from raw data to actionable policy insights, with an audience of policymakers in mind.

- 2. Connecting the Dots: Using Postsecondary Data to Shape Smarter Policies
- Reflects the goal of using dual credit and workforce data to make more coherent, informed policy choices.
- 3. Turning Insight into Impact: Leveraging Data for Postsecondary Success

Captures the transformation of data into tools for improving outcomes at the individual and systems level.

Data can help answer some of the tough questions facing higher education



Why is the college going rate of high school graduates dropping?



How will my state be impacted by the enrollment cliff?



What is the impact of dual enrollment & concurrent enrollment?



Is a college degree worth the expense and debt?



Are college degrees aligned with my state's workforce needs?

Profiling six sources of data

Statewide Longitudinal Data System

BLS Bureau of Labor Statistics

NSC National Student Clearinghouse

Integrated Postsecondary Education Data System

cs College Scorecard

Census U.S. Census PSEO

Colleges Were Already Bracing for an 'Enrollment Cliff.'

Now There Might Be a Second One.

By Dan Bauman | February 7, 2024



Forbes

The Cliffs Of Higher Ed: Who's Going Over And Why?

David Rosowsky Contributor © I write about higher ed issues, leadership, finance, and innovation.





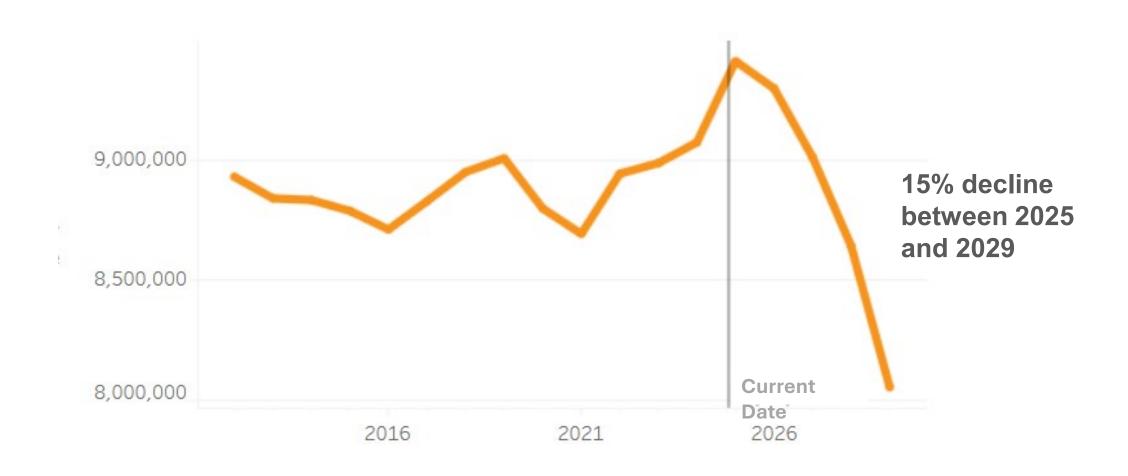


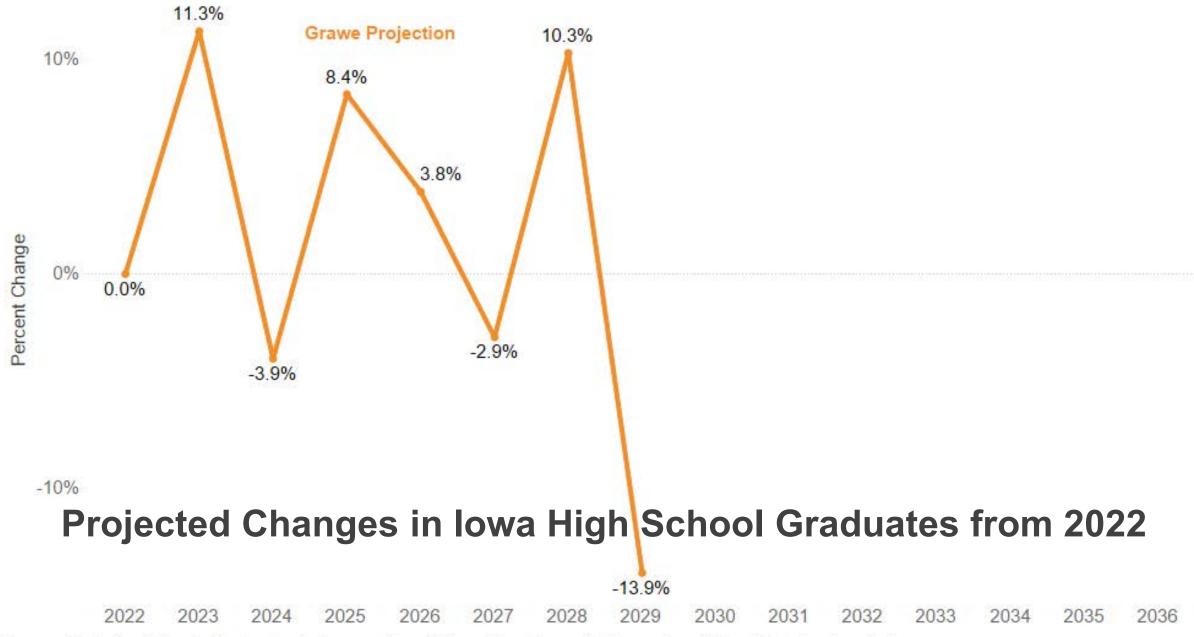
Feb 3, 2024, 01:14pm EST

Updated Feb 8, 2024, 09:36am EST

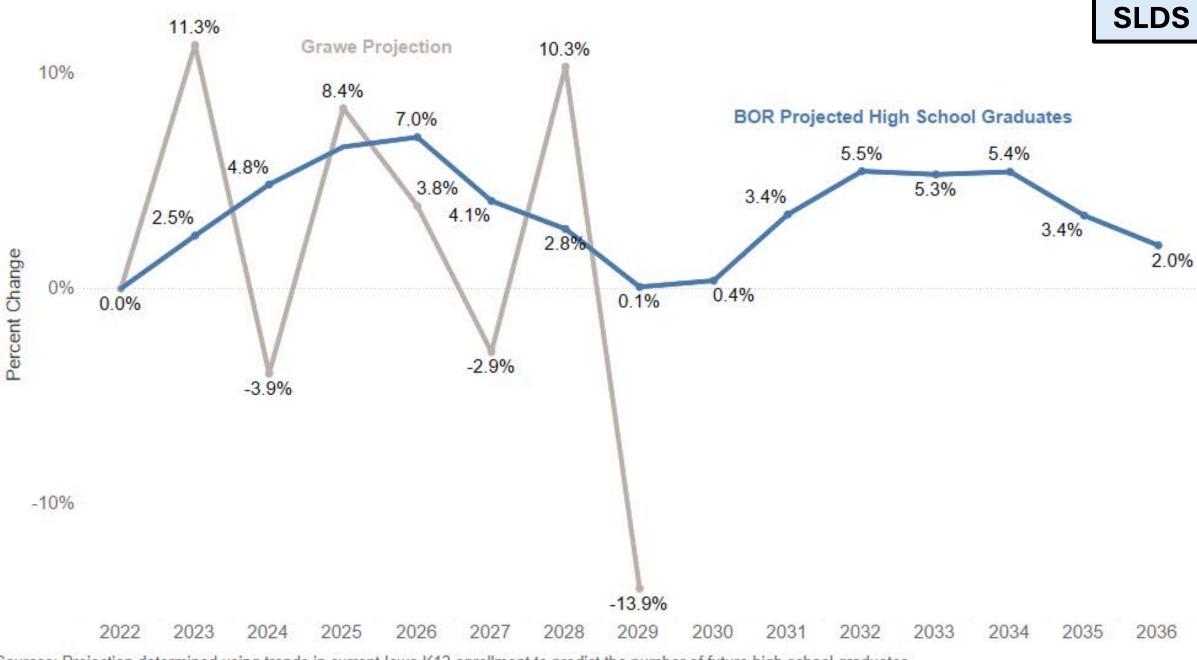


National Trend in the Number of High School Graduates

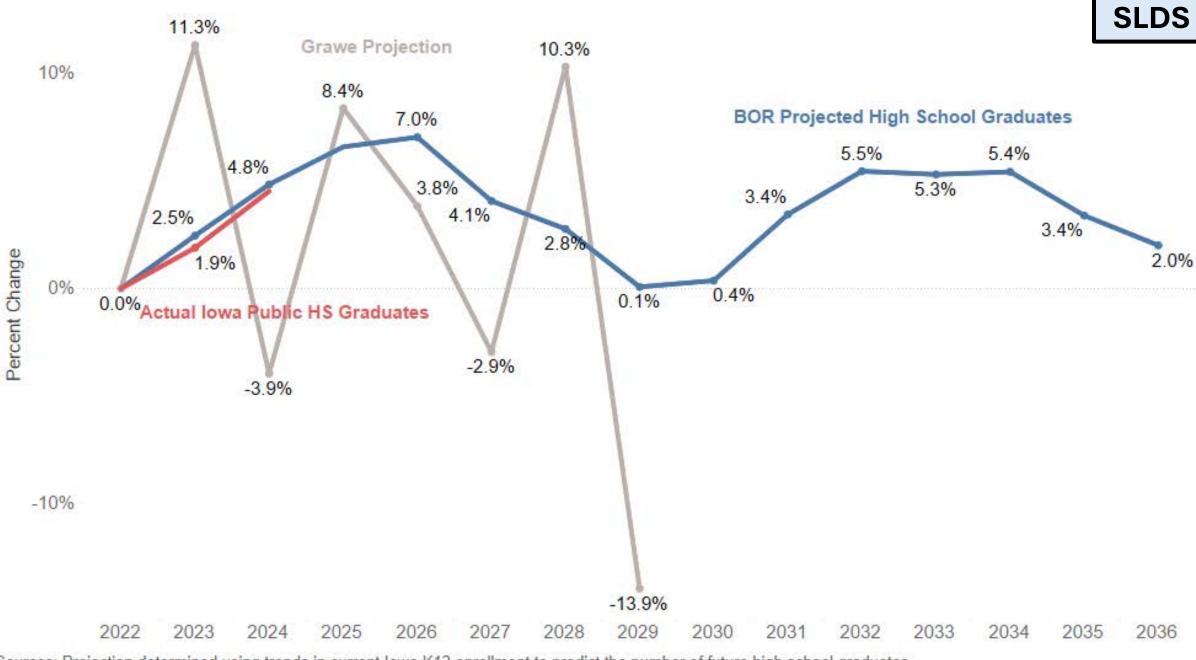




Sources: Projection determined using trends in current lowa K12 enrollment to predict the number of future high school graduates.



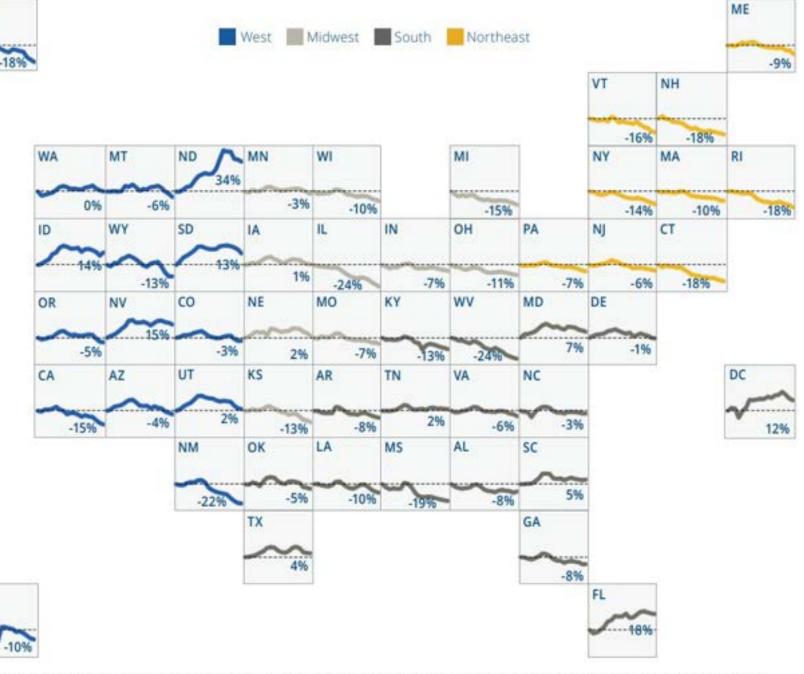
Sources: Projection determined using trends in current lowa K12 enrollment to predict the number of future high school graduates.



Sources: Projection determined using trends in current lowa K12 enrollment to predict the number of future high school graduates.

WICHE:
Predicted
change in
high
school
graduates
by state

2019 - 2037



Source: Western Interstate Commission for Higher Education, Knocking at the College Door, 10th edition, 2020. WICHE projections and analysis.

Note: The percent change listed in each box represents the projected change in graduates from 2019 to 2037.



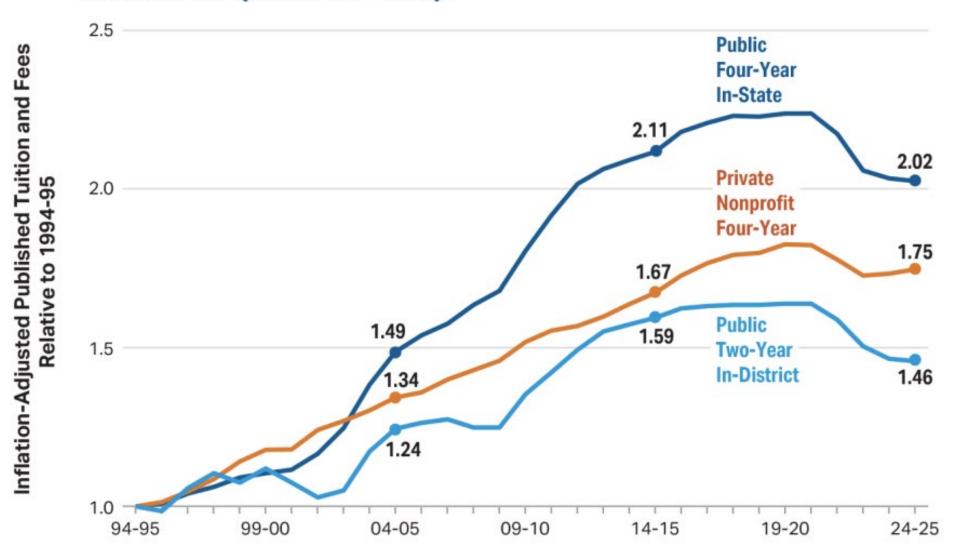
Why is the college-going rate of high school graduates dropping?

Percent and Number of Iowa Public HS Graduates Enrolled in College Within One Year of HS Graduation



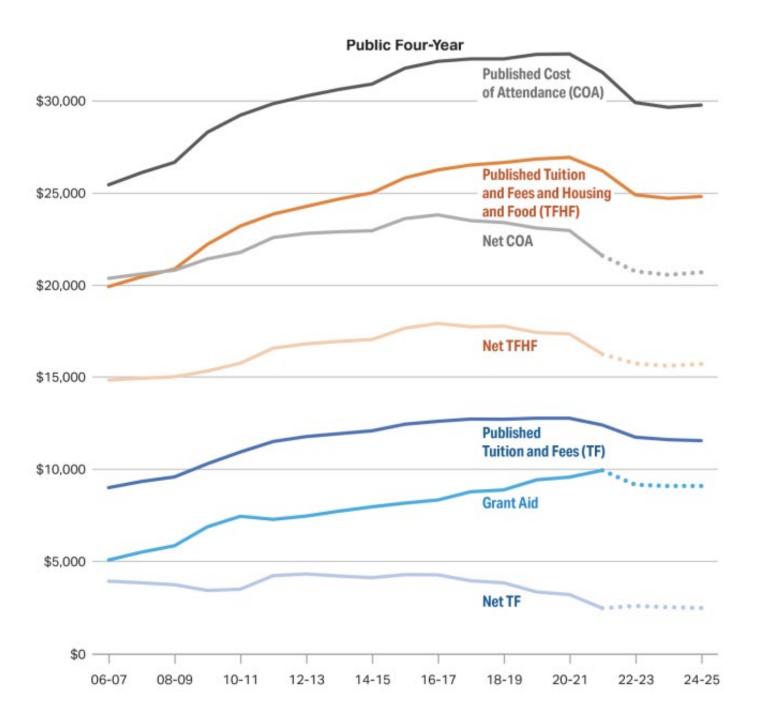
Class of 2017 Class of 2018 Class of 2019 Class of 2020 Class of 2021 Class of 2022

Inflation-Adjusted Published Tuition and Fees (Enrollment-Weighted) Relative to 1994-95, 1994-95 to 2024-25 (1994-95 = 1.0)



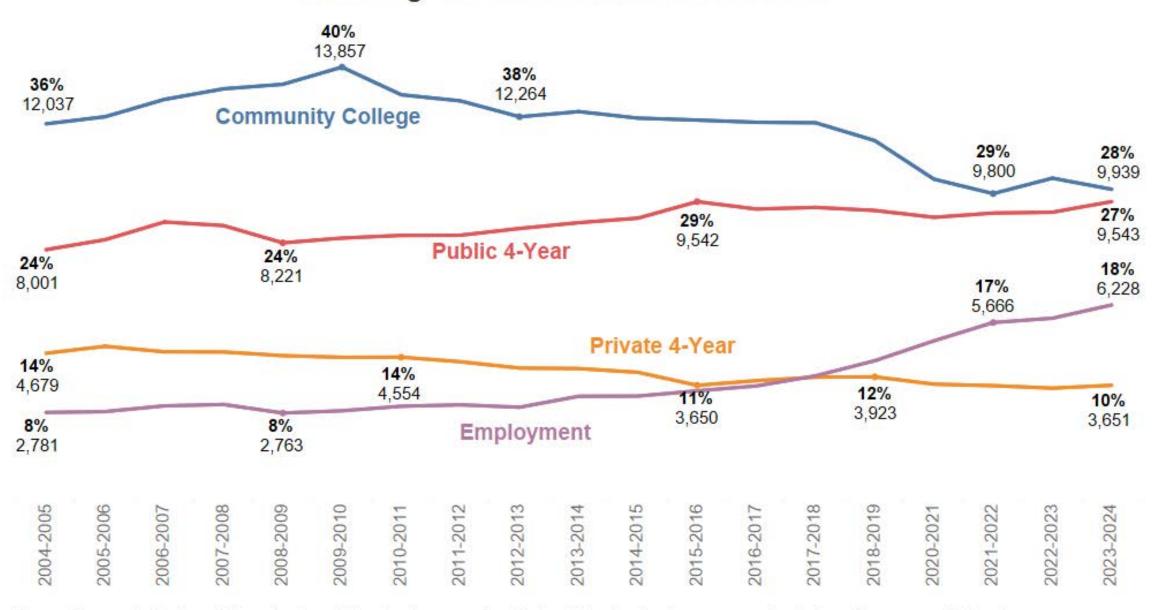
College Board, Trends in College Pricing and Student Aid 2024, Figure CP-3

Average Published and Net Prices in 2024 Dollars, First-Time Full-Time In-State Undergraduate Students at Public Four-Year Institutions, 2006-07 to 2024-25





lowa High School Post-Graduation Intent



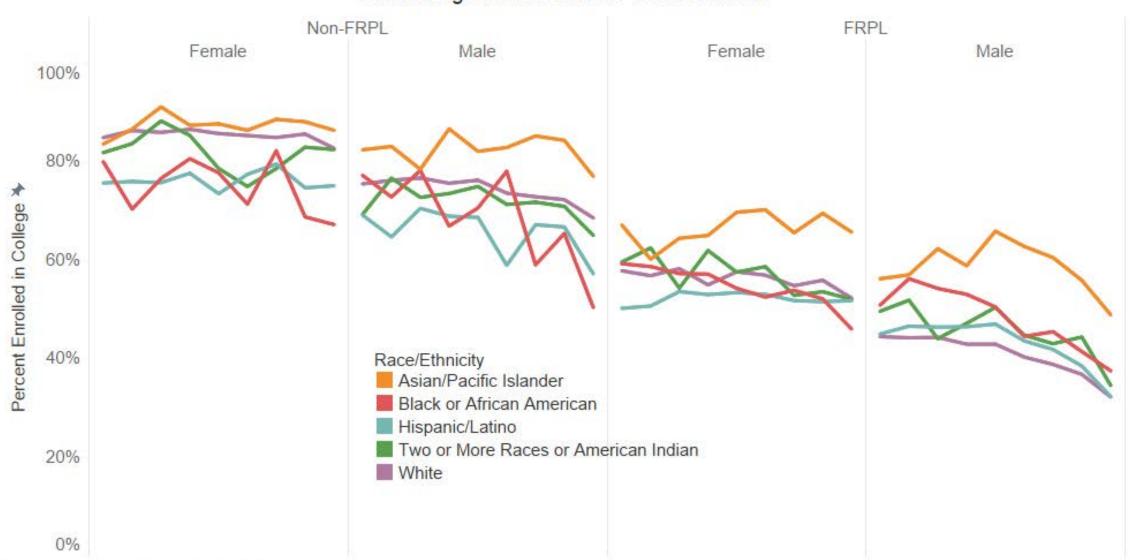
Source: Post graduation intent is based on lowa high school surveys of graduating high school seniors as reported to the lowa Department of Education.



College Enrollment within One Year of Graduating from an Iowa High School

by Race/Ethnicity, Gender, and Free or Reduced-Price Lunch Eligibility

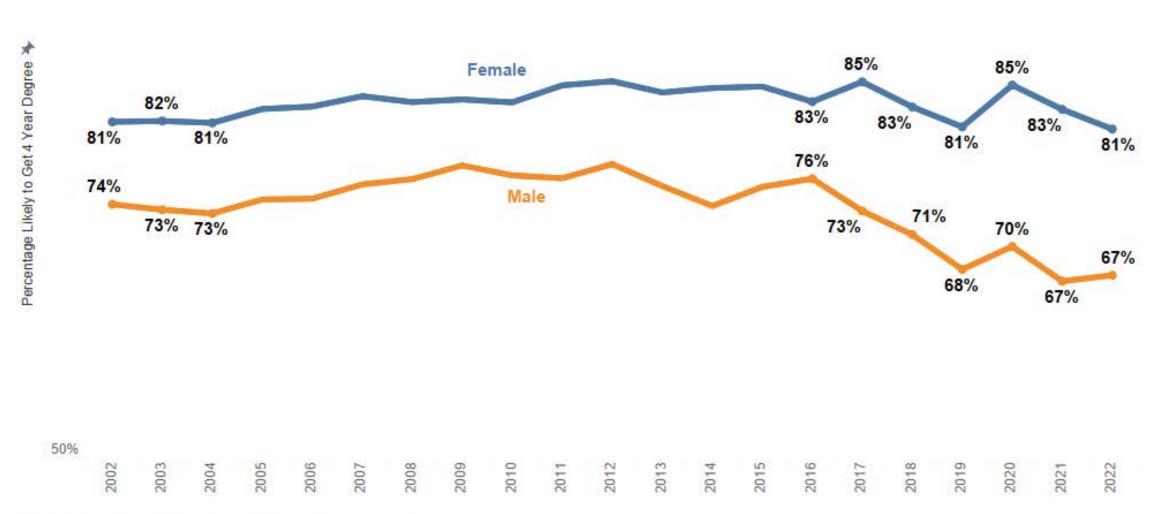
Graduating Classes of 2011-12 to 2019-20



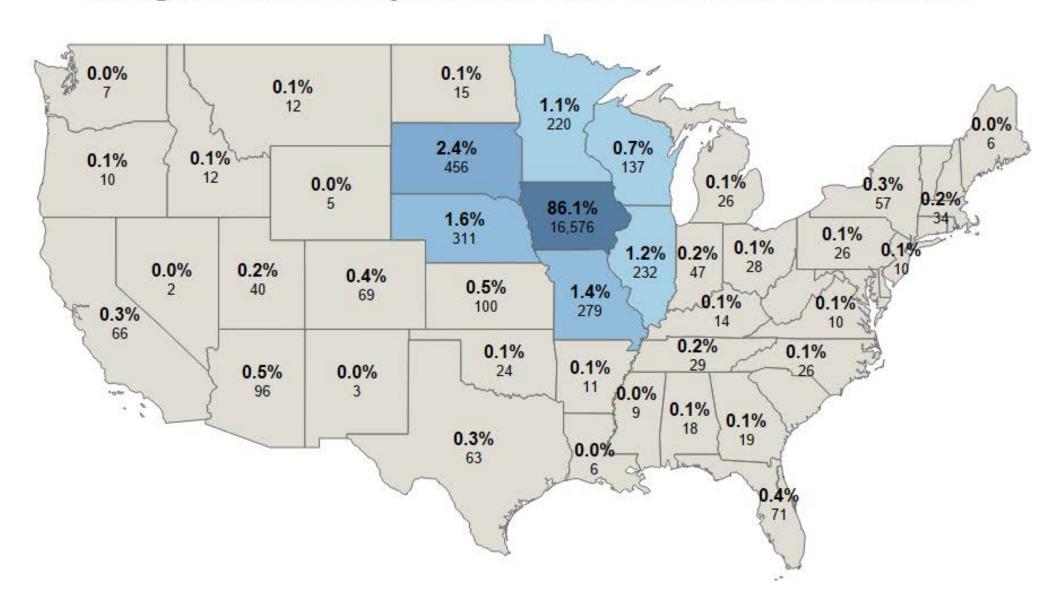
Source: Iowa Statewide Longitudinal System

12th Graders Very Likely or Somewhat Likely to Pursue a 4-year Degree

100%



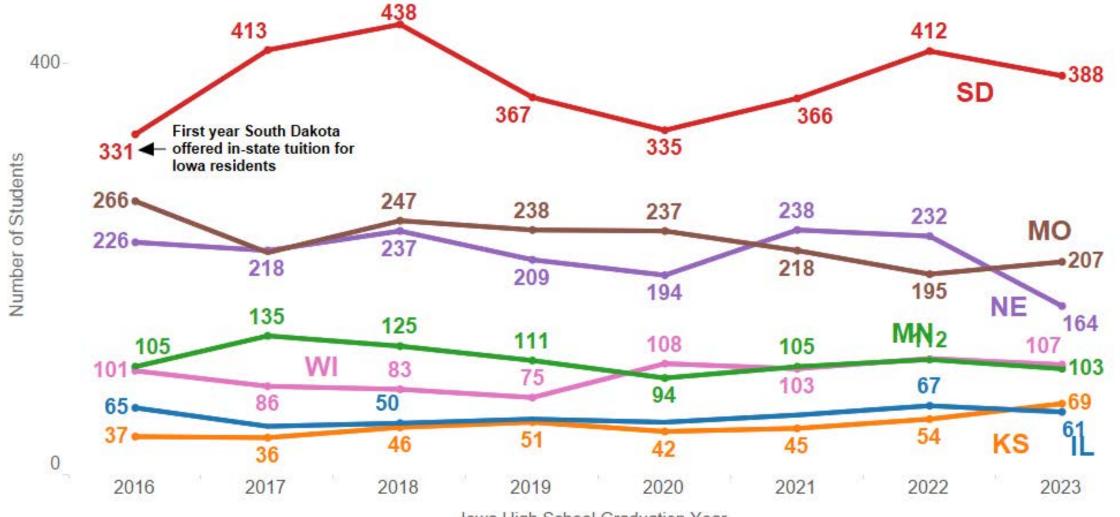
College Destination by State for 2022-2023 lowa HS Graduates





Iowa High School Graduates Attending a 4-Year Public University in Another State





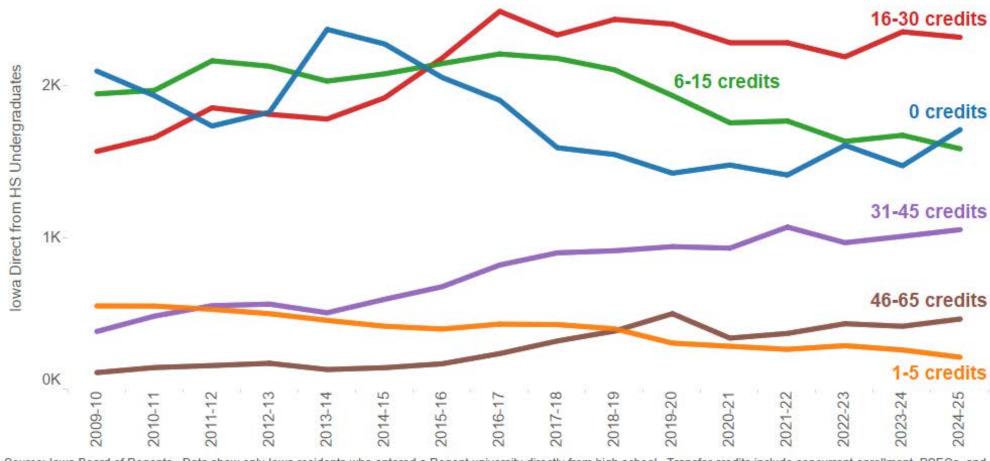
Iowa High School Graduation Year



Dual Enrollment

Number of Iowa Resident Direct from High School Undergraduates Who Transfer 10+ or 20+ credit hours into a Regent University

(2009-10 to 2024-25 Entry Cohorts)



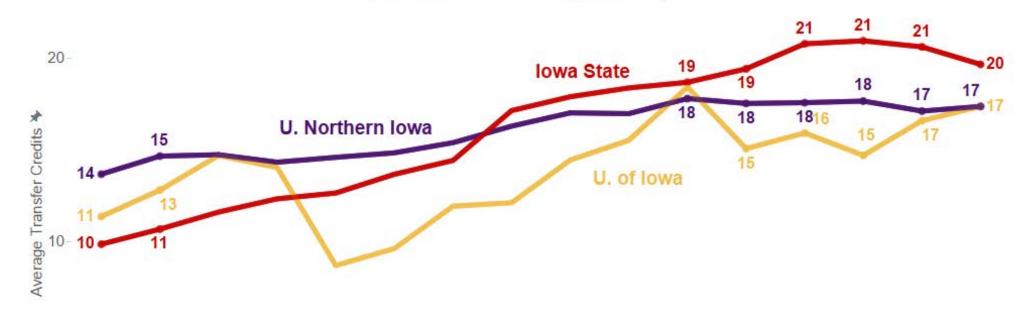
Source: Iowa Board of Regents. Data show only Iowa residents who entered a Regent university directly from high school. Transfer credits include concurrent enrollment, PSEOs, and AP/IB credit.



Dual Enrollment

Average Credits Transferred into a Regent University by Direct from High School Iowa Resident Undergraduates

(2009-10 - 2024-25 Entry Cohorts)



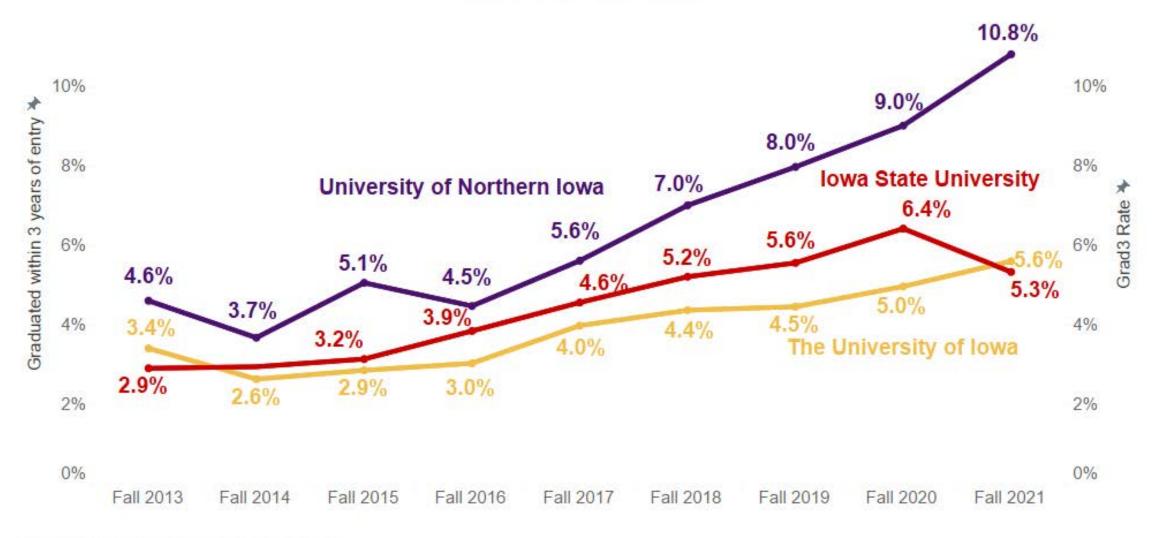


Source: Iowa Board of Regents

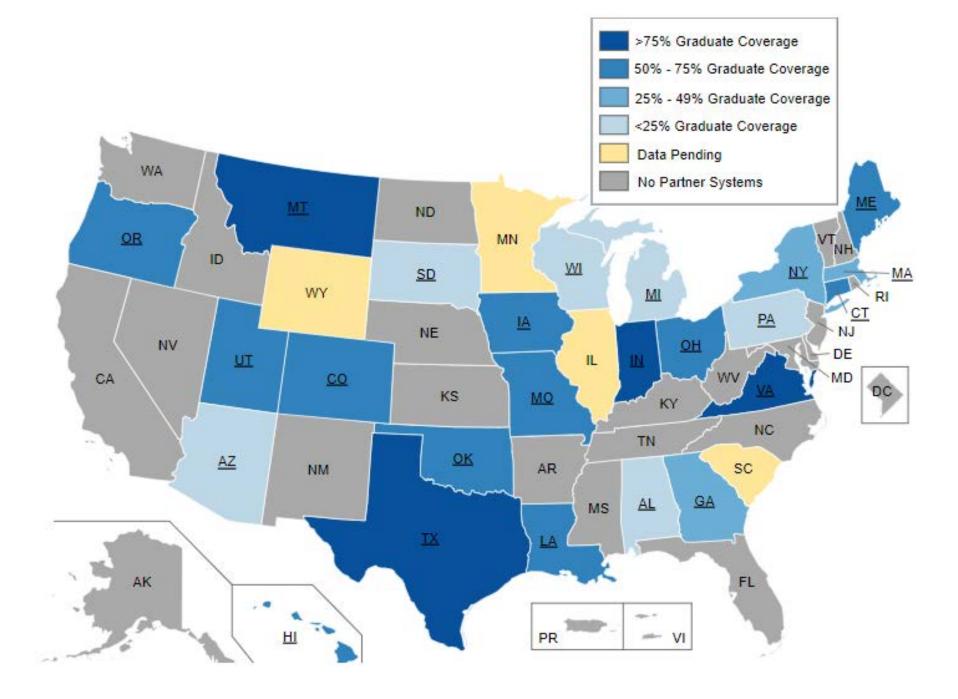


Percent of Undergraduates Who Graduate Within Three Years

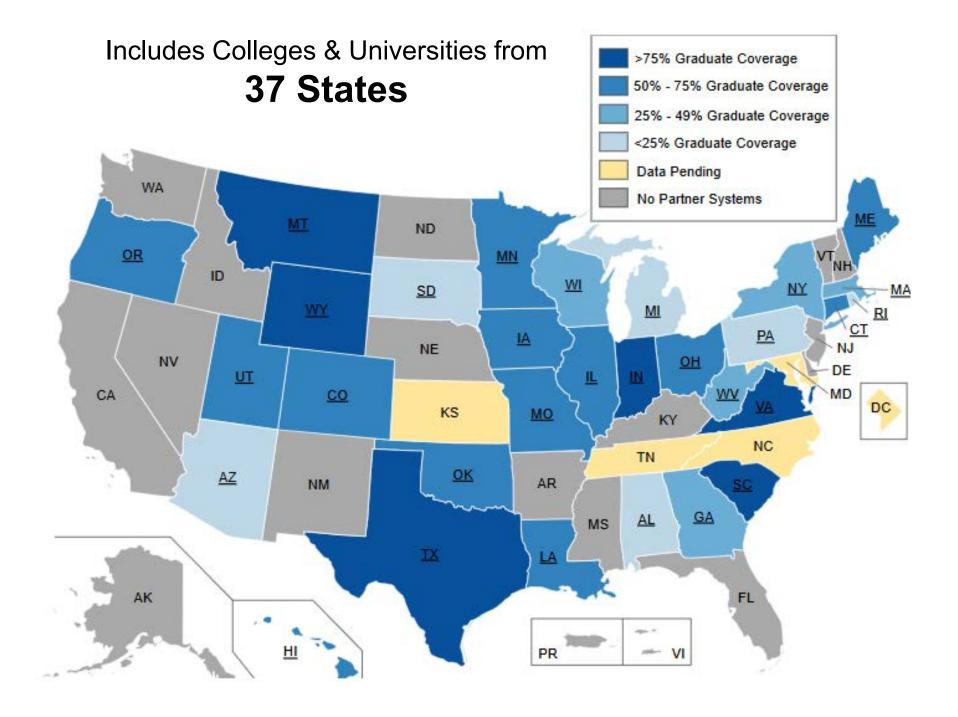
By Regent University



U.S. Census
Bureau's
PostSecondary
Employment
Outcomes
(PSEO)

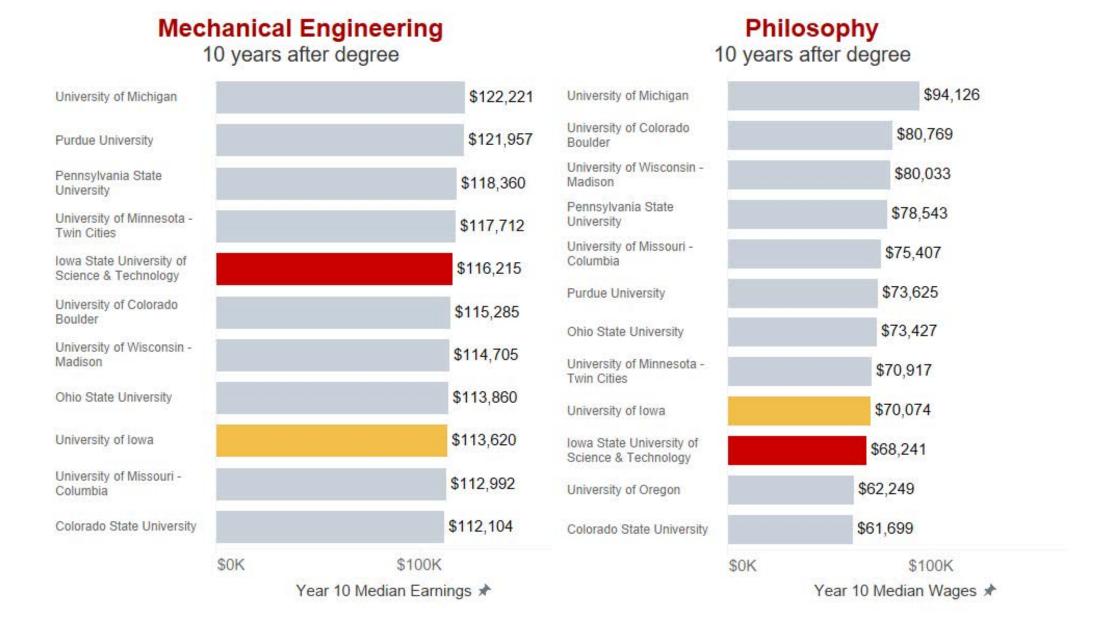


U.S. Census
Bureau's
PostSecondary
Employment
Outcomes
(PSEO)



Census

Median Earnings 10-years after Degree

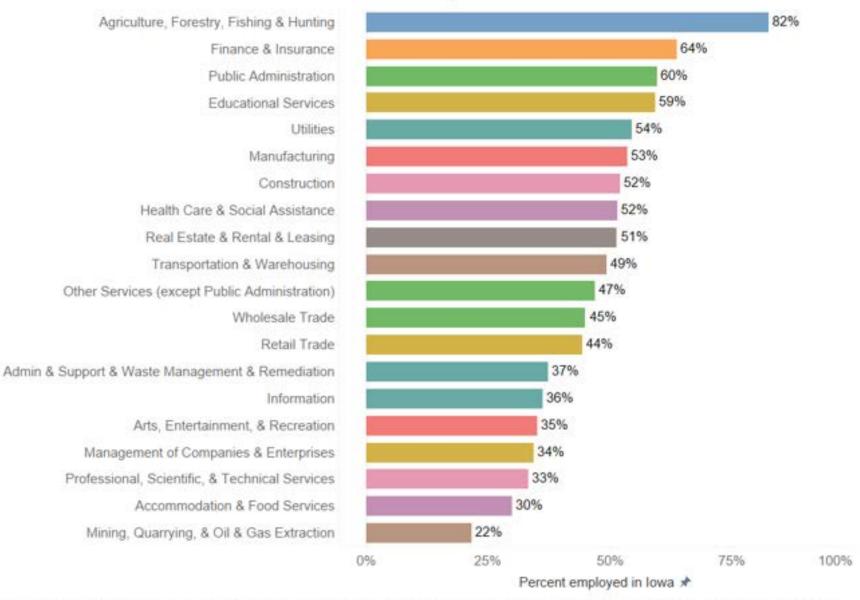


Iowa Industry Retention of Regent Graduates after 10 years

Census

Bachelor's degrees



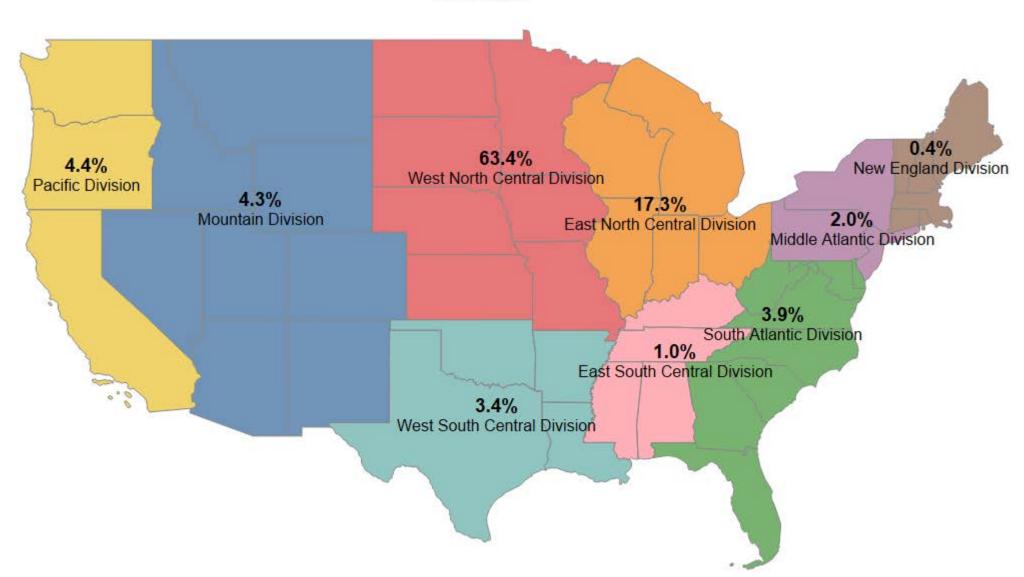


Source: U.S. Census Bureau matching of Unemployment Insurance Wage data for 47 U.S. States (excluding Alaska, Arkansas, and Mississippi). Employment only for full-time employed graduates making at least minimum wage. Self-employed, stay at home parents, and public officials not shown. Blank cells indicate suppression due to small cell size.



Location of Regent University All Instructional Programs Degree Recipients Employed Five Years after Graduation

All Cohorts



Aligning Majors to Occupations: CIP to SOC

		Projected lowa Job Openings, Annual	Projected Annual Job Growth in Iowa	Median Salary in Iowa	Projected U.S. Job Openings, Annual	Projected Annual Growth Rate in U.S.	Median Salary in F U.S.
	Architectural and Engineering Managers	145	0.8%	\$139,166	1,500	0.6%	\$165,370
Bachelor's	Mechanical Engineers	360	1.5%	\$97,120	1,980	1.1%	\$99,510
	Cost Estimators	205	0.3%	\$67,624	1,800	-0.4%	\$74,740
Doctoral/Prof.	Engineering Teachers, Postsecondary	50	1.6%	\$135,266	420	0.9%	\$106,910

	Projected Iowa Job Openings, Annual	Projected Annual Job Growth in Iowa	Median Salary in Iowa	Projected U.S. Job Openings, Annual	Projected Annual Growth Rate in U.S.	Median Salary in U.S.
Doctoral/Prof. Philosophy and Religion Teachers, Postsecondary	30	0.9%	\$75,652	200	0.2%	\$79,930

U.S. Census Bureau American Community Survey (ACS) Iowa PUMS

Occupations & Industries for Iowans with a bachelor's degree in Philosophy & Religious Studies

Philosophy & Religious Studies

Occupation	Industry	
BUS-Compliance Officers	FIN-Securities, Commodities, Funds, Trusts	\$65,000
BUS-Human Resources Workers	FIN-Securities, Commodities, Funds, Trusts	\$80,000
BUS-Management Analysts	PRF-Management, Scientific, & Technical Consulting	\$160,000
CMM-Computer Systems Analysts	RET-Supermarkets & Other Grocery Stores	\$94,000
CMM-Network & Computer Systems Administrators	ADM-Justice, Public Order, & Safety Activities	\$111,000
CMM-Web Developers	INF-Periodical, Book, & Directory Publishers	\$160,000
CMS-Clergy	SRV-Religious Organizations	\$47,466
CMS-Directors, Religious Activities & Education	SRV-Religious Organizations	\$74,667
CMS-Other Community & Social Service Specialists	SCA-Individual & Family Services	\$40,000
CMS-Probation Officers & Correctional Treatment	ADM-Justice, Public Order, & Safety Activities	\$87,000
CMS-Religious Workers, All Other	SRV-Religious Organizations	\$5,000
CMS-Social & Human Service Assistants	SCA-Individual & Family Services	\$20,000
EDU-Archivists, Curators, & Museum Technicians	ENT-Museums, Art Galleries, Historical Sites, & Similar	\$45,000
EDU-Elementary & Middle School Teachers	EDU-Elementary & Secondary Schools	\$31,974
EDU-Other Teachers and Instructors	EDU-Elementary & Secondary Schools	\$95,000
EDU-Secondary School Teachers	EDU-Elementary & Secondary Schools	\$55,750
EDU-Special Education Teachers	EDU-Elementary & Secondary Schools	\$38,400
ENT-Editors	INF-Broadcasting (Except Internet)	\$123,000
FIN-Credit Counselors & Loan Officers	ADM-Administration of Economic Programs	\$67,000
FIN-Property Appraisers & Assessors	FIN-Real Estate Property Managers	\$120,000
LGL-Lawyers, & Judges & Magistrates	ADM-Justice, Public Order, & Safety Activities	\$65,000
	PRF-Legal Services	\$36,667
MED-Dietetic Technicians & Ophthalmic Technicians	MED-General Medical & Surgical Hospitals	\$27,000
MED-Pharmacists	MED-General Medical & Surgical Hospitals	\$16,000
MED-Physicians	MED-General Medical & Surgical Hospitals	\$263,000
	MED-Outpatient Care Centers	\$117,000
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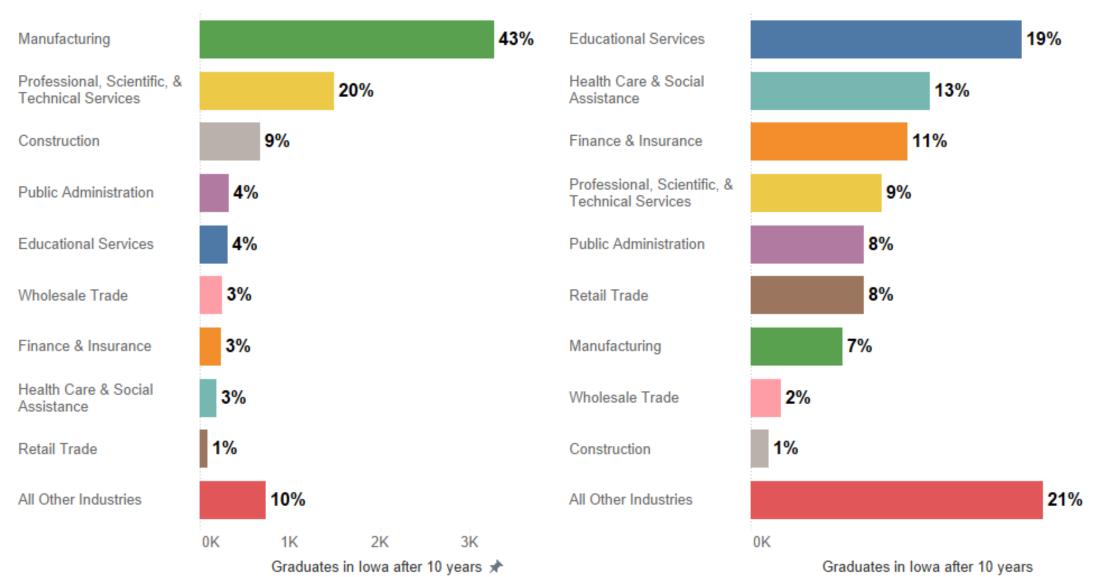
Census



Graduate Counts

Iowa Industries Employing Graduates in Philosophy & Religious Studies

Graduate Counts



ROI: Georgetown Center for Education & the Workplace

10-year ROI = year 6 earnings + year 7 earnings + year 8 earnings + year 9 earnings + year 10 earnings - average net price x 5

		Georgetown ROI 5 years after degree	Georgetown ROI 10 years after degree	Georgetown ROI 15 years after degree
Mechanical	Iowa State University	\$331,208	\$864,719	\$1,517,134
Engineering	University of Iowa	\$315,709	\$840,641	\$1,473,481
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	Iowa State University	\$127,083	\$433,970	\$826,641
Philosophy	phy University of Iowa	\$117,866	\$433,368	\$836,028
	University of Northern Iowa	\$130,614	\$388,999	\$708,459

U. of Texas System: Minimum Economic Return

		Median Income Hs Graduate	Annual Loan Payment	Minimum Economic Return Threshold	Earnings 1 Year after Degree	Earnings 5 Years after Degree	Years after degree to reach Minimum Economic Return
Mechanical Engineering	Iowa State University	32,041	\$10,173	\$42,214	\$70,593	\$92,434	1
	University of Iowa	32,041	\$11,714	\$43,755	\$69,416	\$92,038	1
		Median Income Hs Graduate	Annual Loan Payment	Minimum Economic Return Threshold	Earnings 1 Year after Degree	Earnings 5 Years after Degree	Years after degree to reach Minimum Economic Return
Philosophy	Iowa State University	32,041	\$10,126	\$42,167	\$30,153	\$51,084	4
	University of Iowa	32,041	\$11,741	\$43,782	\$29,757	\$52,642	4
	University of Northern Iowa	32,041	\$8,914	\$40,955	\$34,661	\$44,348	4

Reports

Board of Regents Reports

Postsecondary Readiness Reports

Community College Transfer Report

Wages and Outcomes

Economic Impact Reports FY 2021-22

County-By-County Impact

Recent Alumni Career Outcomes

Wages and Outcomes

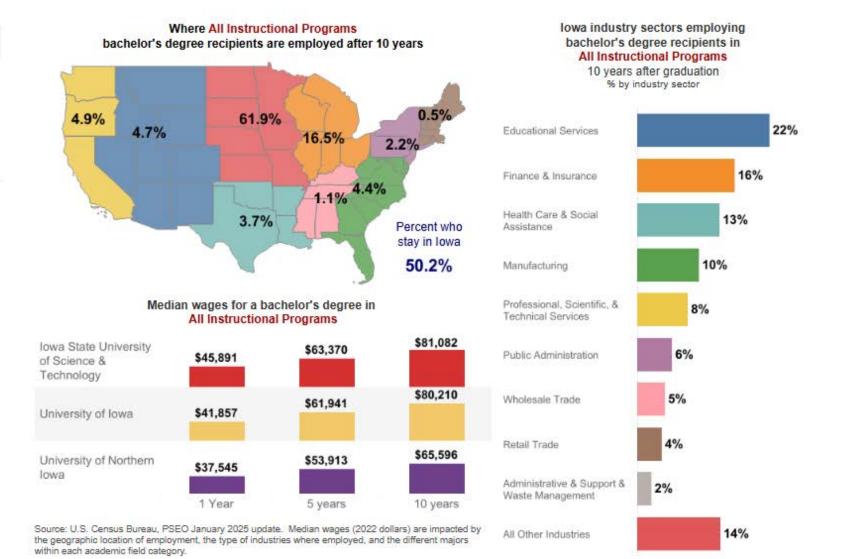
Wages and Outcomes - Regents 101 Video Series



Wages, Industry, and Geography

by Field of Bachelor's Degree for 2001-2021 Regent University Graduates

Census



Regent University University of Iowa

Program of Study

All Instructional Programs

Graduation Cohorts

All Cohorts

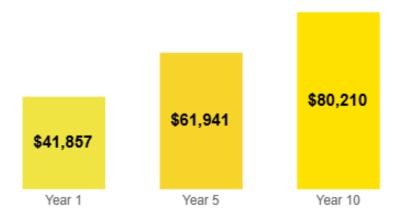


University of Iowa

All Instructional Programs

Median Income by Year after Graduation

Census



Wages are impacted by many factors including job geographic location and industry.

Percent of Graduates with Federal Loan Debt

41.0%

Federal Student Loan Debt upon Graduation

\$22,500*

Typical Monthly Federal Student Loan Payment

\$239*

10 years of the Bachelor's Degree

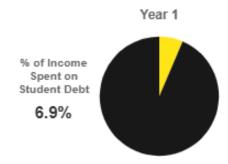
NSC

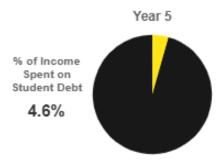
CS

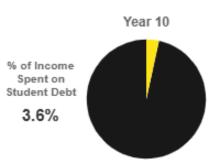


Percent Earning a Master's or Doctoral Degree within

29.6%







Questions?