

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)

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Data Categories

- Performance
- Degrees Awarded
- Finance
- Faculty and Research
- **Enrollment**
 - Institutions
 - Demographic Trends
 - Sector Shares
 - Enrollment Trends
 - Program Levels
 - Age
 - Disabilities
 - Race/Ethnicity & Gender

270 Colleges in New York State

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

Note:

The two independent St. Vincent's nursing schools are currently transitioning into St. Paul's School of Nursing.



Source: NYSED, Higher Education Data System (HEDS)

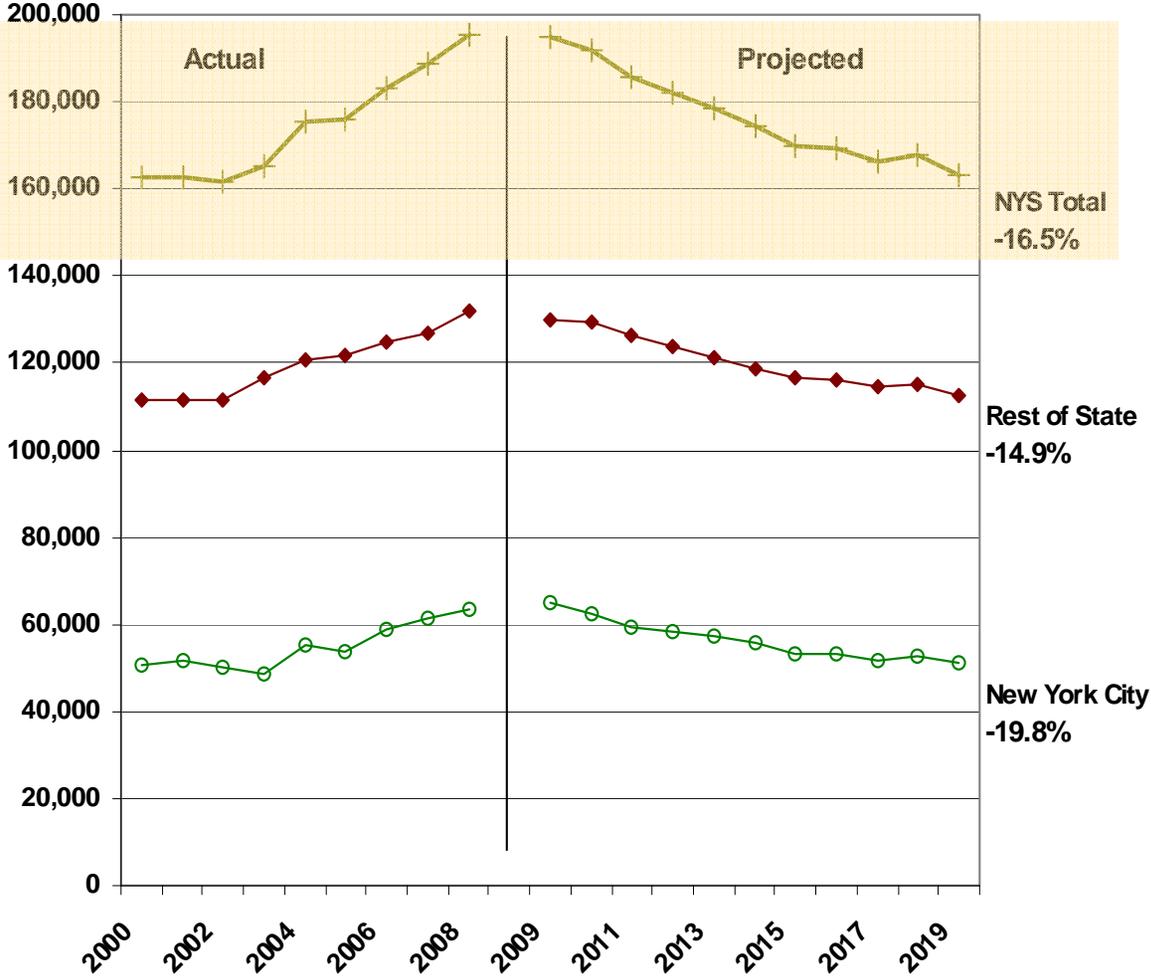
New York State Colleges by Enrollment Size, 2008-09

| Enrollment | 2-Year Colleges | | 4-Year 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 | | 42,189 | | 5,013 | |
| Largest: | Suffolk County CC | | NYU | | Teachers College | |

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

Source: NYSED, Higher Education Data System (HEDS)

NYS High School Graduate Projections
 Spring 2000 to 2008 Actual, 2009 to 2019 Projected



Source: NYSED, Office of Research and Information Systems

Projected changes in the number of high school graduates differ dramatically by race/ethnicity and by region of the state.

| Region | Race/Ethnic Group | Projected Change 2008 to 2019 |
|-------------------|--------------------------|--------------------------------------|
| New York City | Black | -37% |
| | Hispanic | -20% |
| | White | -10% |
| | Asian | -1% |
| Rest of the State | Black | -12% |
| | Hispanic | 53% |
| | White | -24% |
| | Asian | 47% |



Note: These projections assume that current graduation rates and migration patterns will continue unchanged for the next 11 years. Changing economic conditions and other environmental influences may impact these projections and may do so differently for each demographic group.

Source: NYSED, Office of Research and Information Systems

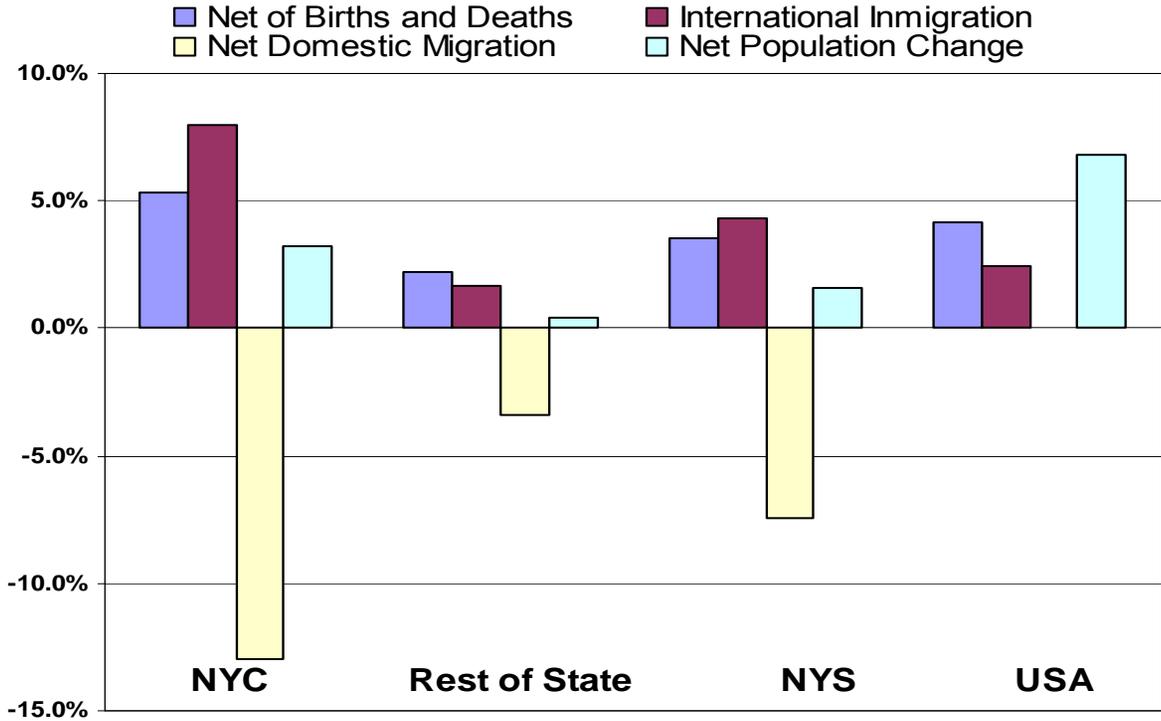
**11-Year Changes in H.S. Graduates and Corresponding Changes
in Undergraduate Enrollment
1997- 2008 and Projected 2008 to 2019**

| | 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)

Source: NYSED, Office of Research and Information Systems

Population Change 2001-2007 --- Three Factors



| 2001 to 2007 | NYC | Rest of State | NYS | USA |
|------------------------------|------------------|-------------------|-------------------|--------------------|
| Net of Births and Deaths | 425,431 | 246,806 | 672,237 | 11,815,470 |
| Net International Migration | 638,893 | 186,199 | 825,092 | 6,906,486 |
| Net Domestic Migration | -1,043,008 | -369,338 | -1,412,346 | 0 |
| Total Population 2007 | 8,274,527 | 11,023,202 | 19,297,729 | 301,290,332 |



Source: U.S. Census Bureau, Population Division

2-Year Portion of: Institutions / Sector Enrollment

E.G., 45% of SUNY colleges are 2-year colleges, and 48% of SUNY enrollment is in 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 enrollment is located in New York City.

| | |
|-------------|------|
| SUNY | 3% |
| CUNY | 100% |
| Independent | 45% |
| Proprietary | 70% |
| NYS Total | 42% |

Source: NYSED, Higher Education Data System (HEDS)

Change in Enrollment by Sector

Two-Year Colleges:

| | 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% |

* The decline is a result of both Regents actions that strengthen programs at low performing institutions and reclassification of institutions from 2-year to 4-year.



Source: NYSED, Higher Education Data System (HEDS)

Growth in Enrollment by Sector

Four-Year Colleges:

| | 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 | 161% * |
| 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.

* During this ten year time period 4 two-year proprietary colleges were authorized to award baccalaureate degrees.



Source: NYSED, Higher Education Data System (HEDS)

Undergraduate Enrollment Trends

| Preliminary Fall | Enrollment 2008 | Change 1998 to 2008 | | % Full-time 2008 |
|--------------------------|--------------------|---------------------|-----------|---------------------|
| | | Full-time | Part-time | |
| 2-Year Colleges** | | | | |
| SUNY | 211,638 | 39% | 7% | 59% |
| CUNY | 81,412 | 24% | 34% | 56% |
| Independent | 7,129 | 16% | 69% | 57% |
| Proprietary | 20,971 | -6% | 34% | 85% |
| NYS* | 321,150 | 29% | 15% | 60% |
| 4-Year Colleges** | | | | |
| SUNY | 186,947 | 23% | -12% | 86% |
| CUNY | 131,325 | 28% | 9% | 68% |
| Independent | 297,173 | 16% | -20% | 87% |
| Proprietary | 23,088 | 219% | 15% | 82% |
| NYS* | 638,533 | 23% | -8% | 83% |

** The percent changes are affected by 2-yr institutions becoming 4-yr during this time period, especially Proprietary colleges.



Source: NYSED, Higher Education Data System (HEDS)

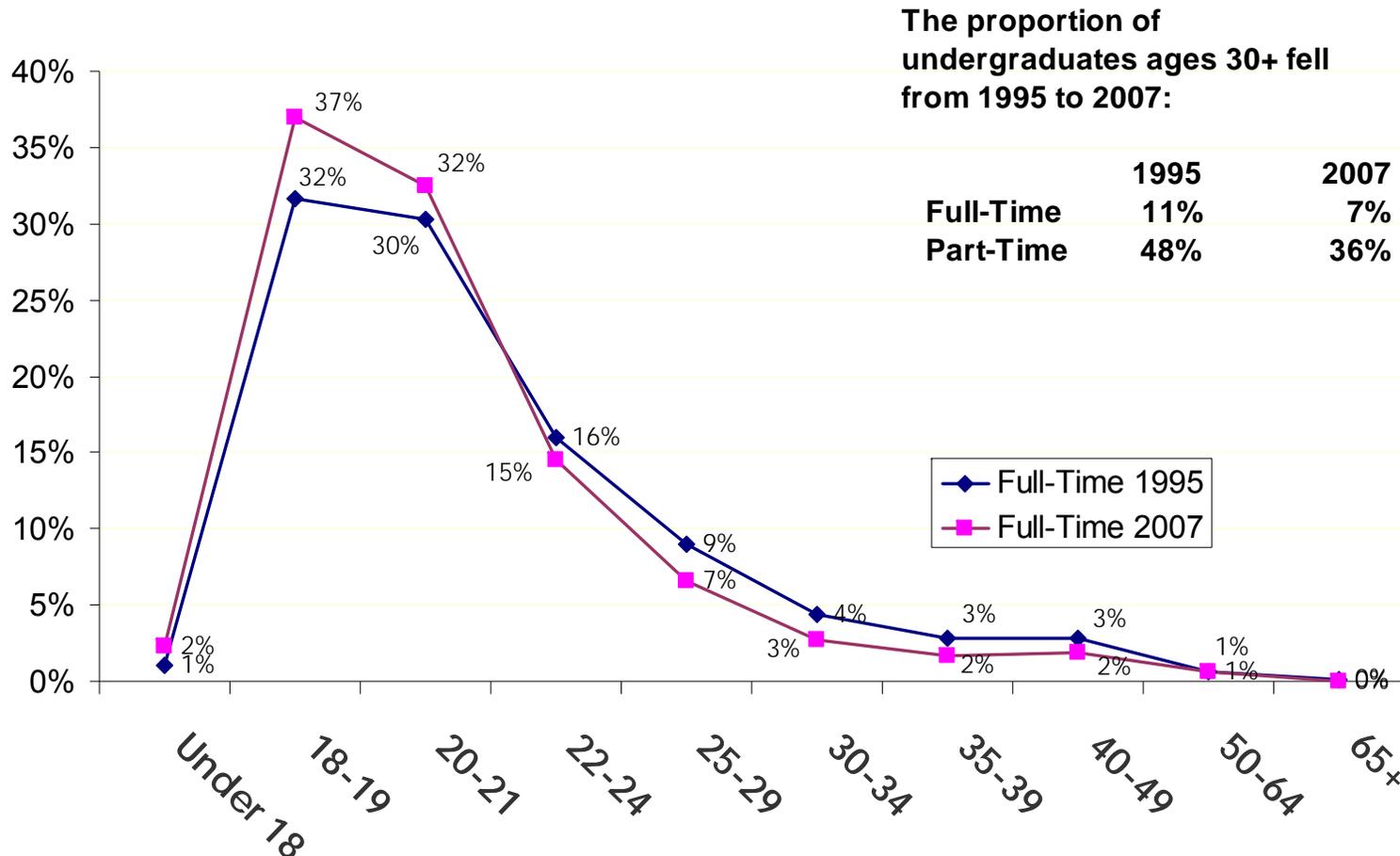
New York State Enrollment by Program Level

| | 1998 | 2008 | Change |
|--------------------|---------|---------|--------|
| Full-Time | | | |
| Undergraduate | 578,400 | 718,898 | 24% |
| Graduate | 66,900 | 96,773 | 45% |
| First-Professional | 24,900 | 30,441 | 22% |
| Total | 670,200 | 846,112 | 27% |
| Part-Time | | | |
| Undergraduate | 230,500 | 239,977 | 4% |
| Graduate | 102,500 | 105,461 | 3% |
| First-Professional | 2,900 | 3,004 | 4% |
| Total | 335,900 | 348,442 | 4% |



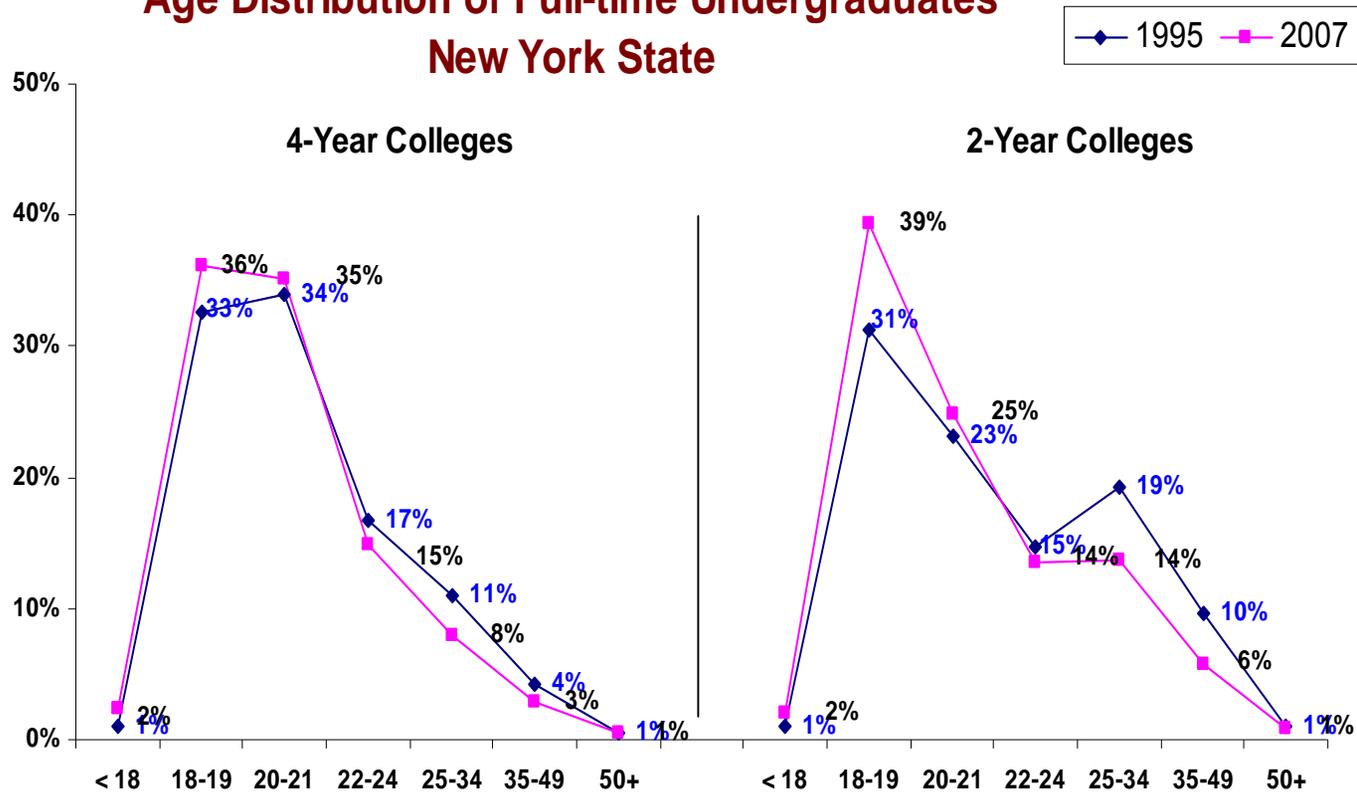
Source: NYSED, Higher Education Data System (HEDS)

Full-Time Undergraduate Age, NYS 1995-2007



Source: NYSED, Higher Education Data System (HEDS)

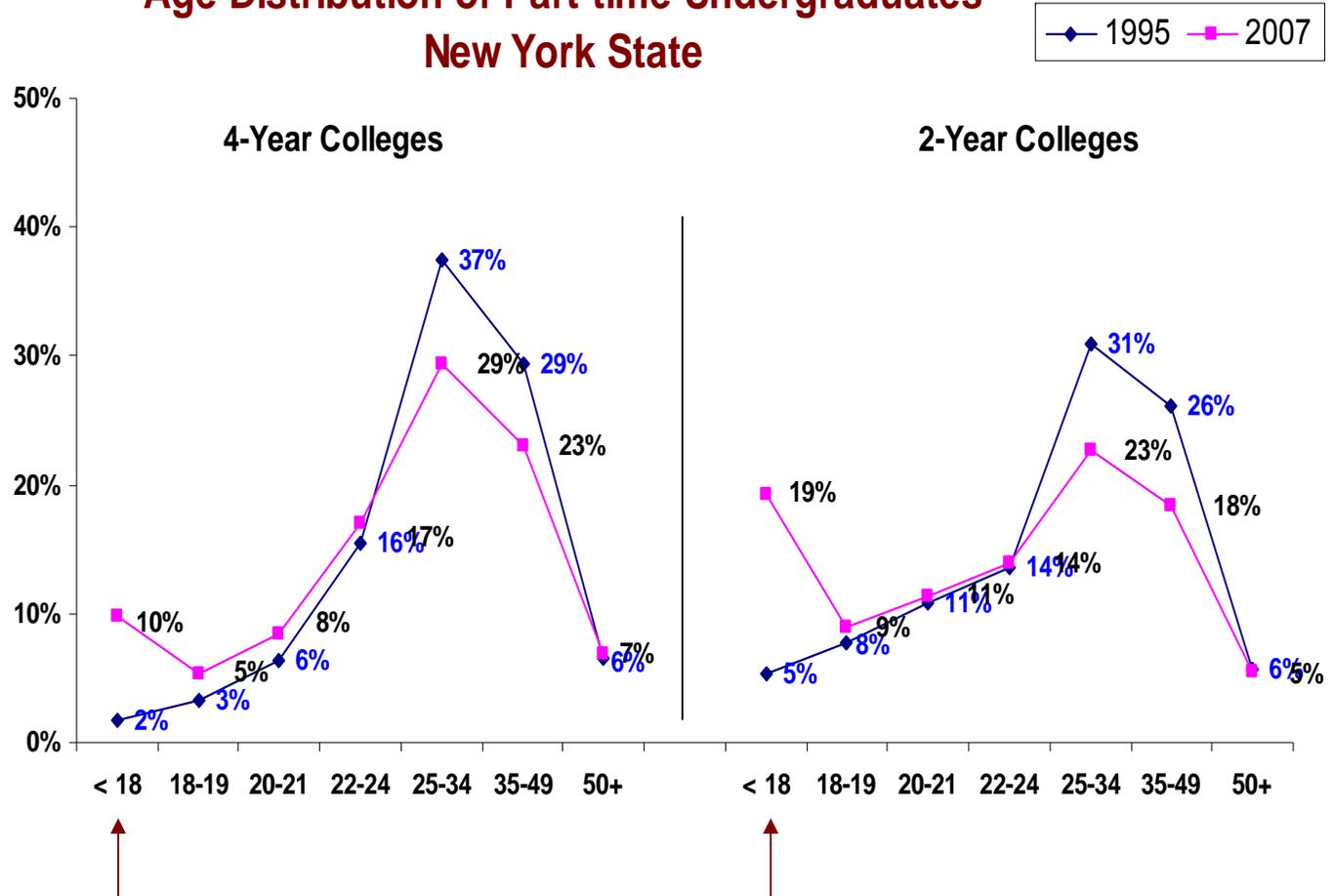
Age Distribution of Full-time Undergraduates New York State



More of the full-time undergraduates are age 21 or younger at both 4-year and 2-year colleges.

Source: NYSED, Higher Education Data System (HEDS)

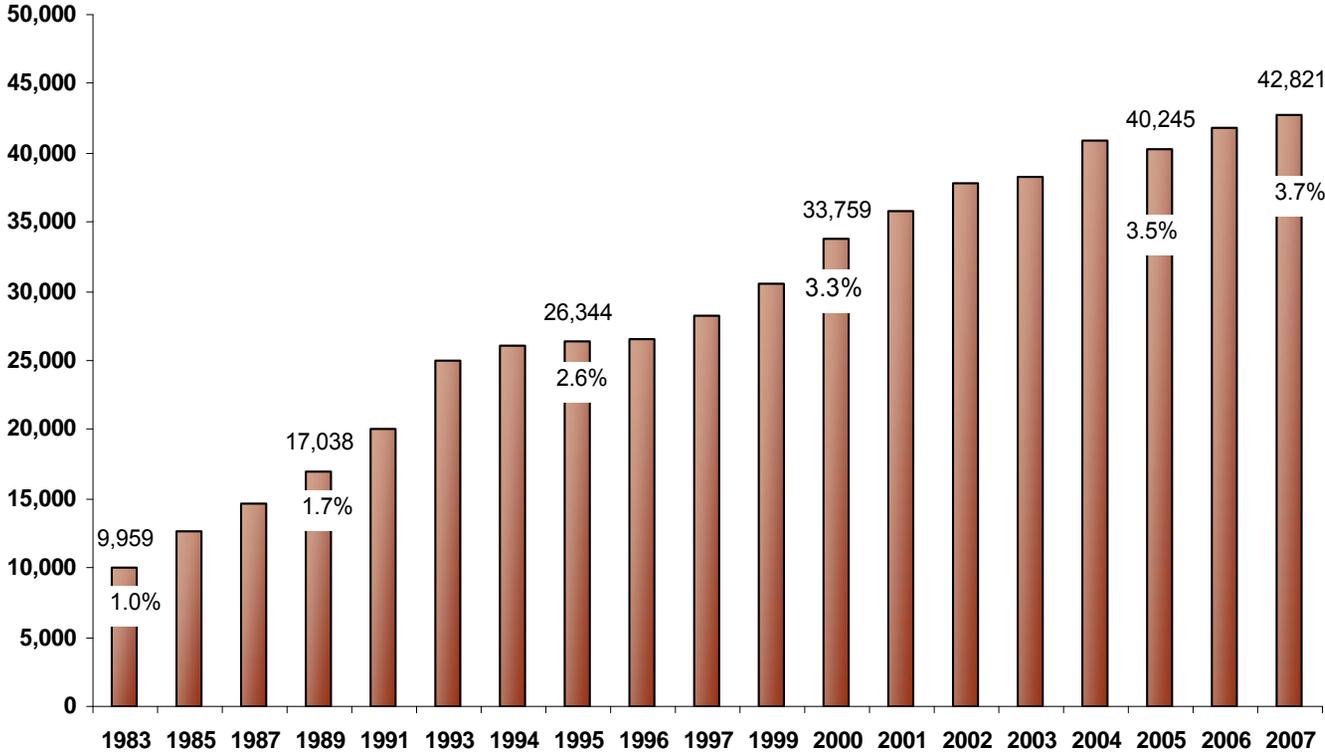
Age Distribution of Part-time Undergraduates New York State



The shift to a younger student population is also true for part-time students. The growth in Early College Programs has had an especially large impact.

Source: NYSED, Higher Education Data System (HEDS)

College Enrollment of Students with Disabilities and Percent of Total Enrollment



Source: NYSED, Higher Education Data System (HEDS)

Black and Hispanic % of Enrollment --- 2 and 4-Year Colleges Combined

Total, Full and Part-Time

| | Fall 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 |



Source: National Center for Educational Statistics (IPEDS)

Black and Hispanic % of Enrollment --- 2-Year Colleges

Total, Full and Part-Time

| | 1997 | 2003 | 2007 |
|-------------|-----------------------------|-----------------------------|-----------------------------|
| NYS | 27% 71,967 | 30% 88,582 | 31% 95,600 |
| SUNY | 13% 22,339 | 16% 30,608 | 18% 35,662 |
| CUNY | 63% 40,808 | 60% 41,886 | 60% 45,770 |
| INDEPENDENT | 16% 835 | 29% 1,458 | 32% 1,948 |
| PROPRIETARY | 49% 7,003 | 59% 14,626 | 55% 12,220 |



Data Source: National Center for Educational Statistics (IPEDS).

Black and Hispanic % of Enrollment --- 4-Year Colleges

Total, Full and Part-Time

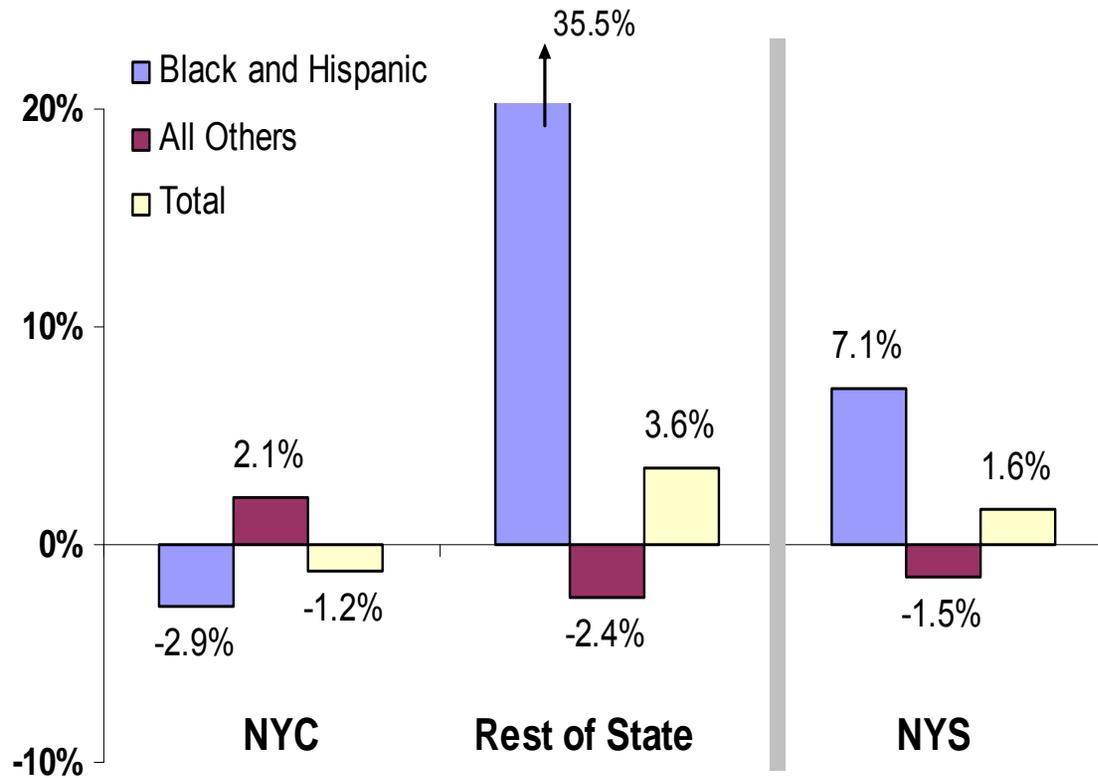
| | 1997 | 2003 | 2007 |
|-------------|------------------------------|------------------------------|------------------------------|
| NYS | 21% 170,052 | 21% 169,057 | 21% 181,598 |
| SUNY | 12% 23,433 | 12% 25,527 | 13% 28,128 |
| CUNY | 49% 66,485 | 45% 63,909 | 44% 69,053 |
| INDEPENDENT | 16% 72,384 | 16% 70,545 | 16% 74,316 |
| PROPRIETARY | 35% 5,580 | 44% 9,486 | 46% 10,883 |



Data Source: National Center for Educational Statistics (IPEDS).

K-12 Pipeline

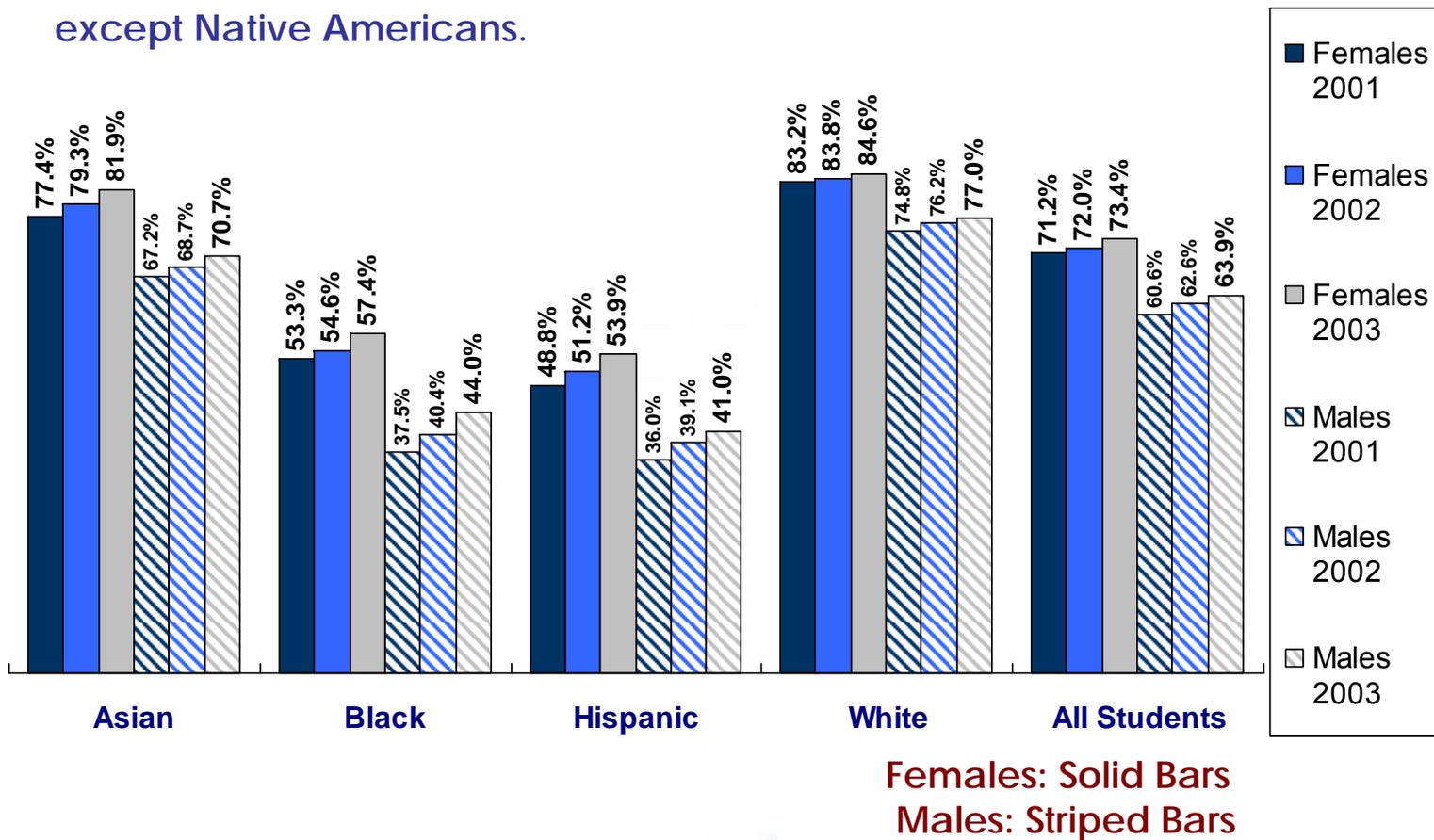
Change in NYS Enrollment Grades 1-12 by Region, 1995-06 to 2005-06



Source: NYS Education Department (EMSC data files).

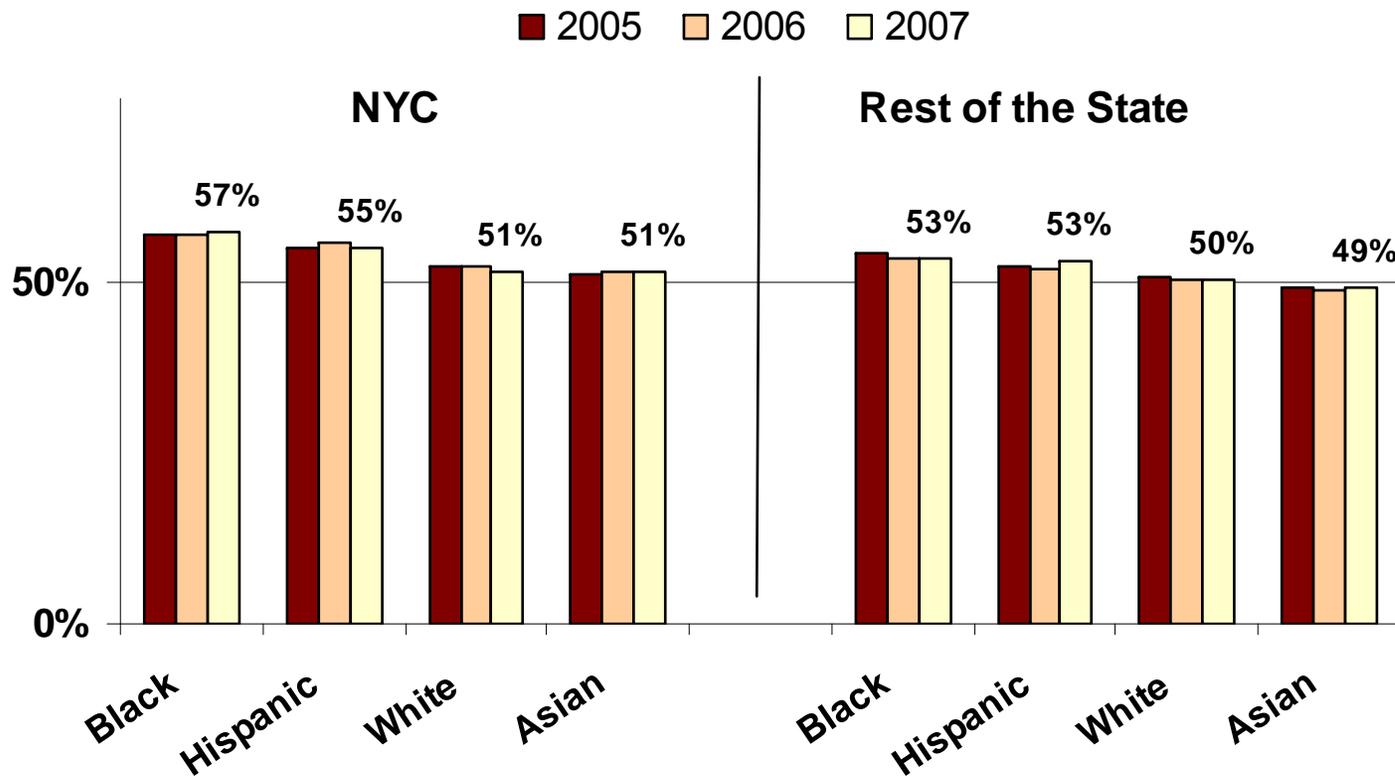
High School Pipeline, 2001-2003 Cohorts:

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



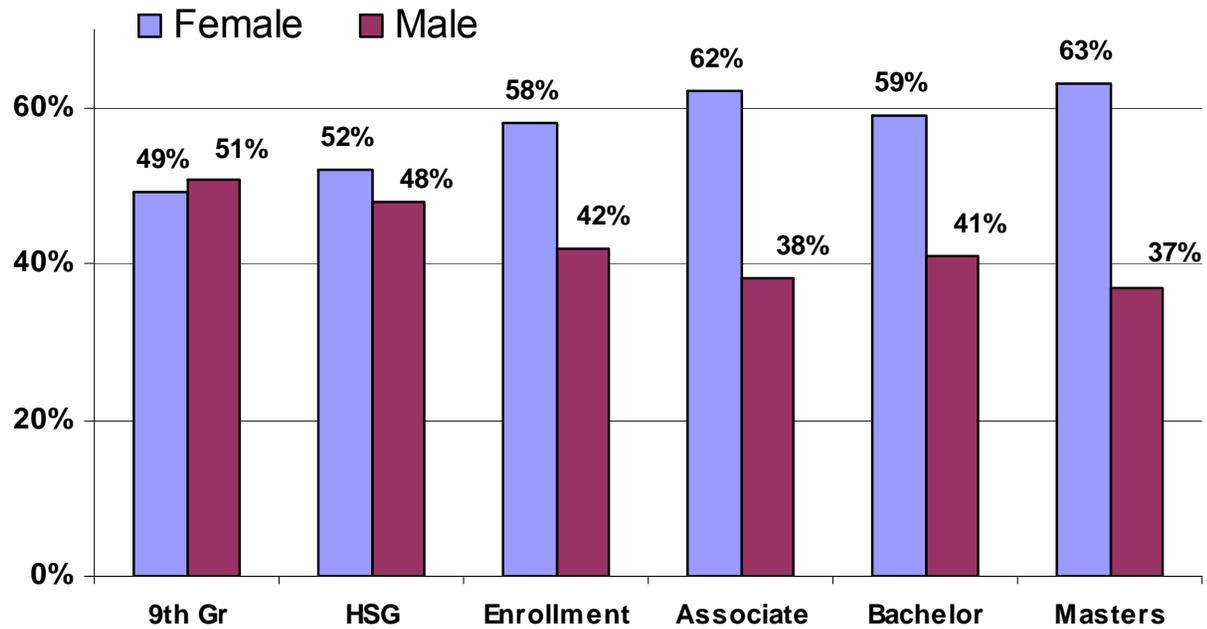
Source: NYSED, Grad-Rates06-07FINAL.ppt; Data from NYSED EMSC

High School Graduates: Percent Women



Sources: NYS Education Department (EMSC)

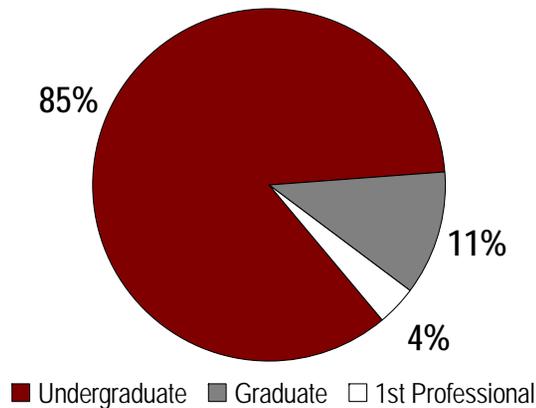
Gender Shares of 9th Graders, High School Graduates (HSG), College Enrollment and Degrees, 2006-07



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

College Students

2008 Preliminary Full-Time Enrollment by Program Level



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

2006

High school graduates:

- 74% went to college
- 61% went to college in-state

Undergraduates:

- 58% women
- 75% attending full-time
- 27% in 2 yr colleges
- 79% of full-time under age 25

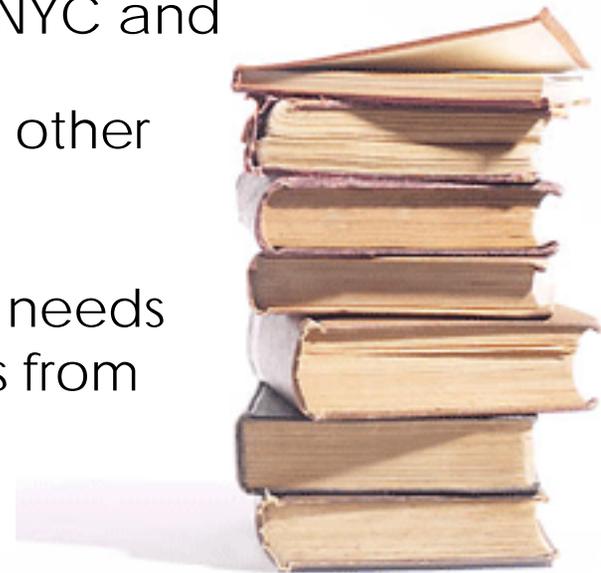
| | Colleges | 2008 Preliminary Enrollment | | 2007 Percent: Black & Hispanic |
|--------------|------------|-----------------------------|----------------|-----------------------------------|
| | | 2-Yr | 4-Yr | |
| SUNY | 64 | 211,702 | 227,986 | 15% |
| CUNY | 19 | 80,628 | 162,735 | 49% |
| Independent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

➤ Environment Factors

- o Worsening economy
 - more students
 - fiscal pressures on colleges limiting ability to absorb more students

- o Demographic changes
 - an increase in international immigration
 - demographic shifts between NYC and Rest of State
 - demographic growth in some other states

- o Changing student interests and needs
 - relatively more of the students from younger age groups
 - more special needs



➤ Areas of Impact

- o Financial health of small independent colleges that rely on tuition/steady enrollment
- o Impact on persistence, graduation rates and time to degree – more barriers and more part-time students
- o Possible increase in enrollment of students from other states and abroad
- o Capacity issues regarding the fiscal and educational resources of community colleges



Data Categories

- Enrollment
 - **Performance**
 - College Going Rates
 - Postsecondary Remediation
 - Persistence Rates
 - Graduation Rates
 - Still Enrolled
 - Transfers -- 2-Year to 4-Year
 - 10 Year Graduation Rate
- Degrees Awarded
- Finance
- Faculty and Research

New York State College-Going Rates 2006

High School Principals reported that:

79%

of High School Graduates
planned to attend college in the fall.

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

Source: NYS Education Department (EMSC)

Actual fall participation of
spring 2006 high school
graduates anywhere in USA:

74.4%

2nd Highest in the Nation

Source: Tom Mortenson,
Postsecondary Opportunity



First-Time Students: % Recent High School Graduates

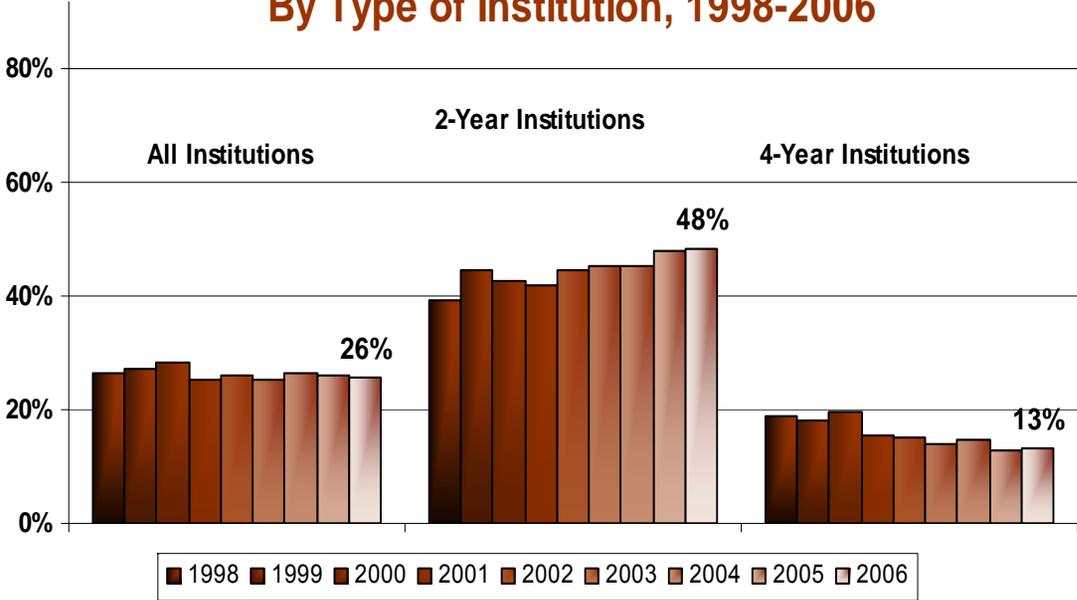
| | | 2006 |
|----------------------------|----------------|------|
| 4-Year Institutions | | |
| | SUNY | 93% |
| | CUNY | 89% |
| | Independent | 87% |
| | Proprietary | 48% |
| | New York State | 88% |
| 2-Year Institutions | | |
| | SUNY | 70% |
| | CUNY | 60% |
| | Independent | 25% |
| | Proprietary | 24% |
| | New York State | 62% |



Note: These rates are for NYS residents only. Recent high school graduates are those students who enrolled within 12 months of their high school graduation.

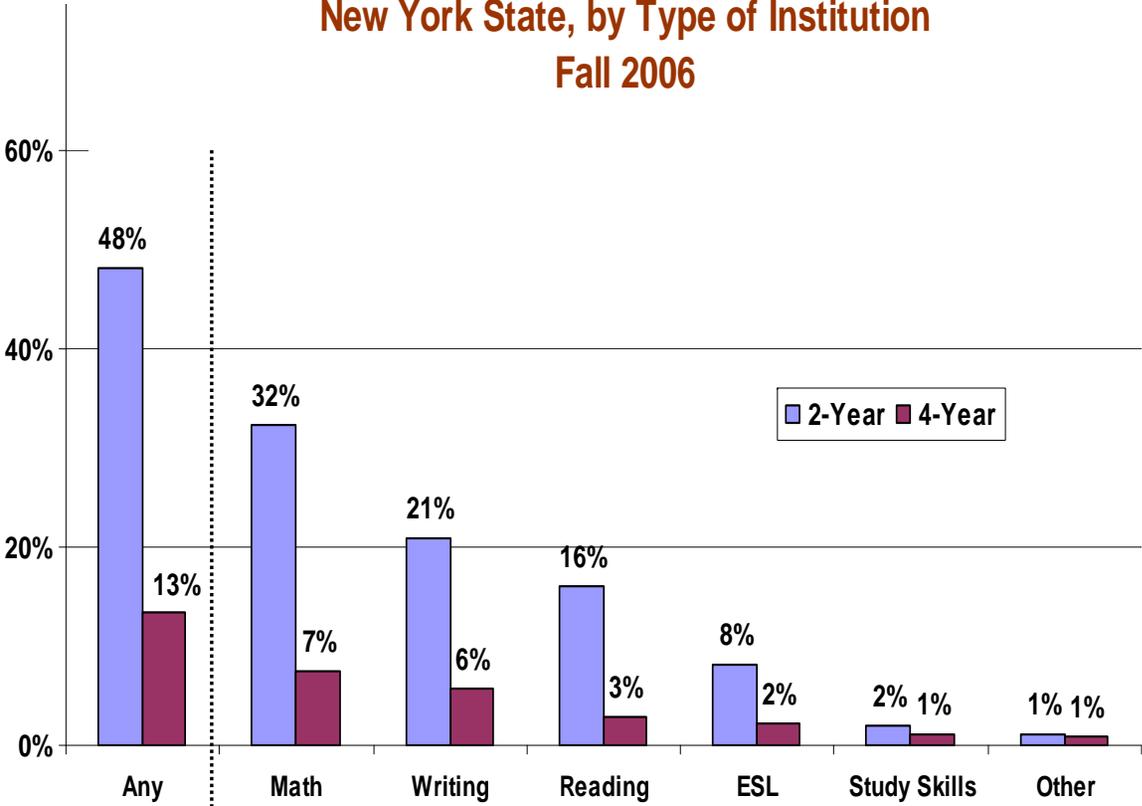
Source: National Center for Educational Statistics (IPEDS)

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



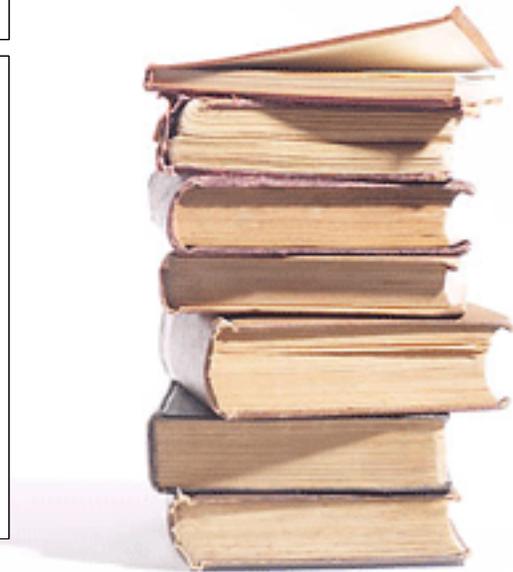
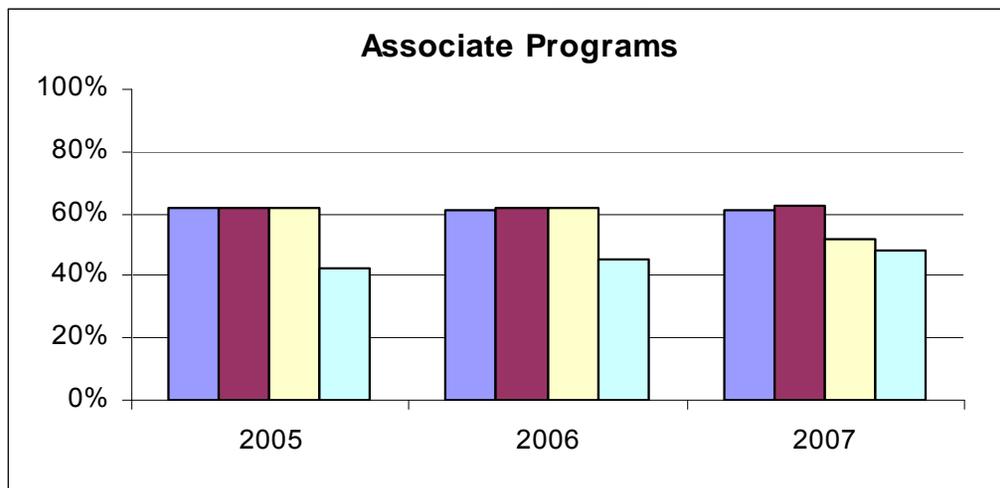
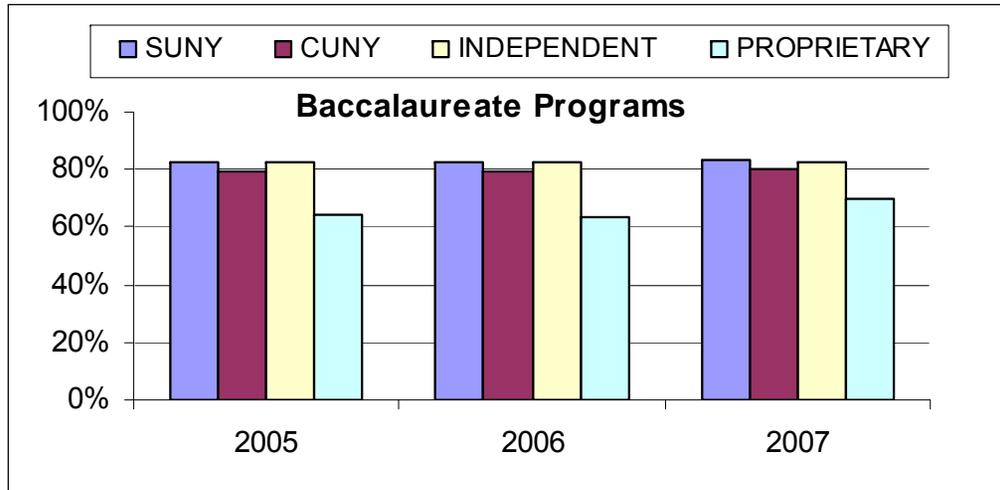
Source: NYSED, Higher Education Data System (HEDS)

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



Source: NYSED, Higher Education Data System (HEDS)

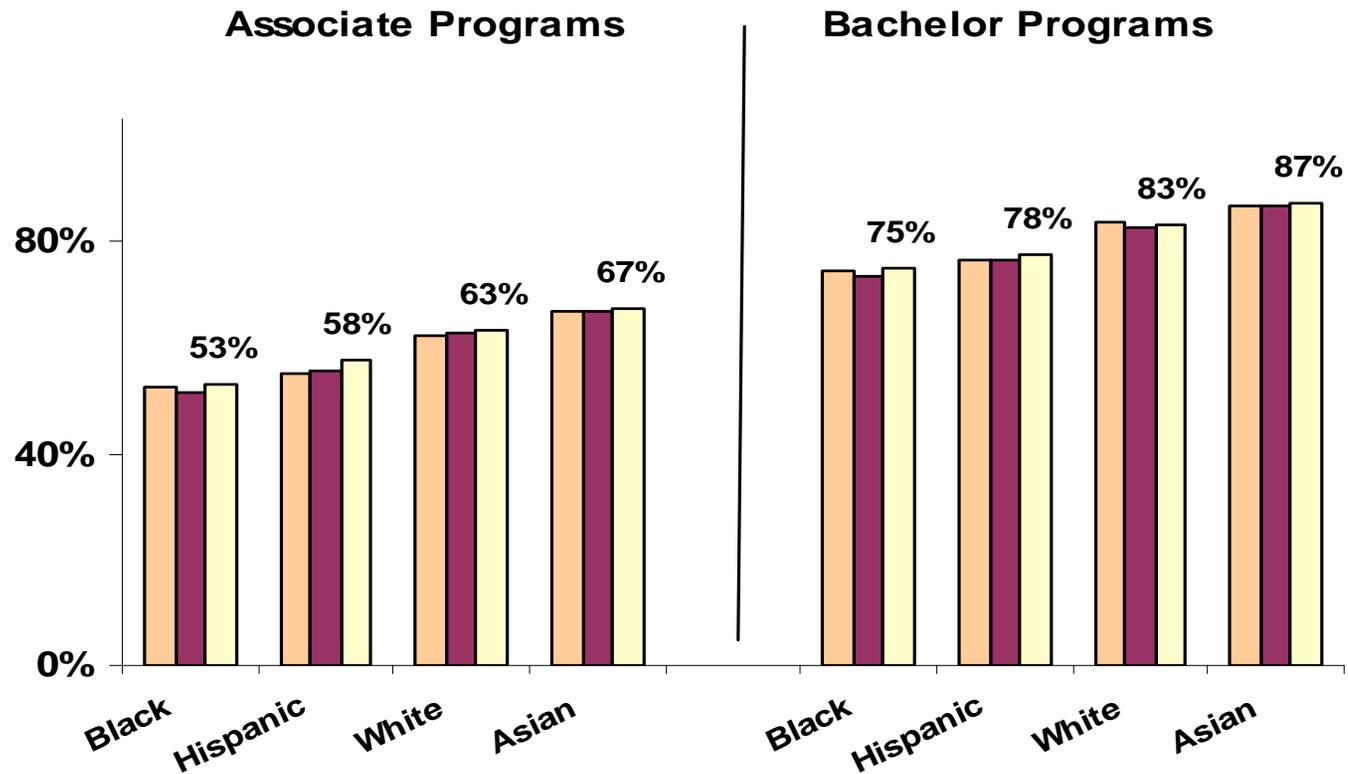
Fall Full-Time, First-Time Students Persisting from First to Second Year



Source: NYSED, Higher Education Data System (HEDS)

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

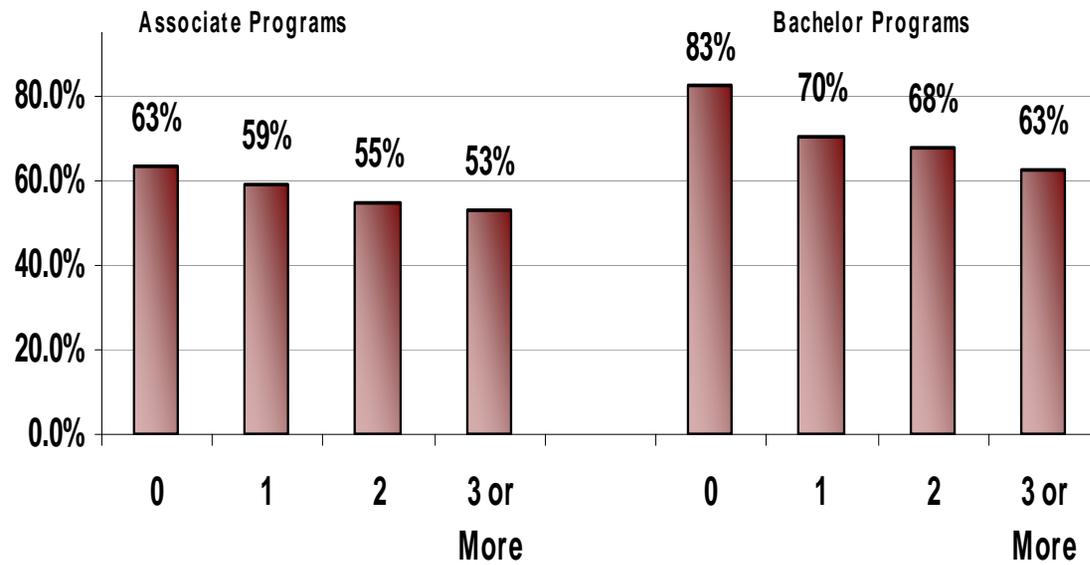
2005 2006 2007



Source: NYSED, Higher Education Data System (HEDS)

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

by Number of Remedial Courses Taken



Source: NYSED, Higher Education Data System (HEDS)

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% |
| USA | 28% | |



Source: NYSED, Higher Education Data System (HEDS)

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

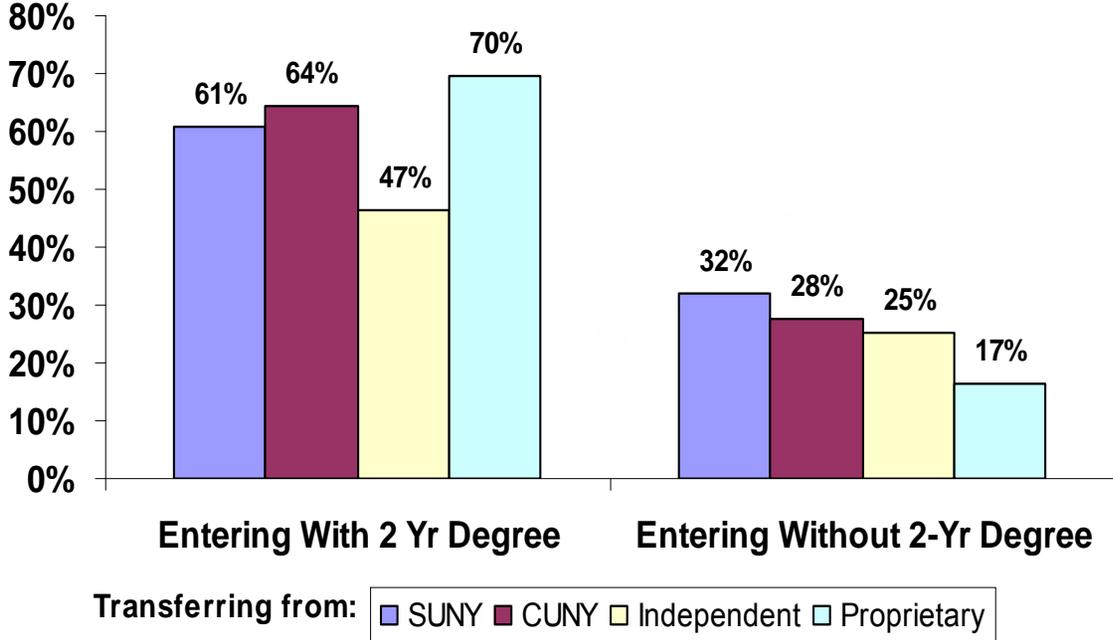
Percent of Freshman Class Transferring:

| | With Degree | Without Degree | Total |
|----------------|-------------|----------------|-------|
| SUNY | 14% | 21% | 35% |
| CUNY | 12% | 35% | 47% |
| Independent | 10% | 36% | 46% |
| Proprietary | 3% | 4% | 7% |
| New York State | 12% | 22% | 34% |

Note: % with Degree = full-time undergraduate transfers yr x / full-time, first-time enrollment averaged for years x-2 and x-3
 % without Degree = full-time undergraduate transfers yr x / full-time, first-time enrollment averaged for years x-1 and x-2.

Source: NYSED, Higher Education Data System (HEDS)

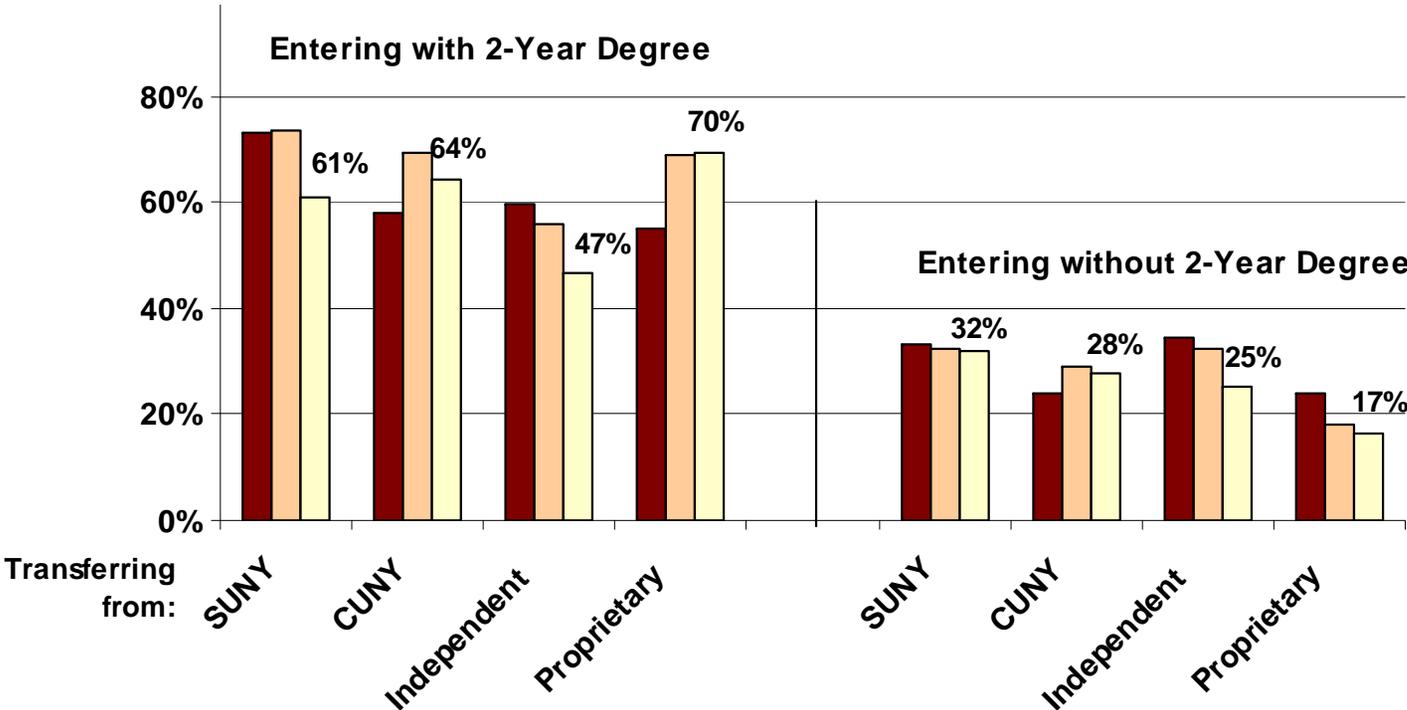
Percent of Transfers from 2-Year to 4-Year Colleges Who Entered Upper Division, 2007



Source: NYSED, Higher Education Data System (HEDS)

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

■ 2003 ■ 2005 ■ 2007



Source: NYSED, Higher Education Data System (HEDS)

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% |
| USA | 56% | |



Source: NYSED, Higher Education Data System (HEDS)

Performance: Graduation Rates (Opportunity Programs)

Opportunity Program Graduation Rates

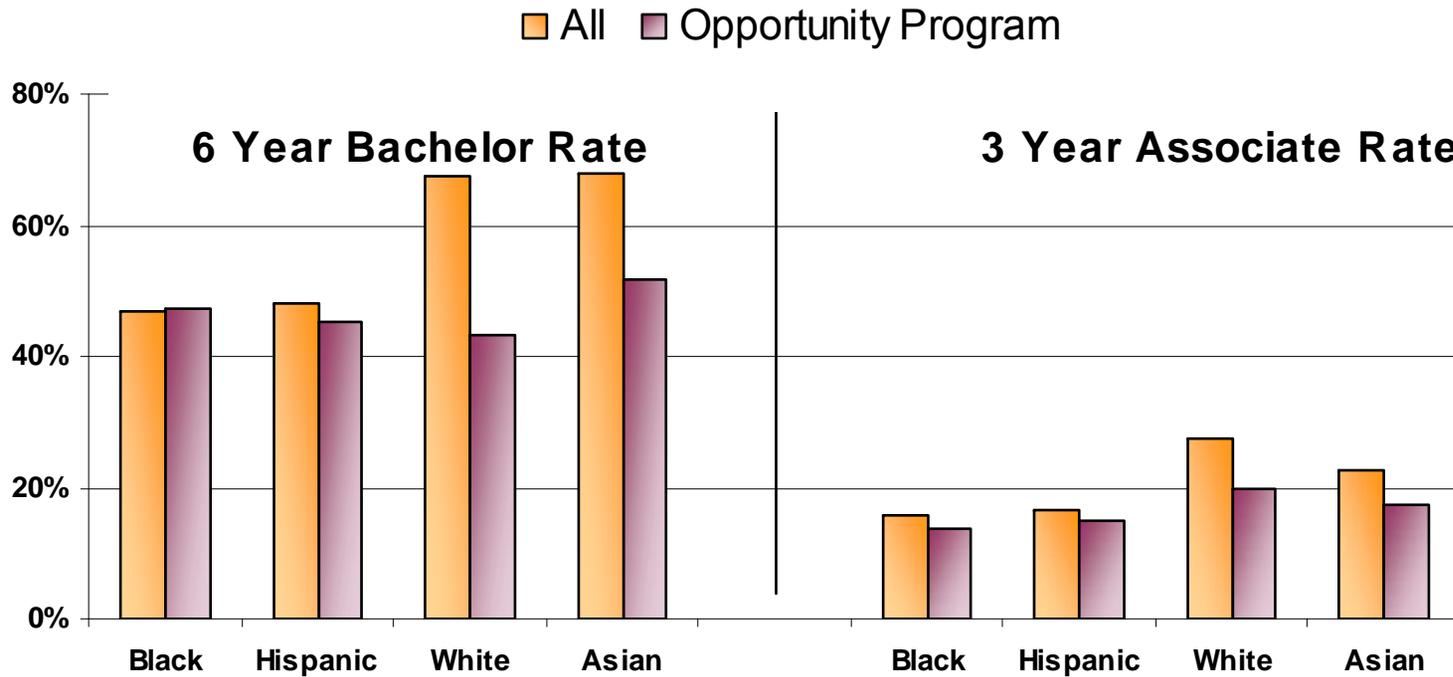
| Associate Programs | Entering Cohort | | 3-Year Rate | | % Still Enrolled | |
|--------------------|-----------------|-------|-------------|------|------------------|------|
| | 1994 | 2004 | 1997 | 2007 | 1997 | 2007 |
| SUNY | 1,139 | 1,250 | 19% | 20% | | 11% |
| CUNY | 1,363 | 1,631 | 6% | 12% | | 24% |
| Independent | 149 | 108 | 42% | 29% | | 20% |
| Proprietary | 25 | 1 | 24% | 100% | | 0% |

| Bachelor Programs | Entering Cohort | | 6-Year 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.

Source: NYSED, Higher Education Data System (HEDS)

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



Source: NYSED, Higher Education Data System (HEDS)

Ten Year Graduation Rate

| | | 3 Year | Estimated 10 Year | Gain* |
|-------------------------------------|------|---------------|----------------------|-------------|
| Associate Program (2007) | | | | |
| | SUNY | 24% | 34% | 10% |
| | CUNY | 10% | 27% | 17% |
| Baccalaureate Program (2007) | | | | |
| | | 6 Year | 10 Year | Gain |
| | 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

Source: NYSED, Higher Education Data System (HEDS)

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% |

Source: NYSED, Higher Education Data System (HEDS)

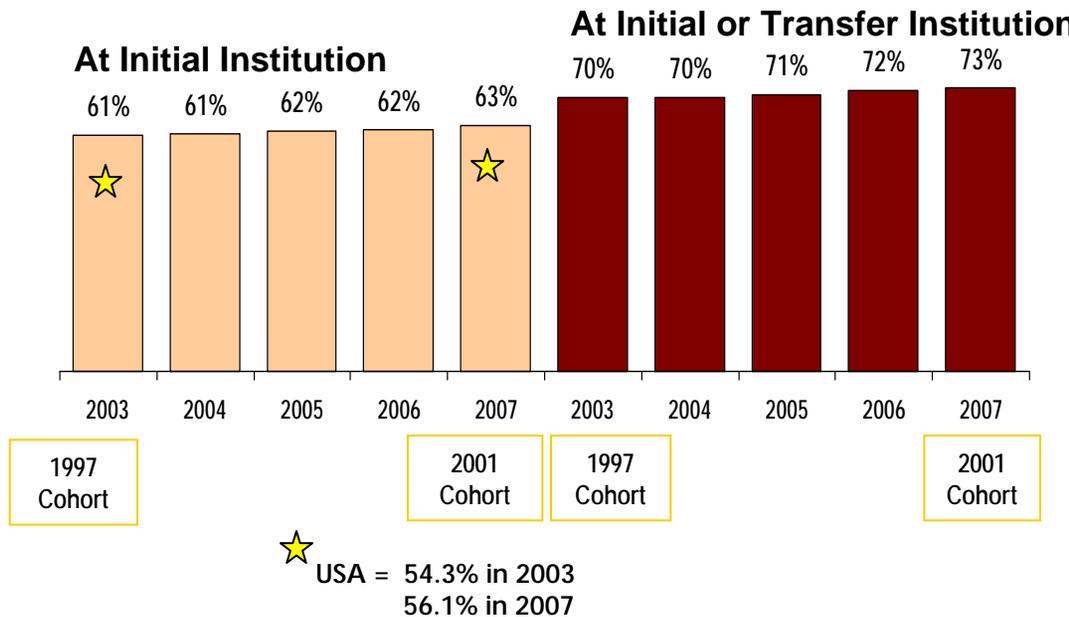
New York State Graduation Rates for Bachelor Programs: Putting the Pieces Together 2007 Rates

| | % 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% |

Source: NYSED, Higher Education Data System (HEDS)

Investment Yields Gains

6-Year Baccalaureate Program Graduation Rate: % of Full-time, First-time Entrants Earning Baccalaureate Degrees



Rising graduation rate consistently surpasses U.S. average

6-Year Baccalaureate Graduation Rate at Initial Institution

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

* **Transfers:** Nationally, 18% of the 2003-04 first-time students (full-and part-time) at both 4-year and 2-year colleges transferred to another college within 3 years and without having earned a degree

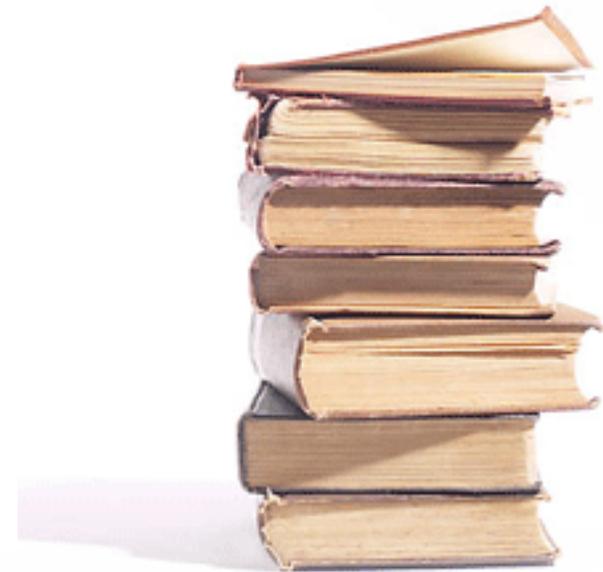
- More students with disabilities
- graduation rate improving
- Some progress in closing performance gaps

Continue to build on this record

* SOURCE: U.S. Department of Education, National Center for Education Statistics, 2003-04 Beginning Postsecondary Students Longitudinal Study, First Follow-up (BPS:04/06).

➤ **Environment Factors**

- Projected decrease in New York high school graduates
- Projected increase in the percent of students needing additional academic assistance
- High Unemployment



➤ Areas of Impact

- o Accepting more and less well prepared students to maintain enrollment levels, resulting in a need to provide additional remedial instruction
- o ESL at the postsecondary level
- o Impact on persistence, graduation rates and time to degree – more educational and financial barriers and more part-time students
- o Increasing need for financial aid



Data Categories

- Enrollment
- Performance
 - **Degrees Awarded**
 - By Degree Level
 - Program Needs
 - By Program Area
 - Teaching
- Finance
- Faculty and Research

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

| | Associate | Bachelor | Master's | Doctoral | First Professional |
|----------------|-----------|----------|----------|----------|--------------------|
| SUNY | 6% | 20% | 30% | 47% | -3% |
| CUNY | 22% | 12% | 28% | 12% | -3% |
| Independent | 22% | 13% | 26% | 32% | 2% |
| Proprietary | 25% | 71% | 57% | | |
| New York State | 14% | 16% | 27% | 34% | 2% |

Source: National Center for Educational Statistics (IPEDS)

NYS Change in Non-Farm Jobs January 2008 to January 2009

Industries With Job Gains:

| | |
|---|----------|
| Educational, Health & Social Services | + 32,600 |
| Leisure, Hospitality, Food & Other Services | + 7,700 |
| Government | + 1,500 |

Industries With Job Losses:

| | |
|-----------------------------------|----------|
| Trade, Transportation & Utilities | - 48,100 |
| Manufacturing | - 34,900 |
| Financial Activities | - 24,300 |
| Professional & Business Services | - 22,500 |
| Construction | - 20,400 |
| Information | - 4,900 |
| Natural Resources & Mining | - 100 |

However, note that the state's needs **are changing, and the recession will** produce more changes. The \$787-billion economic-stimulus bill signed into law by President Obama will spend \$3 billion under the Workforce Investment Act to finance job training, including courses at community colleges.



Source: NYS Department of Labor, website: <http://www.labor.state.ny.us/workforceindustrydata/index.shtm>

Degrees Awarded: By Program Area

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%

25%

76%

Source: National Center for Educational Statistics (IPEDS)

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

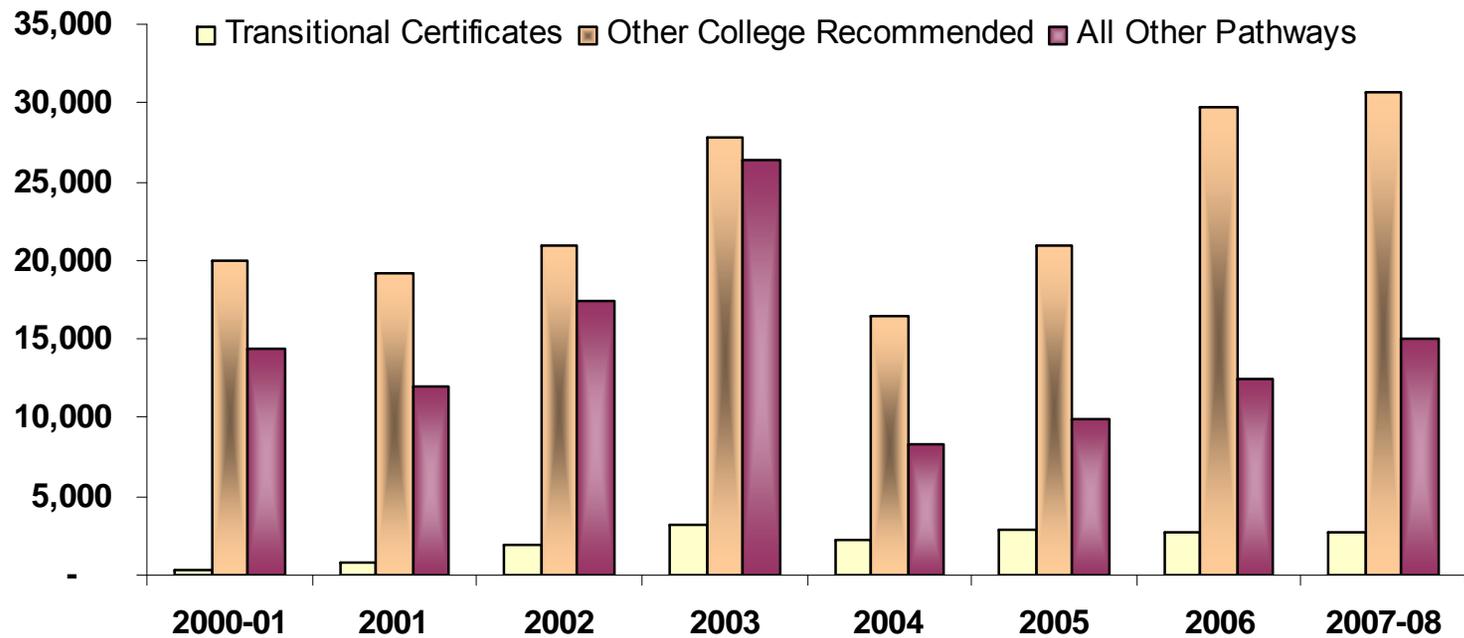
| | Associates 2006-07 | Bachelors 2006-07 | Masters 2006-07 | Doct/FirstProf. 2006-07 | Total 2001-02 | Total 2006-07 | % Chg |
|---|-----------------------|----------------------|--------------------|----------------------------|------------------|------------------|--------|
| Biological & Biomedical Sciences | 83 | 4,548 | 808 | 564 | 4,614 | 6,003 | 30.1% |
| Engineering | 260 | 4,308 | 2,199 | 472 | 5,659 | 7,239 | 27.9% |
| 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% |
| Total New York State Degrees | | | | | 215,566 | 251,437 | 16.6% |

Together, these programs totaled 8% of all degrees in 2006-07.

Source: National Center for Educational Statistics (IPEDS).

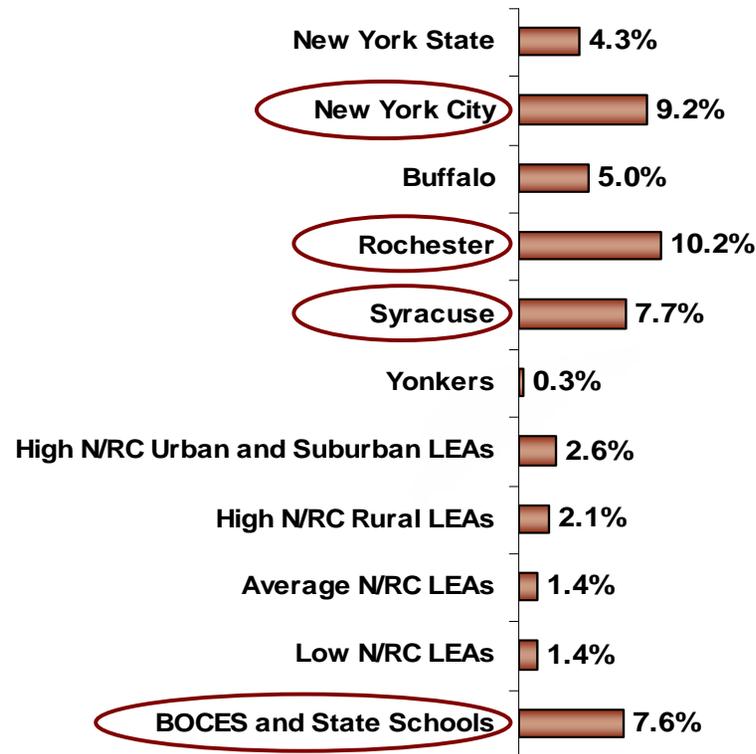
New Teachers

First Level Certificates Issued for Classroom Teaching 2000-01 to 2007-08



Data Source: NYSED, TEACH System.

Percent of Core Classes Taught by Teachers Who Were Not Highly Qualified 2006-07



Note: N/RC is the Need/Resource Capacity category of the local education agency (LEA).



Source: NYS Education Department (EMSC-PMF)

Teacher Shortage Areas:

5 Percent or More of FTE Teaching Assignments Held by Teachers Without Appropriate Certification
2006-07

| Subject Areas | Black River-St Lawrence | Central | Genesee-Finger Lakes | Lake Champlain-Lake George | Mid-Hudson | Nassau-Suffolk | New York City | Southern Tier - Central | Southern Tier - East | Southern Tier - West | Upper Hudson | Upper Mohawk Valley | Western | New York State |
|------------------------------|-------------------------|---------|----------------------|----------------------------|------------|----------------|---------------|-------------------------|----------------------|----------------------|--------------|---------------------|---------|----------------|
| Arts | | | | | | | 18% | | | | | | | 5% |
| Bilingual Education | | 62% | 50% | | 11% | 17% | 29% | | | 100% | 100% | | 24% | 28% |
| Career & Technical Educ. | 6% | 8% | 9% | 9% | 8% | 5% | 22% | 6% | 11% | 9% | 9% | 6% | 5% | 10% |
| Elem. & Early Childhood | | | | | | | | | | | | | | |
| English | | | | | | | 12% | | | | | | | 6% |
| ESOL | 40% | | 6% | | | | 12% | 10% | 5% | 9% | | 20% | | 8% |
| Languages OTE | 17% | 11% | 5% | 13% | 8% | | 16% | 9% | 9% | 7% | 6% | 17% | 7% | 9% |
| Library, Sch.Media Spec. | 12% | | | | | | 33% | 6% | | 5% | | | | 8% |
| Mathematics | | | | | | | 9% | | | | | | | |
| Other Teaching | | | | | | | 10% | | | | | | | 5% |
| Physical Education | | | | | | | 18% | | | | | | | 5% |
| Reading & Literacy | | | 6% | | | | 19% | | | | | | | 7% |
| Sciences | | | | 5% | | | 17% | | 5% | | | | | 7% |
| Social Studies | | | | | | | 9% | | | | | | | |
| SpecEd Specific Disabilities | | | | | | | 7% | | | | | | | |
| SpecEd Elementary | | | | | | | 7% | | | | | | | |
| SpecEd Middle/Secondary | 5% | 8% | 7% | 5% | 6% | | 27% | 9% | 10% | | | 6% | | 14% |
| SpecEd Bilingual | | 100% | 47% | | | | 18% | | | | | | | 19% |
| All Subjects | | | | | | | 11% | | | | | | | 5% |

Shaded columns denote regions with a Big Five City.

Source: NYS Education Department (EMSC-PMF)

Teacher Shortage Areas:

2 or Fewer Certificates Issued to New Teachers for each FTE Vacancy for a New Teacher
2006-07

| Subject Areas | Black River-St Lawrence | Central | Genesee-Finger Lakes | Lake Champlain-Lake George | Mid-Hudson | Nassau-Suffolk | New York City | Southern Tier - Central | Southern Tier - East | Southern Tier - West | Upper Hudson | Upper Mohawk Valley | Western | New York State |
|------------------------------|-------------------------|---------|----------------------|----------------------------|------------|----------------|---------------|-------------------------|----------------------|----------------------|--------------|---------------------|---------|----------------|
| Arts | | | 0.7 | | | | 1.5 | | | | | | 0.6 | |
| Bilingual Education | | | | | | | | | | | | | | |
| Career & Technical Educ. | | 1.9 | | | | | 1.3 | | 1.6 | 0.9 | 1.9 | | | |
| Elem. & Early Childhood | | | | | | | | | | | | | | |
| English | | | | | | | 0.9 | | 1.9 | | | | | |
| ESOL | | | | | | | 1.3 | | | | | | | |
| Languages OTE | 1.6 | 1.7 | 1.5 | 0.9 | | | 1.3 | 1.8 | 1.8 | | | 1.0 | | 2.0 |
| Library, Sch. Media Spec. | 1.0 | 1.8 | | 1.0 | | | | 1.0 | 0.7 | 1.0 | | | | |
| Mathematics | | | | | | | 1.0 | | 1.2 | | | | | 1.9 |
| Other Teaching | 0.7 | 0.7 | 1.2 | 1.3 | 0.5 | 1.6 | 0.3 | 0.8 | 1.3 | 0.6 | 1.2 | 0.3 | | 0.8 |
| Physical Education | | | | | | | 0.9 | | | 1.3 | | | | |
| Reading & Literacy | | | | | | | | | | | | | | |
| Sciences | | | | | | | 0.8 | | | | | | | |
| Social Studies | | | | | | | 1.1 | 1.7 | | | | | | |
| SpecEd Specific Disabilities | | | | | | | | 1.2 | | | | | | |
| SpecEd Elementary | | | | | | | | | | | | | | |
| SpecEd Middle/Secondary | | | | | | | 1.3 | | | | | | | |
| SpecEd Bilingual | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| All Subjects | | | | | | | 1.8 | | | | | | | |

Certificates assigned to regions based on mailing address in certification records. Shaded columns denote regions with a large city. n/a means not applicable.

CAUTION: Data not adjusted for teachers receiving multiple certificates in the same subject area, or for different certificate titles required in same subject area, which means that table shows a "best case" scenario.

Source: NYS Education Department (EMSC-PMF)

April 2009

NYS Education Department

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Teacher Surplus Areas:
6 or More Certificates Issued to New Teachers for each FTE Vacancy for a New Teacher
2006-07

| Subject Areas | Black River-St Lawrence | Central | Genesee-Finger Lakes | Lake Champlain-Lake George | Mid-Hudson | Massau-Suffolk | New York City | Southern Tier - Central | Southern Tier - East | Southern Tier - West | Upper Hudson | Upper Mohawk Valley | Western | New York State |
|------------------------------------|-------------------------|---------|----------------------|----------------------------|------------|----------------|---------------|-------------------------|----------------------|----------------------|--------------|---------------------|---------|----------------|
| Arts | | | | | | | | | | | | | | |
| Bilingual Education | | | | | 11.0 | 9.3 | | | | | | | | |
| Career & Technical Educ. | | | | | | | | | | | | | | |
| Elem. & Early Childhood | 7.1 | | 8.1 | 9.0 | 13.3 | 18.2 | | 8.8 | 6.7 | | 8.0 | 9.0 | 10.9 | |
| English | | | | | | | | | | | | | | |
| ESOL | | | | | 6.7 | | | | | | | | | |
| Languages OTE | | | | | | | | | | | | | | |
| Library, Sch.Media Spec. | | | | | | | | | | | | | | |
| Mathematics | | | | | | | | | | | | | | |
| Other Teaching | | | | | | | | | | | | | | |
| Physical Education | | | | | | | | | | | | 9.0 | 10.2 | |
| Reading & Literacy | 11.7 | 18.9 | 11.2 | 6.3 | 12.1 | 27.8 | 7.1 | 24.0 | 12.8 | | 21.6 | 37.8 | 10.9 | 13.4 |
| Sciences | | | | | | | | | | | | | 6.6 | |
| Social Studies | | | | 25.7 | 6.2 | 6.6 | | | | | | | 8.0 | |
| SpecEd Specific Disabilities | | | 7.3 | 15.4 | 6.7 | 11.2 | | | | | 6.9 | | 22.9 | |
| SpecEd Elementary | | 6.9 | 11.5 | | 12.9 | 16.8 | | 6.9 | | | 6.5 | 6.2 | 7.3 | |
| SpecEd Middle/Secondary | | 10.4 | 6.0 | | | 6.1 | | | | 9.4 | | 9.8 | 8.4 | |
| SpecEd Bilingual | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| All Subjects | | | | | 6.5 | 7.6 | | | | | | | 7.0 | |

Certificates assigned to regions based on mailing address in certification records. Shaded columns denote regions with a large city. n/a means not applicable.

Source: NYS Education Department (EMSC-PMF)

➤ **Environment Factors**

- o Uncertain job market – effect is not limited only to persons with low skills
- o Stimulus money for strengthening the preparation of teachers



➤ Areas of Impact

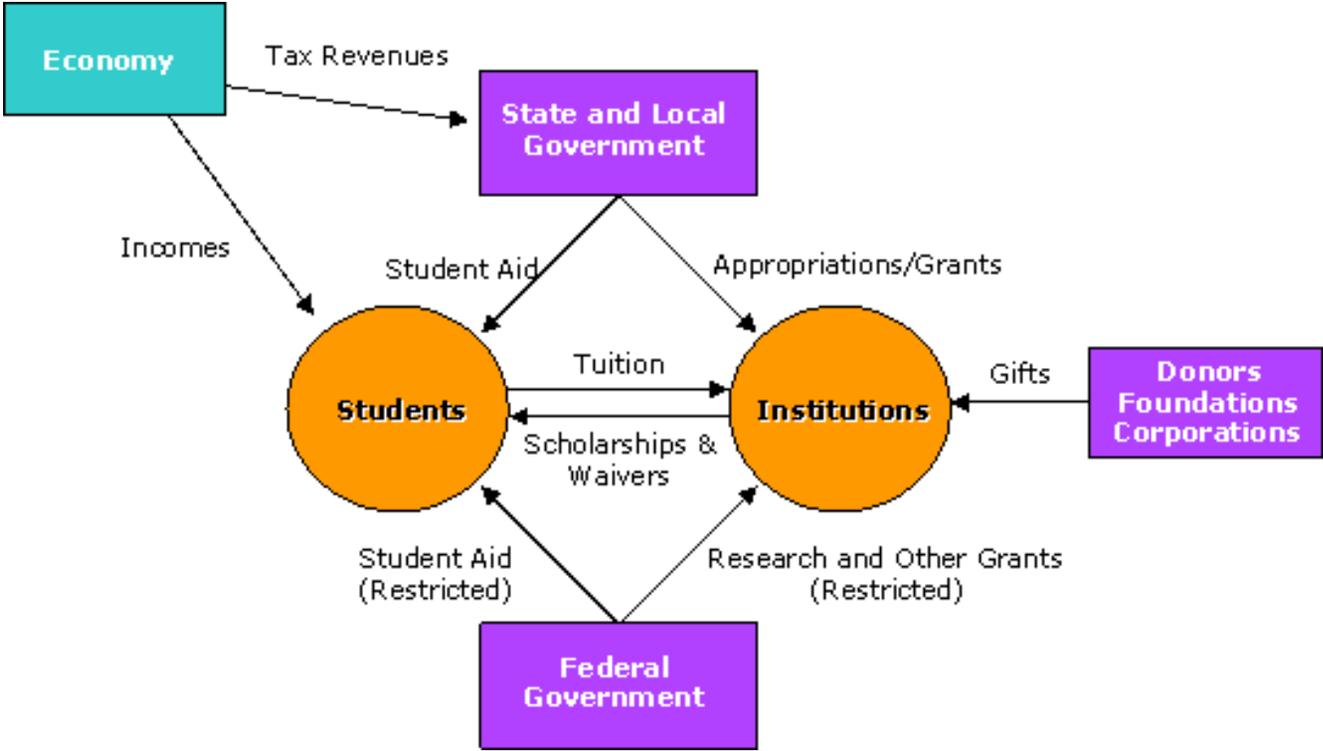
- o Demand for training/retraining by persons with baccalaureate and graduate degrees – likely to be felt by institutions with graduate programs in business and professional fields
- o Aligning needed faculty/programs with appropriate employment opportunities in a timely manner. More programs without doctorally-prepared faculty
- o Positively impact the equitable distribution of highly qualified teachers



Data Categories

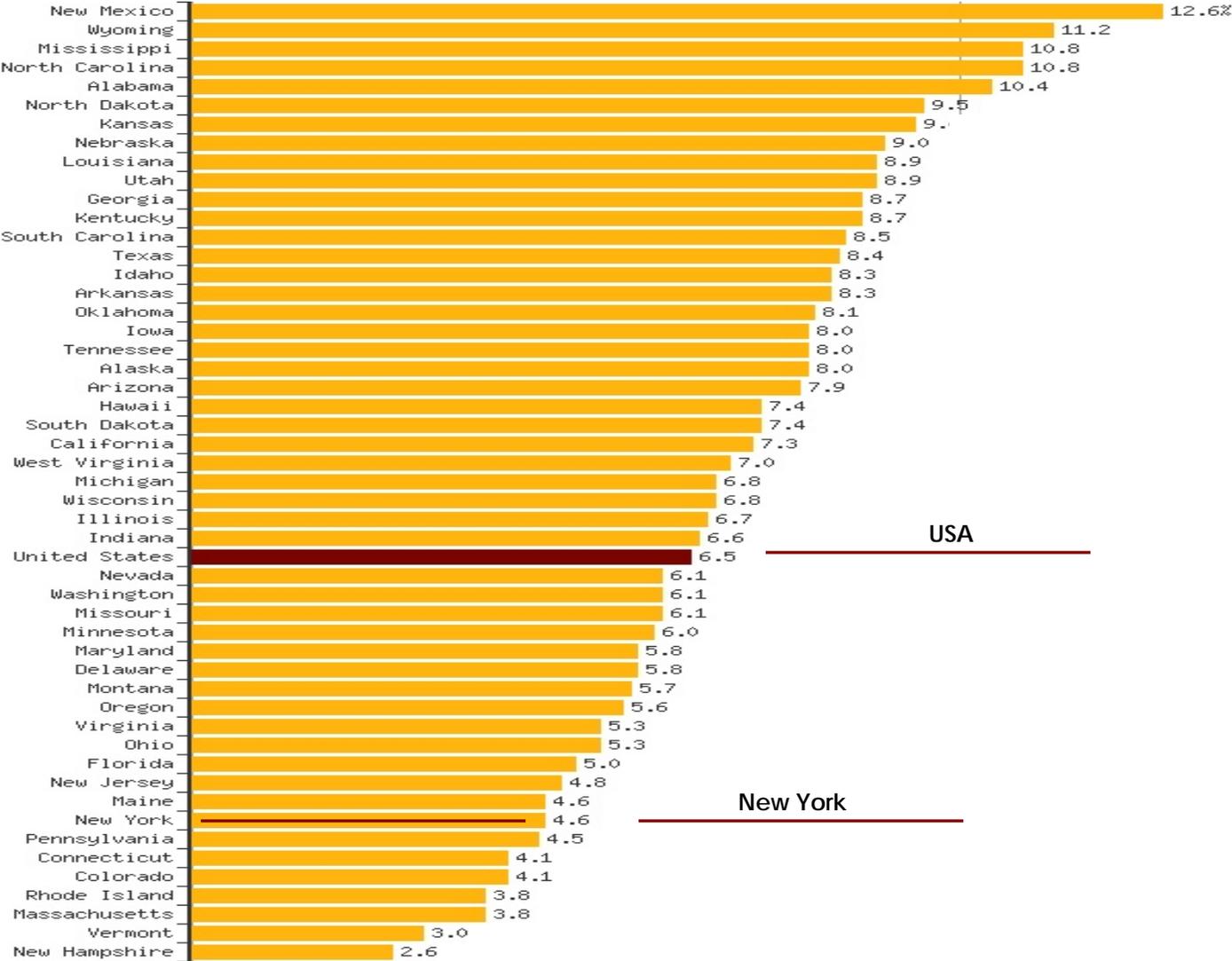
- Degree-Credit Colleges
- Enrollment
- Performance
- Degrees Awarded
- **Finance**
 - Funding Sources
 - State Support Levels
 - Revenues
 - Sticker Price
 - Student Aid
- Faculty and Research

Financing of Higher Education



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<http://www.higheredinfo.org/catcontent/cat8.php>

Higher Education Appropriations
as a Percent of State and Local Tax Revenues and Lottery Profits – 2004-05



Source: State Higher Education Executive Officers (SHEEO)

Changes in State Support for Higher Education

| | Actual 1997-08 | Projected * 2007-08 | Actual 2007-08 | Actual-Proj 2007-08 |
|---|-------------------|------------------------|-------------------|------------------------|
| Higher Education Share of State Expenditures | 4.4% | | 4.4% | |
| State Support/student ** | | | | |
| Operating Aid to Public Colleges *** | \$5,446 | \$7,946 | \$7,886 | (\$60) |
| Bundy Aid to Independent Colleges | \$134 | \$195 | \$118 | (\$78) |
| Student Aid (TAP) to Public Colleges | \$750 | \$1,094 | \$847 | (\$247) |
| Student Aid (TAP) to Private Colleges | \$804 | \$1,173 | \$811 | (\$362) |
| Cost of Education | | | 2006-07 | |
| Student Related Expenditures /FTE Student ** | | | | |
| Public | 4-Yr Colleges | | \$22,372 | |
| | 2-Yr Colleges | | \$17,467 | |
| Private | 4-Yr Colleges | | \$26,039 | |
| | 2-Yr Colleges | | \$13,412 | |

* Projections based on the HEPI inflation rate of 46% between 1997 and 2007.
 ** Consistent with IPEDS and nationally accepted calculations

*** Note that these are averages of the higher state support levels at 4-year colleges and the lower state support levels at 2-year colleges (who receive substantial local funding).



Source: NYSED, Office of Research and Information Systems

Financial Support -- Public 4-Year Colleges

Revenues per Full-Time Equivalent Student, 1990-91, 2000-01 and 2008-09

| | 1990 | 2000 | | | 2008 | | |
|-------------------------------------|-----------|-------------|----------|-----------|-------------|----------|-----------|
| | Actual | Projection* | Actual | Diff. | Projection* | Actual | Diff. |
| | A | B1 | C1 | C1 - B1 | B2 | C2 | C2 - B2 |
| SUNY State-Operated Colleges | | | | | | | |
| Wtd Avg. Tuition & Fees | \$1,658 | \$2,319 | \$4,159 | \$1,840 | \$3,176 | \$5,935 | \$2,759 |
| State Appropriations | \$7,855 * | \$10,985 | \$10,496 | (\$489) | \$15,046 | \$13,979 | (\$1,067) |
| Total | \$9,513 | \$13,303 | \$14,655 | \$1,352 | \$18,222 | \$19,914 | \$1,692 |
| CUNY Senior Colleges | | | | | | | |
| Wtd Avg. Tuition & Fees | \$1,456 | \$2,036 | \$3,357 | \$1,320 | \$2,789 | \$4,360 | \$1,571 |
| State Appropriations | \$6,370 * | \$8,908 | \$5,162 | (\$3,746) | \$12,202 | \$8,388 | (\$3,813) |
| Total | \$7,826 | \$10,944 | \$8,519 | (\$2,425) | \$14,991 | \$12,748 | (\$2,242) |

*The 2000 projections were based on the HEPI inflation rate from 1990 to 2000 of 39.8 percent (4.0 percent per year).

*The 2008 projections were based on the HEPI inflation rate from 1990 to 2008 of 91.5 percent (5.1 percent per year).

The Higher Education Price Index (HEPI) reflects the purchase price of a fixed set of items appropriate to colleges.

Source: NYSED, Office of Research and Information Systems, Febr 2009.

* State Appropriations are legislative appropriations to institutions for current operating expenses (IPEDS Finance Survey).

Source: NYSED, Office of Research and Information Systems

Financial Support -- Community Colleges

Revenues per Full-Time Equivalent Student, 1990-91, 2000-01 and 2008-09

| | 1990 | 2000 | | | 2008 | | |
|--------------------------------|----------------|-------------------|----------------|------------------|-------------------|----------------|------------------|
| | Actual A | Projection* B1 | Actual C1 | Diff. C1 - B1 | Projection* B2 | Actual C2 | Diff. C2 - B2 |
| SUNY Community Colleges | | | | | | | |
| Wtd Avg. Tuition & Fees | \$1,466 | \$2,050 | \$2,789 | \$739 | \$2,808 | \$3,679 | \$871 |
| State Appropriations * | \$1,948 | \$2,724 | \$2,407 | (\$316) | \$3,731 | \$2,757 | (\$974) |
| Total | \$3,414 | \$4,774 | \$5,196 | \$423 | \$6,539 | \$6,436 | (\$103) |
| CUNY Community Colleges | | | | | | | |
| Wtd Avg. Tuition & Fees | \$1,423 | \$1,990 | \$2,619 | \$629 | \$2,726 | \$3,137 | \$411 |
| State Appropriations * | \$2,233 | \$3,123 | \$2,626 | (\$496) | \$4,277 | \$2,950 | (\$1,327) |
| Total | \$3,656 | \$5,113 | \$5,246 | \$133 | \$7,003 | \$6,087 | (\$915) |

*The 2000 projections were based on the HEPI inflation rate from 1990 to 2000 of 39.8 percent (4.0 percent per year).

*The 2008 projections were based on the HEPI inflation rate from 1990 to 2008 of 91.5 percent (5.1 percent per year).

The Higher Education Price Index (HEPI) reflects the purchase price of a fixed set of items appropriate to colleges.

Source: NYSED, Office of Research and Information Systems, Febr 2009.

* State Appropriations are legislative appropriations to institutions for current operating expenses (IPEDS Finance Survey).

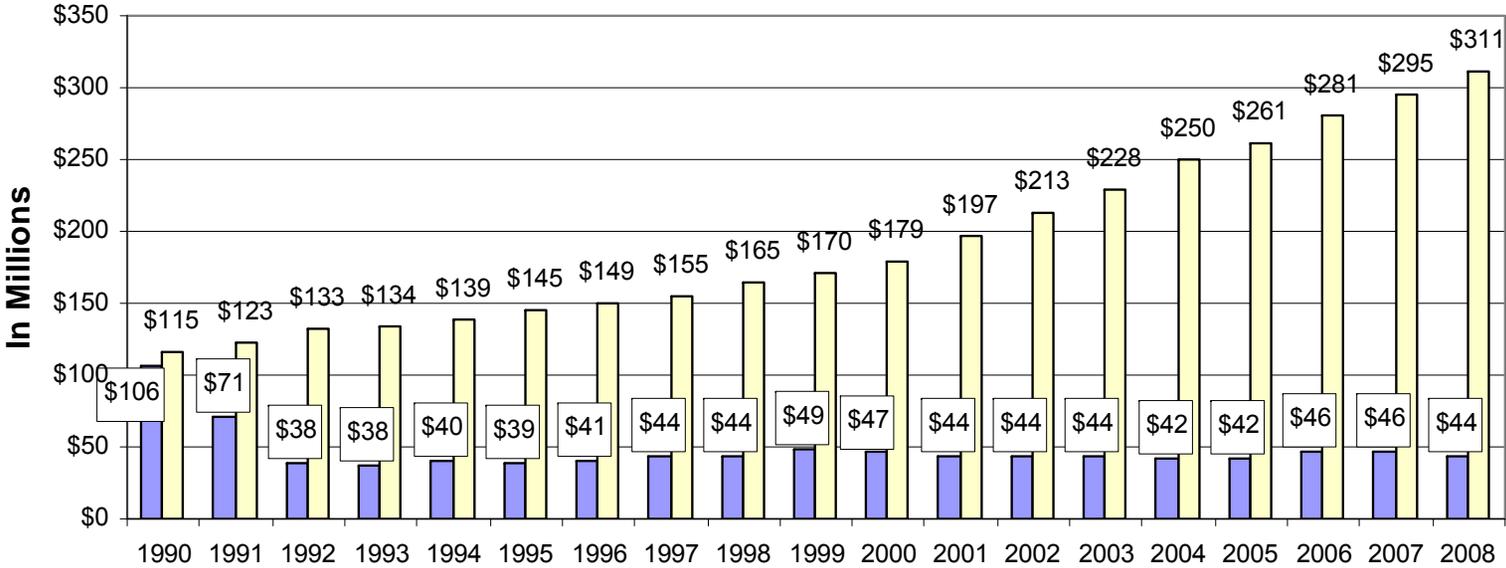
Source: NYSED, Office of Research and Information Systems

Financial Support

State Aid to Independent Colleges

Actual Bundy Aid Appropriations and Bundy Aid Entitlement Adjusted to 1990 Dollars

Bundy Appropriation Entitlement Adjusted by HEPI



Notes: 1990 = 1990-91
HEPI = Higher Education Price Index

Tuition & Fees – In-State

(Enrollment-weighted)

| | 2008-09 | Change from 2003-04 |
|----------------------------|----------|------------------------|
| 4-Year Institutions | | |
| SUNY | \$6,447 | 14% |
| CUNY* | \$4,362 | 2% |
| Independent | \$29,503 | 37% |
| Proprietary | \$16,475 | 23% |
| 2-Year Institutions | | |
| SUNY | \$3,678 | 27% |
| CUNY* | \$3,137 | 2% |
| Independent | \$10,904 | 18% |
| Proprietary | \$15,519 | 27% |



* CUNY tuition increase not yet enacted

Source: NYSED, Higher Education Data System (HEDS)

Student Financial Aid, 2005-06

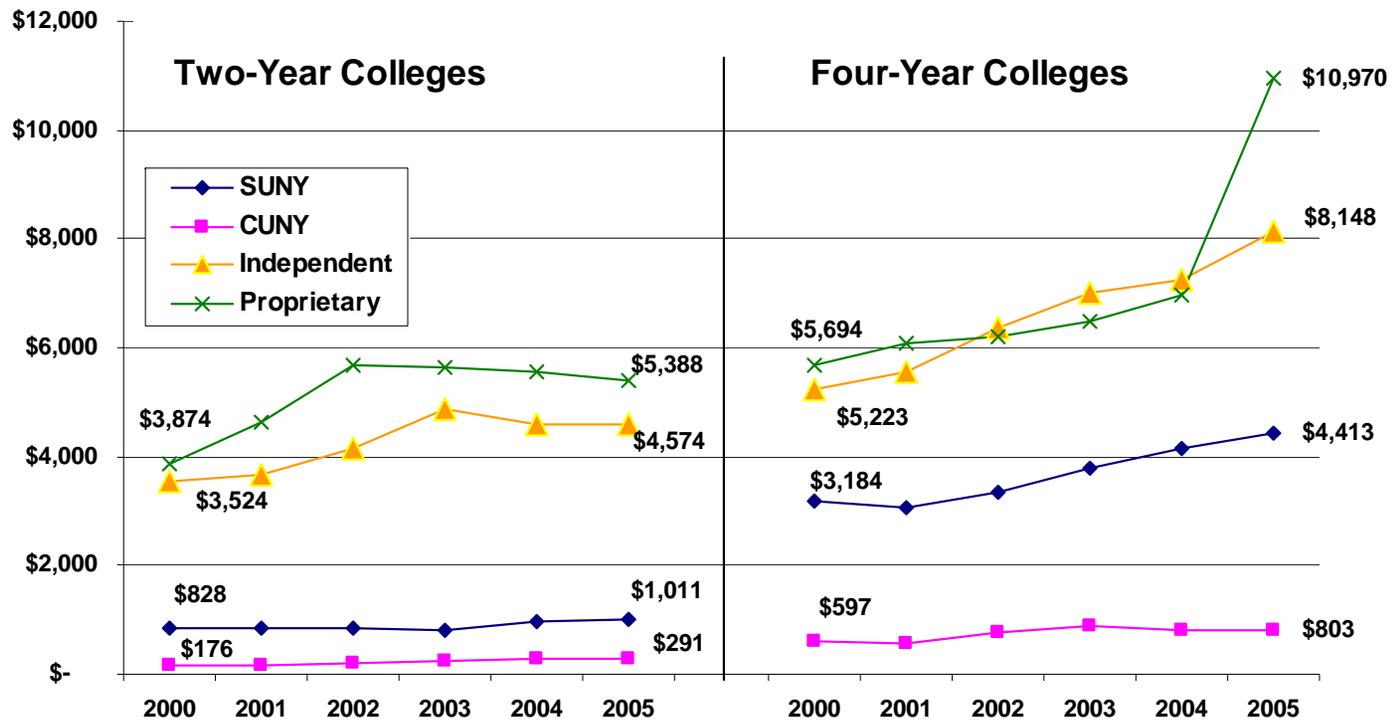
Undergraduates Receiving TAP and Pell

| | TAP Recipients | % of FTUG | Pell Recipients | % of All UG | Federal Loans per FTE * |
|----------------------------|-------------------|--------------|--------------------|----------------|-------------------------------|
| 4-Year Institutions | | | | | |
| SUNY | 76,688 | 44% | 54,648 | 27% | \$ 4,413 |
| CUNY | 44,893 | 44% | 55,294 | 37% | \$ 803 |
| Independent | 90,968 | 31% | 82,349 | 24% | \$ 8,148 |
| Proprietary | 8,214 | 34% | 22,093 | 78% | \$ 10,970 |
| NYS | 220,763 | 37% | 214,384 | 29% | \$ 5,625 |
| 2-Year Institutions | | | | | |
| SUNY | 52,066 | 31% | 62,250 | 21% | \$ 1,011 |
| CUNY | 20,768 | 38% | 39,734 | 40% | \$ 291 |
| Independent | 2,182 | 41% | 4,026 | 47% | \$ 4,574 |
| Proprietary | 21,986 | 47% | 31,986 | 60% | \$ 5,388 |
| NYS | 97,002 | 35% | 137,996 | 30% | \$ 1,385 |

* Does not include private loans which add another 33% statewide (data by sector not available). Also note that this is an average for all students. The average for loan recipients only would be substantially higher.

Sources: NYSED, Higher Education Data System (HEDS) and Higher Education Services Corporation

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



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

Note: Private loans add another 33% statewide (data by sector not available). Also note that this is an average for all students. The average for loan recipients only would be substantially higher.

Sources: NYSED, Higher Education Data System (HEDS) and Higher Education Services Corporation

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:

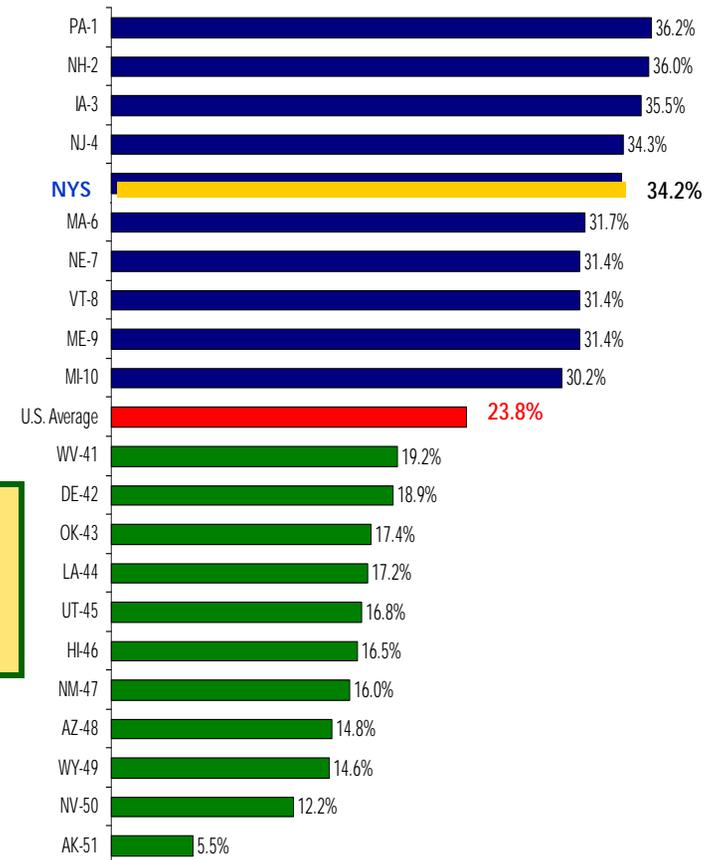
Average Federal Loan per Full-time Equivalent Undergraduate At 4-Year Institutions: 2005-06

| 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 |

Loans reflect 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



➤ **Environment Factors**

- o Tightening up of the credit market. Impact on student access to loans
- o Modest increase in the maximum Pell grants, tax credits, and College Work-Study for 2 years as part of a stimulus
- o Rising college costs combines with less institutional aid and private scholarships available



➤ Areas of Impact

- o Complex changes in student aid and affordability but generally with grant aid available covering less of total costs and with many students either relying more on loans or are having difficulty getting needed loans
- o Is there a need to adjust the mix between institutional aid and student financial aid?
- o Will the proposed New York Higher Education Loan Program (NYHELPS) continue to ensure access to postsecondary education in New York State?



Data Categories

- Enrollment
- Performance
- Degrees Awarded
- Finance
 - **Faculty and Research**
 - Full-time Faculty
 - Faculty Salaries
 - Research

Percent Full-Time Faculty

| | NYS 1997 | NYS 2007 | USA 1997 | USA 2007 |
|------------------------|-------------|-------------|-------------|-------------|
| 4-Year Colleges | | | | |
| SUNY | 64% | 56% | | |
| CUNY | 42% | 44% | | |
| Public Total | 55% | 51% | 73% | 71% |
| Independent | 59% | 57% | 61% | 60% |
| Proprietary | 17% | 23% | 19% | 12% |
| Total | 57% | 54% | 67% | 61% |
| 2-Year Colleges | | | | |
| SUNY | 37% | 35% | | |
| CUNY | 29% | 38% | | |
| Public Total | 35% | 36% | 34% | 33% |
| Independent | 46% | 48% | 54% | 47% |
| Proprietary | 41% | 35% | 51% | 47% |
| Total | 36% | 36% | 35% | 34% |

* Includes the functions of instruction, research and public service.
 Staff without faculty status but who did provide instruction are not included.
 Breakouts of those individuals for 2007 are available and significant.



Source: National Center for Educational Statistics (IPEDS)

All Instructional Staffing, 2007-08

Including Graduate Assistants

| | Full-time Faculty* | Part-time Faculty | Part-time Grad.Asst | Part-time Other | | Total | |
|-----------------------|------------------------|-------------------|---------------------|-----------------|------|-----------|--|
| New York State | | | | | | | |
| | 4-Year Colleges | | | | | | |
| SUNY | 53.5% | 41.7% | 4.7% | 0.0% | 100% | 17,695 | |
| CUNY | 40.2% | 51.9% | 7.9% | 0.0% | 100% | 12,083 | |
| Public Total | 48.1% | 45.9% | 6.0% | 0.0% | 100% | 29,778 | |
| Independent | 47.9% | 36.0% | 11.1% | 5.0% | 100% | 63,497 | |
| Proprietary | 23.2% | 76.1% | 0.7% | 0.0% | 100% | 2,519 | |
| Total | 47.3% | 40.1% | 9.2% | 3.3% | 100% | 95,794 | |
| USA | | | | | | | |
| Public Total | 48.9% | 21.2% | 27.1% | 2.8% | 100% | 644,404 | |
| Independent | 48.6% | 33.0% | 10.4% | 7.9% | 100% | 397,455 | |
| Proprietary | 12.1% | 87.4% | 0.1% | 0.5% | 100% | 90,343 | |
| Total | 45.9% | 30.6% | 19.1% | 4.4% | 100% | 1,132,202 | |

* Includes full-time instructional staff without faculty status (<.6% for all rows).



Source: National Center for Educational Statistics (IPEDS)

All Instructional Staffing, 2007-08

| | Full-time Faculty* | Part-time Faculty | Part-time Other | | Total |
|------------------------|--------------------|-------------------|-----------------|-------------|----------------|
| New York State | | | | | |
| 2-Year Colleges | | | | | |
| SUNY | 32.7% | 60.2% | 7.1% | 100% | 12,838 |
| CUNY | 38.2% | 61.8% | 0.0% | 100% | 4,497 |
| Public | 34.1% | 60.6% | 5.3% | 100% | 17,335 |
| Independent | 45.4% | 50.1% | 4.4% | 100% | 700 |
| Proprietary | 33.0% | 61.1% | 5.9% | 100% | 1,606 |
| Total | 35.1% | 60.5% | 4.3% | 100% | 24,138 |
| USA | | | | | |
| Public | 31.7% | 63.0% | 5.3% | 100% | 355,704 |
| Independent | 44.3% | 50.2% | 5.5% | 100% | 3,519 |
| Proprietary | 46.2% | 52.3% | 1.6% | 100% | 18,098 |
| Total | 32.5% | 62.4% | 5.1% | 100% | 377,321 |

* Includes full-time instructional staff without faculty status (<.6% for all rows).



Source: National Center for Educational Statistics (IPEDS)

Average Salary of Full-time Instructional Faculty (on 9-month Contracts) Four-Year Colleges, 2006-07

| Top 10 States | Public | | | Independent | | |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | Doctoral | Masters | Other | Doctoral | Masters | Other |
| | * | ** | | * | ** | |
| United States | \$76,921 | \$62,298 | \$59,057 | \$91,291 | \$62,518 | \$60,500 |
| Minnesota | 95,702 | 63,189 | 57,904 | 62,193 | 57,713 | 63,444 |
| California | 95,397 | 70,081 | 69,953 | 98,319 | 73,091 | 80,755 |
| New Jersey | 94,185 | 81,386 | † | 103,753 | 66,738 | 63,176 |
| Connecticut | 93,230 | 72,791 | † | 102,964 | 78,867 | 68,564 |
| Washington | 89,376 | 65,744 | 53,453 | † | 63,299 | 62,079 |
| Massachusetts | 86,304 | 67,214 | 71,727 | 104,004 | 75,740 | 75,371 |
| New York | 86,054 | 71,454 | 65,323 | 94,461 | 64,596 | 73,775 |
| Delaware | 85,856 | 64,908 | † | 58,121 | 92,816 | † |
| Maryland | 83,365 | 60,936 | 61,073 | 88,795 | 59,700 | 65,201 |
| Pennsylvania | 82,044 | 70,075 | 60,440 | 96,017 | 62,897 | 67,241 |

* Institutions awarding 20+ doctor's degrees

** Institutions awarding 20+ master's degrees, but < 20 doctor's degrees

† No institutions of this type or no data available.

SOURCE: US Department of Education, National Center for Education Statistics, (prepared August 2007)



**Average Salary of Full-time Instructional Faculty (on 9-month Contracts)
Two-Year Colleges, 2006-07**

| Top 10 States | Public | Independent | Proprietary |
|----------------------|-----------------|-----------------|-----------------|
| United States | \$57,466 | \$42,043 | \$46,053 |
| California | 76,114 | 59,976 | 78,566 |
| Alaska | 72,865 | † | † |
| Michigan | 70,544 | † | † |
| New Jersey | 66,371 | † | 38,139 |
| Wisconsin | 66,126 | 45,233 | † |
| Connecticut | 64,740 | † | 43,854 |
| New York | 64,478 | 44,065 | 41,570 |
| Arizona | 63,628 | † | † |
| Delaware | 61,852 | † | † |
| Illinois | 61,757 | 37,858 | 24,234 |

† No institutions of this type or no data available.

SOURCE: US Department of Education, National Center for Education Statistics, (prepared August 2007)



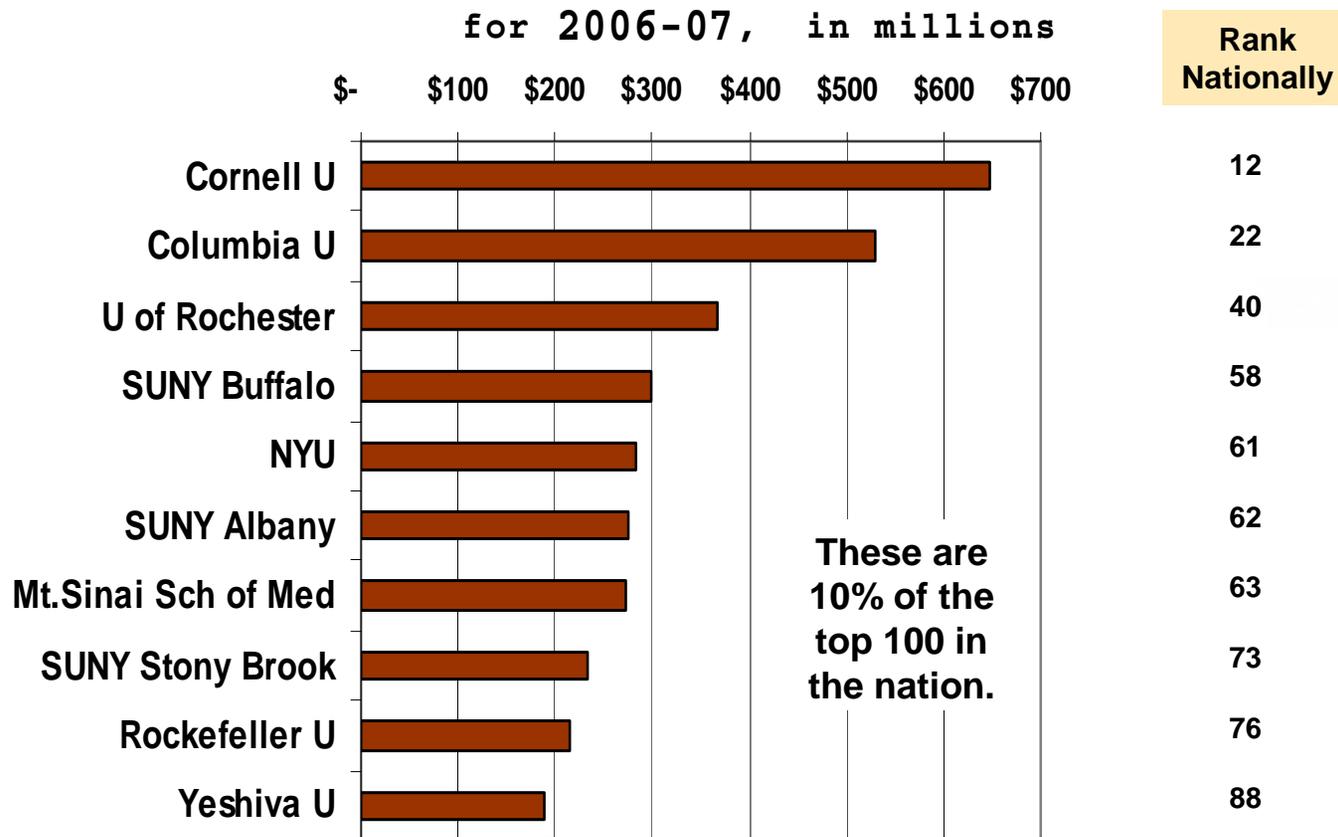
Faculty & Research: Research Expenditures

| 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.



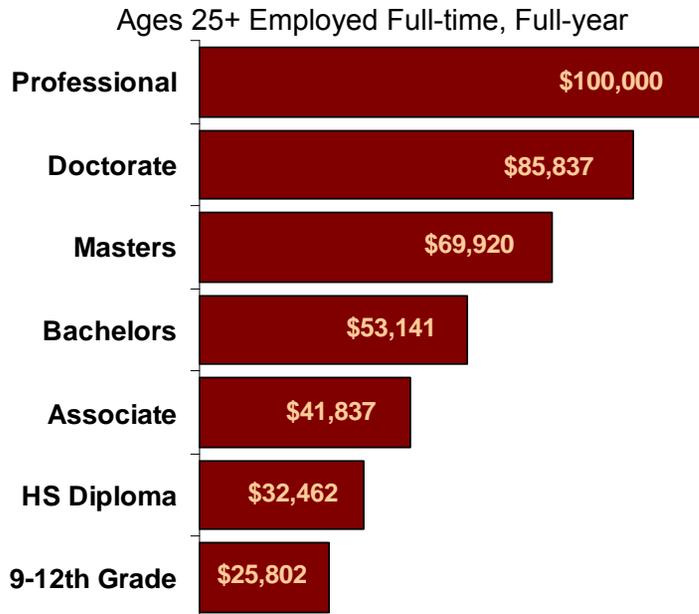
New York State Colleges with the Largest Research and Development Expenditures



Source: National Science Foundation, 2008.

Meeting the needs of New Yorkers

By providing a skilled workforce:
Median Annual Earnings by Degree, 2007



Source: March 2008 Supplement, Current Population Survey

**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

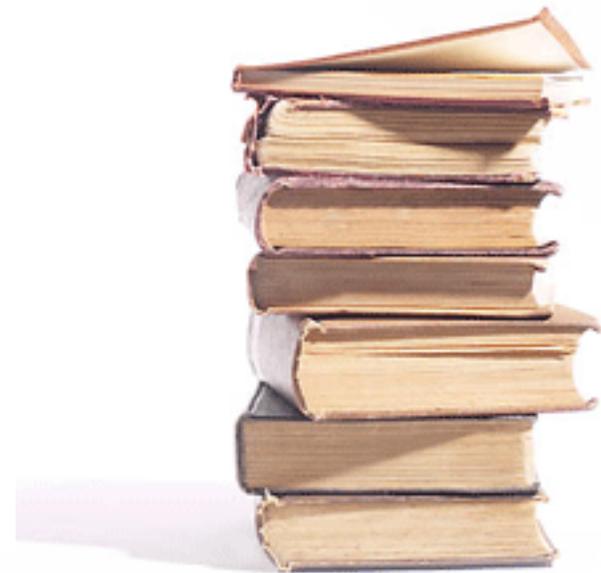
College graduates are more likely to have: Lower smoking rates; more positive perceptions of own health; greater civic participation

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 as nursing, teaching, math and technical professions**
- **Maintaining the faculty and services for a high-quality education**
- **Providing the research and workforce to help our communities face the recession and the economic future**

➤ **Environment Factors**

- Stimulus money for public universities
- Stimulus money for workforce development



➤ Areas of Impact

- o Demand for training/retraining by persons with baccalaureate and graduate degrees – likely to be felt by institutions with graduate programs in business and professional fields
- o Aligning needed faculty/programs with appropriate employment opportunities in a timely manner. More programs without doctorally-prepared faculty
- o Ability of community colleges to absorb both increased workforce preparation students and more regular admissions to the community colleges

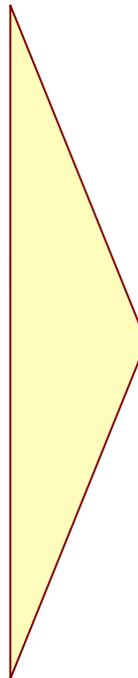


P-16 Student Record System: How Will It Help Higher Ed?

Increased Analytical Capacity Will Strengthen New York's Higher Education System

What is different?

- **New and more precise data**
 - ✓ Family income and other family characteristics
 - ✓ Test scores and other outcome measures
 - ✓ Program-specific measures
 - ✓ Interventions received
 - ✓ Aid received
 - ✓ Jobs and other success measures
- **Ability to see interactions**
 - ✓ By cross-tabbing more student and program characteristics and performing multivariate analysis
- **Tracking across time and systems**
 - ✓ K12 to college to employment
 - ✓ Between colleges and programs
- **More accessible information**
 - ✓ A statewide integrated database, P-16 and all sectors



What is gained?

- **Better Understanding of**
 - ✓ College readiness of high school graduates
 - ✓ Student Pathways and nontraditional student outcomes
 - ✓ Ultimate student success in terms of graduation, jobs and other outcomes
 - ✓ College costs and affordability
 - ✓ Program Outcomes
 - ✓ Student aid, retention and other policy effects
- **Better, more timely policy**
 - ✓ Targeted feedback to individual schools, colleges, programs and the legislature
 - ✓ Early warning systems for at risk students, pipeline problems for occupational shortage areas, etc
 - ✓ Flexibility and efficiency in meeting evolving data and management needs