

Pension Cheat Sheet Series

Trends in Higher Ed and Pensions



The **Pension Cheat Sheet** series presents short fact sheets by a board of editors and authors who are active with public pensions throughout the United States. The goal is to

offer "facts-in-a-pill" to elevate the discussion and understanding in states where pension funding threatens local city and state finances.

Craig McCrohon is a corporate attorney in Chicago and a Trustee at the Illinois State Universities Retirement System. He serves on the investment committee, and served as investment chair from 2013 to 2017.

Higher Education and Pensions

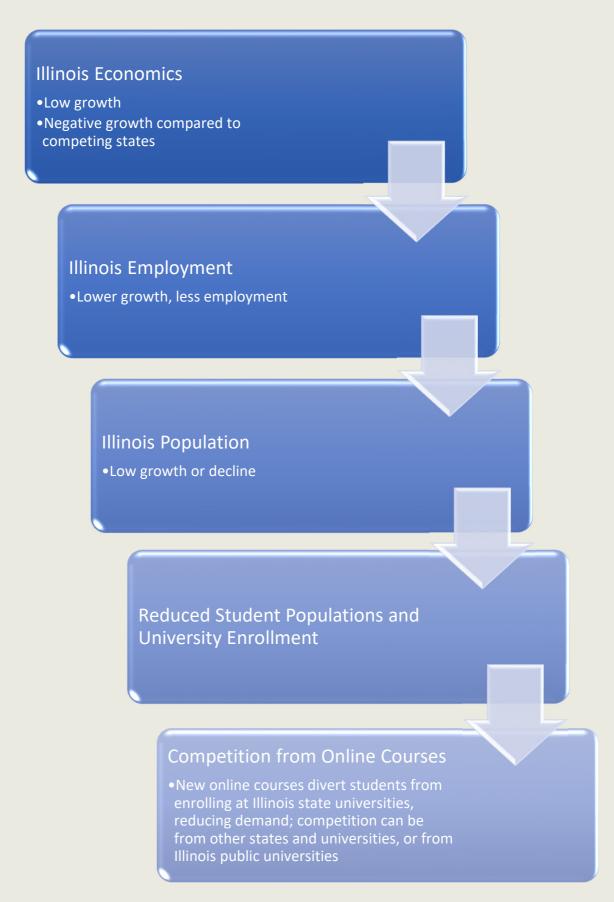
National and state trends in higher education have already stressed Illinois universities and community colleges. The pension funding crowding out of higher education funding has intensified the already precarious operation of state schools. Unlike Illinois elementary and high schools, or Illinois government agencies, the universities confront direct and immediate competition from other states. Therefore, the added pension fund pressure more significantly affects Illinois higher education than other public institutions.

Talking Points

- Unlike most other state agencies and Illinois institutions that receive state pension funding, many
 Illinois higher education schools compete in a regional, if not national, market. As a result, to
 understand the impact of pensions and crowding out, policy makers must also appreciate the
 underlying trends and demands affecting Illinois universities and community colleges.
- Universities suffer from a domino effect of forces. First, a mixed Illinois recovery. Second, challenges in Illinois employment growth. Third, muted population growth. Third, a stagnant pool of candidates for students. Fourth, general reductions in student populations. Fifth, new competition from online learning. (Yes, really online learning.)
- As a result of the pension crowding out, combined with longer-term higher education tends, universities and community colleges are restructuring their finances and operations. For example, schools are leaning on students more than ever for greater tuition and fees. Second, staffing is being revised to include fewer tenure-tracked professors and more part-time or short-term teaching staff.
- RESULT: <u>Negative feedback loop</u>. Crushing pensions result in fewer university staff members. Fewer staff means lower employee contributions to university pension fund. Smaller fund means smaller investment returns. Smaller investment returns means need for more state funding. And so on and so on...

See Graphs on Higher Ed and Pension Trends

Cascading Impact of Economics, Employment, Demographics, University Enrollment and Pensions



First Domino - Economics

Source: Illinois Department of Employment Security's "Where Workers Work" publication.

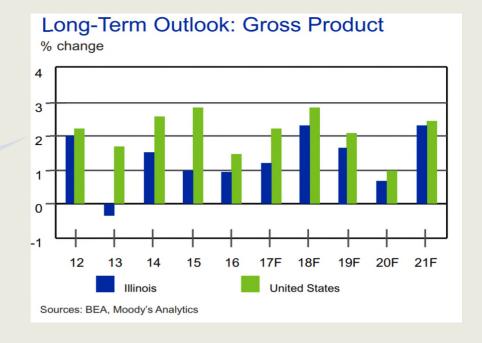
RECESSION REBOUND

CHANGES IN CHICAGO-AREA EMPLOYMENT SINCE THE GREAT RECESSION

	March 2010	March 2017	Change	Percent change
Total metro	3.1 million	3.6 million	422,928	13.5%
Cook County	2.0 million	2.3 million	242,855	12.1%
Chicago	1.0 million	1.2 million	168,304	16.6%
Downtown Chicago	479,199	593,665	114,466	23.9%
Cook without Chicago	992,981	1.1 million	74,551	7.5%
DuPage County	484,910	565,134	80,224	16.5%
Kane County	155,665	175,520	19,855	12.8%
Lake County	257,955	284,927	26,972	10.5%
McHenry County	74,895	80,857	5,962	8.0%
Will County	155,494	202,554	47,060	30.3%
Note: Figures are for unemployment-i	insurance, private-sec	ctor jobs.		

Uneven Illinois growth.

Illinois growth lagging other states.



Illinois Real GDP vs the Midwest and the U.S.

(%change 2007 to 2016)

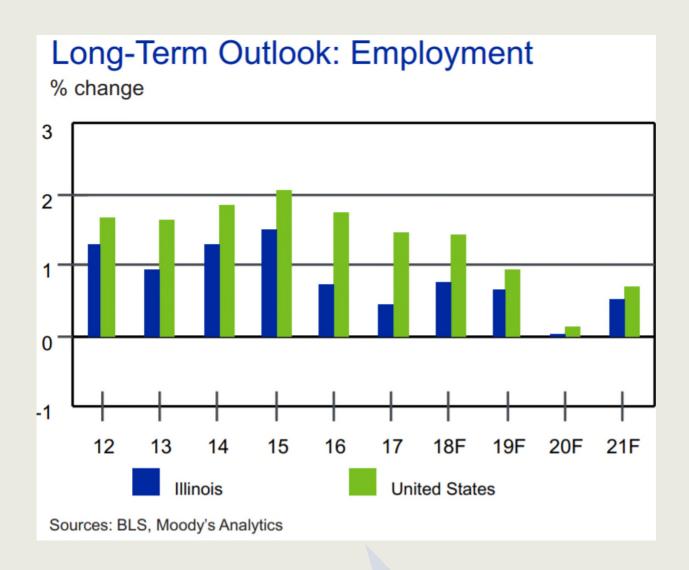
Industry	Illinois	Midwest (-Illinois)	U.S.
All industries	3.8	9.1	10.7
manufacturing	-1.1	-0.4	-0.3
wholesale trade	4.5	6.1	3.7
retail trade	1.7	14.0	11.5
transportation and warehousing	-1.1	2.1	5.4
finance, insurance, real estate	7.7	13.9	13.6
professional and business services	11.6	22.8	21.7
education, healthcare	13.6	15.4	21.5
government	-5.6	-1.5	2.4

Uneven growth and declines – reflect a mixed economic recovery.

Craig McCrohon

Higher Ed and Pensions - Trends

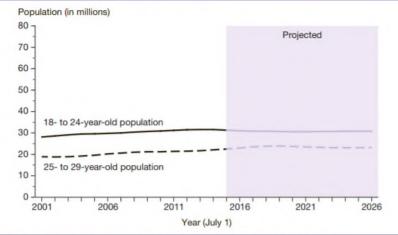
Second Domino - Employment



Illinois employment growth lags other states and impedes population growth.

Third Domino - Population

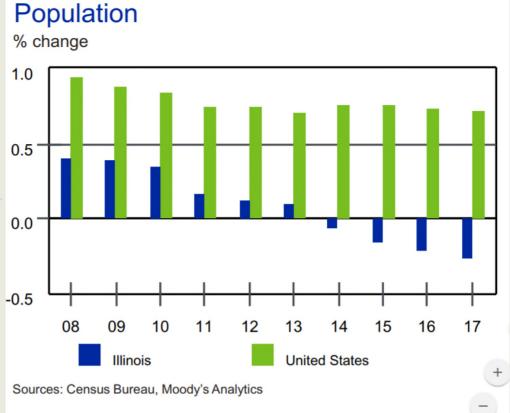
Figure 15. Actual and projected population numbers for 18- to 24-year-olds and 25- to 29-year-olds: 2001 through 2026



NOTE: Some data have been revised from previously published figures. Projections are from the U.S. Census Bureau's 2014 National Population Projections, ratio-adjusted to line up with the most recent historical estimate. SOURCE: U.S. Department of Commerce, Census Bureau, Population Estimates, retrieved August 4, 2015, from https://www2.census.gov/programs-surveys/popest/datasets/2010-2015/; and Population Projections, retrieved August 4, 2015, from https://www.census.gov/programs-surveys/popproj.html; and IHS Global Inc., "U.S. Quarterly Macroeconomic Model, November 2016 Short-Term Baseline Projections." (This table was prepared April 2017.)

Population growth of potential students projected to be flat.

As with the economy, population growth in Illinois lagging other states.



Fourth Domino - Enrollment

Nationally, universities facing a flat or declining market.

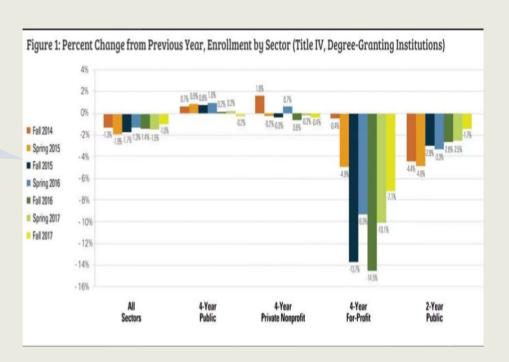
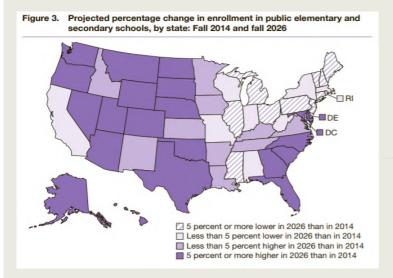


	Table 1: Combined Undergraduate and Graduate Enrollment (based on FTE)						
	Combined Enrollment				Change in Enrollment in 2018		
	Fall 2015	Fall 2016	Fall 2017	Fall 2018	From 2015	From 2017	
CSU	3,618	2,734	2,429	2,267	-37%	-7%	
EIU	7,282	6,234	5,339	5,892	-19%	10%	
GSU	3,920	3,886	3,554	3,320	-15%	-7%	
ISU	18,183	18,533	18,308	18,115	0%	-1%	
NEIU	6,366	6,101	5,777	5,201	-18%	-10%	
NIU	16,502	15,712	14,982	14,352	-13%	-4%	
SIUC	14,995	13,880	12,463	10,851	-28%	-13%	
SIUE	11,985	11,870	11,523	10,942	-9%	-5%	
UIC	28,687	28,935	30,418	31,620	10%	4%	
UIS	3,921	3,985	3,526	3,211	-18%	-9%	
UIUC	47,644	48,765	49,634	50,755	7%	2%	
WIU	9,561	8,934	8,134	7,260	-24%	-11%	
Total	172,664	169,569	166,087	163,786	-5%	-1%	

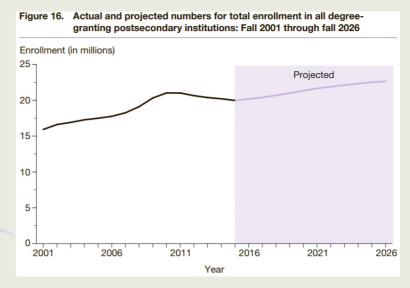
Illinois confronted with extreme variances in rates of growth and decline. Are some campuses cannibalizing from others?

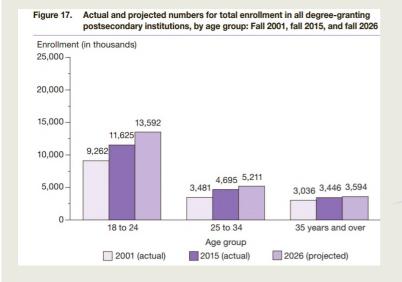
Projections of Enrollment Into the Next Decade



University feeder enrollment – public elementary and secondary schools.

Overall future growth challenging nationally. More challenging in Illinois. Most challenging for "directional" schools.





Same story as above, by age group.

Insult to Injury – Online Education – Various Measures of Status and Trends of Online Education

Online education

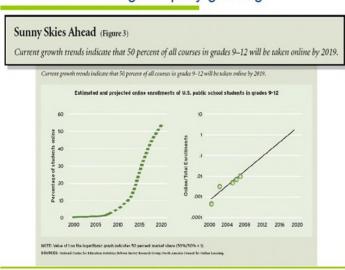
The number of students taking at least one online class has grown so much that nearly one-third of students enrolled in degree-granting postsecondary institutions take an online class.

	STUDENTS TAKING AT LEAST ONE ONLINE COURSE	ANNUAL GROWTH RATE OF ONLINE ENROLLMENT	ONLINE ENROLLMENT PERCENT OF TOTAL ENROLLMENT
Fall 2002	1,602,970	N/A	9.6%
Fall 2003	1,971,397	23.0%	11.7%
Fall 2004	2,329,783	18.2%	13.5%
Fall 2005	3,180,050	36.5%	18.2%
Fall 2006	3,488,381	9.7%	19.6%
Fall 2007	3,938,111	12.9%	21.6%
Fall 2008	4,606,353	16.9%	24.1%
Fall 2009	5,579,022	21.1%	28.6%
Fall 2010	6,142,280	10.1%	31.3%

Souirce: "Going the Distance: Online Education in the United States, 2011" by the Babson Survey Research Group, Babson College

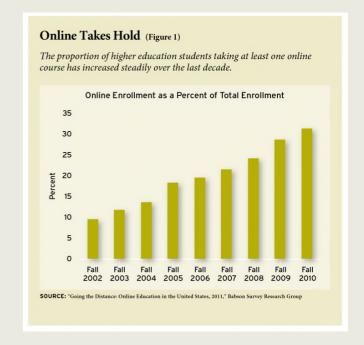
Post-Gazette

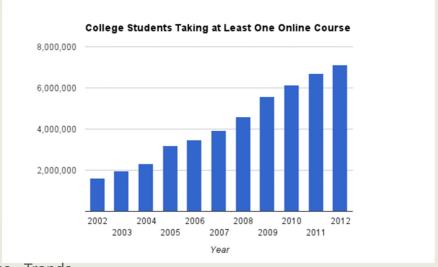
Online learning is rapidly growing



Enrollments up from 45,000 in 2000 to 1,000,000 in 2007 Source: Christensen & Horn (2008), How Do We Transform Our Schools?

NACOL



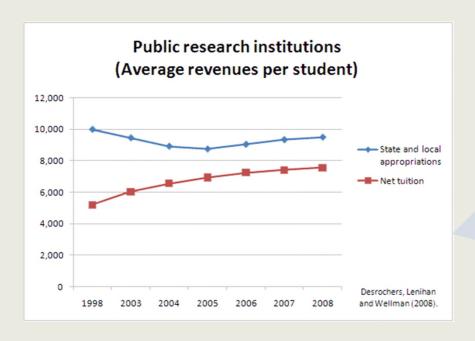


Craig McCrohon

K

Higher Ed and Pensions - Trends

Impact of Trends on University Revenue and Structure – Lower Pension Contributions!

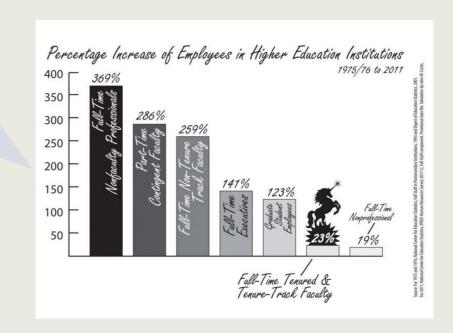


Tight supply of students, together with increasing online competition, results in flatter growth in tuition.

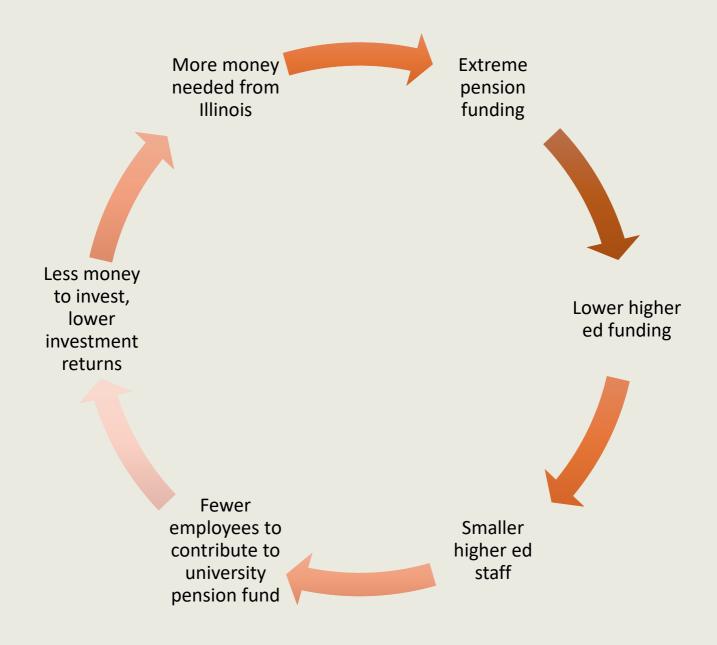
Probably worse for Illinois, and even worse for State universities other than Champaign and Chicago.

To accommodate changes, universities may restructure staff – more part-timers, fewer tenure track, more short-term junior faculty members.

RESULT: FEWER
EMPLOYEES TO
CONTRIBUTE TO
ILLINOIS UNIVERSITY
PENSIONS



The Negative Feedback Loop





Pension Cheat Sheet Series

Pension360 has, or will receive from its board of authors, cheat sheets on the following topics:

State Comparison of Constitutional Pension Protections

List of State Pension Reforms Nationally

Summary of Illinois Constitutional and Legal Arguments Protecting Pensions

Risk-Mitigating Investment Strategies for Pensions Before the Next Big Crash

Personal Pensions Perspectives – Term of Employee Pensions - Illinois

Personal Pensions Perspectives – Terms of Employee Pensions - California

Personal Pensions Perspectives – Terms of Employee Pensions - New Jersey

Illinois Pension Crowding Out - The Numbers

Who Get's What - Graphs of Annual Pension Payments

Pension Population Politics - When Will Tier II Members Exceed Tier I Members

Pension Asset Transfers

Pension Buyouts - Worth the Risk and Trouble?

Pension Particulars - Ways to Raise or Lower Funding Without Spending a Dollar

Illinois Pension Dashboards

Chicago and Cook County Pension Dashboards

Pension Funding – California – Tax Base and Cash Flow

Pension Funding – Illinois – Tax Base and Cash Flow