

An Overview of Higher Education in New York State

New York State Education Department
Office of Higher Education
Office of Research and Information Systems (ORIS)



Richard P. Mills, Commissioner
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Data Categories

- Four Sectors and Two Levels
- Enrollment and Student Characteristics
- Performance
- Degrees Awarded
- Finance
- Faculty



270 Colleges in New York State

SUNY	64	24%
CUNY	19	7%
Independent	148	55%
Proprietary	39	14%
Total	270	100%

Recent changes: Bexley Hall Seminary closed.
The proprietary St. Paul's School of Nursing will soon replace the two independent St. Vincent's nursing schools.



New York State Colleges by Enrollment Size, 2008-09

Enrollment	2-Yr Colleges		4-Yr Colleges		Graduate Only	
	#	%	#	%	#	%
<200	14	17%	7	5%	18	55%
201-500	13	16%	6	4%	7	21%
501-1,000	14	16%	14	9%	3	9%
1,001-2,500	10	12%	33	22%	4	12%
2,501-5,000	9	11%	37	25%	0	0%
5,001-10,000	12	14%	26	18%	1	3%
10,001-20,000	8	9%	20	13%		
>20,000	3	4%	8	5%		
Total	83	100%	151	100%	33	100%

22,742

Largest:

Suffolk County CC

42,189

NYU

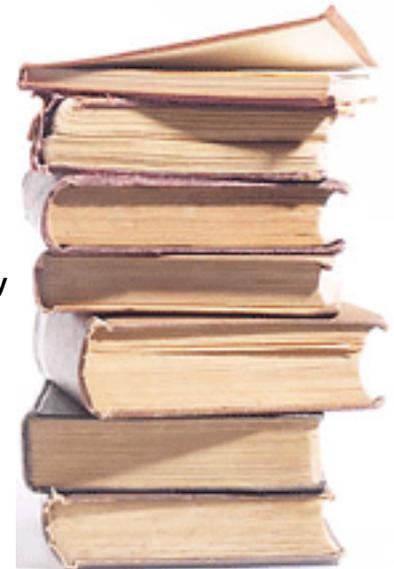
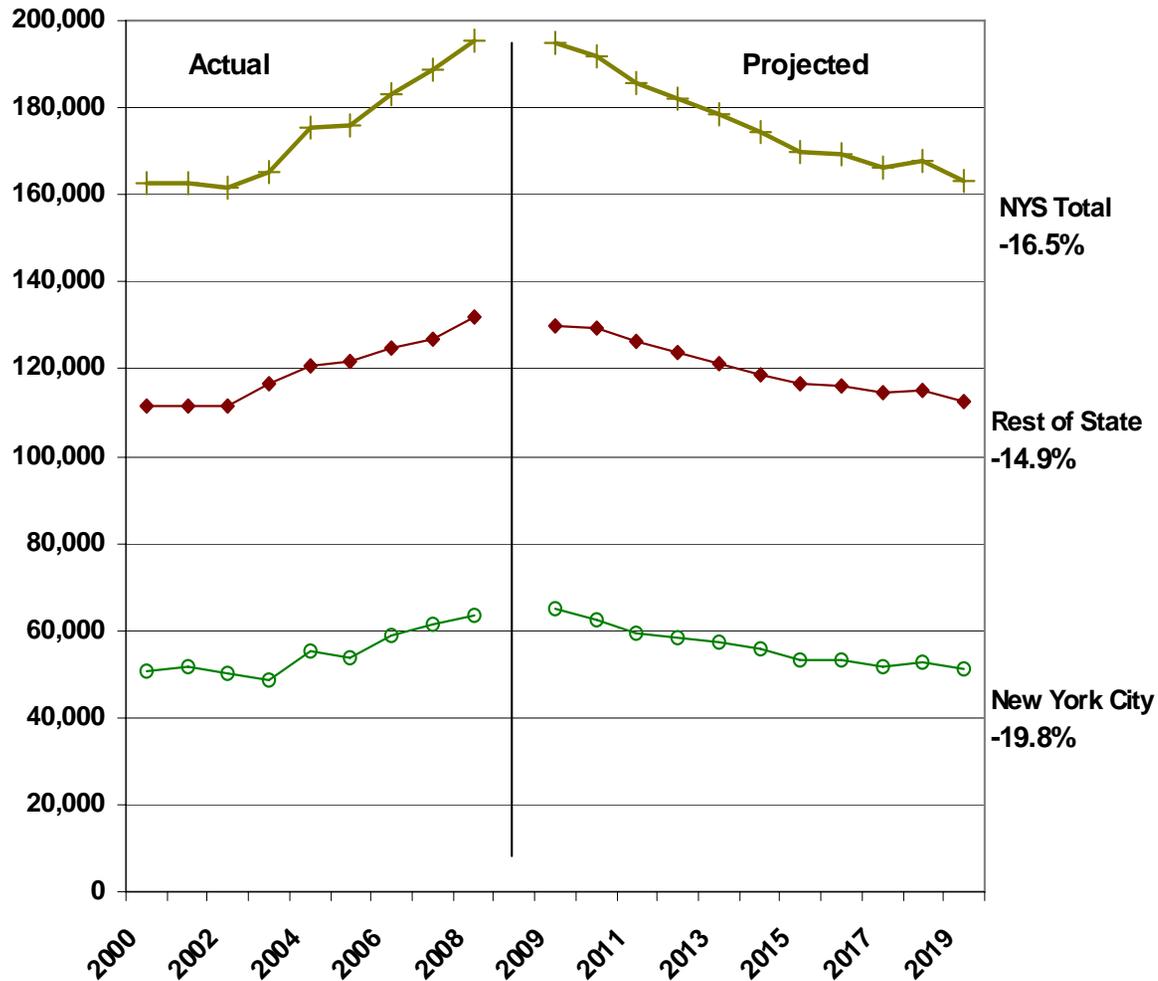
5,013

Teachers College

Note: The four Cornell Statutory Colleges are combined for this analysis.

NYS High School Graduate Projections

Spring 2000 to 2008 Actual, 2009 to 2019 Projected



11-Year Changes in H.S. Graduates and Corresponding Changes in Undergraduate Enrollment, 1997- 2008 and Projected 2008 to 2019

	Change 1997 to 2008			Proj. Change 2008 to 2019
	High School Graduate Counts	Undergraduates Full-time, First-time	All	High School Graduate Counts
NYS	22.7%	26.6%	19.3%	-16.5%
NYC	25.5%	31.3%	21.1%	-19.8%
ROS	21.4%	24.4%	18.1%	-14.9%

New York State (NYS), New York City (NYC), and Rest of State (ROS)

2-Year Portion of: Institutions / Sector Enrollment

E.G., 45% of the SUNY colleges are 2-year colleges, and 48% of the enrollment at SUNY is in the 2-year colleges

SUNY	45%	/	48%
CUNY	32%	/	33%
Independent	15%	/	2%
Proprietary	64%	/	45%
NYS	31%	/	27%

NYC Portion of Enrollment (2 and 4-Year)

E.G., 3% of SUNY's enrollment is located in New York City.

SUNY	3%
CUNY	100%
Independent	45%
Proprietary	70%
NYC Total	42%

Four-Year Colleges: Growth in Enrollment by Sector

	1998	2008 (Preliminary)	'98-'08 Change
SUNY	197,600	227,986	15%
CUNY	135,300	162,735	20%
Independent	402,300	458,673	14%
Proprietary	9,900	25,223	61%
New York State	745,100	874,617	17%



In addition to bachelor's programs, "4-year" colleges may offer associate and/or graduate programs (including graduate only), all of which are included in the enrollment counts.

Two-Year Colleges: Change in Enrollment by Sector

	1998	2004	2008 (Preliminary)	'98-'08 Change
SUNY	170,900		211,702	24%
CUNY	63,500		80,628	27%
Independent	5,300	(24%)	7,123	45%
Proprietary	21,300	26,419	20,981	-1%
New York State	260,900		320,434	26%

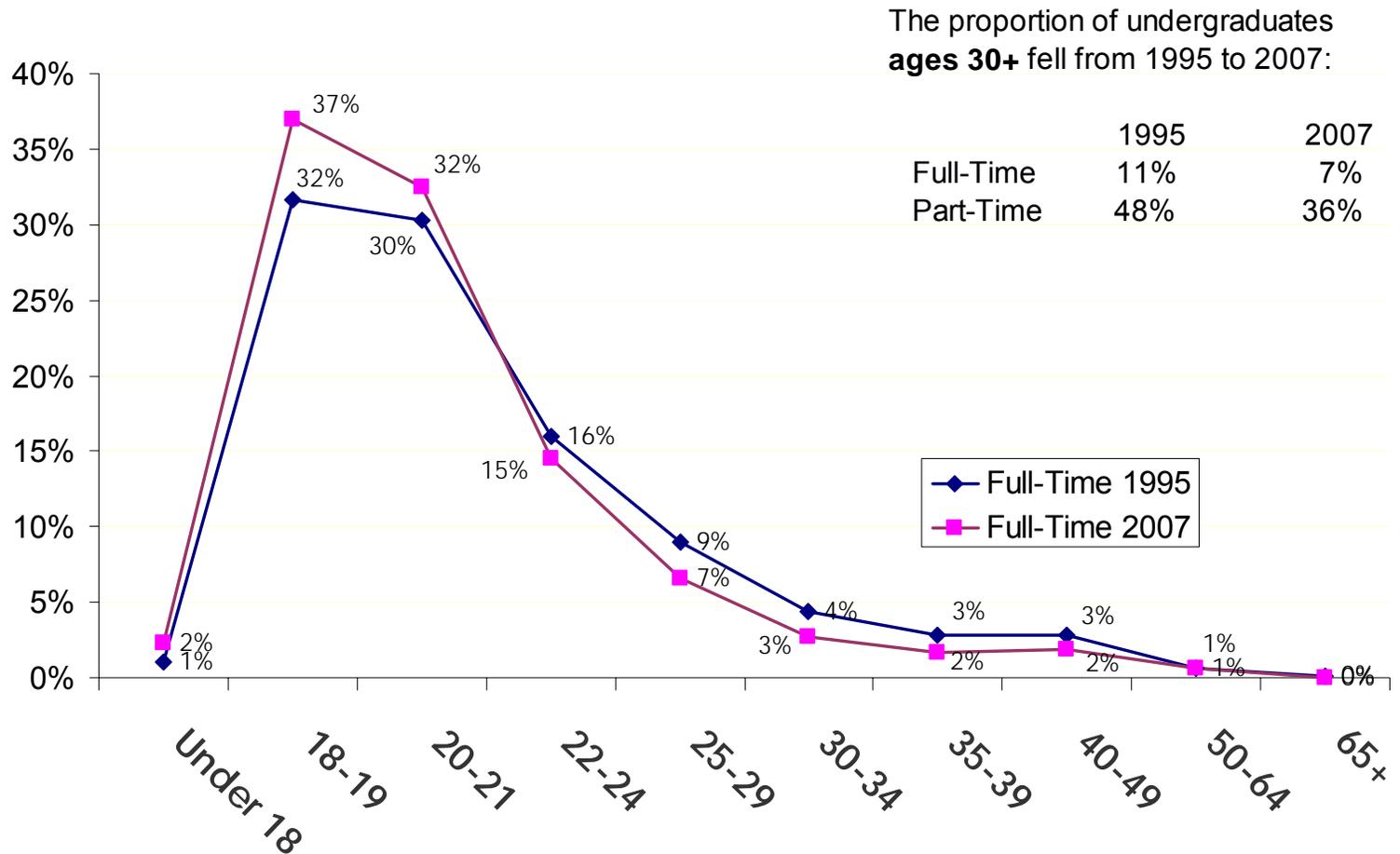


Enrollment by Program Level

	1998	2008 (Preliminary)	Change
Full-Time			
Undergraduate	578,400	718,604	24%
Graduate	66,900	96,745	45%
First-Professional	24,900	30,420	22%
Part-Time			
Undergraduate	230,500	241,112	5%
Graduate	102,500	105,162	3%
First-Professional	2,900	3,008	4%



Full-Time Undergraduate Age, NYS 1995-2007



Source: National Center for Educational Statistics (IPEDS)

2 and 4-Year Combined

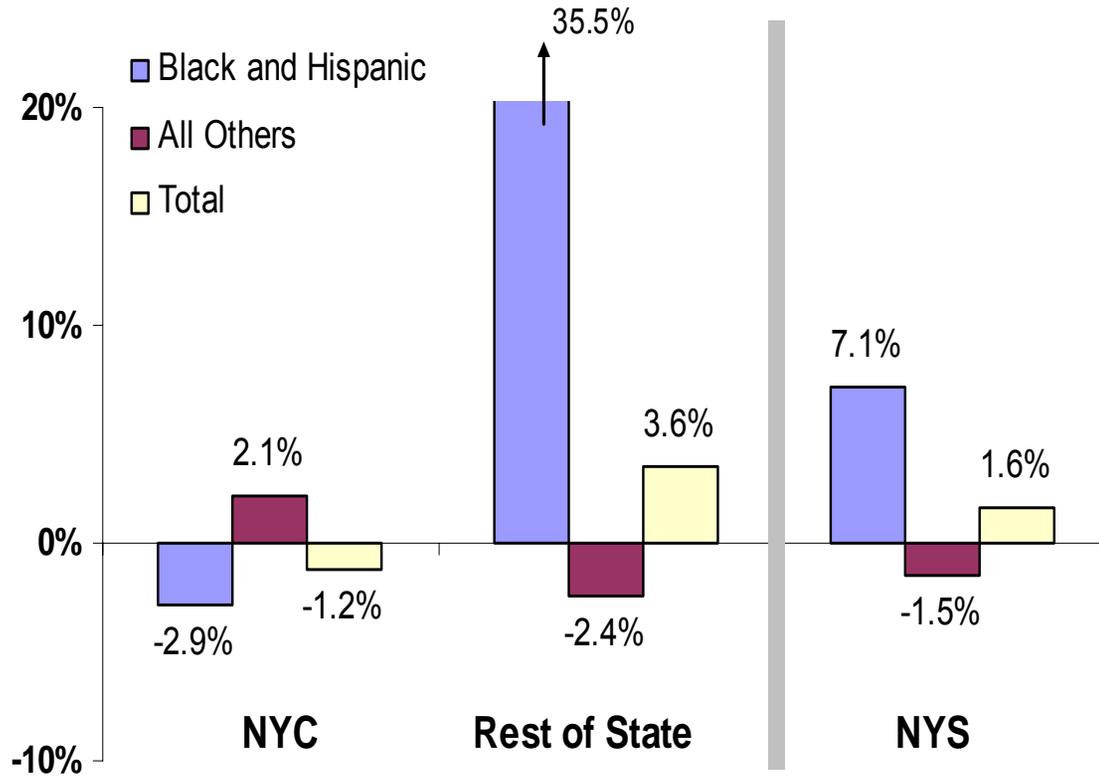
Total, Full and Part-Time

	1997	2003	2007
NYS	26% 242,019	23% 257,639	24% 277,198
SUNY	13% 45,772	14% 56,135	15% 63,790
CUNY	53% 107,293	50% 105,795	49% 114,823
INDEPENDENT	16% 73,219	16% 72,003	16% 76,264
PROPRIETARY	42% 12,583	52% 24,112	50% 23,103

**Black and
Hispanic
% of
Enrollment
1997, 2003
& 2007**

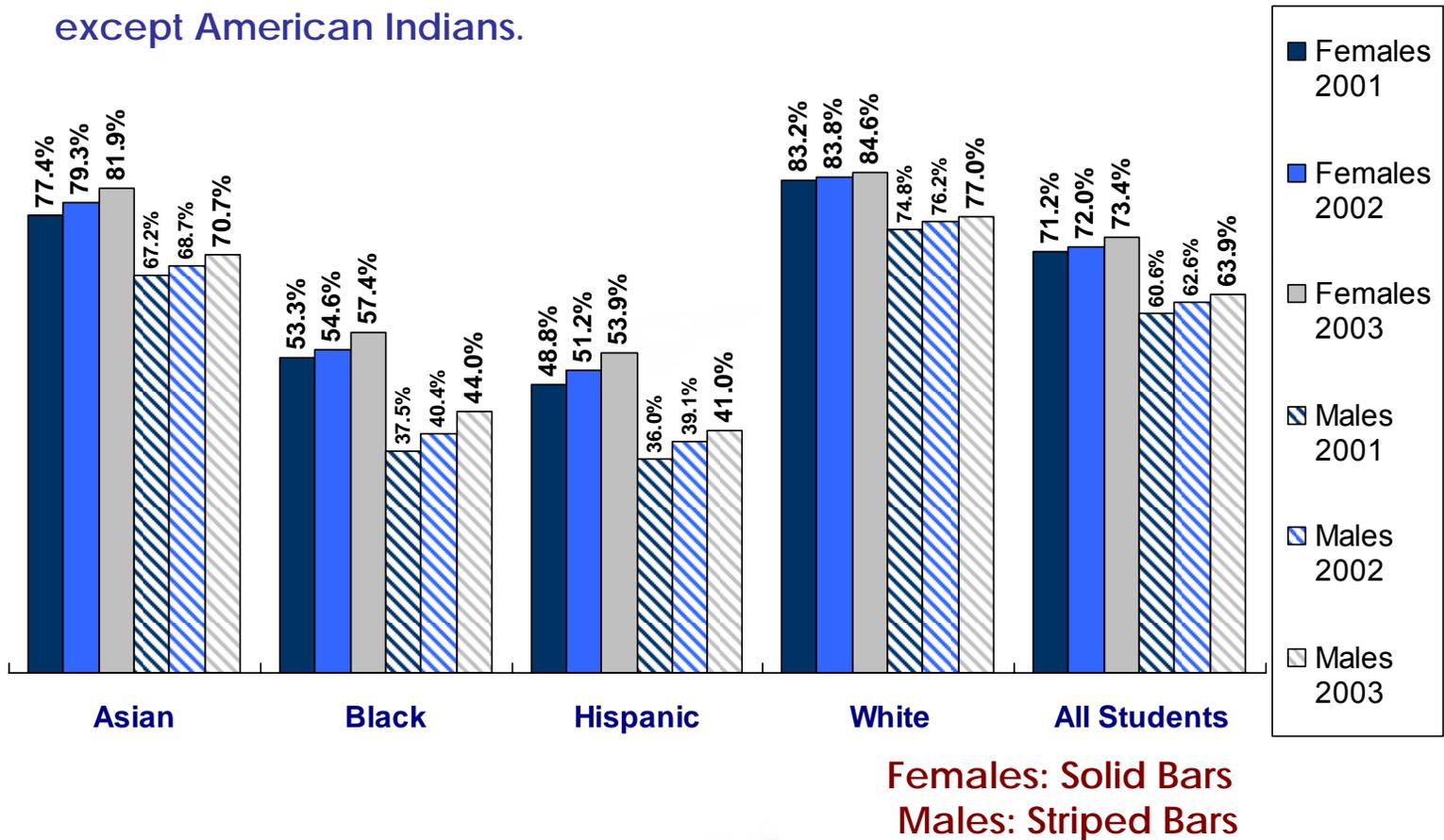


Change in NYS Enrollment Grades 1-12 by Region, 1995-06 to 2005-06



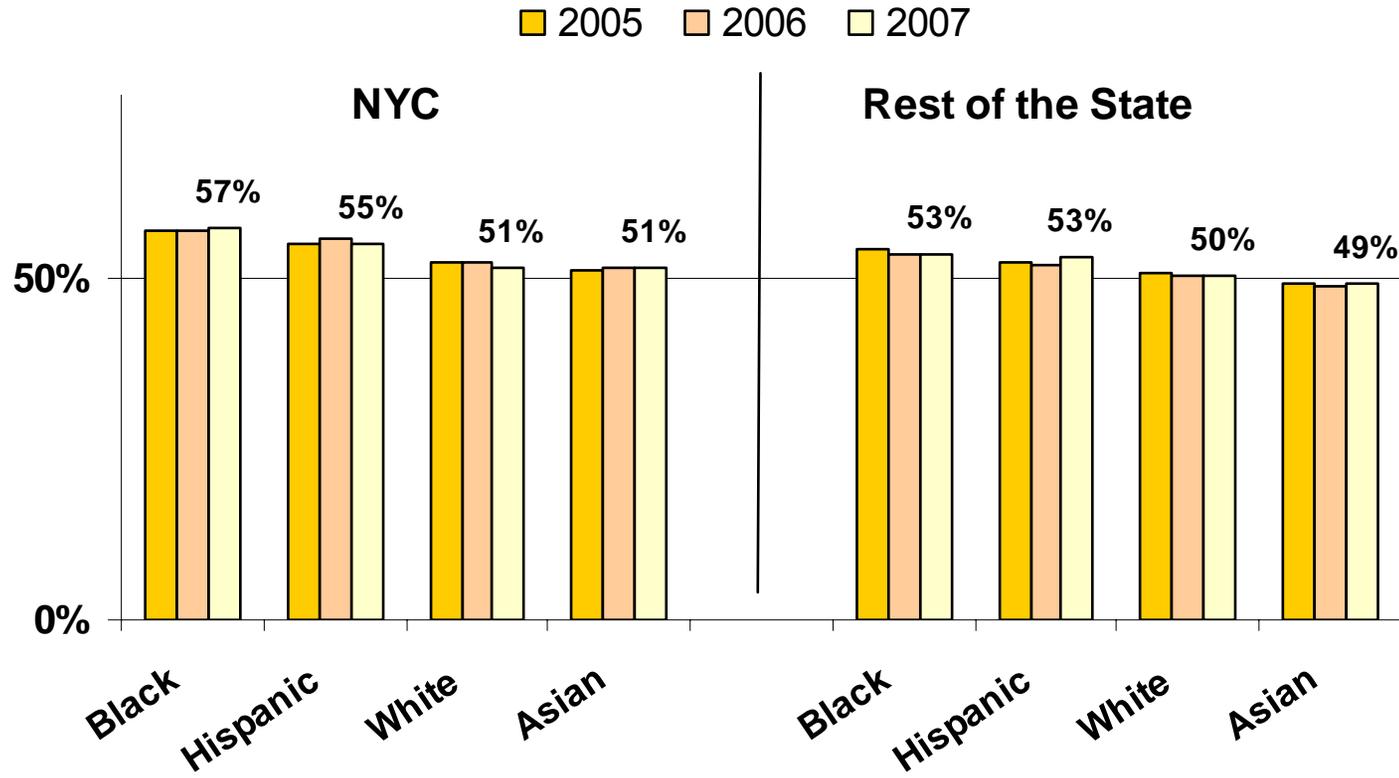
High School Graduation Rates, 2001-2003 Cohorts:

More female than male students graduate after 4 years ,
but graduation rates increased for all groups,
except American Indians.



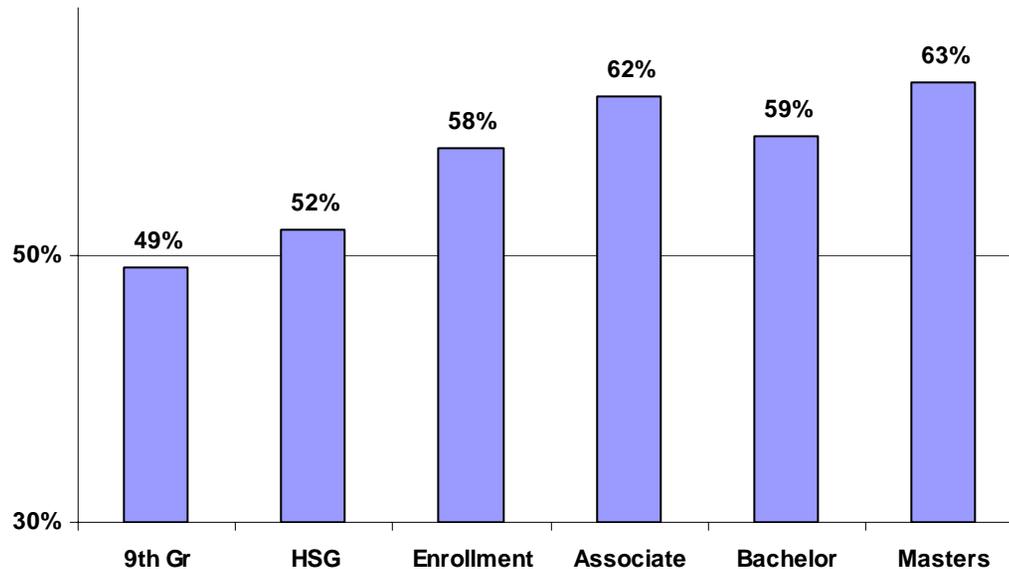
Source: NYSED, Grad-Rates06-07FINAL.ppt

High School Graduates: Percent Women



Sources: NYS Education Department (EMSC)

Female Percentage of 9th Graders, High School Graduates (HSG), College Enrollment and Degrees, 2006

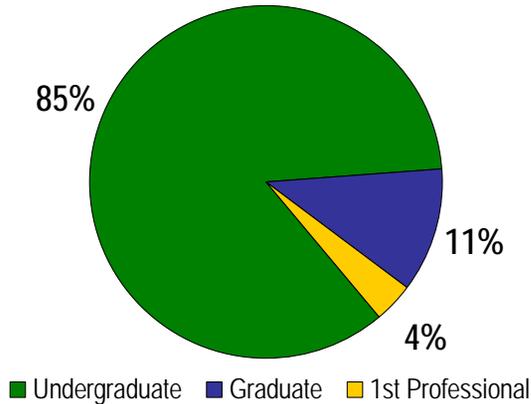


Sources: NYS Education Department (EMSC) and National Center for Educational Statistics (IPEDS)

Higher Education

- In all regions of the State
- Diversified programs of study

2008 Preliminary Full-Time Enrollment by Program Level



2006

high school graduates:

- 79% went to college
- 61% went to college in-state

undergraduate enrollment:

- 58% were women
- 75% attended full-time
- 27% in 2 yr colleges
- 79% under age 25
(of full-time)

	Colleges	2008 Preliminary Enrollment		2007 Percent: Black & Hispanic
		2-Yr	4-Yr	
SUNY	64	211,702	227,986	15%
CUNY	19	80,628	162,735	49%
Independent	148	7,123	458,673	16%
Proprietary	39	20,981	25,223	50%
Total	270	320,434	874,617	24%

Performance

- Participation of High School Graduates
- Postsecondary Remediation
- Persistence Rates
- Graduation Rates
- Still Enrolled
- Transfers – 2-Year to 4-Year
- 10 Year Graduation Rate



New York State College-Going Rate 2006

79% of New York State High School Graduates
Went to College

In-State	61%
SUNY	30%
CUNY	12%
Independent	17%
Proprietary	2%
Out-of-State	18%



Sources: NYS Education Department (EMSC)

New York Resident **First-Time** Students, 2006

Recent High School Graduates

4-Year Institutions

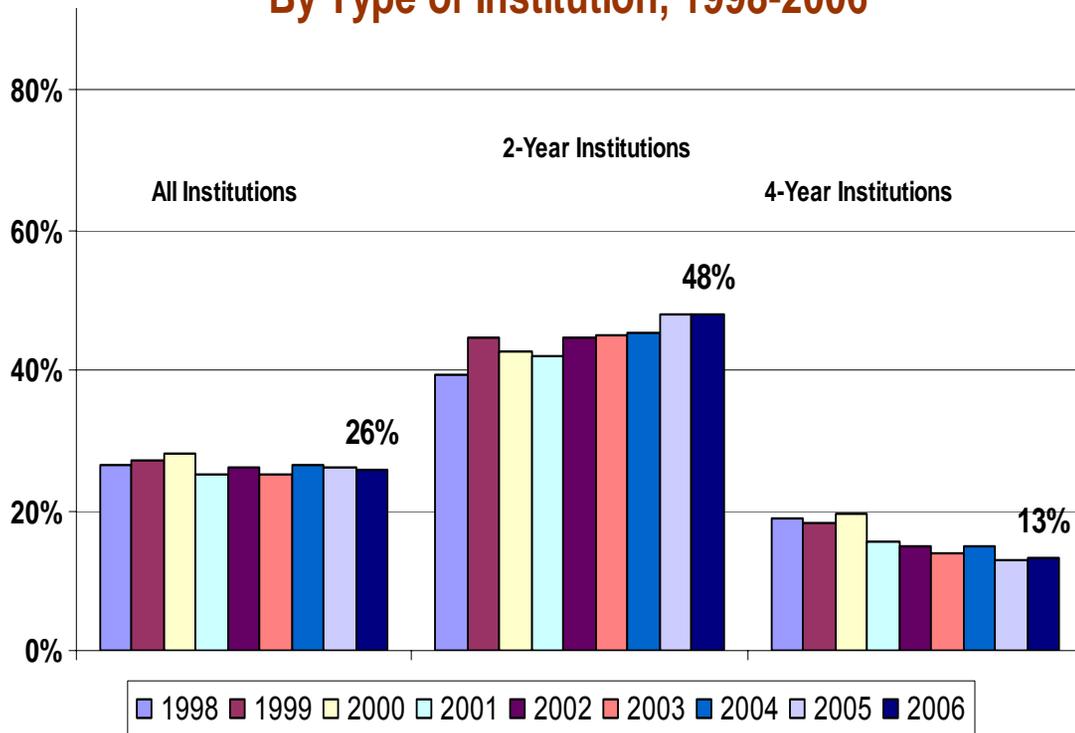
SUNY	93%
CUNY	89%
Independent	87%
Proprietary	48%
New York State	88%

2-Year Institutions

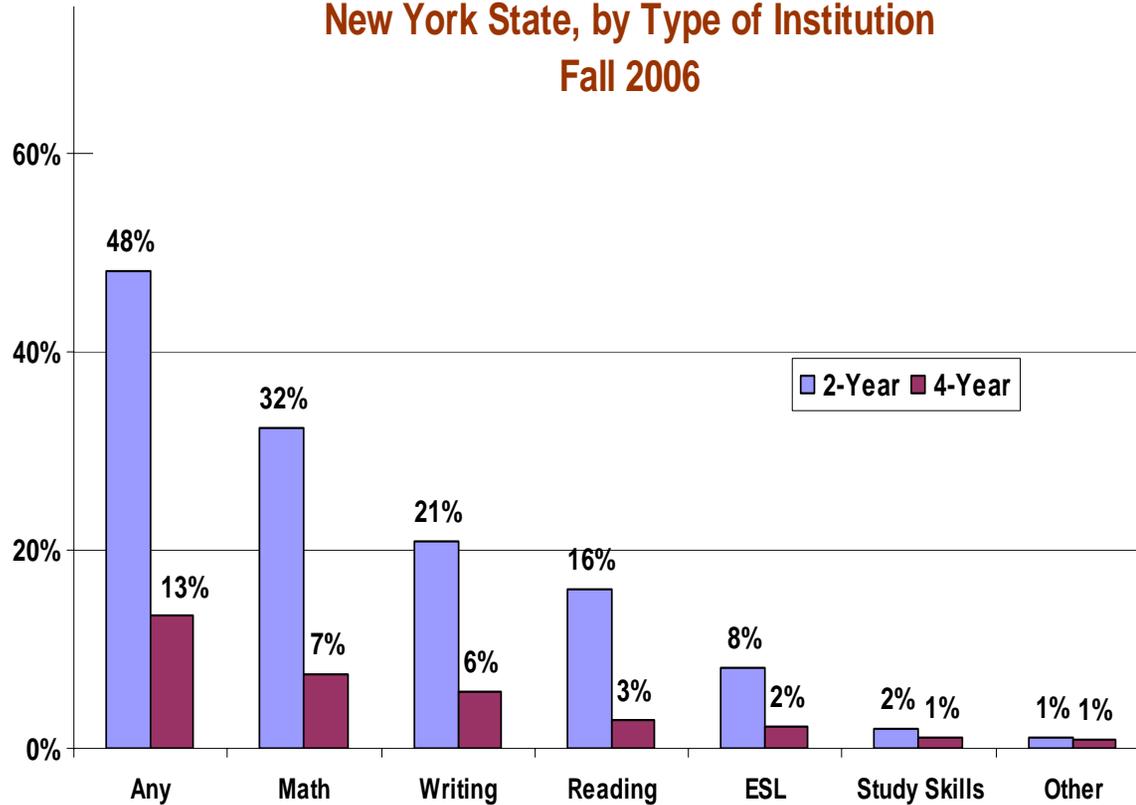
SUNY	70%
CUNY	60%
Independent	25%
Proprietary	24%
New York State	62%



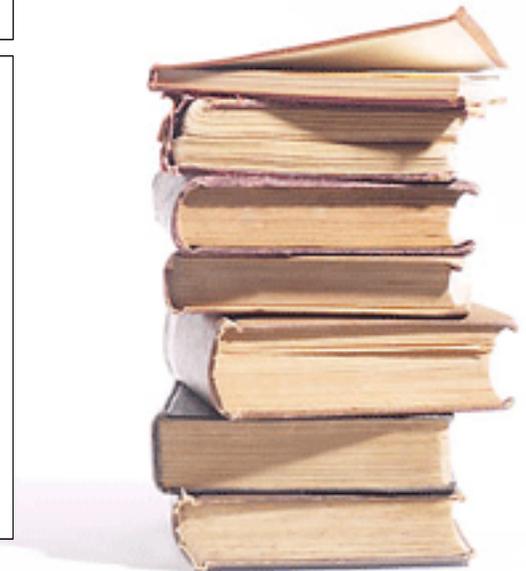
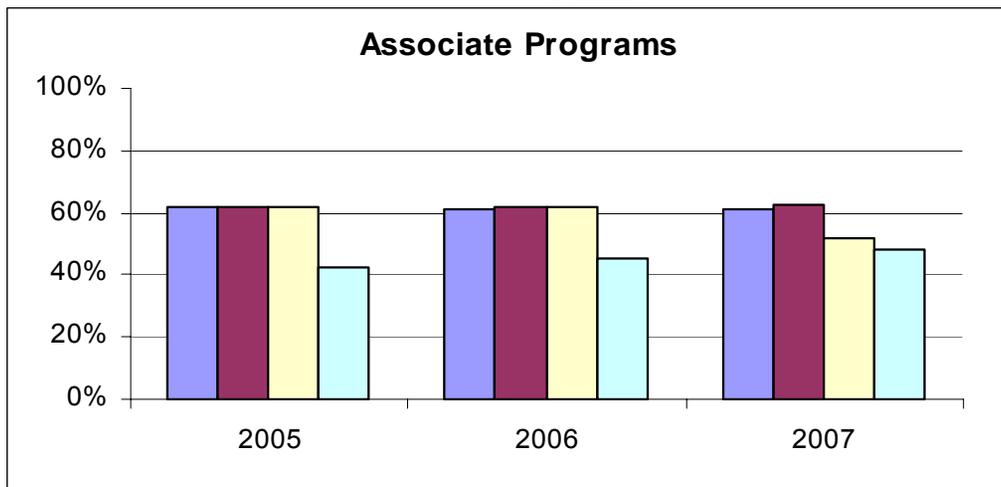
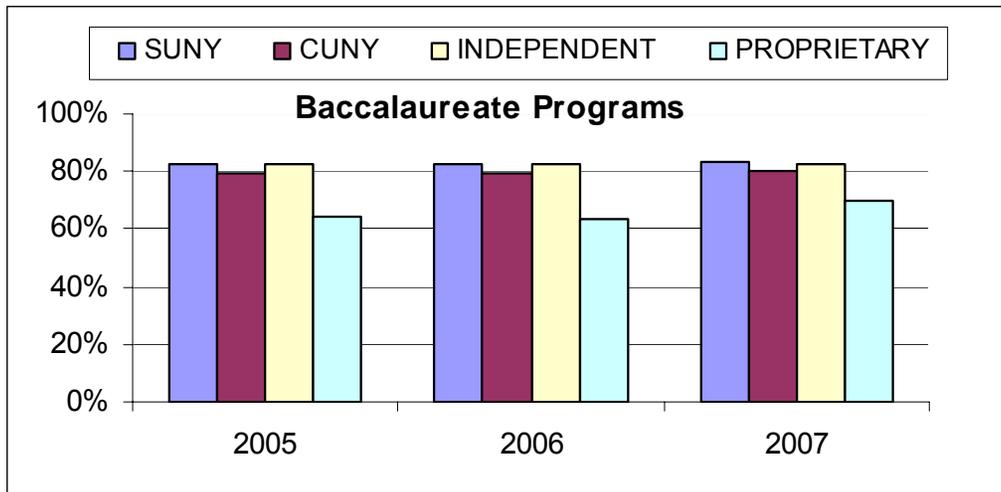
New York State First-Time Students Taking Remedial Coursework By Type of Institution, 1998-2006



First-Time Students Taking Remedial Coursework New York State, by Type of Institution Fall 2006

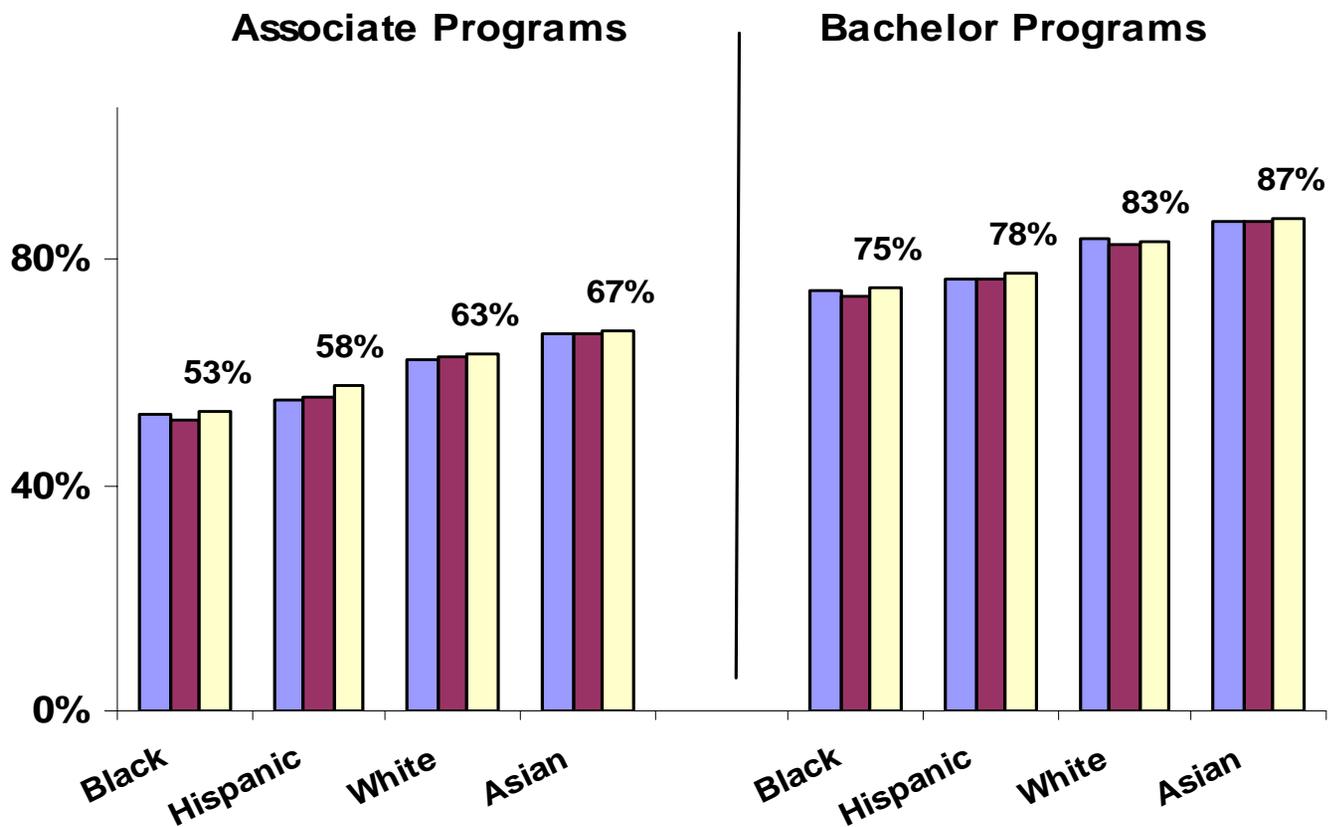


Fall Full-Time, First-Time Students Persisting from First to Second Year



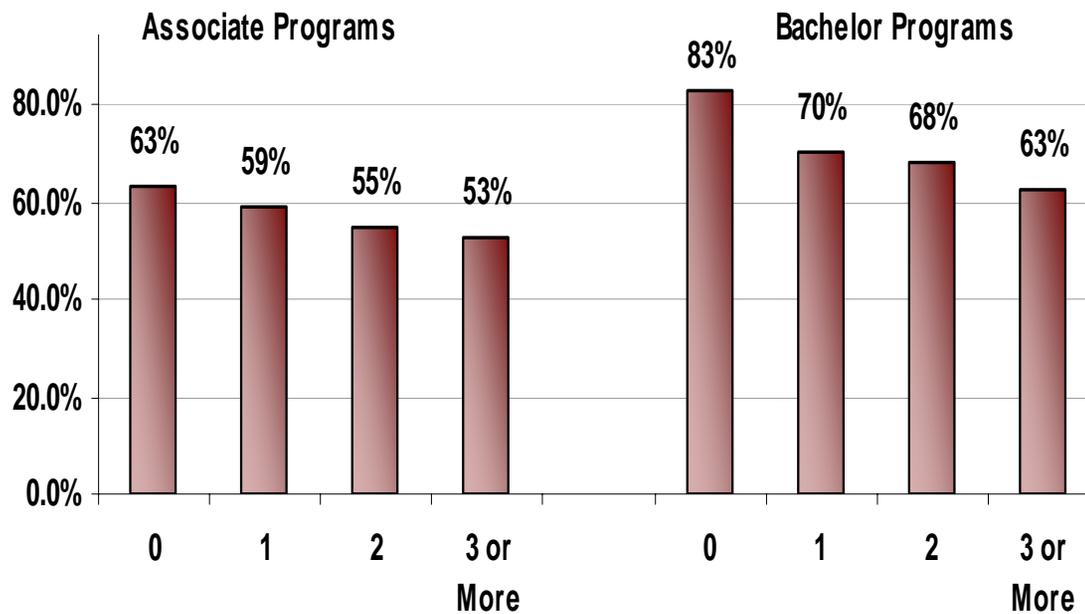
Fall to Fall Persistence of Full-Time, First-Time Students by Race/Ethnicity

■ 2005 ■ 2006 ■ 2007



New York State Fall 2006 to Fall 2007 Persistence of Full-time First-time Students

by Number of Remedial Courses Taken



Associate Degree Graduation Rate at Institution First Entered, 2007

	Within 3 Years	Percent Still Enrolled
SUNY	25%	13%
CUNY	10%	23%
Independent	40%	13%
Proprietary	34%	2%
New York State	23%	14%

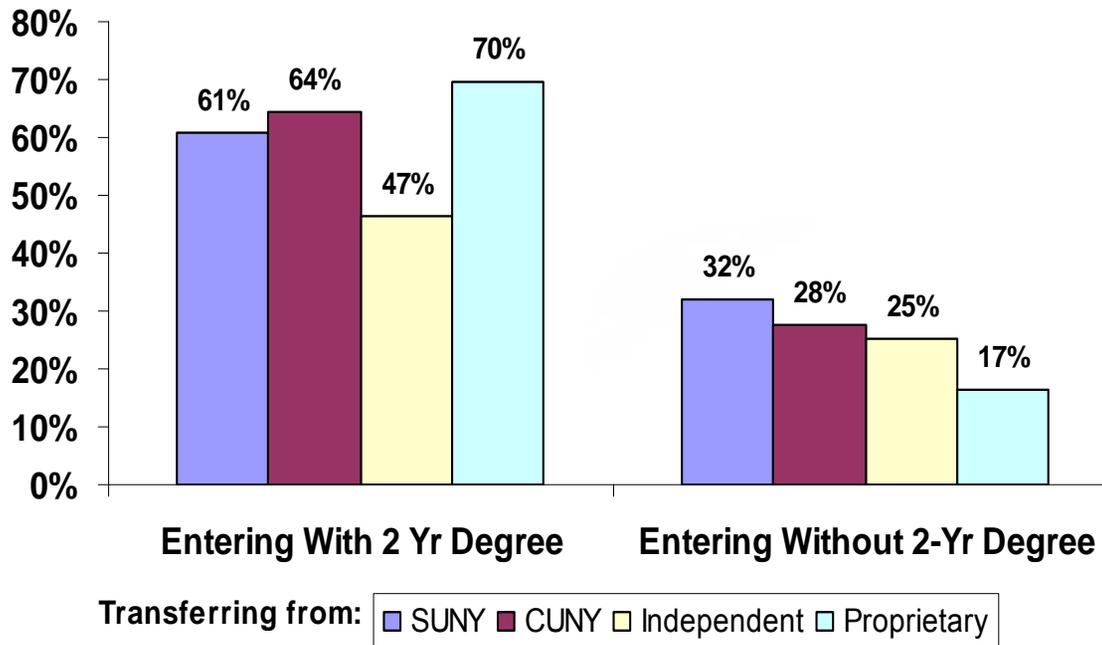


Transfers from 2-Year Institutions to 4-Year Institutions, 2007

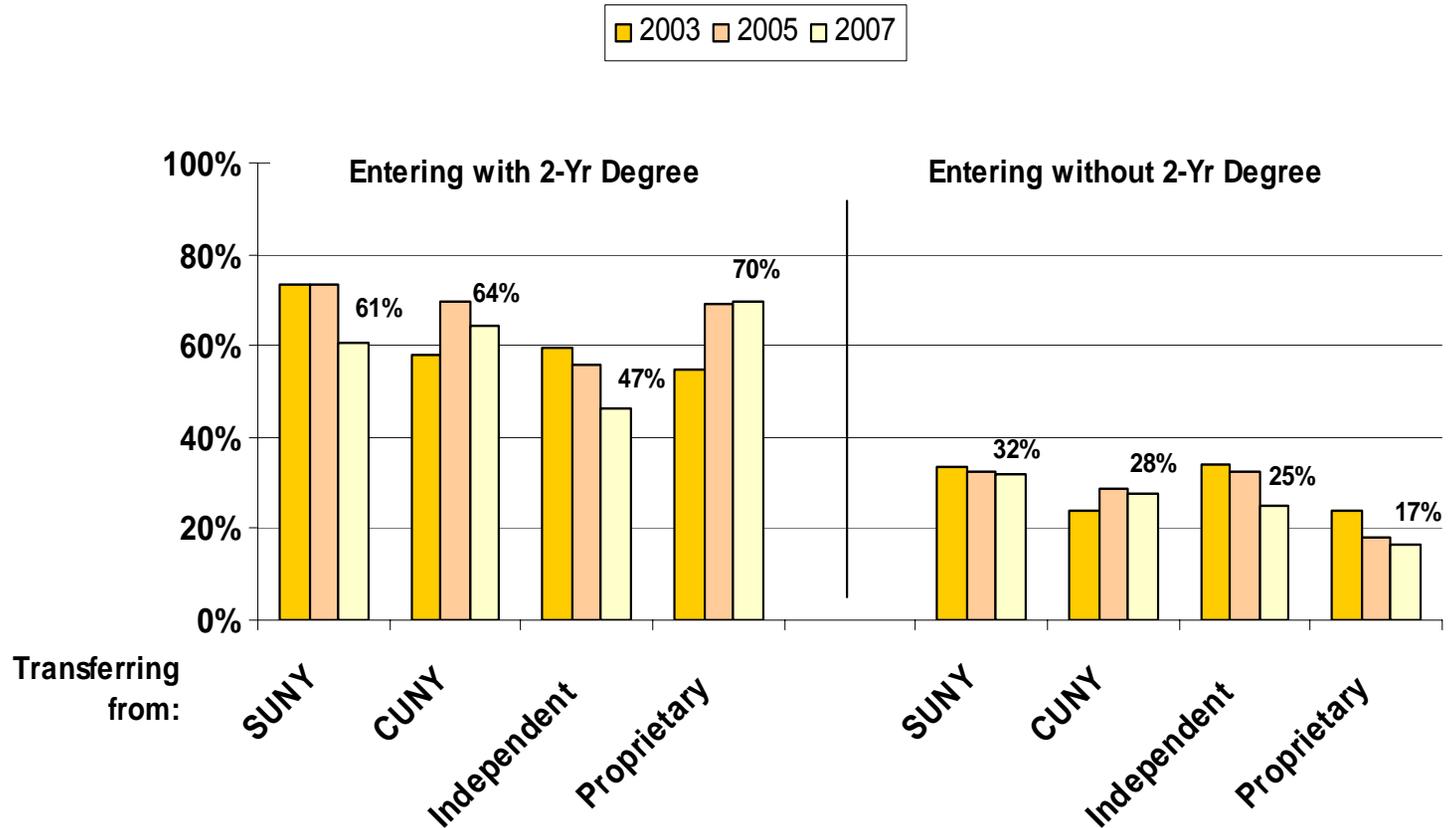
Percent of Freshman Class Transferring:

	With Degree	Without Degree	Total
SUNY	14%	19%	33%
CUNY	10%	31%	41%
Independent	11%	33%	44%
Proprietary	5%	5%	10%
New York State	12%	20%	32%

Percent of Transfers from 2-Year to 4-Year Colleges Who Entered Upper Division, 2007



Percent of Transfers from 2-Year to Who Entered Upper Division in Any NYS 4-Year College, 2003 - 2007



Baccalaureate Degree Graduation Rate at Institution First Entered, 2007

	Within 6 Years	Percent Still Enrolled
SUNY	60%	2%
CUNY	44%	7%
Independent	67%	1%
Proprietary	46%	1%
New York State	63%	2%

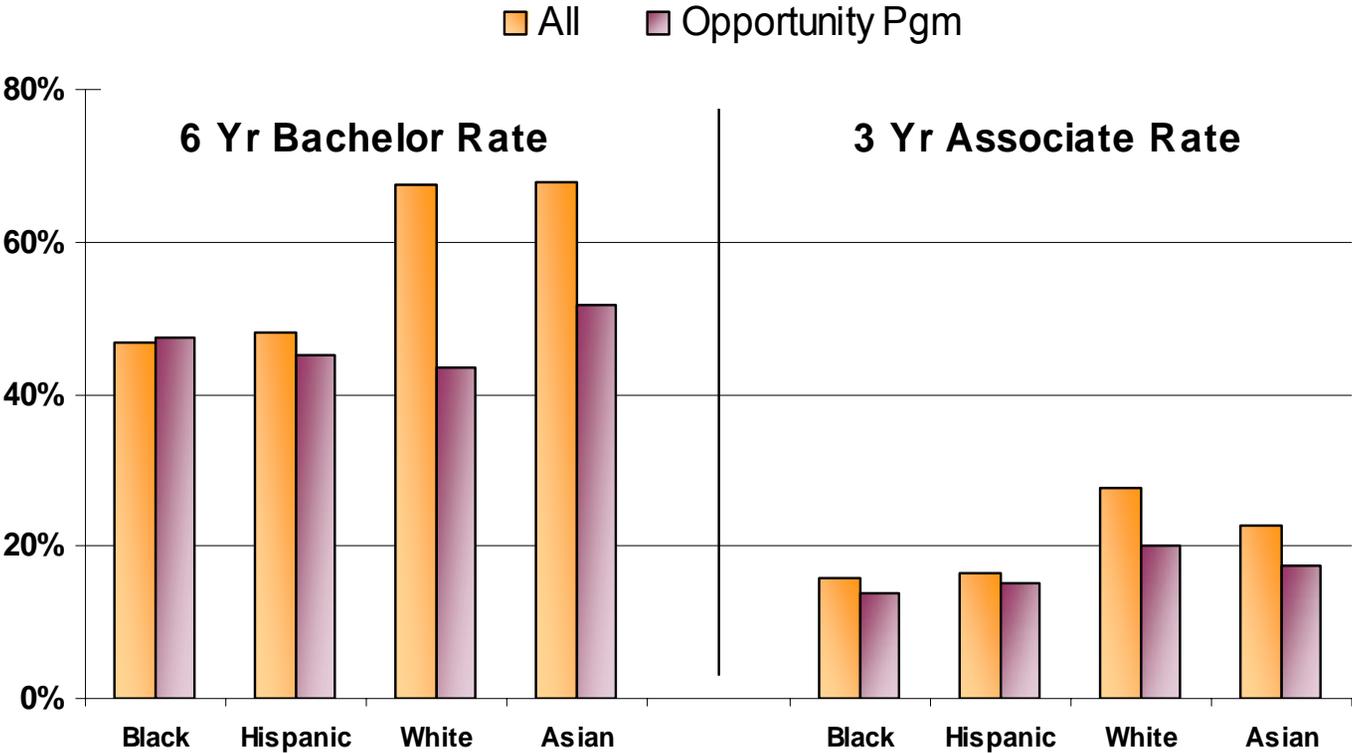


Opportunity Program Graduation Rates

Associate Programs	Cohort		3-Yr Rate		% Still Enrolled	
	1994	2004	1997	2007	1997	2007
SUNY	1,139	1,250	19%	20%		11%
CUNY	1,363	1,631	6%	12%		24%
Independent	149	108	42%	29%		20%
Proprietary	25	1	24%	100%		0%
Bachelor Programs	Cohort		6-Yr Rate		% Still Enrolled	
	1991	2001	1997	2007	1997	2007
SUNY	1,671	1,518	36%	49%		3%
CUNY	2,196	1,476	15%	36%		9%
Independent	1,295	1,283	49%	60%		2%
Proprietary	0	22		14%		0%

NOTE: These rates are slightly lower than the averages for all students in each sector.

Graduation Rates for All Students and for Opportunity Program Students, 2007



Ten Year Graduation Rate

		3 Year	Estimated 10 Year	Gain*
Associate Program (2007)				
	SUNY	24%	34%	10%
	CUNY	10%	27%	17%

		6 Year	10 Year	Gain
Baccalaureate Program (2007)				
	SUNY	60%	61%	1%
	CUNY	44%	47%	3%

*Gain achieved for the 1997 cohort (graduates through spring, 2007) used to estimate the 10-year rate for 2004 associate and 2001 baccalaureate cohorts

New York State Graduation Rates for Associate Programs: Putting the Pieces Together 2007 Rates

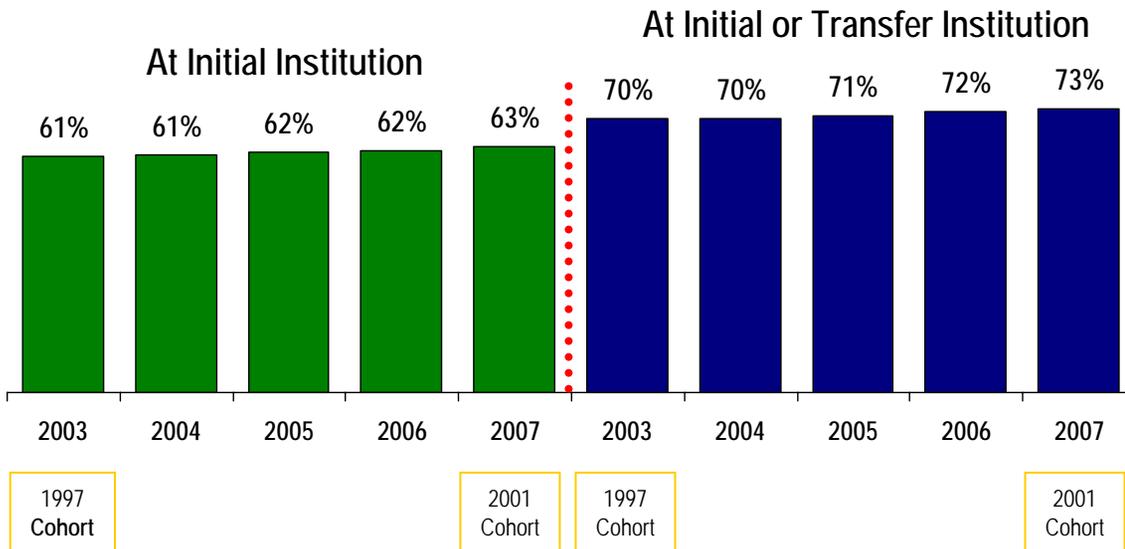
	% of Entrants
What happened to Entrants to Associate Programs?	
Associate in 3 years	23.4%
Associate in 4-10 years	8.6%
Associate after Transferring In-state	2.8%
Bachelor after Transferring In-state	12.3%
Degree after Transferring Out-of-State	?
Total receiving a degree	47.1%

New York State Graduation Rates for Bachelor Programs: Putting the Pieces Together 2007 Rates

	% of Entrants
What happened to Entrants to Bachelor Programs?	
Bachelor in 6 years	62.9%
Bachelor in 7-10 years	1.2%
Associate after Transferring In-state	2.4%
Bachelor after Transferring In-state	10.0%
Degree after Transferring Out-of-State	?
Total receiving a degree	76.5%

Investment Yields Increased Success

Six-Year Baccalaureate Program Graduation Rate:
Percent of Full-time, First-time Entrants Earning Baccalaureate Degrees



Rising graduation rates consistently surpass U.S. average

6-Year Baccalaureate Graduation Rate
At Initial Institution

	Black	Hispanic	Disabilities
2003	42%	43%	63%
2007	47%	48%	62%

Students with Disabilities Enrollment

1999: 30,593	2007: 42,839
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- More students with disabilities; graduation rate improving
- Some progress in closing the performance gap

Continue to build on this record

Degrees Awarded Five Year Growth: 2001-02 to 2006-07

	Associate Degree	Baccalaureate Degree	Master's Degree
SUNY	6%	16%	15%
CUNY	22%	12%	28%
Independent	17%	11%	25%
Proprietary	25%	67%	57%
New York State	13%	13%	24%



Source: National Center for Educational Statistics (IPEDS)

NYS Degrees Awarded – Top 10 Program Areas, 2001-02 and 2006-07

	Associates 2006-07	Bachelors 2006-07	Masters 2006-07	Doct/FirstProf. 2006-07	Total 2001-02	Total 2006-07	% Chg	2006-07 Share
Business, Mgmt, Marketing & Rel. Services	12,464	22,808	11,195	110	31,375	46,577	48.5%	18.5%
Education	896	7,510	22,575	438	26,501	31,419	18.6%	12.5%
Health Professions	11,615	7,346	5,046	3,608	19,516	27,615	41.5%	11.0%
Liberal Arts & Sciences	16,586	6,028	865	6	20,489	23,485	14.6%	9.3%
Visual and Performing Arts	2,923	9,649	2,841	208	13,082	15,621	19.4%	6.2%
Social Sciences	29	11,351	2,107	361	14,158	13,848	-2.2%	5.5%
Psychology	15	8,453	1,901	469	9,050	10,838	19.8%	4.3%
Public Admin. & Social Service	1,300	2,190	4,242	77	7,027	7,809	11.1%	3.1%
Computer & Info. Sci & Support	2,330	3,424	2,029	172	11,133	7,955	-28.5%	3.2%
Legal Professions and Studies	950	349	954	4,640	6,320	7,469	18.2%	3.0%
Total New York State Degrees					215,566	251,437	16.6%	100.0%

51%

----- 76%

Source: National Center for Educational Statistics (IPEDS)

NYS Degrees Awarded, Selected Program Areas 2001-02 and 2006-07

	Associates 2006-07	Bachelors 2006-07	Masters 2006-07	Doct/FirstProf. 2006-07	Total 2001-02	Total 2006-07	% Chg
Engineering	260	4,308	2,199	472	5,659	7,239	27.9%
Biological & Biomedical Sciences	83	4,548	808	564	4,614	6,003	30.1%
Engineering Technologies	2,222	810	66	0	3,754	3,098	-17.5%
Physical Sciences	47	1,726	378	380	1,991	2,531	27.1%
Mathematics & Statistics	23	1,378	561	110	1,918	2,072	8.0%
Foreign Languages, Lit. & Linguistics	34	1,259	324	134	1,331	1,751	31.6%
Total New York State Degrees					215,566	251,437	16.6%

Together, these programs totaled 9% of all degrees in 2006-07.

Source: National Center for Educational Statistics (IPEDS).

Jobs in New York Likely to Require Degrees: The Most Annual Openings

U.S. Dept. of Labor SOC Title	Wage Change 2003-07	Employment Growth 2004-14	Annual Openings
Teachers (except Special Ed)	4-7%	5-13%	8,733
Special Education	-4-7%	13-22%	1,952
Educational, Vocational, and School Counselors	5%	8%	586
Education Administrators, Elementary and Secondary	-8%	7%	523
Child, Family, and School Social Workers	14%	12%	642
Accounting and Financial Management	6-45%	-2-16%	7,256
Business Management and Administration	7-21%	-6-14%	5,622
Computer Software	21-26%	31-35%	1,916
Computer Systems	4-17%	1-45%	3,358
Computer and Information Systems Managers	18%	18%	667
Lawyers	18%	12%	1,983
Medical and Clinical Laboratory Technicians	16%	15%	441
Registered Nurses	20%	17%	6,361
Nursing Teachers, Postsecondary		20%	
Pharmacists	23%	12%	411

Only a small minority of the most plentiful jobs require degrees.

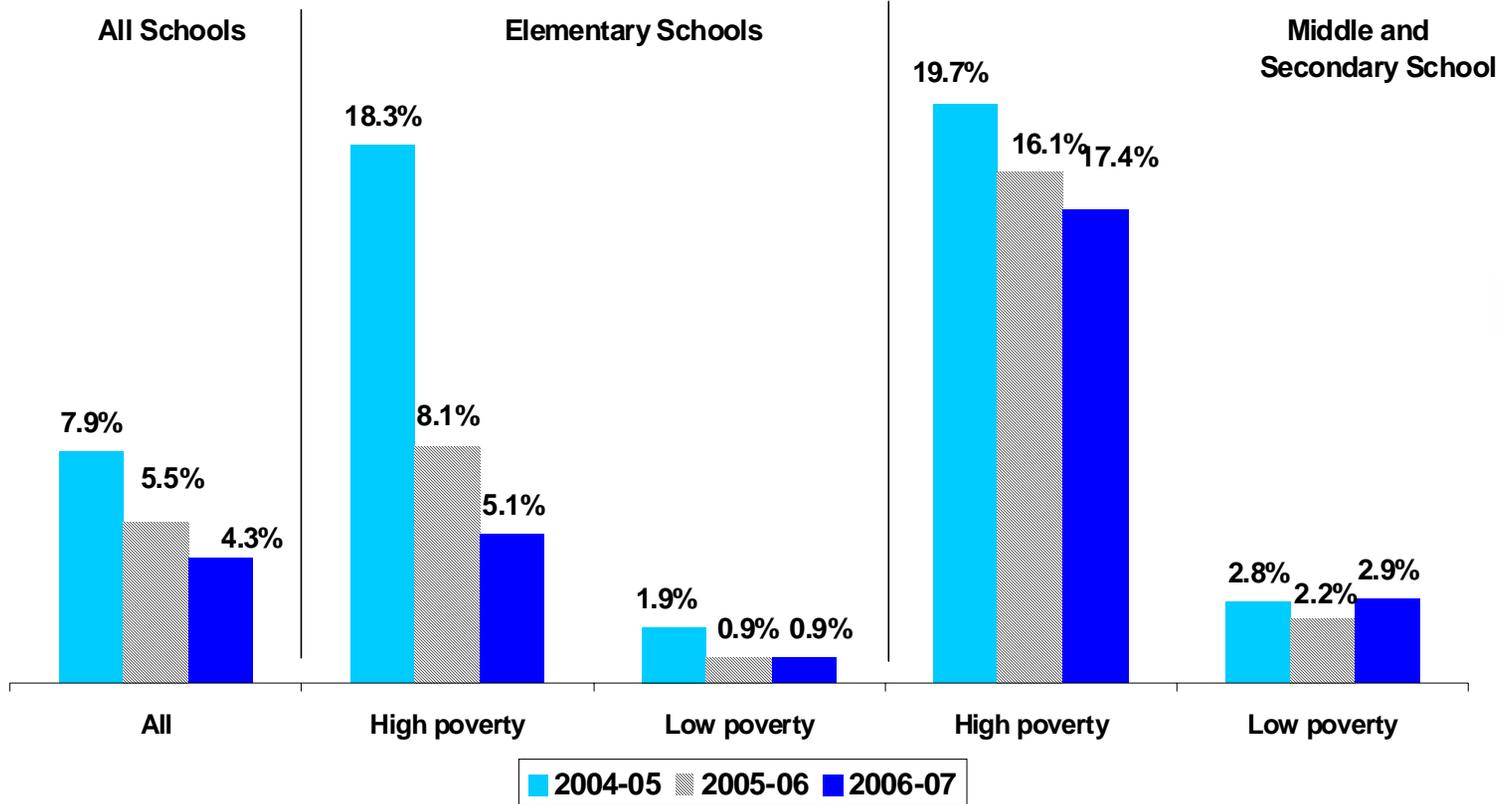
Source: <http://occsupplydemand.org/>, which displays U.S. Dept. of Labor and U.S. Dept. of Education data. NYSED is collaborating with the NY Labor Dept. to improve the usefulness of the site's New York information.

U. S. Outlook: Science, Engineering and Math (Excluding Teachers)

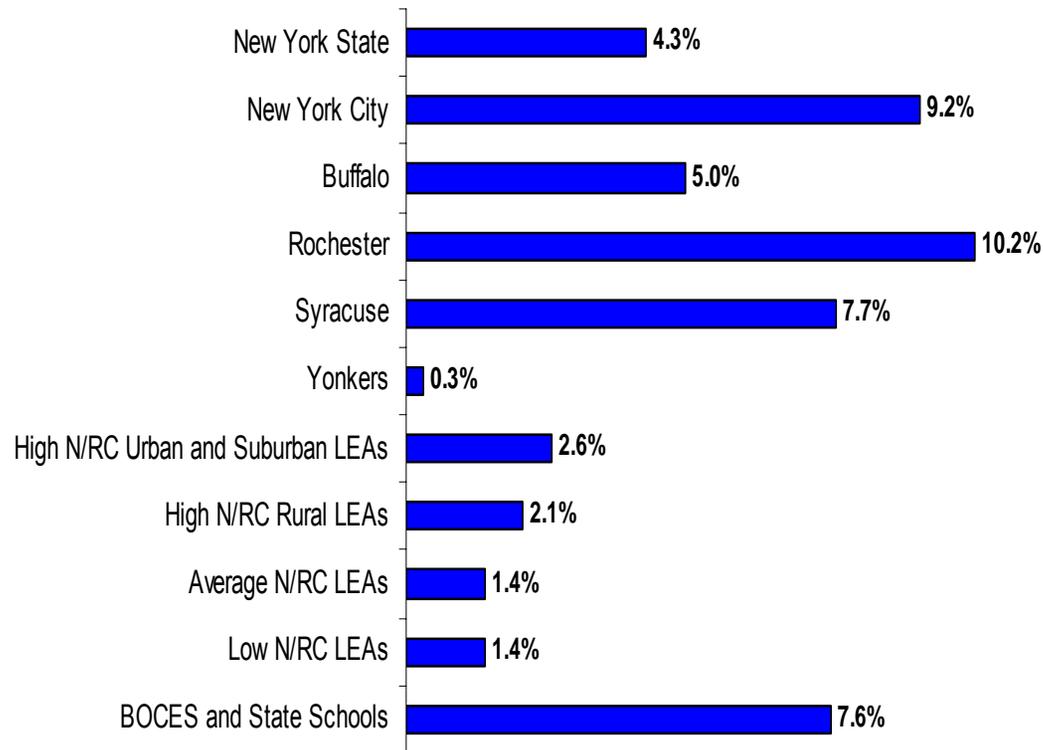
	Wage Change 2003 to 2007	Employment Growth 2004 to 2014	Annual Openings
Biochemists and Biophysicists	27%	21%	1,000
Biological/Life Science	12 to 27%	13 to 21%	5,000
Biological Technicians	16%	17%	2,000
Chemical Engineers	11%	11%	1,000
Chemical Technicians	10%	4%	2,000
Electrical Engineers	14%	12%	5,000
Electronic Engineers	17%	10%	4,000
Environmental Engineers	30%	30%	2,000
Industrial Engineering	14%	16%	7,000
Mathematicians	16%	-1%	NA
Mechanical Engineers	13%	11%	9,000
Microbiologists	16%	17%	1,000
Nuclear Engineers	13%	7%	1,000
Physicists	13%	7%	1,000
Physical Scientists, All Other	NA	7%	1,000
Statisticians	17%	5%	1,000
Zoologists and Wildlife Biologists	12%	13%	1,000

Source: <http://occsupplydemand.org/>, which displays U.S. Dept. of Labor and U.S. Dept. of Education data. NYSED is collaborating with the NY Labor Dept. to enhance the site's New York information.

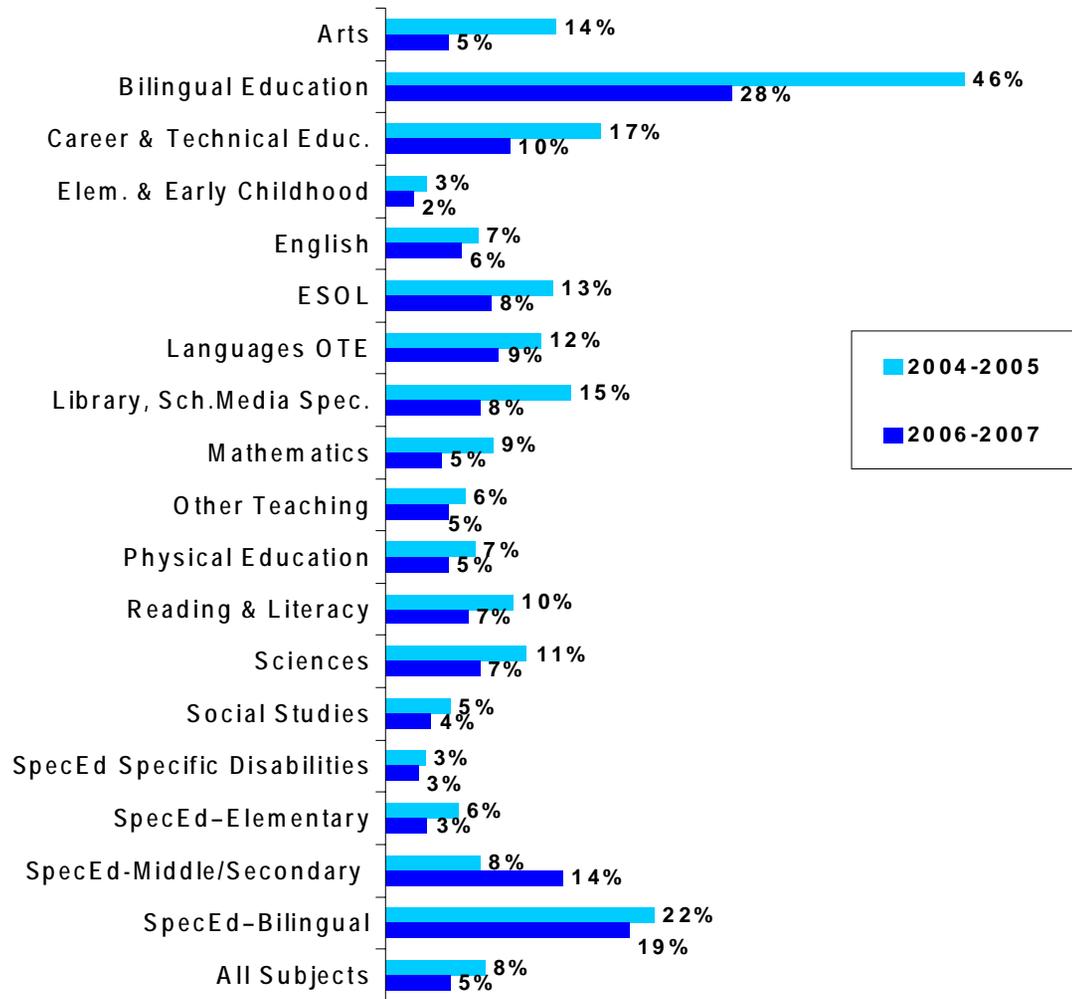
Percent of Classes in Core Academic Subjects Taught by Teachers Who Were Not Highly Qualified



Percent of 2006-07 Core Classes Taught by Teachers Not Highly Qualified in Each Need/Resource Category



Percent of FTE Teaching Assignments Held by Teachers without Appropriate Certification



Tuition & Fees – In-State

(Enrollment-weighted)

2008-09 **Change**
from 2003-04

4-Year Institutions

SUNY	\$5,935	12%
CUNY	\$4,360	2%
Independent	\$29,419	36%
Proprietary	\$14,885	11%

2-Year Institutions

SUNY	\$3,679	27%
CUNY	\$3,137	2%
Independent	\$10,844	21%
Proprietary	\$15,483	29%

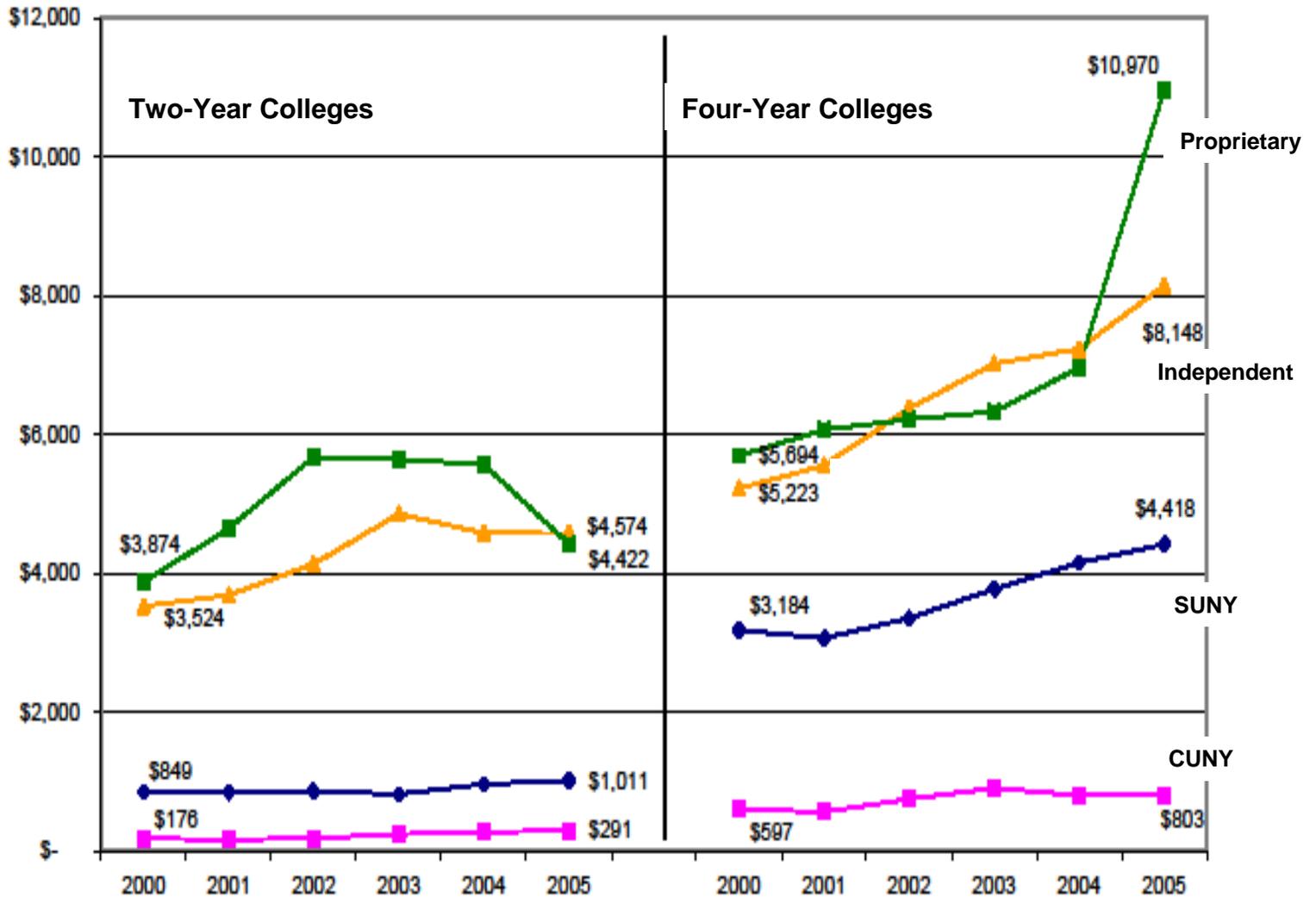


Student Financial Aid, 2005-06

	Percent of Undergraduates Receiving TAP and PELL		Federal Loans
	TAP/FTUG	Pell/All UG	Loans/FTE UG*
4-Year Institutions			
SUNY	44%	27%	\$ 4,418
CUNY	44%	37%	\$ 803
Independent	31%	24%	\$ 8,148
Proprietary	34%	78%	\$10,970
New York State	37%	29%	\$ 5,607
2-Year Institutions			
SUNY	31%	21%	\$ 1,011
CUNY	38%	40%	\$ 291
Independent	41%	47%	\$ 4,574
Proprietary	47%	60%	\$ 5,389
New York State	35%	30%	\$ 1,385

* Does not include private loans which add another 33% statewide (data by sector not available).

Average Federal Loan Total per Full-time Equivalent Undergraduate, 2005-06



Keep Higher Education Affordable

- New York 1st in grant aid per student; 5th in percent of low-income students in college
- 2008: NY public 4-yr undergraduate tuition and fees below national average: SUNY: 10% and CUNY: 24%
- Undergraduate education less affordable:

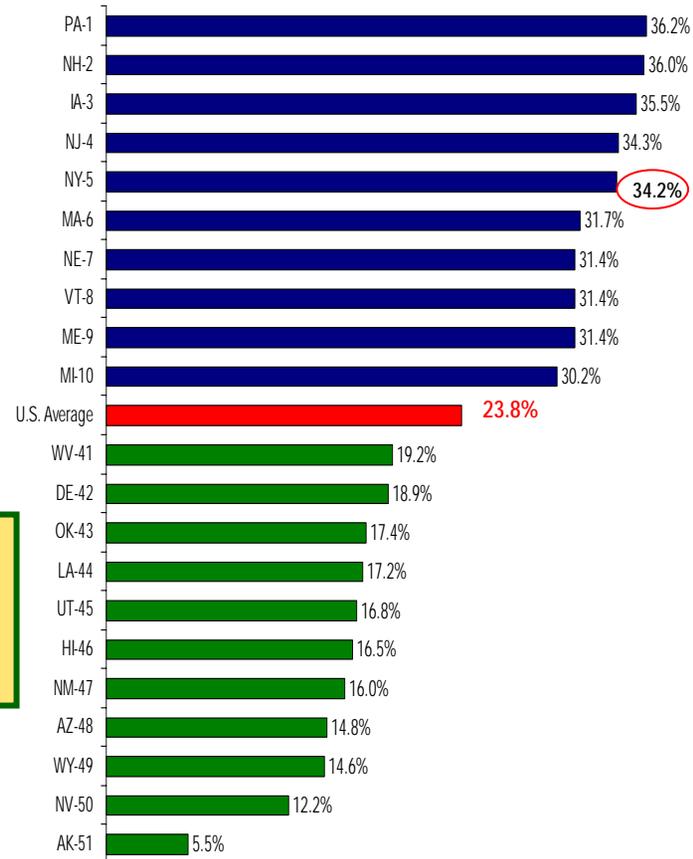
Average Federal Loan per Full-time Equivalent Undergraduate At 4 Year Institutions: 2005-06

Sector	Each Yr	4-Yr Total
CUNY	\$803	\$3,212
SUNY	\$4,418	\$17,672
Independent	\$8,148	\$32,592
Proprietary	\$10,970	\$43,880

4-year loan are unmet need after TAP, PELL, institutional aid, and family contributions

Private loans add another 33% to the burden statewide (data by sector not available).

College Participation Rates for Dependent Undergraduates from Low Income Families by State: 2006-07



Full-Time Faculty, 2007

4-Year Institutions

SUNY	61%	State Operated Colleges, excludes Fashion Institute
CUNY	44%	
Independent	54%	
Proprietary	22%	
New York State	52%	

2-Year Institutions

SUNY	32%
CUNY	38%
Independent	48%
Proprietary	31%
New York State	34%



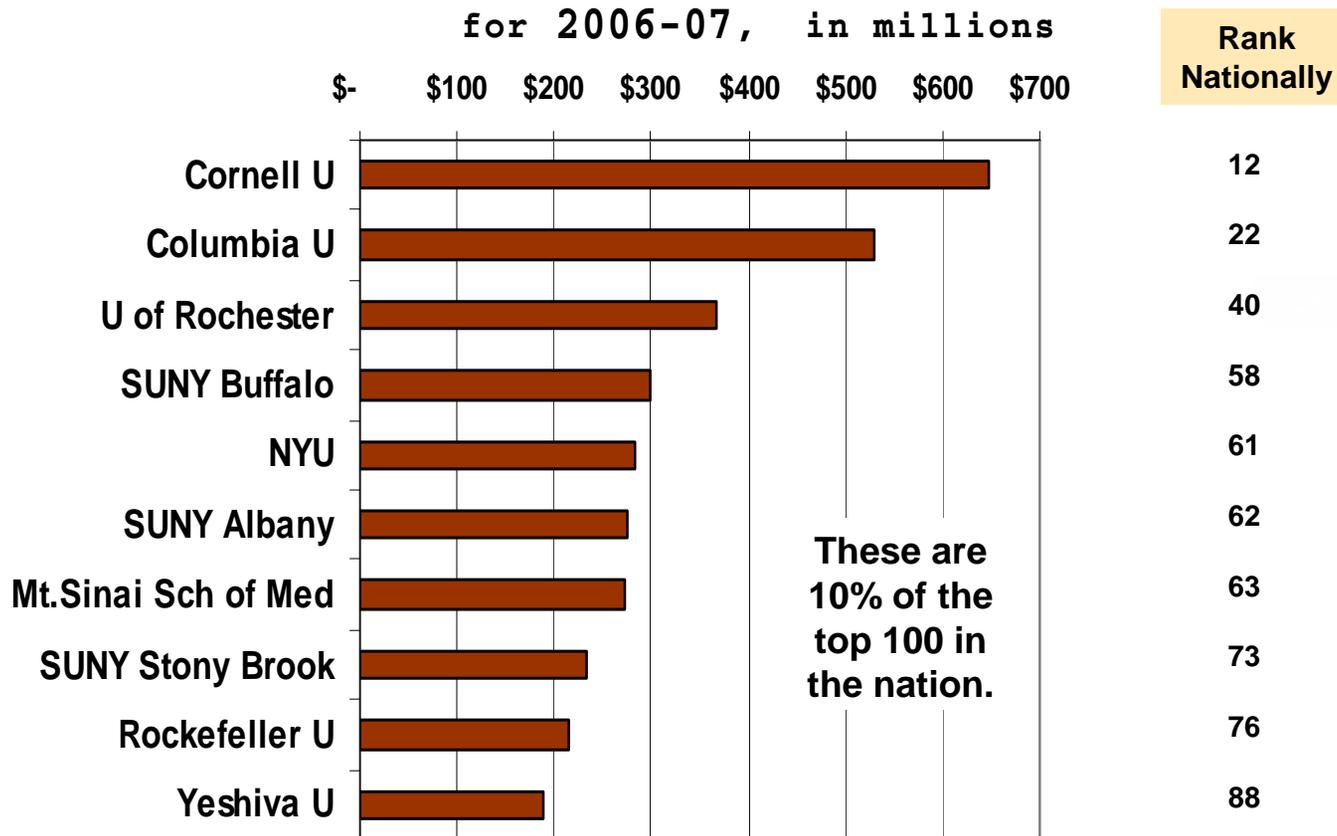
Source: National Center for Educational Statistics (IPEDS)

Research and Development Expenditures				
Selected States, 2002 and 2006, (in \$ billions)				
	2002		2006	
State	Total R&D	% of USA	Total R&D	% of USA
U.S. Total	\$36	100.0%	\$47.8	100.0%
California	\$5	13.4%	\$6.5	13.6%
New York	\$3	7.6%	\$3.8	7.9%
Texas	\$3	7.0%	\$3.3	6.8%
Maryland	\$2	5.2%	\$2.5	5.3%
Pennsylvania	\$2	5.3%	\$2.4	5.1%
Massachusetts	\$2	4.7%	\$2.2	4.5%
Illinois	\$1	4.0%	\$1.8	3.8%
North Carolina	\$1	3.5%	\$1.7	3.6%
Ohio	\$1	3.1%	\$1.6	3.4%
Florida	\$1	3.0%	\$1.5	3.2%
Michigan	\$1	3.4%	\$1.5	3.1%
Georgia	\$1	3.0%	\$1.3	2.7%



Source: National Science Foundation, 2008.

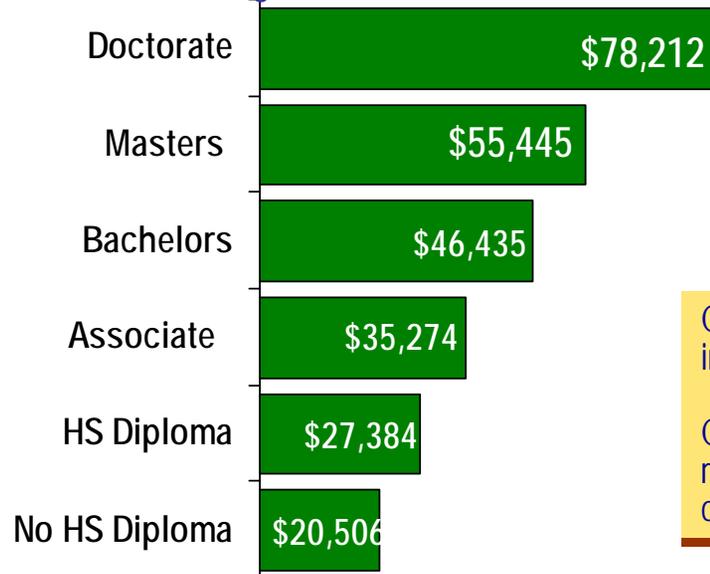
New York State Colleges with the Largest Research and Development Expenditures



Source: National Science Foundation, 2008.

Meeting the Needs of New Yorkers

By providing a skilled workforce:
Median Annual Earnings by Educational
Degree: 2006



As an Economic Engine:
Research and Development

- \$3.8 Billion in 2006-07
- 8% of the nation's total
- 10% of the top 100 research universities

College graduates are less likely to be: Unemployed, incarcerated or dependent on social safety-net programs

College graduates are more likely to have: Lower smoking rates; more positive perceptions of own health; greater civic participation

SOURCE: March 2007 Supplement,
Current Population Survey

Our Challenge:

- Serving fewer high school graduates but relatively more from less prepared populations
- Providing affordability for all but also meeting increased resource demands for community colleges
- Adapting to fewer fiscal resources especially for small colleges and those highly dependent on tuition
- Providing more skilled graduates especially in areas such nursing, teaching, math and technical professions
- Maintaining the faculty and services for quality education
- Providing the research and workforce to help our communities address the recession and their economic future