

Presentation to the Oklahoma Council on Student Affairs

Economic Importance of Higher Education in Oklahoma



November 10, 2011

Higher Education Impacts the Oklahoma Economy

- The Oklahoma State Regents for Higher Education (OSRHE) contracted with Regional Economic Models, Inc. (REMI) to analyze the economic contribution of higher education on Oklahoma. The results of this analysis demonstrate the state's economic dependence upon higher education and, more specifically, its graduates.

Higher Education Impacts the Oklahoma Economy

- Higher Education's large contribution over time results in small investments in the present yielding large returns in the future. For example, in the first analysis year, \$1.099 billion of state higher education funding results in \$6.76 billion of economic activity. In other words, one dollar from the state enables \$5.15 of additional economic activity that is directly attributable to the activities linked to the institutions of higher education. Furthermore, that initial investment of one dollar yields \$27.07 over the analysis period as the effects of graduate earnings and productivity make their mark on the economy.

EDUCATION AND TRAINING PAY

15%

10%

5%

0

0

20

40

60

80

100

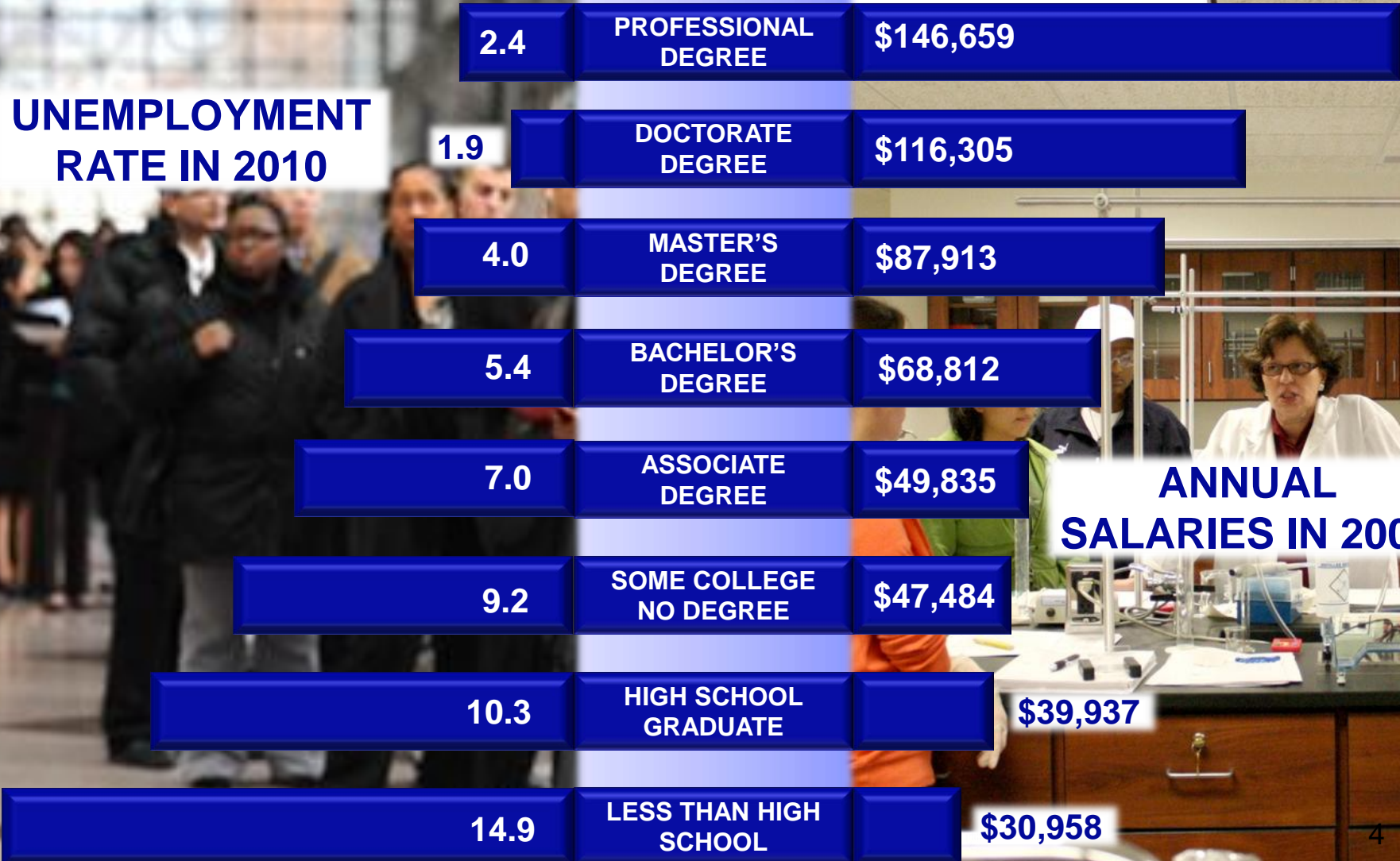
120

140

160

**UNEMPLOYMENT
RATE IN 2010**

1.9



**ANNUAL
SALARIES IN 2009**

The Impact of Education on Individuals: Lifetime Earnings

Education Level	Estimated Lifetime Earnings	Difference Compared to High School Graduate
Less than 9th grade	\$976,350	-\$478,903
High school dropout	1,150,698	-304,555
High school graduate	1,455,253	0
Some college, no degree	1,725,822	270,569
Associate degree	1,801,373	346,120
Bachelor's degree	\$2,567,174	\$1,111,921
Master's degree	2,963,076	1,507,823
Doctorate	3,982,577	2,527,324
Professional degree	5,254,193	3,798,940

2010 Average Salaries by Field of Study after 1 Year

Engineering - \$42,021

Health Professions - \$36,384

Engineering Technologies - \$34,191

Computer Sciences - \$33,054

Education - \$32,629

Personal/Culinary Services - \$29,640

Business Management/Marketing - \$27,219

Architecture - \$25,241

Protective Services - \$24,599

Mechanics and Repairers - \$24,596

Liberal Arts - \$24,221

Physical Sciences - \$23,658

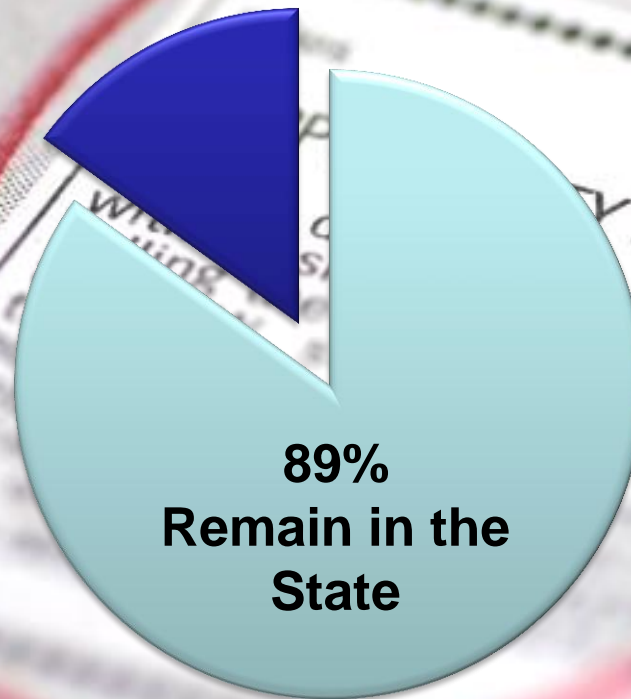
Mathematics - \$21,756

Source: 2011 Employment Outcomes Report and the Oklahoma Employment and Security Commission

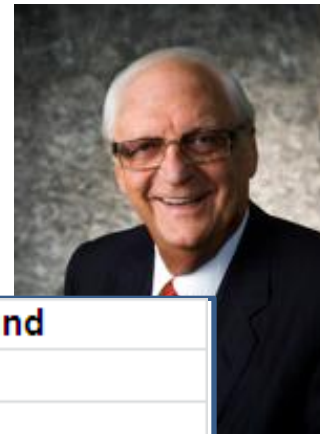
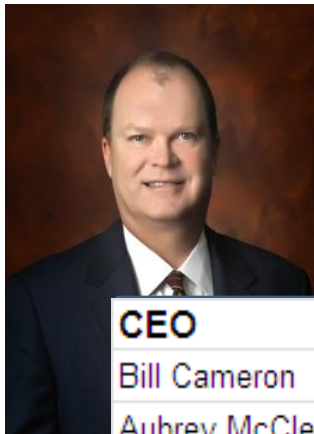


Employment Outcomes After One Year

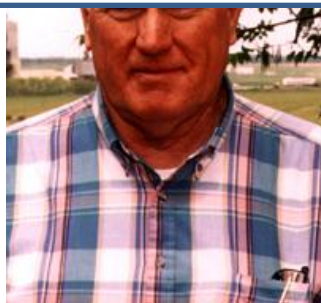
Percent of Oklahoma Residents Who Graduate with a Bachelor's Degree Remain In the State and are Employed In the State One Year After Graduation



2008-09 Bachelor's Degrees Field of Study	% Employed in OK	% Not Employed in OK	# Grads
Transport. & Materials Moving	68%	32%	104
Foreign Languages	74%	26%	121
Engineering	74%	26%	587
Area & Ethnic Studies	75%	25%	32
Physical Sciences	76%	24%	190
Architecture	76%	24%	108
Communications	76%	24%	946
Multi/Interdisciplinary Studies	77%	23%	141
Mathematics	77%	23%	103
Liberal Arts/General Studies	78%	22%	1,151
History	78%	22%	211
Recreation & Fitness	78%	22%	343
Engineering Technologies	78%	22%	344
Agriculture	79%	21%	348
Philosophy & Religion	79%	21%	43
Biological Sciences	80%	20%	886
Personal Culinary Serv	80%	20%	20
Social Sciences	80%	20%	890
Business, Mgmt, & Marketing	80%	20%	3,270
Computer & Info. Sciences	82%	18%	173
English/Letters	82%	18%	271
Visual & Performing Arts	82%	18%	534
Psychology	82%	18%	676
Health Professions	83%	17%	1,213
Family & Consumer Sci	83%	17%	438
Protective Services	85%	15%	314
Mechanics and Repairers	85%	15%	27
Public Admin & Social Serv	87%	13%	205
Renewable Natural Resources	88%	12%	25
Education	91%	9%	1,696

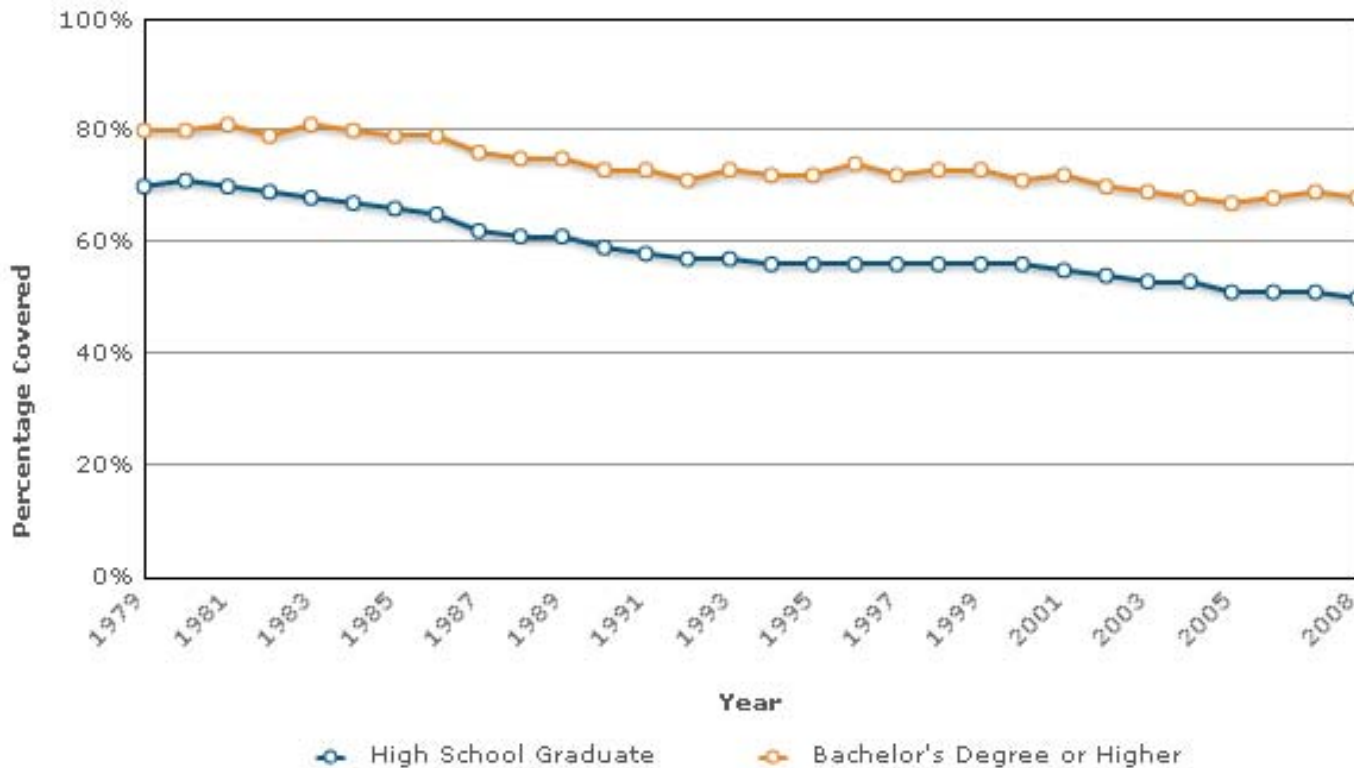


CEO	Company	Undergraduate Educational Background
Bill Cameron	American Fidelity	B.A. History Dartmouth
Aubrey McClendon	Chesapeake Energy	B.A. History Duke
Larry Nichols	Devon Energy	B.S. Geology Princeton
Clifford Hudson	Sonic Corporation	B.A. History
Bob Funk	Express Personnel	B.A. Theology Seattle Pacific U.
George Kaiser	Bank of Oklahoma	A.B. Harvard
Brig. Gen. Lori Robinson	Tinker Air Force Base	B.A. English, Univ. Of New Hampshire
Maj. Gen. David Halverson	Fort Sill	B.S. West Point
Gerard Arpey	American Airlines	BBA Texas Tech University
Jake Henry Jr.	St. Francis Hospital	B.S. Texas Tech
Bill Braums	Braums	BBA Univ. of Kansas
Bruce Lawrence	Integrus Health Systems	B.S. Biology Univ. of Arkansas
Gregory Lippert	Mazzios	B.A. DePauw Univ.



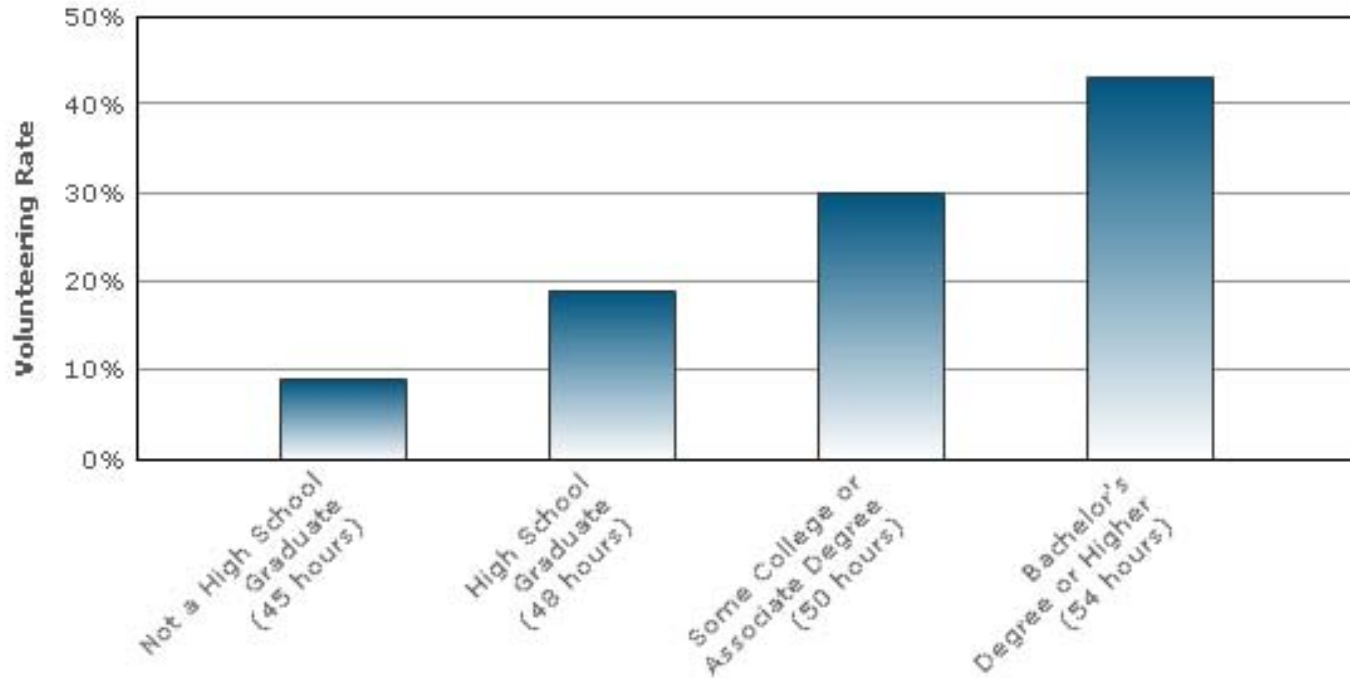
College Graduates Are More Likely to Have Health Insurance

Figure 1.13: Employer-Provided Health Insurance Coverage Among Private Sector Workers Ages 18 to 64 Working at Least Half-Time, by Education Level, 1979–2008



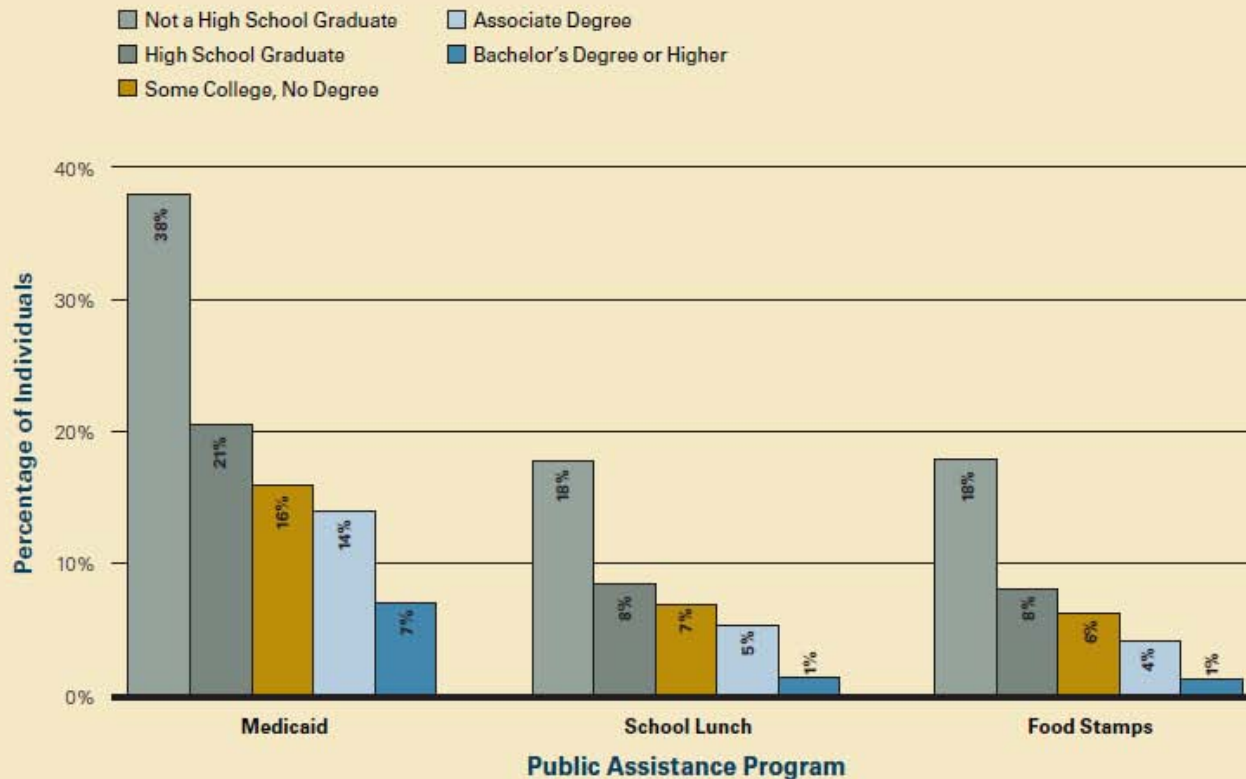
College Graduates Are More Likely to Volunteer

Figure 1.21: Volunteering Rates Among Individuals Ages 25 and Older and Median Number of Hours Volunteered, by Education Level, 2009

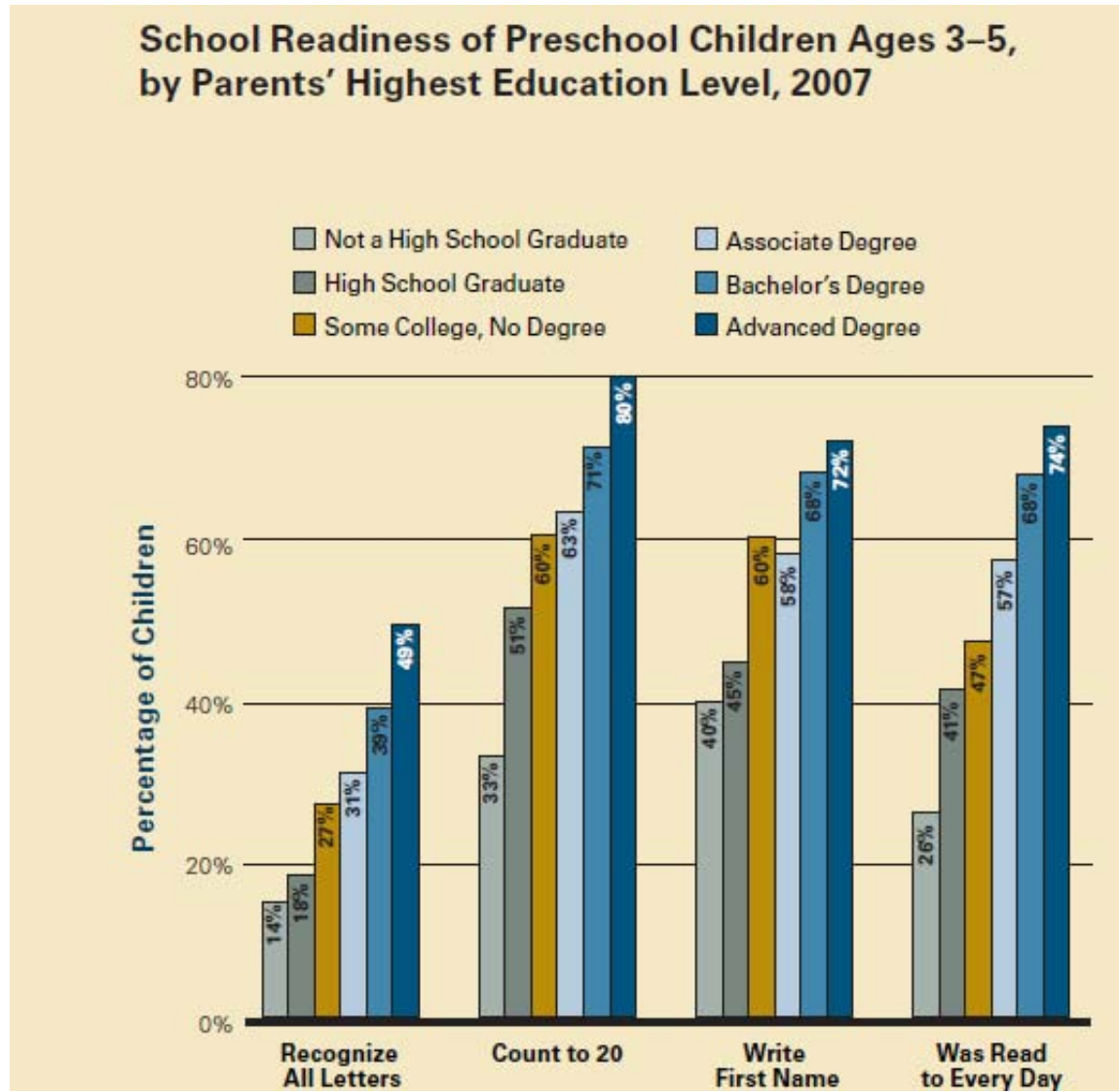


College Graduates Are Least Likely to Receive Public Assistance

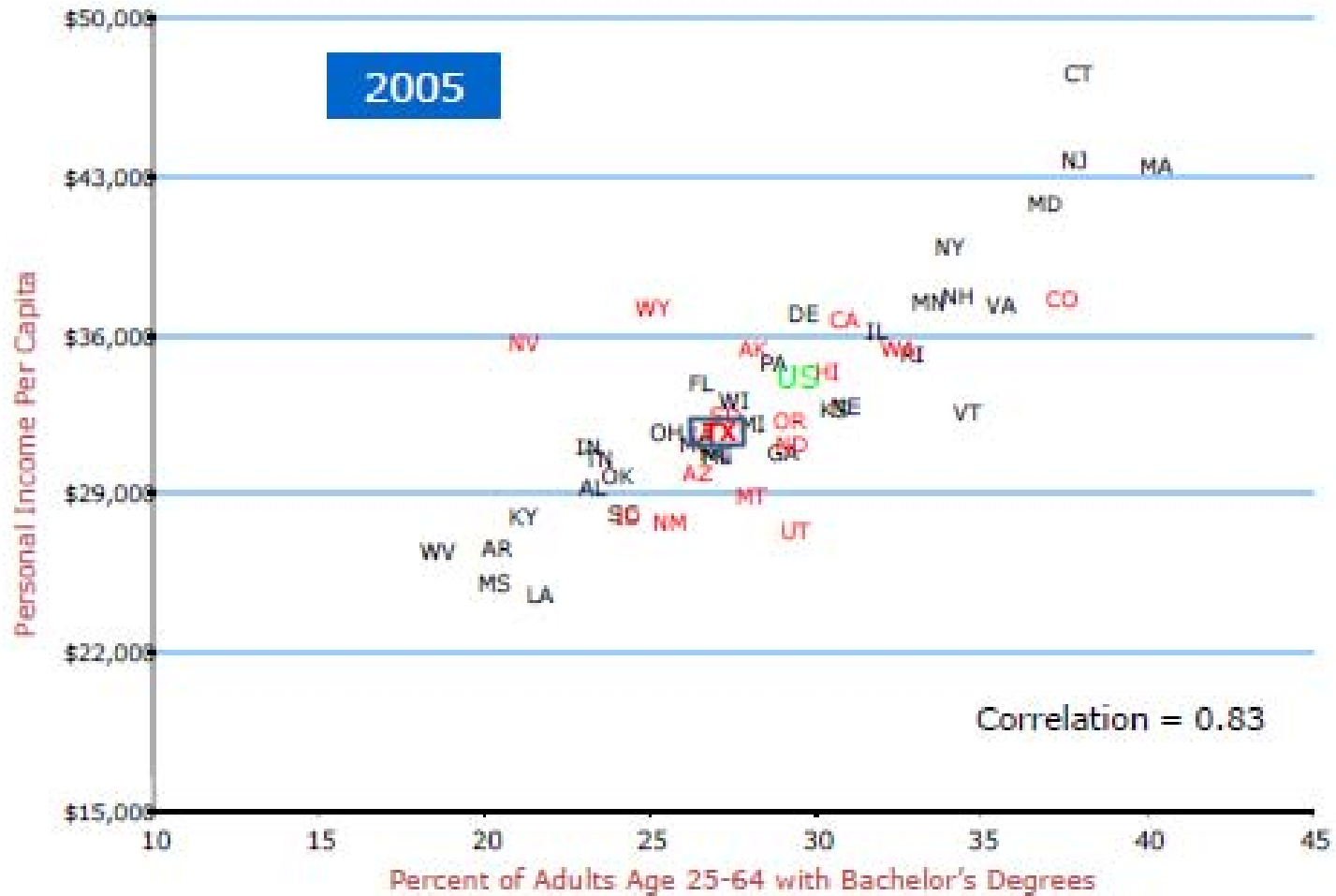
Percentage of Individuals Ages 25 and Older Living in Households that Participated in Various Public Assistance Programs, by Education Level, 2008



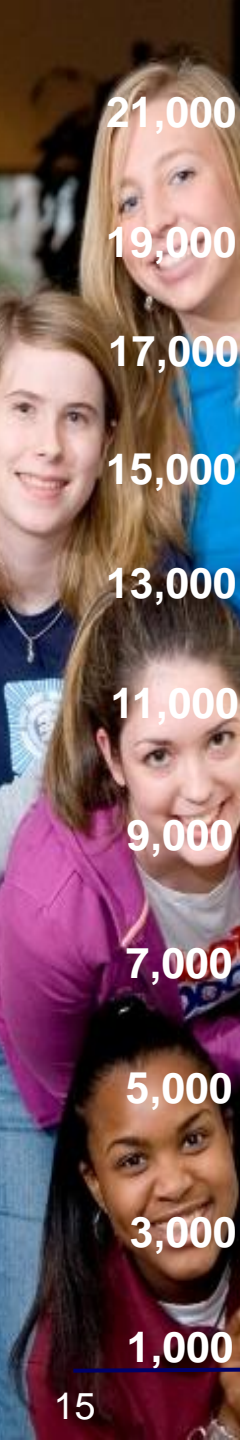
College Graduates Are More Likely to Prepare Their Children for School



Educational Attainment and Income

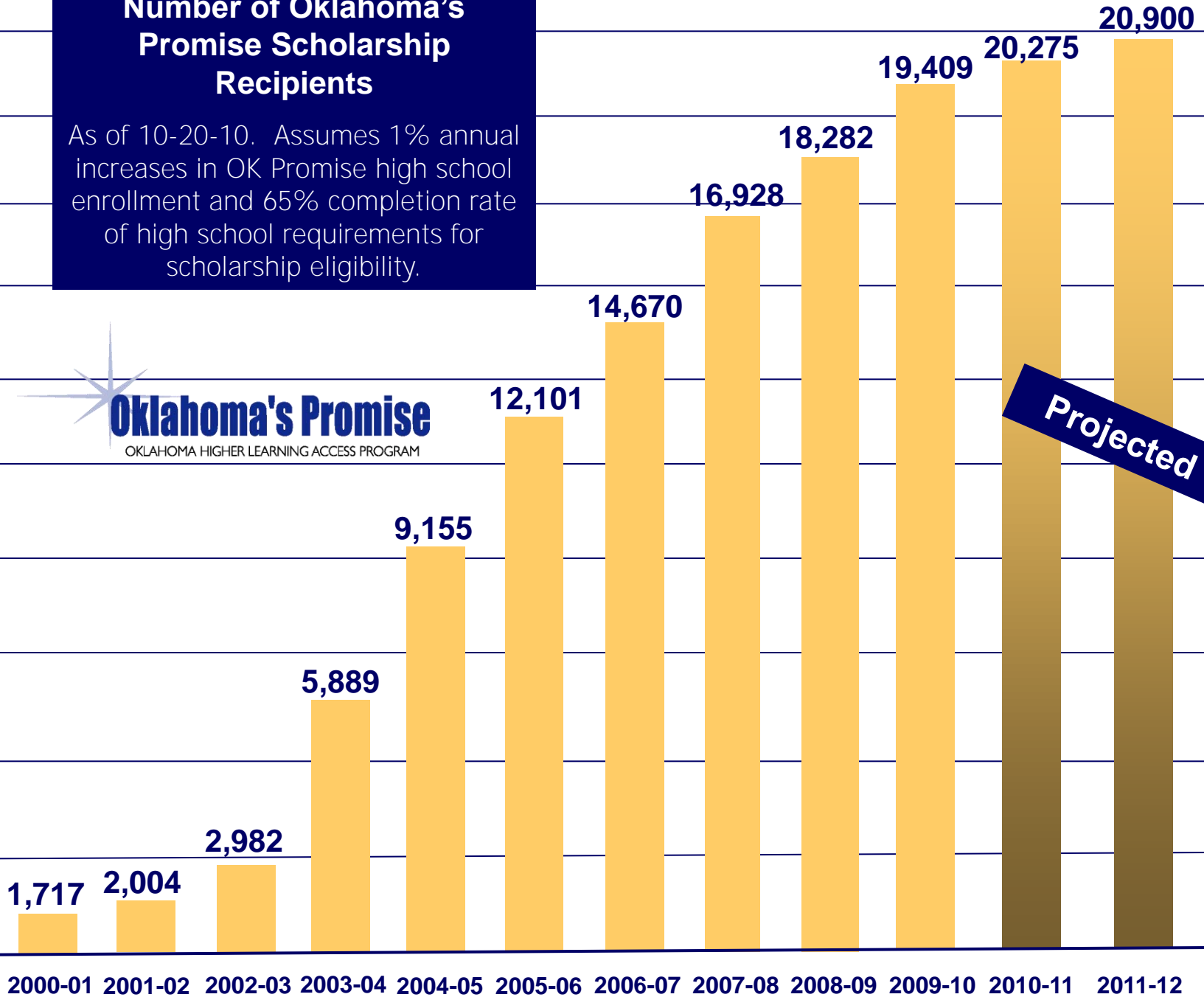


Source: U.S. Census Bureau, Decennial Census and American Community Survey



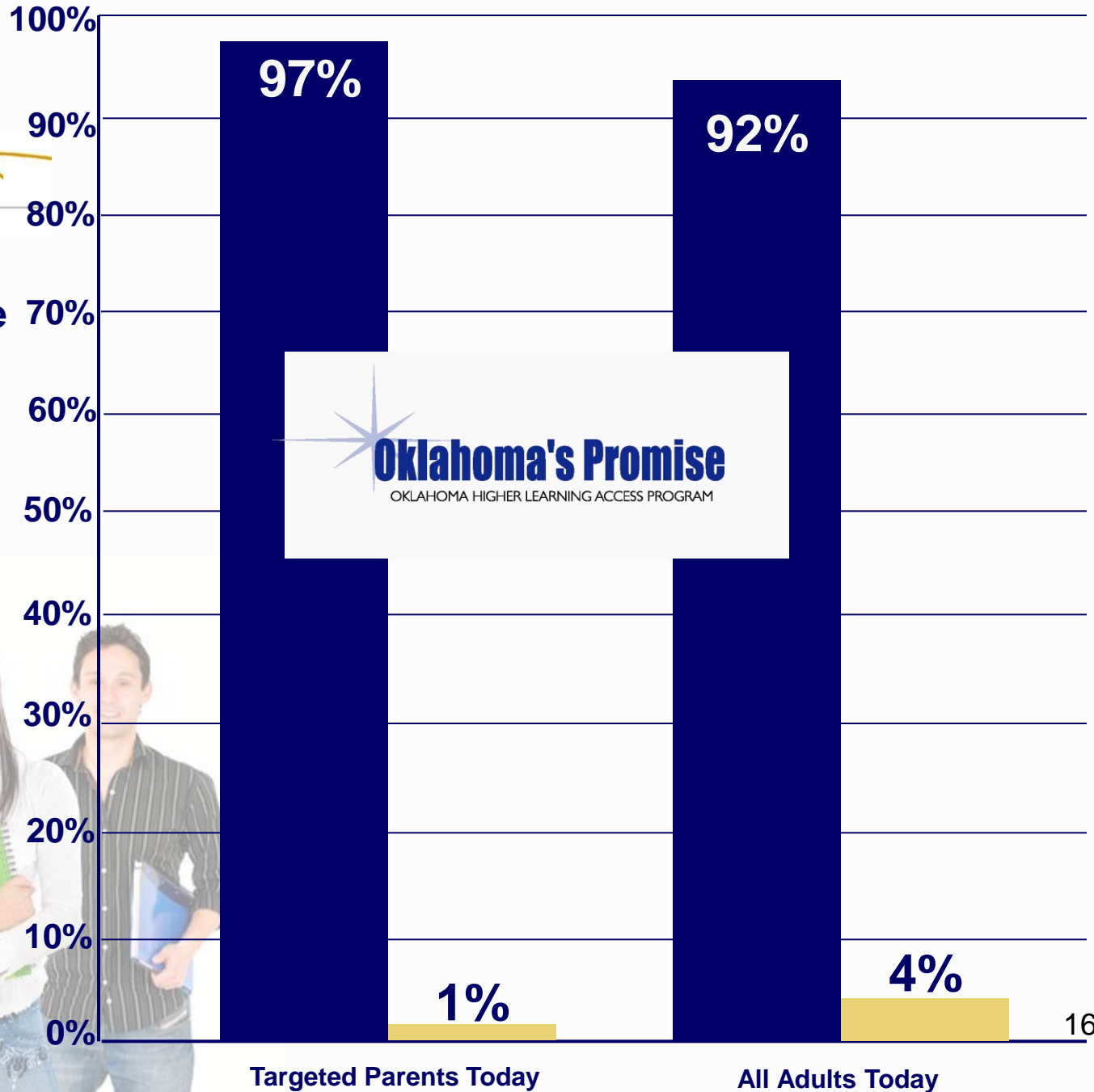
Number of Oklahoma's Promise Scholarship Recipients

As of 10-20-10. Assumes 1% annual increases in OK Promise high school enrollment and 65% completion rate of high school requirements for scholarship eligibility.



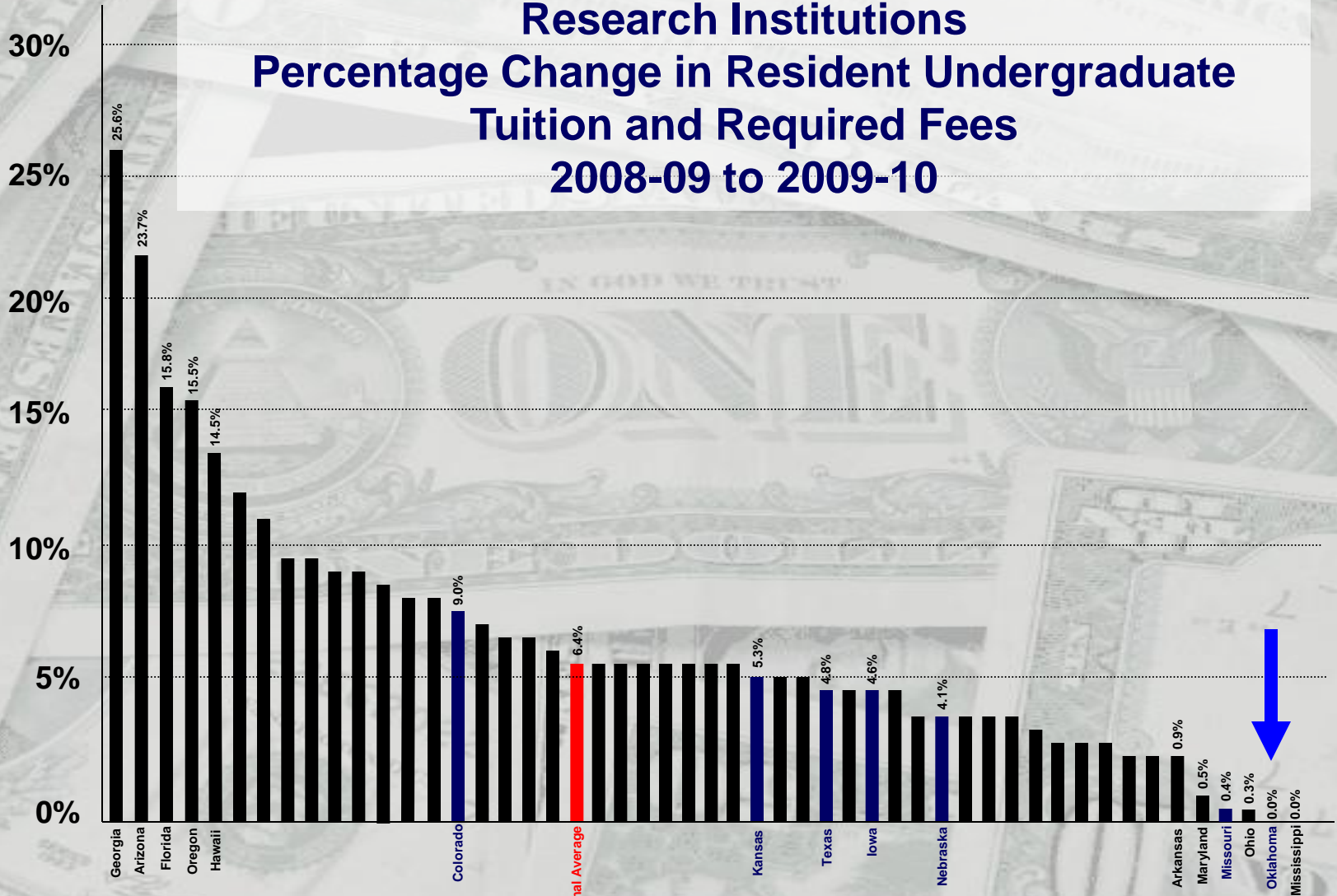
Cole Hargrave Snodgrass & Associates
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201 Robert S. Kerr • Suite 3014 Oklahoma City, Oklahoma 73102-4202 • 405/848-1585 • 405/415-3017 • Fax 405/236-2755 • e-mail: chs@chs-inc.com

**97% of Parents and
92% of all adults have
a positive opinion of
Oklahoma's Promise.**



Tuition

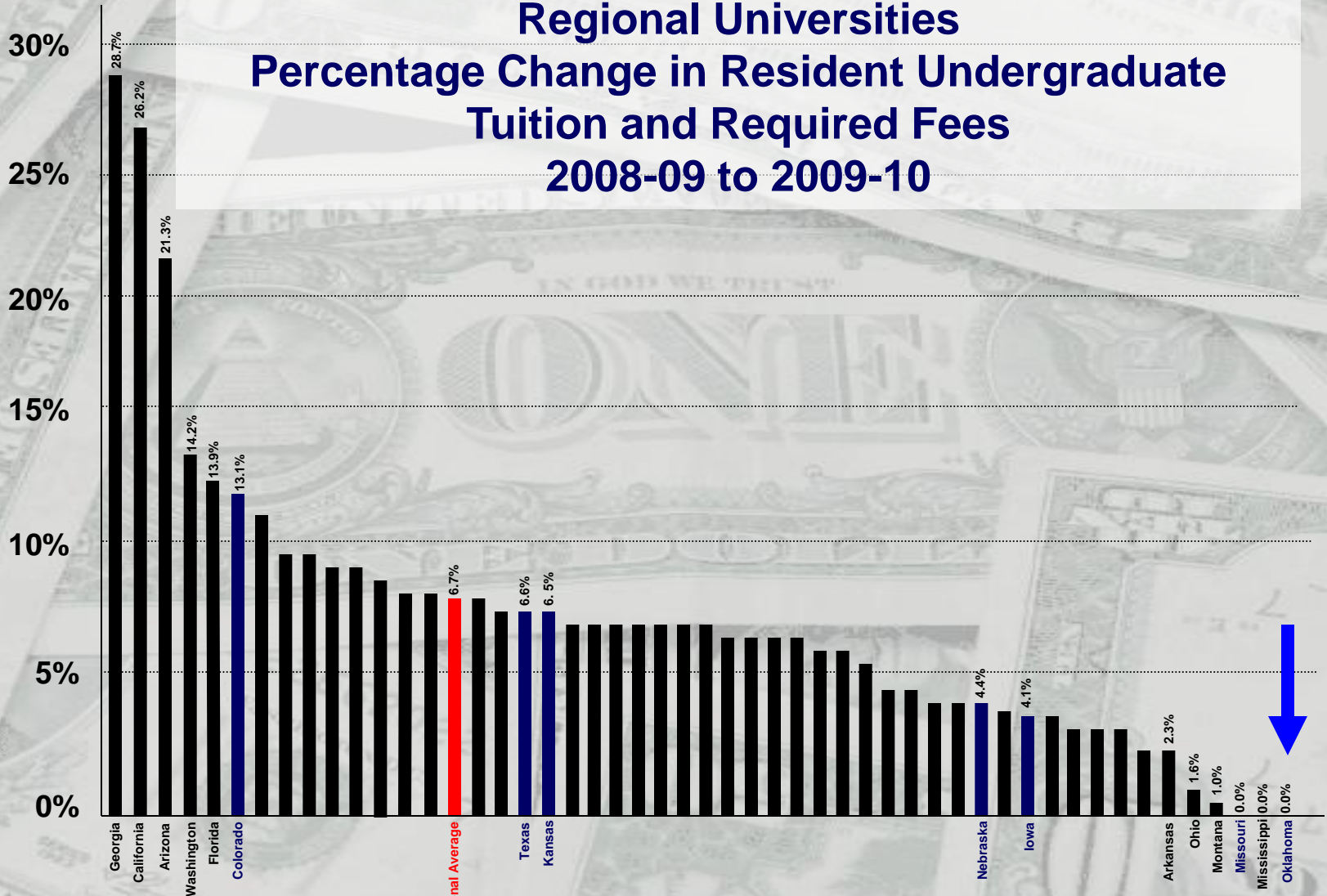
Research Institutions Percentage Change in Resident Undergraduate Tuition and Required Fees 2008-09 to 2009-10



Source: Washington Higher Education Coordinating Board 2009-10 – Tuition and Fee Rates-National Comparison

Tuition

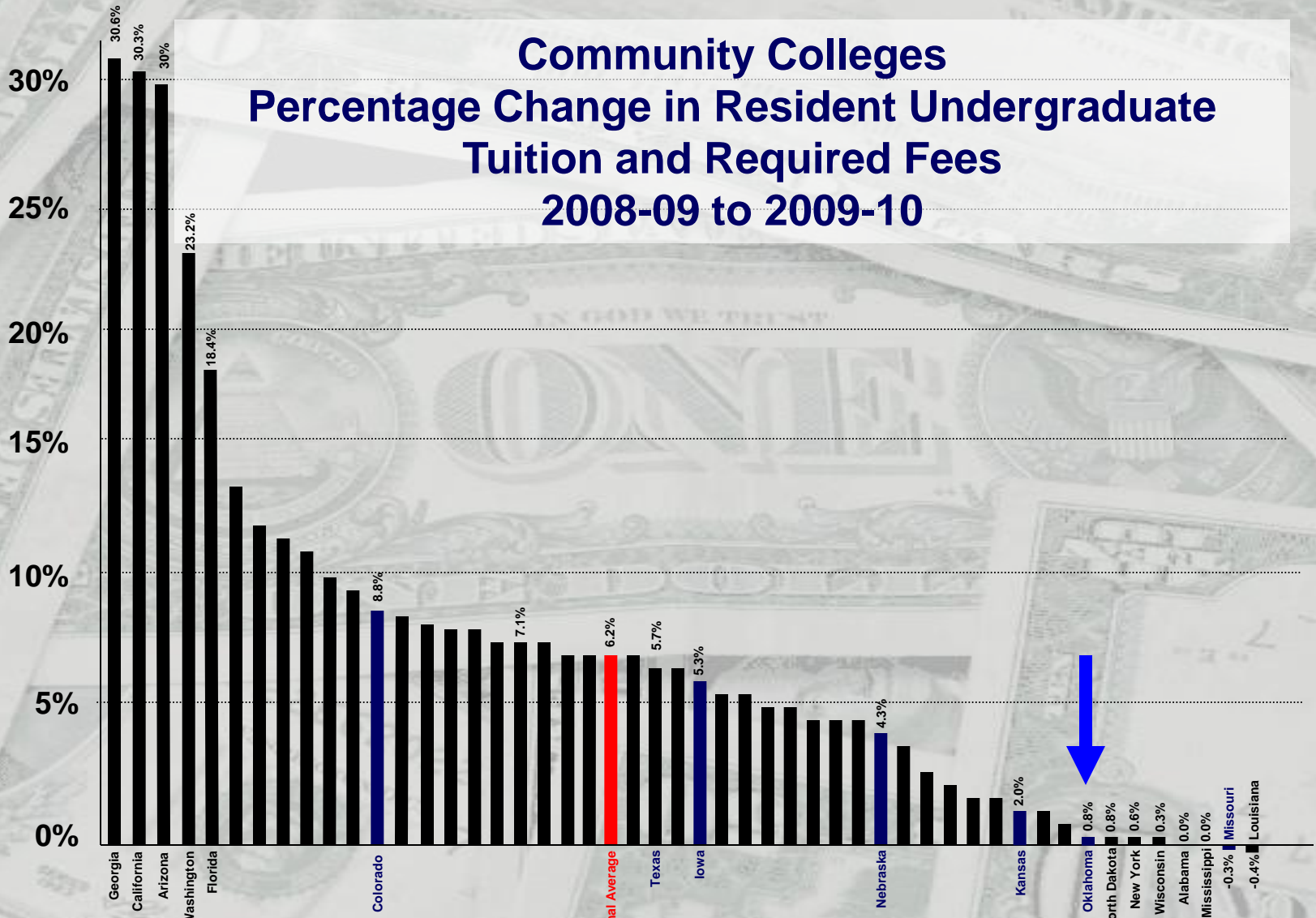
Regional Universities Percentage Change in Resident Undergraduate Tuition and Required Fees 2008-09 to 2009-10



Source: Washington Higher Education Coordinating Board 2009-10 – Tuition and Fee Rates-National Comparison

Tuition

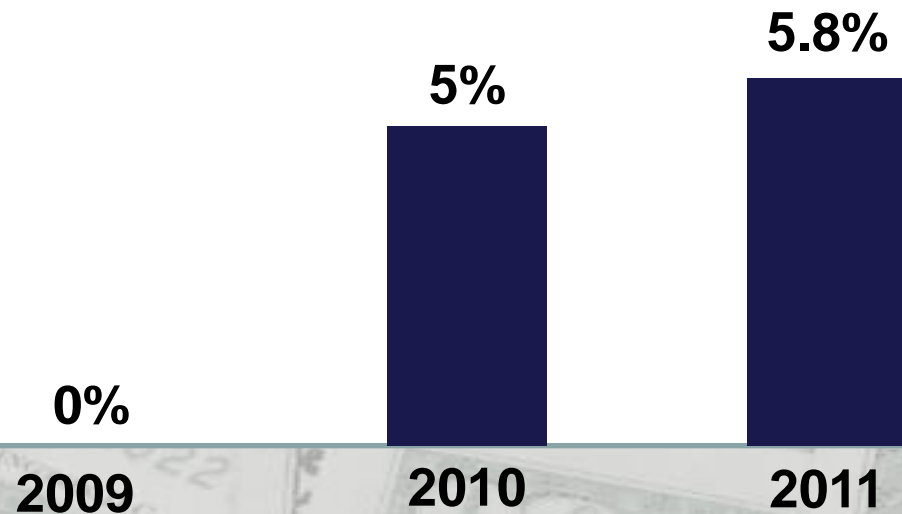
Community Colleges Percentage Change in Resident Undergraduate Tuition and Required Fees 2008-09 to 2009-10



Source: Washington Higher Education Coordinating Board 2009-10 – Tuition and Fee Rates-National Comparison

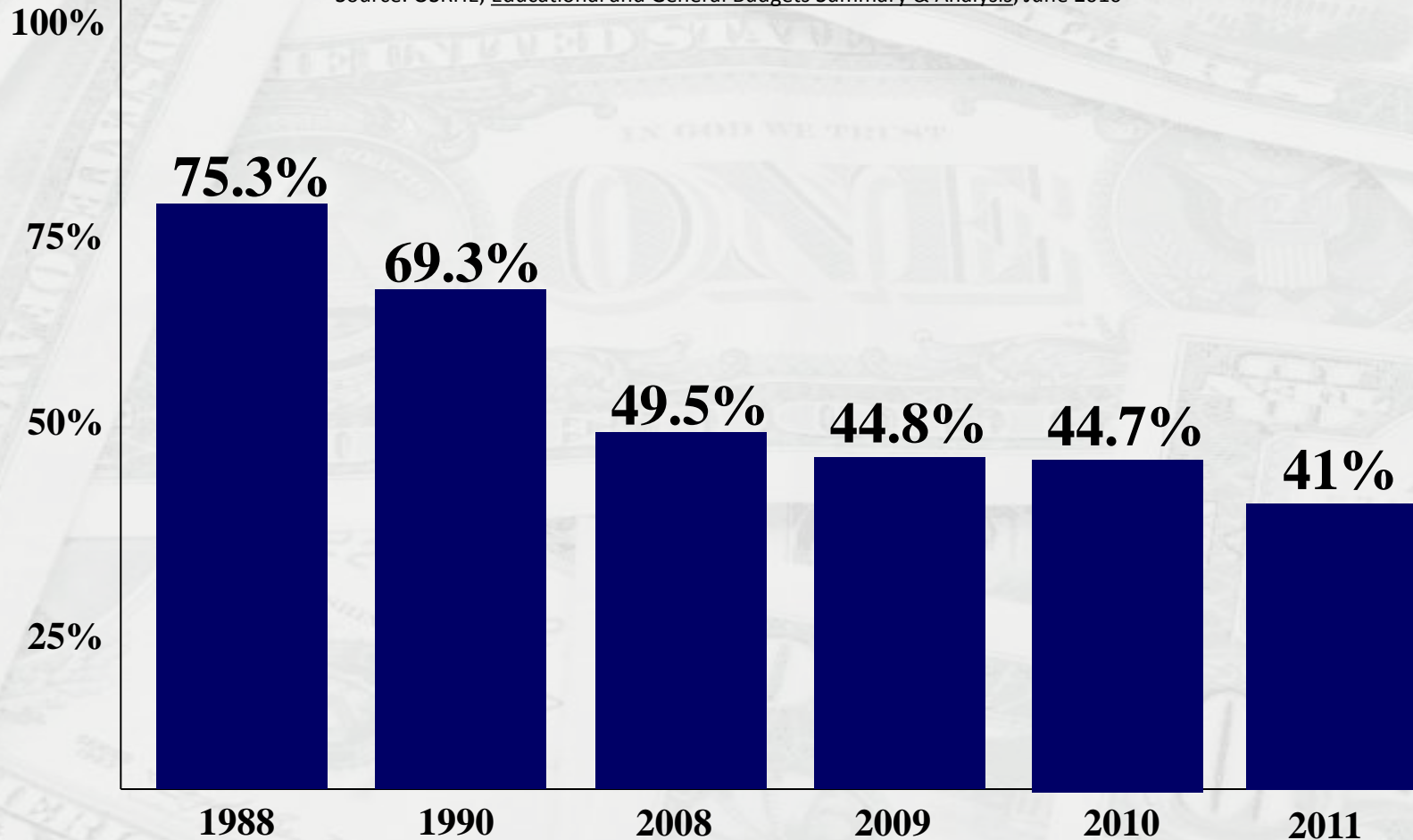
Tuition

Tuition Increase in 2009 – 2011



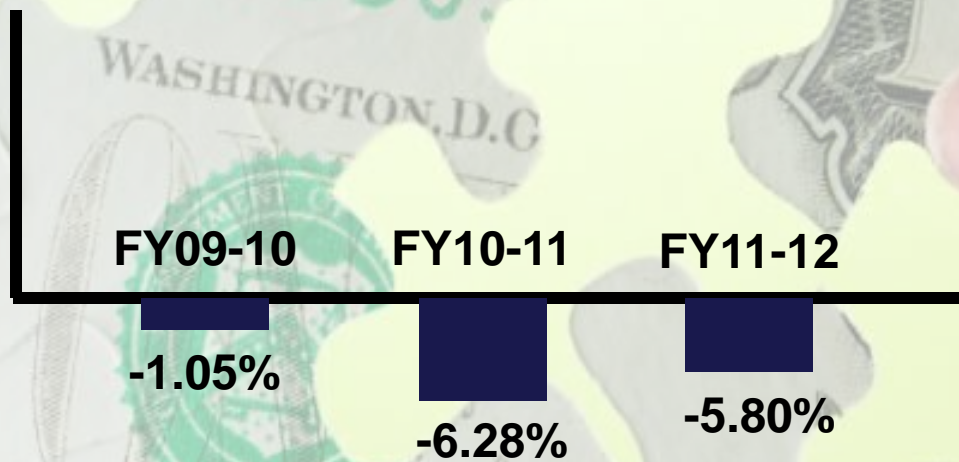
Percentage of the higher education budget paid with state appropriations:

Source: OSRHE, Educational and General Budgets Summary & Analysis, June 2010



Budget Cuts

Total Appropriations for Operations



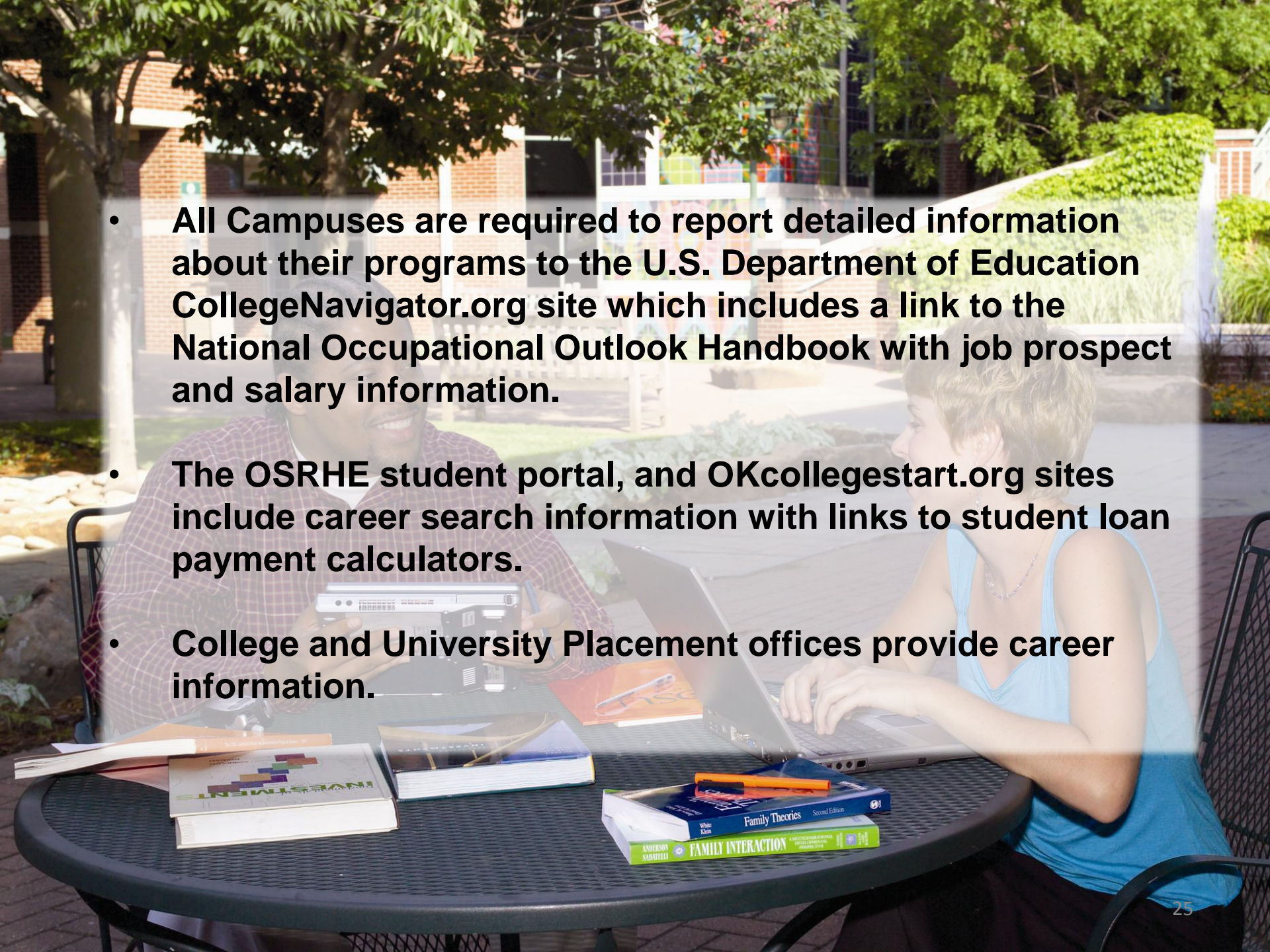


K-12 and Higher Education Collaborations

- **EPAS – Explore, Plan and ACT**
- **GEAR UP – Gaining Early Awareness and Readiness for Undergraduate Programs**
- **Teacher Education – K20 Center at OU and UCO Urban Education Initiative**
- **Achieving Classroom Excellence (ACE)**
- **Common Core Curriculum for K-12**
- **Partnership for Assessment of Readiness for College and Careers (PARCC) – Assessments for the Common Core Standards**
- **P-20 Data Coordination Council**
- **Teacher Connection**
- **Summer Academies**
- **Cooperative Alliance with CareerTech**
- **Concurrent Enrollment with High Schools**

Higher Education STEM Initiatives

- Undergraduate Research
- EPSCoR
- Science and Math Summer Academies
- National Merit Scholars/Academic Scholars
- Endowed Chairs
- Oklahoma's Promise
- College Preparation Initiatives (EPAS and ACE)

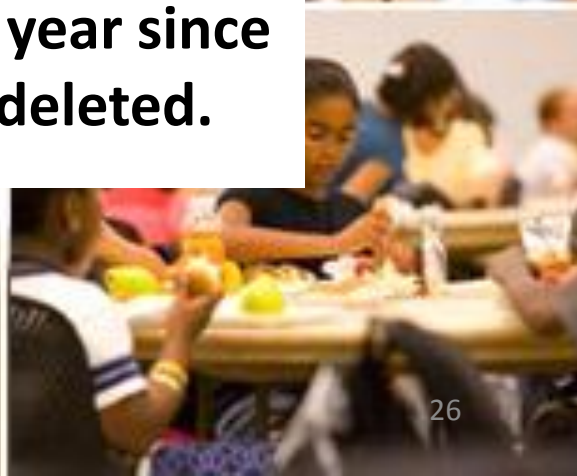
- 
- A photograph of a male student and a female staff member sitting at a black metal table outdoors. The student is on the left, wearing a red and white plaid shirt, looking at a laptop. The staff member is on the right, wearing a blue tank top, typing on a laptop. On the table are several books, including 'Family Theories' and 'Family Interaction'. The background shows a brick building and green trees.
- **All Campuses are required to report detailed information about their programs to the U.S. Department of Education CollegeNavigator.org site which includes a link to the National Occupational Outlook Handbook with job prospect and salary information.**
 - **The OSRHE student portal, and OKcollegestart.org sites include career search information with links to student loan payment calculators.**
 - **College and University Placement offices provide career information.**




Response to Market Needs



- **The State Regents Program review for new and existing programs evaluate employer and student demand for the program.**
- **Low producing and low demand programs are deleted on average 34 programs per year since 2004-05 totaling over 241 programs deleted.**



The background of the slide is a collage of four images. The top-left image shows several white wind turbines against a clear blue sky. The top-right image shows two men in white lab coats working in a laboratory setting with various pieces of equipment. The bottom-left image shows three students in white lab coats gathered around a computer workstation, looking at a monitor displaying a colorful thermal or data visualization. The bottom-right image shows a person wearing a head-mounted display (AR glasses) and another person in an orange shirt working on a piece of equipment that is glowing with green light.

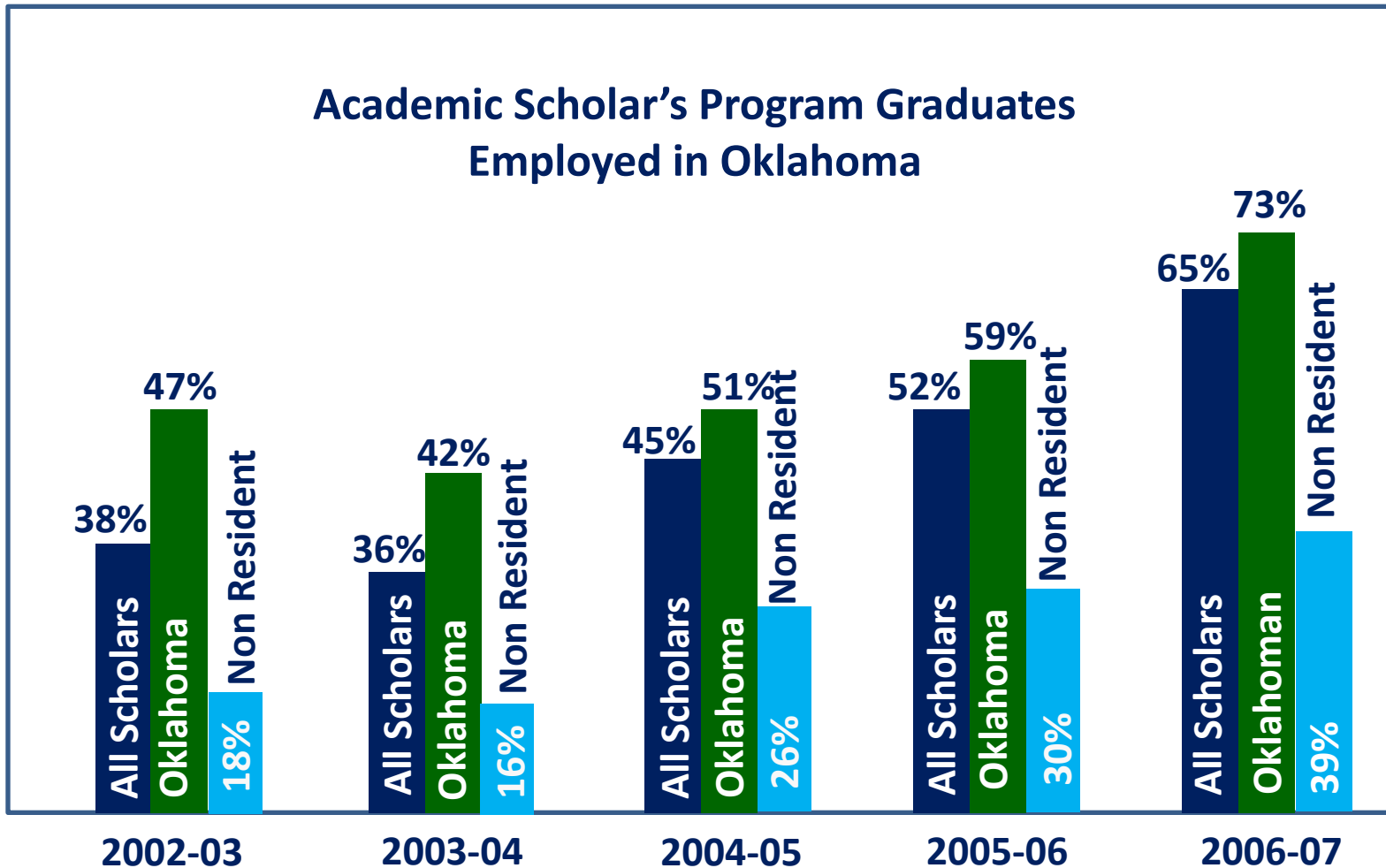
Link Academic Programs to the needs of Business

- **Healthcare, Allied Health and Nursing**
- **Engineering**
- **Aviation**
- **Wind Turbine Technologies**



Academic Scholars

Academic Scholar's Program Graduates
Employed in Oklahoma



State Appropriations

Oklahoma State Regents for Higher Education Core Operations Budget



OSRHE FTE

FY2007	FY2008	FY2009	FY2010	FY2011	FY2012
FTE	FTE	FTE	FTE	FTE	FTE
302	305	299	297	285	279

Questions?

Tony Hutchison

