



Higher Education in America's Metropolitan Areas

A Statistical Profile



ATLANTA REGIONAL CONSORTIUM *for* HIGHER EDUCATION

MSA Study No.2

Higher Education in America's Metropolitan Areas

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Why Metro Areas?

ARCHE, the Atlanta Regional Consortium for Higher Education, is proud to present *Higher Education in America's Metropolitan Areas: A Statistical Profile*. This study, which updates the first such research of its kind (released by ARCHE in April 1999), highlights the role our nation's urban areas play in the national landscape of higher education and, conversely, the role higher education plays in these areas.

Understanding the presence of higher education in urban regions is important. Eight out of 10 Americans live in a metropolitan statistical area (MSA). MSAs are major centers of business and industry, acting as powerful engines in the national economy. They are places that nourish the arts and culture, and provide a testing ground for social change.

Too often, however, higher education's significant role in the life and growth of America's metropolitan regions is either overlooked or misunderstood. As this study indicates, public and private colleges and universities are major resources for the economic livelihood and work force development of America's cities and surrounding areas.

ARCHE hopes this report will serve as a useful statistical reference for leaders in business, government, and education, promoting understanding of higher education as an irreplaceable community asset.

Executive Summary

A National Perspective

Higher Education in America's Metropolitan Areas: A Statistical Profile reveals that nearly half of America's higher education enterprise is taking place not in traditional "college towns" but in the nation's largest cities and their surrounding metropolitan statistical areas (MSAs).^{*} Among the key findings of this second MSA study published by ARCHE are:

- The 4.6 million full-time-equivalent (FTE) students enrolled in the 60 MSAs included in this study represent 44 percent of all students attending degree-granting institutions in the U.S. The nearly 600,000 African-American students attending institutions in these MSAs equals 52 percent of African-American enrollments nationally.
- Similarly, the 800,000-plus recipients of Bachelor's degrees and higher from institutions located in the 60 MSAs account for 47 percent of all such graduates nationwide.
- The 60 largest MSAs also encompass more than \$100 billion in expenditures by higher education institutions (54 percent of all such spending in the country) and 1.3 million higher ed employees (49 percent of the national total).
- Nine metro areas collectively account for nearly one-fifth of America's total public and private higher education system. These nine are among the top 10 metro areas in the nation in both collegiate enrollments and graduations. They are: Atlanta, Boston, Chicago, Los Angeles-Long Beach, Minneapolis-St. Paul, New York, Philadelphia, San Diego, and Washington, D.C.
- Collectively, the nine leading MSAs in higher education account for 17 percent of all students enrolled in the nation's degree-granting institutions and 22 percent of all African-American students enrolled. These nine areas also account for 19 percent of all students graduating at the Bachelor's degree level or higher in the U.S., as well as for 24 percent of all higher ed expenditures and 19 percent of all higher ed employees.
- From a regional perspective, higher education in this study's 60 MSAs is evenly distributed across the country. Using the geographical definitions of the regional higher education accrediting agencies, enrollment within the 60 metro areas is distributed as follows: New England - 6 percent, Middle States region - 24 percent, Southern region - 23 percent, North Central region - 24 percent, and Western/Northwest regions - 24 percent.
- This geographical enrollment distribution changes somewhat for African-American students, who more heavily attend institutions in the Southern (34 percent) and Middle States (29 percent) regions than in New England (3 percent), the Western/Northwest regions (14 percent), or the North Central region (21 percent).

^{*}All national comparisons in this summary are based on data published in the U.S. Department of Education's 1999 Digest of Education Statistics. Because of the availability of Federal data, enrollment comparisons are based on 1997-98, degree comparisons on 1996-97, and finance comparisons on 1995-96. The 60 metropolitan areas included in this study all had populations exceeding one million people in July 1997.

The Atlanta Metro Area: A Higher Education Leader

Higher Education in America's Metropolitan Areas also shows that the Atlanta region is a national leader in higher education, consistently ranking in the top 10 metro areas in key measures of higher education activity.

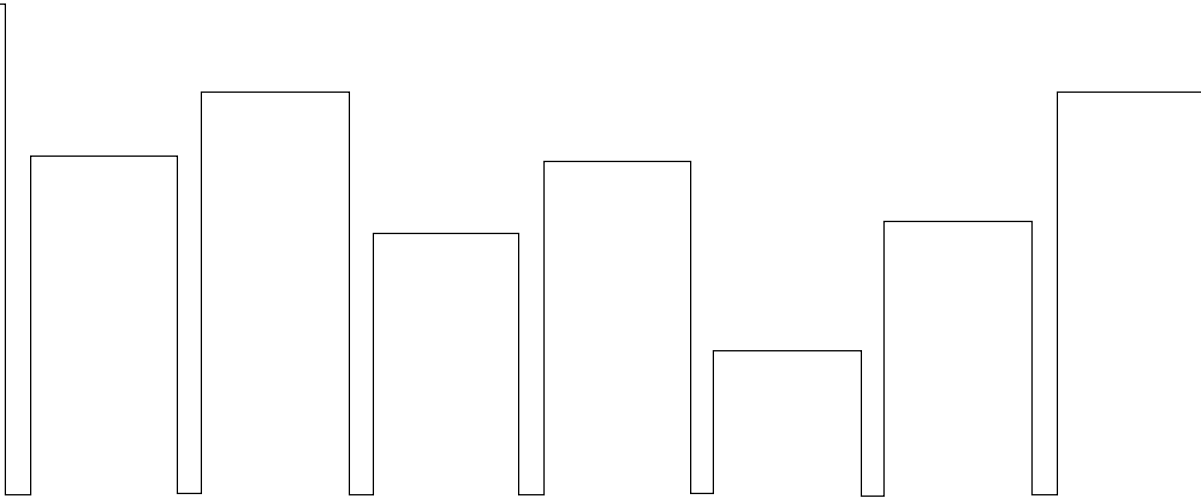
- Atlanta is rich with collegiate student life and learning, ranking sixth among the 60 MSAs studied in the total number of students attending degree-granting institutions. Atlanta also is a focal point for higher education opportunity for African-Americans, ranking fourth in the number of African-American students enrolled.
- The majority of students in the Atlanta region not only are pursuing higher education, they are completing it: Atlanta has the sixth highest number of degrees conferred at the Bachelor's level and higher.
- Atlanta produces significant numbers of graduates educated in the skills demanded by today's business marketplace, ranking in the top 10 in number of degrees conferred across a wide range of fields of study, including:
 - business management and administrative services (sixth)
 - engineering and engineering related technologies (second)
 - computer and information sciences (fourth)
 - mathematics (fourth)
 - physical sciences (seventh)
 - biological and life sciences (seventh)
 - health professions and related sciences (sixth)
 - communications and communications technologies (eighth)
 - education (fourth)
 - visual and performing arts (seventh)
 - theological studies and religious vocations (seventh)
 - English language and literature/letters (seventh)
 - foreign languages and literatures (ninth)
- Higher education also makes a significant impact on the Atlanta economy. Not only does Atlanta rank sixth among the 60 largest MSAs in total higher ed expenditures, it has the eighth largest work force employed in higher education.
- Further, Atlanta is a national center for research, ranking third nationally in research expenditures. The region also is a magnet for Federal funding, ranking eighth in Federal appropriations, grants and contracts.



SAM A. WILLIAMS
PRESIDENT,
METRO ATLANTA CHAMBER OF COMMERCE

"Atlanta's wealth of higher education opportunities attracts bright and innovative students and faculty, which in turn helps attract the forward-thinking 'industries of the mind' that form the core of the future economy."

Enrollment



TEN LARGEST METROPOLITAN STATISTICAL AREAS IN NATION
1997-98 FULL-TIME-EQUIVALENT ENROLLMENT* PER 100,000 POPULATION

Rank

1	Boston, MA-NH PMSA	4,939
2	New York, NY PMSA	3,980
3	Atlanta, GA MSA	3,699
4	Chicago, IL PMSA	3,626
5	Los Angeles-Long Beach, CA PMSA	3,574
6	Philadelphia, PA-NJ PMSA	3,408
7	Dallas, TX PMSA	2,978
8	Washington, DC-MD-VA-WV PMSA	2,349
9	Detroit, MI PMSA	2,108
10	Houston, TX PMSA	1,777

*Full-Time-Equivalent enrollment is used for budgeting purposes, and equates part-time students to full-time equivalency using a formula

TOTAL FULL-TIME-EQUIVALENT ENROLLMENT* 1997-98

Rank	MSA Name	1997-98	Change from '95-96
1	New York, NY PMSA	344,306	-0.3%
2	Los Angeles-Long Beach, CA PMSA	326,166	4.6%
3	Chicago, IL PMSA	286,115	2.1%
4	Philadelphia, PA-NJ PMSA	168,462	0.4%
5	Boston, MA-NH PMSA	161,592	0.1%
6	Atlanta, GA MSA	134,290	1.9%
7	San Diego, CA MSA	125,473	7.6%
8	Phoenix-Mesa, AZ MSA	108,122	8.0%
9	Washington, DC-MD-VA-WV PMSA	108,116	-0.9%
10	Minneapolis-St. Paul, MN-WI MSA	102,940	5.1%
11	Orange County, CA PMSA	102,643	5.7%
12	Detroit, MI PMSA	94,200	1.7%
13	Seattle-Bellevue-Everett, WA PMSA	94,005	4.7%
14	Dallas, TX PMSA	92,828	0.7%
15	Oakland, CA PMSA	92,170	1.4%
16	Pittsburgh, PA MSA	91,392	0.7%
17	Nassau-Suffolk, NY PMSA	82,095	-1.5%
18	San Francisco, CA PMSA	79,656	4.4%
19	Austin-San Marcos, TX MSA	79,601	2.2%
20	Baltimore, MD PMSA	79,077	0.6%
21	Raleigh-Durham-Chapel Hill, NC MSA	74,699	1.0%
22	Columbus, OH MSA	70,770	0.5%
23	Miami, FL PMSA	68,435	4.5%
24	St. Louis, MO-IL MSA	68,350	4.3%
25	Houston, TX PMSA	68,256	-1.0%
26	Denver, CO PMSA	64,135	4.7%
27	San Jose, CA PMSA	59,404	4.2%
28	Newark, NJ PMSA	58,613	-0.2%
29	Tampa-St. Petersburg-Clearwater, FL MSA	58,510	-1.5%
30	Riverside-San Bernardino, CA PMSA	56,518	9.7%
31	Oklahoma City, OK MSA	54,348	-1.4%
32	Sacramento, CA PMSA	54,315	8.4%
33	Milwaukee-Waukesha, WI PMSA	53,791	-0.4%
34	Portland-Vancouver, OR-WA PMSA	51,690	3.2%
35	Nashville, TN MSA	49,954	5.2%
36	Cincinnati, OH-KY-IN PMSA	49,945	2.5%
37	Cleveland-Lorain-Elyria, OH PMSA	49,373	-2.7%
38	Providence-Fall River-Warwick, RI-MA MSA	49,324	-1.1%
39	Rochester, NY MSA	49,316	-3.3%
40	New Orleans, LA MSA	46,748	-2.9%
40	Orlando, FL MSA	46,748	9.2%
42	Kansas City, MO-KS MSA	45,095	-2.8%
43	Greensboro--Winston-Salem--High Point, NC MSA	45,004	-3.1%
44	Buffalo-Niagara Falls, NY MSA	44,473	-3.1%
45	San Antonio, TX MSA	44,233	4.2%
46	Norfolk-Virginia Beach-Newport News, VA-NC MSA	43,724	-1.3%
47	Fort Worth-Arlington, TX PMSA	42,239	-1.3%
48	Hartford, CT MSA	41,238	-3.2%
49	Salt Lake City-Ogden, UT MSA	37,969	3.7%
50	Charlotte-Gastonia-Rock Hill, NC-SC MSA	37,609	-2.1%
51	Grand Rapids-Muskegon-Holland, MI MSA	35,395	6.8%
52	Indianapolis, IN MSA	30,806	3.9%
53	Memphis, TN-AR-MS MSA	30,195	-3.6%
54	Fort Lauderdale, FL PMSA	28,645	10.3%
55	Bergen-Passaic, NJ PMSA	27,036	-0.8%
56	Las Vegas, NV-AZ MSA	26,781	18.4%
57	West Palm Beach-Boca Raton, FL MSA	26,575	9.7%
58	Jacksonville, FL MSA	21,168	0.0%
59	Monmouth-Ocean, NJ PMSA	19,124	1.8%
60	Middlesex-Somerset-Hunterdon, NJ PMSA	12,122	-3.5%
	Total	4,595,919	2.0%

*Full-Time-Equivalent enrollment is used for budgeting purposes, and equates part-time students to full-time equivalency using a formula

TOTAL AFRICAN-AMERICAN FULL-TIME-EQUIVALENT ENROLLMENT* 1997-98

Rank	MSA Name	1997-98	Change from '95-96
1	New York, NY PMSA	67,917	-3.4%
2	Chicago, IL PMSA	45,507	7.0%
3	Los Angeles-Long Beach, CA PMSA	33,496	5.6%
4	Atlanta, GA MSA	33,361	8.4%
5	Philadelphia, PA-NJ PMSA	23,987	4.2%
6	Washington, DC-MD-VA-WV PMSA	18,905	1.3%
7	Houston, TX PMSA	18,462	-1.7%
8	Baltimore, MD PMSA	18,296	3.2%
9	Detroit, MI PMSA	17,438	2.6%
10	Norfolk-Virginia Beach-Newport News, VA-NC MSA	15,907	-1.0%
11	New Orleans, LA MSA	14,765	1.1%
12	Raleigh-Durham-Chapel Hill, NC MSA	14,677	-0.6%
13	Greensboro--Winston-Salem--High Point, NC MSA	13,533	0.4%
14	Miami, FL PMSA	12,151	5.0%
15	Dallas, TX PMSA	11,492	2.6%
16	Oakland, CA PMSA	10,723	-0.9%
17	Nashville, TN MSA	10,637	9.8%
18	Boston, MA-NH PMSA	10,244	9.6%
19	Newark, NJ PMSA	10,133	-1.3%
20	Memphis, TN-AR-MS MSA	10,128	3.0%
21	Nassau-Suffolk, NY PMSA	8,664	2.4%
22	Charlotte-Gastonia-Rock Hill, NC-SC MSA	8,060	4.6%
23	St. Louis, MO-IL MSA	7,729	8.3%
24	San Diego, CA MSA	7,558	9.3%
25	Cleveland-Lorain-Elyria, OH PMSA	7,358	-7.1%
26	Pittsburgh, PA MSA	6,798	0.5%
27	Tampa-St. Petersburg-Clearwater, FL MSA	6,266	7.9%
28	Columbus, OH MSA	6,179	2.3%
29	Fort Lauderdale, FL PMSA	5,478	21.4%
30	Oklahoma City, OK MSA	5,428	6.9%
31	Riverside-San Bernardino, CA PMSA	5,233	6.8%
32	Cincinnati, OH-KY-IN PMSA	5,131	9.3%
33	San Francisco, CA PMSA	4,923	5.0%
34	Milwaukee-Waukesha, WI PMSA	4,885	-6.2%
35	Minneapolis-St. Paul, MN-WI MSA	4,561	1.7%
36	Orlando, FL MSA	4,474	22.8%
37	Sacramento, CA PMSA	4,415	15.0%
38	Kansas City, MO-KS MSA	4,411	-2.9%
39	Phoenix-Mesa, AZ MSA	4,205	14.4%
40	Orange County, CA PMSA	4,089	16.9%
41	Seattle-Bellevue-Everett, WA PMSA	4,059	6.3%
42	Buffalo-Niagara Falls, NY MSA	3,857	6.7%
43	Austin-San Marcos, TX MSA	3,801	-6.9%
44	Fort Worth-Arlington, TX PMSA	3,495	2.0%
45	West Palm Beach-Boca Raton, FL MSA	3,474	32.0%
46	Jacksonville, FL MSA	3,468	0.9%
47	Rochester, NY MSA	3,350	-6.2%
48	Indianapolis, IN MSA	3,301	14.3%
49	San Jose, CA PMSA	3,251	6.1%
50	Denver, CO PMSA	3,003	3.8%
51	Hartford, CT MSA	2,765	-0.6%
52	Bergen-Passaic, NJ PMSA	2,709	0.3%
53	San Antonio, TX MSA	2,612	11.0%
54	Providence-Fall River-Warwick, RI-MA MSA	2,344	2.1%
55	Las Vegas, NV-AZ MSA	2,135	32.2%
56	Grand Rapids-Muskegon-Holland, MI MSA	1,692	5.7%
57	Portland-Vancouver, OR-WA PMSA	1,254	2.5%
58	Middlesex-Somerset-Hunterdon, NJ PMSA	1,243	3.9%
59	Monmouth-Ocean, NJ PMSA	1,030	7.6%
60	Salt Lake City-Ogden, UT MSA	291	-13.0%
	Total	580,740	3.3%

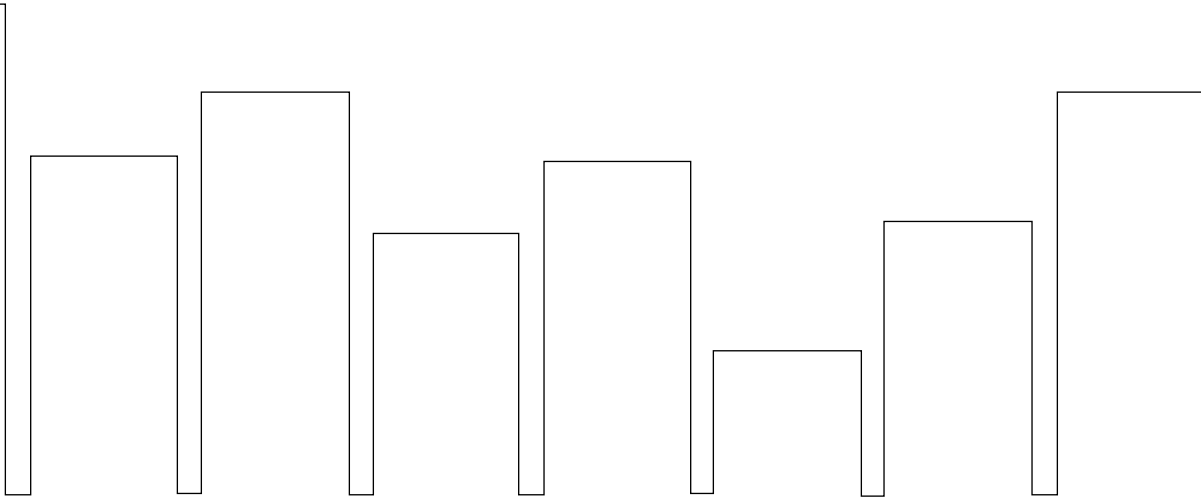
*Full-Time-Equivalent enrollment is used for budgeting purposes, and equates part-time students to full-time equivalency using a formula.



JAMES P. KELLY
CHAIRMAN AND CEO,
UNITED PARCEL SERVICE

"The vitality of a community's business climate is sustained by its higher education system. Atlanta's prominence as a world-class technology and transportation center is a reflection of the region's highly educated work force and dynamic college and university community."

Degrees



**TEN LARGEST METROPOLITAN STATISTICAL AREAS IN NATION
1997-98 BACHELOR'S DEGREES AND HIGHER CONFERRED PER 100,000 POPULATION**

Rank		
1	Boston, MA-NH PMSA	1,247
2	Atlanta, GA MSA	798
3	New York, NY PMSA	787
4	Philadelphia, PA-NJ PMSA	686
5	Chicago, IL PMSA	654
6	Washington, DC-MD-VA-WV PMSA	584
7	Los Angeles-Long Beach, CA PMSA	554
8	Dallas, TX PMSA	536
9	Detroit, MI PMSA	344
10	Houston, TX PMSA	218

*Full-Time-Equivalent enrollment is used for budgeting purposes, and equates part-time students to full-time equivalency using a formula

TOTAL DEGREES CONFERRED (BACHELOR'S AND HIGHER) 1997-98

Rank	MSA Name	1997-98	Change from '95-96
1	New York, NY PMSA	68,110	1.8%
2	Chicago, IL PMSA	51,568	1.4%
3	Los Angeles-Long Beach, CA PMSA	50,584	-1.7%
4	Boston, MA-NH PMSA	40,794	1.8%
5	Philadelphia, PA-NJ PMSA	33,885	4.8%
6	Atlanta, GA MSA	28,982	10.4%
7	Washington, DC-MD-VA-WV PMSA	26,894	2.2%
8	San Diego, CA MSA	18,864	5.9%
9	Minneapolis-St. Paul, MN-WI MSA	18,122	-0.4%
10	Raleigh-Durham-Chapel Hill, NC MSA	17,106	4.5%
11	Austin-San Marcos, TX MSA	17,067	6.5%
12	Dallas, TX PMSA	16,695	0.2%
13	Pittsburgh, PA MSA	16,377	2.5%
14	Detroit, MI PMSA	15,365	4.5%
15	St. Louis, MO-IL MSA	15,349	7.3%
16	Nassau-Suffolk, NY PMSA	15,116	-8.9%
17	Phoenix-Mesa, AZ MSA	14,878	14.5%
18	Seattle-Bellevue-Everett, WA PMSA	14,683	0.7%
19	Oakland, CA PMSA	14,514	-0.9%
20	Baltimore, MD PMSA	14,422	1.6%
21	Columbus, OH MSA	14,391	0.2%
22	San Jose, CA PMSA	13,320	6.8%
23	San Francisco, CA PMSA	12,883	-0.5%
24	Orange County, CA PMSA	12,859	4.2%
25	Miami, FL PMSA	11,945	4.4%
26	Oklahoma City, OK MSA	11,864	22.8%
27	Denver, CO PMSA	11,376	9.5%
28	Tampa-St. Petersburg-Clearwater, FL MSA	10,402	0.1%
29	Buffalo-Niagara Falls, NY MSA	10,225	-5.5%
30	Newark, NJ PMSA	9,912	3.6%
31	Milwaukee-Waukesha, WI PMSA	9,607	2.1%
32	Rochester, NY MSA	9,589	2.9%
33	Hartford, CT MSA	9,368	-1.6%
34	Nashville, TN MSA	9,292	12.0%
35	Cincinnati, OH-KY-IN PMSA	9,117	3.3%
36	New Orleans, LA MSA	8,867	6.0%
37	Norfolk-Virginia Beach-Newport News, VA-NC MSA	8,843	0.4%
38	Providence-Fall River-Warwick, RI-MA MSA	8,752	-5.4%
39	Portland-Vancouver, OR-WA PMSA	8,729	5.2%
40	Cleveland-Lorain-Elyria, OH PMSA	8,429	2.5%
41	Kansas City, MO-KS MSA	8,414	0.8%
42	Houston, TX PMSA	8,357	1.8%
43	Orlando, FL MSA	7,800	11.2%
44	Greensboro--Winston-Salem--High Point, NC MSA	7,668	-1.7%
45	Fort Worth-Arlington, TX PMSA	7,051	-1.2%
46	Salt Lake City-Ogden, UT MSA	6,778	11.8%
47	San Antonio, TX MSA	5,916	-3.8%
48	Charlotte-Gastonia-Rock Hill, NC-SC MSA	5,790	9.1%
49	Indianapolis, IN MSA	5,047	-1.5%
50	Grand Rapids-Muskegon-Holland, MI MSA	4,998	6.5%
51	West Palm Beach-Boca Raton, FL MSA	4,777	15.6%
52	Riverside-San Bernardino, CA PMSA	4,650	3.4%
53	Fort Lauderdale, FL PMSA	4,596	7.2%
54	Memphis, TN-AR-MS MSA	4,525	-0.5%
55	Sacramento, CA PMSA	4,521	3.5%
56	Bergen-Passaic, NJ PMSA	4,014	-2.0%
57	Las Vegas, NV-AZ MSA	3,329	23.7%
58	Jacksonville, FL MSA	3,184	20.2%
59	Monmouth-Ocean, NJ PMSA	1,918	-6.0%
60	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	822,478	2.9%

**BUSINESS MANAGEMENT AND ADMINISTRATIVE SERVICES DEGREES CONFERRED
(BACHELOR'S AND HIGHER) 1997-98**

Rank	MSA Name	1997-98	Change from '95-96
1	Chicago, IL PMSA	11,438	4.5%
2	New York, NY PMSA	11,127	3.0%
3	Los Angeles-Long Beach, CA PMSA	9,779	1.6%
4	Boston, MA-NH PMSA	7,843	-0.9%
5	Philadelphia, PA-NJ PMSA	6,771	5.2%
6	Atlanta, GA MSA	5,892	14.7%
7	Phoenix-Mesa, AZ MSA	5,213	21.3%
8	St. Louis, MO-IL MSA	4,894	9.5%
9	Washington, DC-MD-VA-WV PMSA	4,765	2.5%
10	Dallas, TX PMSA	4,105	-1.4%
11	San Diego, CA MSA	3,850	25.3%
12	Detroit, MI PMSA	3,579	1.4%
13	San Francisco, CA PMSA	3,535	5.6%
14	Denver, CO PMSA	3,331	16.4%
15	Minneapolis-St. Paul, MN-WI MSA	3,328	2.1%
16	Orange County, CA PMSA	3,223	26.5%
17	Pittsburgh, PA MSA	3,202	1.4%
18	Tampa-St. Petersburg-Clearwater, FL MSA	2,942	-0.4%
19	San Jose, CA PMSA	2,940	25.2%
20	Austin-San Marcos, TX MSA	2,937	6.3%
21	Kansas City, MO-KS MSA	2,829	9.2%
22	Oklahoma City, OK MSA	2,768	38.1%
23	Miami, FL PMSA	2,606	2.0%
24	Milwaukee-Waukesha, WI PMSA	2,476	3.7%
25	Seattle-Bellevue-Everett, WA PMSA	2,466	5.2%
26	Nassau-Suffolk, NY PMSA	2,460	-16.9%
27	Oakland, CA PMSA	2,441	10.8%
28	Raleigh-Durham-Chapel Hill, NC MSA	2,236	14.8%
29	Providence-Fall River-Warwick, RI-MA MSA	2,230	0.4%
30	Columbus, OH MSA	2,200	6.2%
31	Cleveland-Lorain-Elyria, OH PMSA	1,880	9.7%
32	Orlando, FL MSA	1,829	15.3%
33	Baltimore, MD PMSA	1,761	-6.4%
34	Hartford, CT MSA	1,754	-8.8%
35	Houston, TX PMSA	1,691	-2.1%
36	Greensboro--Winston-Salem--High Point, NC MSA	1,669	6.6%
37	Cincinnati, OH-KY-IN PMSA	1,613	-0.9%
38	Newark, NJ PMSA	1,607	-4.1%
39	Rochester, NY MSA	1,580	2.9%
40	Portland-Vancouver, OR-WA PMSA	1,508	0.9%
41	Fort Worth-Arlington, TX PMSA	1,505	0.8%
42	Nashville, TN MSA	1,499	2.8%
43	New Orleans, LA MSA	1,416	11.0%
44	Salt Lake City-Ogden, UT MSA	1,408	14.1%
45	Norfolk-Virginia Beach-Newport News, VA-NC MSA	1,389	-2.9%
46	West Palm Beach-Boca Raton, FL MSA	1,366	11.7%
47	San Antonio, TX MSA	1,340	-1.0%
48	Fort Lauderdale, FL PMSA	1,295	-8.4%
49	Charlotte-Gastonia-Rock Hill, NC-SC MSA	1,287	18.8%
50	Buffalo-Niagara Falls, NY MSA	1,277	-2.7%
51	Grand Rapids-Muskegon-Holland, MI MSA	1,201	4.3%
52	Riverside-San Bernardino, CA PMSA	1,199	5.6%
53	Bergen-Passaic, NJ PMSA	1,097	-14.8%
54	Memphis, TN-AR-MS MSA	1,038	5.6%
55	Las Vegas, NV-AZ MSA	979	19.8%
56	Sacramento, CA PMSA	876	-0.6%
57	Jacksonville, FL MSA	781	7.9%
58	Indianapolis, IN MSA	664	-2.2%
59	Monmouth-Ocean, NJ PMSA	372	8.1%
60	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	168,287	5.5%

**ENGINEERING AND ENGINEERING RELATED TECHNOLOGIES DEGREES CONFERRED
(BACHELOR'S AND HIGHER) 1997-98**

Rank	MSA Name	1997-98	Change from '95-96
1	Los Angeles-Long Beach, CA PMSA	3,490	-13.6%
2	Atlanta, GA MSA	2,538	7.8%
3	San Jose, CA PMSA	2,338	2.7%
4	Chicago, IL PMSA	2,049	8.1%
5	New York, NY PMSA	1,898	-11.6%
6	Detroit, MI PMSA	1,760	0.9%
7	Raleigh-Durham-Chapel Hill, NC MSA	1,642	-1.8%
8	Philadelphia, PA-NJ PMSA	1,568	-11.6%
9	Boston, MA-NH PMSA	1,481	-7.3%
10	Austin-San Marcos, TX MSA	1,478	3.2%
11	Phoenix-Mesa, AZ MSA	1,304	-6.0%
12	Pittsburgh, PA MSA	1,193	3.6%
13	Oakland, CA PMSA	1,107	-5.7%
14	Columbus, OH MSA	1,093	-8.0%
15	Seattle-Bellevue-Everett, WA PMSA	1,064	-9.4%
16	Washington, DC-MD-VA-WV PMSA	1,019	-12.4%
17	Baltimore, MD PMSA	1,005	-8.9%
18	Minneapolis-St. Paul, MN-WI MSA	949	-10.4%
19	Milwaukee-Waukesha, WI PMSA	812	1.2%
20	Denver, CO PMSA	794	-0.3%
21	San Diego, CA MSA	791	-9.2%
22	Cincinnati, OH-KY-IN PMSA	790	12.5%
23	Cleveland-Lorain-Elyria, OH PMSA	756	-5.7%
24	Newark, NJ PMSA	747	-11.2%
25	Rochester, NY MSA	740	-7.8%
26	Buffalo-Niagara Falls, NY MSA	614	-18.5%
27	Tampa-St. Petersburg-Clearwater, FL MSA	613	-11.0%
28	Hartford, CT MSA	592	-4.2%
29	Orlando, FL MSA	589	-7.2%
30	Dallas, TX PMSA	579	27.8%
31	Nashville, TN MSA	561	15.4%
32	Nassau-Suffolk, NY PMSA	548	-6.0%
33	Miami, FL PMSA	539	3.7%
33	Orange County, CA PMSA	539	-16.6%
35	St. Louis, MO-IL MSA	514	-26.1%
36	Houston, TX PMSA	452	-4.2%
37	Norfolk-Virginia Beach-Newport News, VA-NC MSA	443	-8.1%
38	Oklahoma City, OK MSA	431	-16.3%
39	Fort Worth-Arlington, TX PMSA	406	-19.8%
40	Greensboro--Winston-Salem--High Point, NC MSA	401	-2.9%
41	Portland-Vancouver, OR-WA PMSA	389	-2.0%
42	Salt Lake City-Ogden, UT MSA	357	-7.0%
43	New Orleans, LA MSA	336	-16.0%
44	Indianapolis, IN MSA	301	-4.1%
45	Charlotte-Gastonia-Rock Hill, NC-SC MSA	294	-11.4%
46	Sacramento, CA PMSA	285	-4.7%
47	Memphis, TN-AR-MS MSA	244	-5.8%
48	San Antonio, TX MSA	217	15.4%
49	Providence-Fall River-Warwick, RI-MA MSA	209	-24.8%
50	West Palm Beach-Boca Raton, FL MSA	207	-23.0%
51	Las Vegas, NV-AZ MSA	137	29.2%
52	Grand Rapids-Muskegon-Holland, MI MSA	105	9.4%
53	San Francisco, CA PMSA	102	-13.6%
54	Monmouth-Ocean, NJ PMSA	78	-4.9%
55	Kansas City, MO-KS MSA	63	-7.4%
56	Jacksonville, FL MSA	45	25.0%
57	Bergen-Passaic, NJ PMSA	43	-4.4%
58	Riverside-San Bernardino, CA PMSA	34	-26.1%
59	Fort Lauderdale, FL PMSA	0	-100.0%
59	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	45,673	-5.1%

**COMPUTER AND INFORMATION SCIENCES DEGREES CONFERRED
(BACHELOR'S AND HIGHER) 1997-98**

Rank	MSA Name	1997-98	Change from '95-96
1	New York, NY PMSA	2,200	-2.8%
2	Chicago, IL PMSA	1,364	8.3%
3	Washington, DC-MD-VA-WV PMSA	1,250	-1.3%
4	Atlanta, GA MSA	1,024	41.4%
5	Los Angeles-Long Beach, CA PMSA	1,012	-2.3%
6	Boston, MA-NH PMSA	865	25.4%
7	Baltimore, MD PMSA	794	4.1%
8	Dallas, TX PMSA	748	49.6%
9	Philadelphia, PA-NJ PMSA	742	22.6%
10	Denver, CO PMSA	617	12.2%
11	Pittsburgh, PA MSA	598	21.8%
12	Phoenix-Mesa, AZ MSA	553	24.3%
13	Newark, NJ PMSA	509	31.2%
14	San Diego, CA MSA	490	16.7%
15	Columbus, OH MSA	471	12.1%
16	Nassau-Suffolk, NY PMSA	448	-4.7%
17	Minneapolis-St. Paul, MN-WI MSA	432	20.7%
18	San Jose, CA PMSA	410	11.7%
19	Austin-San Marcos, TX MSA	371	5.1%
20	Detroit, MI PMSA	370	1.4%
21	San Francisco, CA PMSA	363	14.9%
22	Orange County, CA PMSA	320	-8.8%
23	Kansas City, MO-KS MSA	305	12.1%
24	St. Louis, MO-IL MSA	277	-0.7%
25	Oklahoma City, OK MSA	273	62.5%
26	Raleigh-Durham-Chapel Hill, NC MSA	270	22.2%
27	Oakland, CA PMSA	256	-5.5%
28	Seattle-Bellevue-Everett, WA PMSA	255	22.6%
29	Miami, FL PMSA	245	5.6%
30	Providence-Fall River-Warwick, RI-MA MSA	241	21.1%
31	Rochester, NY MSA	231	11.6%
32	Buffalo-Niagara Falls, NY MSA	204	10.3%
33	Cincinnati, OH-KY-IN PMSA	189	47.7%
33	Houston, TX PMSA	189	33.1%
35	Orlando, FL MSA	182	19.7%
36	Norfolk-Virginia Beach-Newport News, VA-NC MSA	176	6.7%
37	Charlotte-Gastonia-Rock Hill, NC-SC MSA	173	10.9%
38	Greensboro--Winston-Salem--High Point, NC MSA	170	25.0%
39	Cleveland-Lorain-Elyria, OH PMSA	169	49.6%
40	Nashville, TN MSA	152	49.0%
41	Jacksonville, FL MSA	146	33.9%
42	West Palm Beach-Boca Raton, FL MSA	144	2.9%
43	New Orleans, LA MSA	141	-8.4%
44	Bergen-Passaic, NJ PMSA	135	3.8%
45	Fort Worth-Arlington, TX PMSA	122	0.0%
46	Fort Lauderdale, FL PMSA	121	51.3%
46	San Antonio, TX MSA	121	15.2%
48	Grand Rapids-Muskegon-Holland, MI MSA	119	29.3%
49	Salt Lake City-Ogden, UT MSA	118	29.7%
50	Hartford, CT MSA	106	12.8%
51	Portland-Vancouver, OR-WA PMSA	104	46.5%
52	Sacramento, CA PMSA	94	17.5%
53	Milwaukee-Waukesha, WI PMSA	80	21.2%
54	Indianapolis, IN MSA	73	30.4%
55	Tampa-St. Petersburg-Clearwater, FL MSA	54	-11.5%
56	Riverside-San Bernardino, CA PMSA	47	56.7%
57	Las Vegas, NV-AZ MSA	34	-15.0%
58	Monmouth-Ocean, NJ PMSA	26	-35.0%
59	Memphis, TN-AR-MS MSA	16	23.1%
60	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	21,709	12.4%

MATHEMATICS DEGREES CONFERRED (BACHELOR'S AND HIGHER) 1997-98

Rank	MSA Name	1997-98	Change from '95-96
1	New York, NY PMSA	577	-3.0%
2	Los Angeles-Long Beach, CA PMSA	484	-16.0%
3	Chicago, IL PMSA	441	-6.0%
4	Atlanta, GA MSA	335	8.4%
5	Raleigh-Durham-Chapel Hill, NC MSA	321	2.2%
6	Boston, MA-NH PMSA	276	-8.3%
7	Philadelphia, PA-NJ PMSA	256	4.1%
8	Nassau-Suffolk, NY PMSA	213	-18.4%
9	San Diego, CA MSA	193	7.8%
10	Baltimore, MD PMSA	184	-16.4%
11	Oakland, CA PMSA	181	-8.1%
12	Pittsburgh, PA MSA	176	3.5%
13	Austin-San Marcos, TX MSA	172	-16.1%
14	Denver, CO PMSA	162	-17.3%
15	Minneapolis-St. Paul, MN-WI MSA	156	-9.8%
16	Seattle-Bellevue-Everett, WA PMSA	153	17.7%
17	Rochester, NY MSA	152	-11.6%
18	Washington, DC-MD-VA-WV PMSA	142	-2.7%
19	Columbus, OH MSA	133	-24.0%
20	Dallas, TX PMSA	130	-0.8%
21	Nashville, TN MSA	118	8.3%
22	Cincinnati, OH-KY-IN PMSA	117	9.3%
22	San Jose, CA PMSA	117	-29.5%
24	Providence-Fall River-Warwick, RI-MA MSA	109	-1.8%
25	Detroit, MI PMSA	106	-10.2%
26	Norfolk-Virginia Beach-Newport News, VA-NC MSA	100	-9.1%
27	Houston, TX PMSA	98	-11.7%
28	Hartford, CT MSA	96	-17.2%
29	St. Louis, MO-IL MSA	93	5.7%
30	Newark, NJ PMSA	92	1.1%
31	Greensboro--Winston-Salem--High Point, NC MSA	91	-12.5%
31	Milwaukee-Waukesha, WI PMSA	91	28.2%
33	Cleveland-Lorain-Elyria, OH PMSA	86	28.4%
34	Orange County, CA PMSA	81	-10.0%
35	San Antonio, TX MSA	78	34.5%
36	Charlotte-Gastonia-Rock Hill, NC-SC MSA	75	-8.5%
37	Portland-Vancouver, OR-WA PMSA	73	25.9%
38	Buffalo-Niagara Falls, NY MSA	71	-20.2%
39	New Orleans, LA MSA	69	-13.8%
40	Phoenix-Mesa, AZ MSA	68	13.3%
41	Grand Rapids-Muskegon-Holland, MI MSA	61	-22.8%
42	Oklahoma City, OK MSA	59	-19.2%
43	Riverside-San Bernardino, CA PMSA	53	-10.2%
44	Salt Lake City-Ogden, UT MSA	52	-13.3%
45	Tampa-St. Petersburg-Clearwater, FL MSA	45	-18.2%
46	Indianapolis, IN MSA	44	25.7%
47	West Palm Beach-Boca Raton, FL MSA	38	2.7%
48	Fort Worth-Arlington, TX PMSA	36	-34.5%
49	Memphis, TN-AR-MS MSA	34	-17.1%
50	San Francisco, CA PMSA	32	18.5%
51	Miami, FL PMSA	31	-8.8%
52	Bergen-Passaic, NJ PMSA	28	47.4%
53	Kansas City, MO-KS MSA	27	-34.1%
54	Orlando, FL MSA	25	4.2%
55	Monmouth-Ocean, NJ PMSA	24	-11.1%
56	Sacramento, CA PMSA	23	-23.3%
57	Jacksonville, FL MSA	19	26.7%
58	Las Vegas, NV-AZ MSA	12	200.0%
59	Fort Lauderdale, FL PMSA	0	--
59	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	7,309	-5.9%

PHYSICAL SCIENCES DEGREES CONFERRED (BACHELOR'S AND HIGHER) 1997-98

Rank	MSA Name	1997-98	Change from '95-96
1	Los Angeles-Long Beach, CA PMSA	795	-4.1%
2	Chicago, IL PMSA	650	-7.5%
3	Boston, MA-NH PMSA	633	-7.7%
4	New York, NY PMSA	616	-1.0%
5	Raleigh-Durham-Chapel Hill, NC MSA	581	6.4%
6	Philadelphia, PA-NJ PMSA	533	1.9%
7	Atlanta, GA MSA	507	4.5%
8	Baltimore, MD PMSA	468	23.5%
9	San Diego, CA MSA	390	6.8%
10	Oakland, CA PMSA	329	3.8%
10	Washington, DC-MD-VA-WV PMSA	329	1.9%
12	San Jose, CA PMSA	311	-1.0%
13	Minneapolis-St. Paul, MN-WI MSA	308	-5.2%
14	Pittsburgh, PA MSA	303	-1.3%
15	Seattle-Bellevue-Everett, WA PMSA	302	-1.0%
16	Austin-San Marcos, TX MSA	295	-10.6%
17	Rochester, NY MSA	256	1.6%
18	Orange County, CA PMSA	253	41.3%
19	Columbus, OH MSA	224	-1.8%
20	Norfolk-Virginia Beach-Newport News, VA-NC MSA	220	-14.1%
21	Dallas, TX PMSA	210	18.0%
22	Oklahoma City, OK MSA	204	7.9%
23	Nassau-Suffolk, NY PMSA	201	-2.9%
24	St. Louis, MO-IL MSA	194	2.1%
25	Buffalo-Niagara Falls, NY MSA	185	0.0%
26	Hartford, CT MSA	175	-5.9%
27	Cincinnati, OH-KY-IN PMSA	168	-5.1%
27	Salt Lake City-Ogden, UT MSA	168	27.3%
29	Nashville, TN MSA	160	-1.8%
30	Cleveland-Lorain-Elyria, OH PMSA	159	-20.9%
31	Miami, FL PMSA	145	11.5%
31	New Orleans, LA MSA	145	-19.0%
33	Phoenix-Mesa, AZ MSA	138	2.2%
34	Denver, CO PMSA	135	3.8%
35	Houston, TX PMSA	129	-13.4%
36	Providence-Fall River-Warwick, RI-MA MSA	118	-22.9%
37	Detroit, MI PMSA	117	-2.5%
37	Greensboro--Winston-Salem--High Point, NC MSA	117	8.3%
39	Charlotte-Gastonia-Rock Hill, NC-SC MSA	114	0.9%
40	Portland-Vancouver, OR-WA PMSA	112	-6.7%
41	Newark, NJ PMSA	110	-17.9%
42	Tampa-St. Petersburg-Clearwater, FL MSA	109	-19.9%
43	West Palm Beach-Boca Raton, FL MSA	102	36.0%
44	Fort Worth-Arlington, TX PMSA	92	-3.2%
45	Grand Rapids-Muskegon-Holland, MI MSA	81	-12.9%
45	Kansas City, MO-KS MSA	81	22.7%
47	Milwaukee-Waukesha, WI PMSA	79	-21.0%
48	Riverside-San Bernardino, CA PMSA	74	-15.9%
49	Indianapolis, IN MSA	70	-15.7%
50	San Francisco, CA PMSA	59	18.0%
51	San Antonio, TX MSA	58	13.7%
52	Orlando, FL MSA	52	48.6%
53	Las Vegas, NV-AZ MSA	44	10.0%
54	Memphis, TN-AR-MS MSA	40	-42.0%
55	Sacramento, CA PMSA	39	-18.8%
56	Bergen-Passaic, NJ PMSA	26	-29.7%
57	Jacksonville, FL MSA	24	26.3%
58	Monmouth-Ocean, NJ PMSA	6	0.0%
59	Fort Lauderdale, FL PMSA	2	-60.0%
60	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	12,545	-0.8%

**BIOLOGICAL SCIENCES AND LIFE SCIENCES DEGREES CONFERRED
(BACHELOR'S AND HIGHER) 1997-98**

Rank	MSA Name	1997-98	Change from '95-96
1	Los Angeles-Long Beach, CA PMSA	2,415	9.5%
2	Chicago, IL PMSA	1,809	3.3%
3	New York, NY PMSA	1,599	-3.6%
4	Boston, MA-NH PMSA	1,315	0.3%
5	Raleigh-Durham-Chapel Hill, NC MSA	1,253	-2.0%
6	San Diego, CA MSA	1,248	17.7%
7	Atlanta, GA MSA	1,208	14.0%
8	Philadelphia, PA-NJ PMSA	1,204	9.8%
9	Oakland, CA PMSA	981	-2.7%
10	Orange County, CA PMSA	946	-5.9%
11	Austin-San Marcos, TX MSA	862	12.2%
12	Washington, DC-MD-VA-WV PMSA	850	0.5%
13	Seattle-Bellevue-Everett, WA PMSA	774	32.8%
14	Minneapolis-St. Paul, MN-WI MSA	737	9.2%
15	Nassau-Suffolk, NY PMSA	719	3.6%
16	Baltimore, MD PMSA	713	4.1%
17	Rochester, NY MSA	620	7.1%
18	Riverside-San Bernardino, CA PMSA	590	2.8%
19	New Orleans, LA MSA	572	11.1%
20	Columbus, OH MSA	534	8.8%
21	Dallas, TX PMSA	531	-5.0%
22	Pittsburgh, PA MSA	528	0.6%
23	St. Louis, MO-IL MSA	513	40.2%
24	San Jose, CA PMSA	501	15.2%
25	Norfolk-Virginia Beach-Newport News, VA-NC MSA	481	3.7%
26	Miami, FL PMSA	470	-6.6%
27	Houston, TX PMSA	467	5.2%
28	Newark, NJ PMSA	457	34.4%
29	Providence-Fall River-Warwick, RI-MA MSA	452	-6.4%
30	San Antonio, TX MSA	412	17.0%
31	Nashville, TN MSA	411	13.2%
32	Phoenix-Mesa, AZ MSA	382	32.6%
33	Hartford, CT MSA	378	2.7%
34	Greensboro--Winston-Salem--High Point, NC MSA	367	7.9%
35	Cleveland-Lorain-Elyria, OH PMSA	357	17.8%
36	Detroit, MI PMSA	356	-11.0%
37	Tampa-St. Petersburg-Clearwater, FL MSA	353	10.3%
38	Portland-Vancouver, OR-WA PMSA	351	10.7%
39	San Francisco, CA PMSA	327	13.5%
40	Oklahoma City, OK MSA	320	3.9%
41	Denver, CO PMSA	310	15.2%
42	Buffalo-Niagara Falls, NY MSA	296	-7.2%
43	Kansas City, MO-KS MSA	290	4.7%
44	Charlotte-Gastonia-Rock Hill, NC-SC MSA	278	12.1%
45	Fort Worth-Arlington, TX PMSA	260	13.0%
46	Cincinnati, OH-KY-IN PMSA	253	1.2%
47	Milwaukee-Waukesha, WI PMSA	239	3.9%
48	Orlando, FL MSA	200	6.4%
49	Grand Rapids-Muskegon-Holland, MI MSA	186	8.1%
50	Salt Lake City-Ogden, UT MSA	171	0.6%
51	Indianapolis, IN MSA	166	7.1%
52	West Palm Beach-Boca Raton, FL MSA	144	11.6%
53	Sacramento, CA PMSA	143	12.6%
54	Bergen-Passaic, NJ PMSA	127	3.3%
55	Memphis, TN-AR-MS MSA	122	-6.2%
56	Jacksonville, FL MSA	97	61.7%
57	Las Vegas, NV-AZ MSA	84	47.4%
58	Monmouth-Ocean, NJ PMSA	47	23.7%
59	Fort Lauderdale, FL PMSA	39	69.6%
60	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	32,815	6.5%

**HEALTH PROFESSIONS AND RELATED SCIENCES DEGREES CONFERRED
(BACHELOR'S AND HIGHER) 1997-98**

<u>Rank</u>	<u>MSA Name</u>	<u>1997-98</u>	<u>Change from '95-96</u>
1	New York, NY PMSA	6,942	5.9%
2	Chicago, IL PMSA	5,809	0.6%
3	Philadelphia, PA-NJ PMSA	5,298	8.9%
4	Boston, MA-NH PMSA	5,129	5.3%
5	Los Angeles-Long Beach, CA PMSA	3,973	4.2%
6	Atlanta, GA MSA	3,110	7.2%
7	Washington, DC-MD-VA-WV PMSA	2,289	4.4%
8	Pittsburgh, PA MSA	2,180	0.2%
9	Dallas, TX PMSA	1,904	-5.7%
10	Minneapolis-St. Paul, MN-WI MSA	1,882	13.1%
11	Kansas City, MO-KS MSA	1,828	-6.5%
12	Detroit, MI PMSA	1,759	-7.3%
13	New Orleans, LA MSA	1,732	20.8%
14	Raleigh-Durham-Chapel Hill, NC MSA	1,730	2.6%
15	Columbus, OH MSA	1,699	5.5%
16	Nassau-Suffolk, NY PMSA	1,590	-4.8%
17	Milwaukee-Waukesha, WI PMSA	1,539	16.0%
18	Miami, FL PMSA	1,537	9.0%
19	Baltimore, MD PMSA	1,527	3.6%
20	Seattle-Bellevue-Everett, WA PMSA	1,394	10.5%
21	San Francisco, CA PMSA	1,393	10.7%
22	St. Louis, MO-IL MSA	1,368	-3.5%
23	Houston, TX PMSA	1,348	1.2%
24	Buffalo-Niagara Falls, NY MSA	1,311	-4.7%
25	Indianapolis, IN MSA	1,250	-2.7%
25	Newark, NJ PMSA	1,250	31.6%
27	Oklahoma City, OK MSA	1,173	39.1%
28	Denver, CO PMSA	1,140	12.4%
29	Oakland, CA PMSA	1,108	17.2%
30	Orange County, CA PMSA	1,070	4.6%
31	Nashville, TN MSA	1,008	21.4%
32	Cleveland-Lorain-Elyria, OH PMSA	988	-5.3%
33	Cincinnati, OH-KY-IN PMSA	954	9.0%
34	San Antonio, TX MSA	940	-9.6%
35	Norfolk-Virginia Beach-Newport News, VA-NC MSA	937	12.4%
36	Riverside-San Bernardino, CA PMSA	866	-0.3%
37	San Jose, CA PMSA	857	23.7%
38	Orlando, FL MSA	854	40.2%
39	San Diego, CA MSA	847	28.5%
40	Hartford, CT MSA	837	11.3%
41	Memphis, TN-AR-MS MSA	836	-2.8%
42	Austin-San Marcos, TX MSA	820	8.3%
43	Rochester, NY MSA	803	20.6%
44	Tampa-St. Petersburg-Clearwater, FL MSA	702	9.9%
45	Fort Lauderdale, FL PMSA	684	44.9%
46	Salt Lake City-Ogden, UT MSA	672	-1.2%
47	Greensboro--Winston-Salem--High Point, NC MSA	664	-1.3%
48	Fort Worth-Arlington, TX PMSA	647	7.5%
49	Portland-Vancouver, OR-WA PMSA	636	1.6%
50	Phoenix-Mesa, AZ MSA	543	5.4%
51	Grand Rapids-Muskegon-Holland, MI MSA	531	1.7%
52	Providence-Fall River-Warwick, RI-MA MSA	429	-16.7%
53	Jacksonville, FL MSA	367	36.4%
54	West Palm Beach-Boca Raton, FL MSA	303	49.3%
55	Bergen-Passaic, NJ PMSA	225	-0.4%
56	Charlotte-Gastonia-Rock Hill, NC-SC MSA	205	-12.4%
57	Sacramento, CA PMSA	195	-0.5%
58	Las Vegas, NV-AZ MSA	137	16.1%
59	Monmouth-Ocean, NJ PMSA	51	88.9%
60	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	85,800	5.9%

**COMMUNICATIONS AND COMMUNICATIONS TECHNOLOGIES DEGREES CONFERRED
(BACHELOR'S AND HIGHER) 1997-98**

Rank	MSA Name	1997-98	Change from '95-96
1	New York, NY PMSA	2,306	12.9%
2	Boston, MA-NH PMSA	1,714	7.9%
3	Los Angeles-Long Beach, CA PMSA	1,664	-3.4%
4	Chicago, IL PMSA	1,165	0.4%
5	Austin-San Marcos, TX MSA	1,097	33.5%
6	Philadelphia, PA-NJ PMSA	949	-0.6%
7	Raleigh-Durham-Chapel Hill, NC MSA	827	18.8%
8	Atlanta, GA MSA	818	12.5%
9	Phoenix-Mesa, AZ MSA	718	15.4%
10	Washington, DC-MD-VA-WV PMSA	689	15.6%
11	Columbus, OH MSA	576	-23.5%
12	Minneapolis-St. Paul, MN-WI MSA	530	17.3%
13	Orange County, CA PMSA	520	-2.3%
14	Milwaukee-Waukesha, WI PMSA	516	-6.0%
15	San Diego, CA MSA	502	2.2%
16	Baltimore, MD PMSA	483	-5.8%
17	St. Louis, MO-IL MSA	456	8.6%
18	Dallas, TX PMSA	440	-3.3%
19	Rochester, NY MSA	428	13.5%
20	Oklahoma City, OK MSA	415	14.6%
21	Denver, CO PMSA	403	8.3%
21	Pittsburgh, PA MSA	403	6.9%
23	Miami, FL PMSA	400	16.3%
24	Nassau-Suffolk, NY PMSA	398	-6.8%
25	Fort Worth-Arlington, TX PMSA	396	-4.1%
26	Detroit, MI PMSA	394	15.5%
27	Orlando, FL MSA	382	40.4%
28	San Francisco, CA PMSA	379	1.6%
29	San Jose, CA PMSA	371	5.7%
30	Hartford, CT MSA	356	-8.5%
31	Buffalo-Niagara Falls, NY MSA	331	10.7%
32	Bergen-Passaic, NJ PMSA	327	4.8%
33	Seattle-Bellevue-Everett, WA PMSA	311	6.9%
34	Cincinnati, OH-KY-IN PMSA	310	0.6%
35	Greensboro--Winston-Salem--High Point, NC MSA	295	7.3%
36	Nashville, TN MSA	274	53.9%
36	Sacramento, CA PMSA	274	-2.1%
38	Oakland, CA PMSA	270	5.5%
39	New Orleans, LA MSA	253	-1.9%
40	Cleveland-Lorain-Elyria, OH PMSA	221	-0.9%
40	Norfolk-Virginia Beach-Newport News, VA-NC MSA	221	22.8%
42	Charlotte-Gastonia-Rock Hill, NC-SC MSA	213	88.5%
43	Tampa-St. Petersburg-Clearwater, FL MSA	205	-22.3%
44	Newark, NJ PMSA	198	-2.0%
45	Jacksonville, FL MSA	191	26.5%
46	Salt Lake City-Ogden, UT MSA	188	28.8%
47	Las Vegas, NV-AZ MSA	178	18.7%
48	Indianapolis, IN MSA	177	0.6%
49	Providence-Fall River-Warwick, RI-MA MSA	154	-8.3%
50	Grand Rapids-Muskegon-Holland, MI MSA	151	-8.5%
51	Portland-Vancouver, OR-WA PMSA	127	19.8%
52	Kansas City, MO-KS MSA	122	-43.8%
53	San Antonio, TX MSA	117	0.9%
54	Houston, TX PMSA	109	21.1%
54	Monmouth-Ocean, NJ PMSA	109	39.7%
56	Memphis, TN-AR-MS MSA	90	7.1%
57	West Palm Beach-Boca Raton, FL MSA	42	-67.9%
58	Riverside-San Bernardino, CA PMSA	4	100.0%
59	Fort Lauderdale, FL PMSA	0	--
59	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	26,157	5.8%

EDUCATION DEGREES CONFERRED (BACHELOR'S AND HIGHER) 1997-98

Rank	MSA Name	1997-98	Change from '95-96
1	New York, NY PMSA	7,898	-3.2%
2	Chicago, IL PMSA	7,085	1.8%
3	Boston, MA-NH PMSA	6,110	13.6%
4	Atlanta, GA MSA	4,357	14.2%
5	Philadelphia, PA-NJ PMSA	4,179	4.4%
6	Los Angeles-Long Beach, CA PMSA	4,071	4.0%
7	Nassau-Suffolk, NY PMSA	3,001	-2.5%
8	Detroit, MI PMSA	2,637	65.8%
9	St. Louis, MO-IL MSA	2,280	15.2%
10	Minneapolis-St. Paul, MN-WI MSA	2,258	-11.3%
11	Buffalo-Niagara Falls, NY MSA	2,094	-4.2%
12	San Diego, CA MSA	2,040	-23.1%
13	Washington, DC-MD-VA-WV PMSA	1,999	4.6%
14	Oklahoma City, OK MSA	1,870	3.6%
15	Baltimore, MD PMSA	1,852	18.3%
16	Phoenix-Mesa, AZ MSA	1,819	15.3%
17	Pittsburgh, PA MSA	1,803	5.3%
18	Tampa-St. Petersburg-Clearwater, FL MSA	1,748	7.0%
19	Portland-Vancouver, OR-WA PMSA	1,656	9.2%
20	Fort Lauderdale, FL PMSA	1,587	17.4%
21	Seattle-Bellevue-Everett, WA PMSA	1,585	-24.6%
22	Miami, FL PMSA	1,469	11.6%
23	Newark, NJ PMSA	1,438	3.6%
24	Columbus, OH MSA	1,397	-6.9%
25	Rochester, NY MSA	1,313	14.0%
26	Norfolk-Virginia Beach-Newport News, VA-NC MSA	1,283	0.5%
27	Cincinnati, OH-KY-IN PMSA	1,247	22.7%
28	Dallas, TX PMSA	1,200	4.2%
29	Hartford, CT MSA	1,144	0.4%
30	San Francisco, CA PMSA	1,108	1.4%
31	Nashville, TN MSA	1,103	-0.4%
32	Orlando, FL MSA	1,071	7.5%
33	Orange County, CA PMSA	1,017	-15.0%
34	Milwaukee-Waukesha, WI PMSA	968	-4.9%
35	Raleigh-Durham-Chapel Hill, NC MSA	925	10.8%
36	Providence-Fall River-Warwick, RI-MA MSA	900	-7.5%
37	Las Vegas, NV-AZ MSA	858	51.3%
38	Greensboro--Winston-Salem--High Point, NC MSA	847	-12.3%
39	West Palm Beach-Boca Raton, FL MSA	827	9.2%
40	Charlotte-Gastonia-Rock Hill, NC-SC MSA	783	-0.4%
41	Cleveland-Lorain-Elyria, OH PMSA	776	-0.5%
42	San Jose, CA PMSA	743	1.5%
43	New Orleans, LA MSA	741	4.5%
44	Austin-San Marcos, TX MSA	731	5.3%
45	Houston, TX PMSA	697	-11.7%
46	Denver, CO PMSA	673	21.3%
47	Jacksonville, FL MSA	641	14.1%
47	Kansas City, MO-KS MSA	641	-2.3%
49	Indianapolis, IN MSA	633	0.3%
49	Oakland, CA PMSA	633	-0.2%
51	Grand Rapids-Muskegon-Holland, MI MSA	559	16.9%
52	Sacramento, CA PMSA	520	6.1%
53	Bergen-Passaic, NJ PMSA	465	-19.3%
54	Salt Lake City-Ogden, UT MSA	457	11.5%
55	Memphis, TN-AR-MS MSA	438	17.7%
56	Fort Worth-Arlington, TX PMSA	401	23.0%
57	Monmouth-Ocean, NJ PMSA	380	-14.4%
58	San Antonio, TX MSA	328	-19.2%
59	Riverside-San Bernardino, CA PMSA	270	-9.7%
60	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	95,554	3.6%

**VISUAL AND PERFORMING ARTS DEGREES CONFERRED
(BACHELOR'S AND HIGHER) 1997-98**

Rank	MSA Name	1997-98	Change from '95-96
1	New York, NY PMSA	5,264	16.0%
2	Los Angeles-Long Beach, CA PMSA	3,150	2.8%
3	Chicago, IL PMSA	1,912	1.4%
4	Boston, MA-NH PMSA	1,679	-5.3%
5	Philadelphia, PA-NJ PMSA	1,285	7.3%
6	San Francisco, CA PMSA	1,184	67.2%
7	Atlanta, GA MSA	912	19.5%
8	Dallas, TX PMSA	814	-2.2%
9	Baltimore, MD PMSA	776	5.3%
10	Washington, DC-MD-VA-WV PMSA	748	11.5%
11	Columbus, OH MSA	742	15.4%
12	Rochester, NY MSA	731	-7.0%
13	Austin-San Marcos, TX MSA	709	6.9%
14	Nashville, TN MSA	628	70.2%
15	Minneapolis-St. Paul, MN-WI MSA	611	-4.7%
16	Providence-Fall River-Warwick, RI-MA MSA	607	1.5%
17	Seattle-Bellevue-Everett, WA PMSA	582	0.9%
18	Pittsburgh, PA MSA	570	0.0%
19	Orange County, CA PMSA	568	-0.2%
20	San Diego, CA MSA	557	8.2%
21	Oakland, CA PMSA	509	2.4%
22	Cincinnati, OH-KY-IN PMSA	502	6.8%
23	Phoenix-Mesa, AZ MSA	485	4.5%
24	Cleveland-Lorain-Elyria, OH PMSA	477	11.2%
25	St. Louis, MO-IL MSA	470	14.6%
26	San Jose, CA PMSA	465	7.9%
27	Detroit, MI PMSA	431	-2.3%
28	Hartford, CT MSA	410	11.1%
29	Greensboro--Winston-Salem--High Point, NC MSA	409	17.9%
30	Oklahoma City, OK MSA	394	35.4%
31	Miami, FL PMSA	356	-3.3%
32	Nassau-Suffolk, NY PMSA	350	-29.6%
33	Milwaukee-Waukesha, WI PMSA	344	5.5%
34	Portland-Vancouver, OR-WA PMSA	316	10.9%
35	Kansas City, MO-KS MSA	295	8.5%
35	Newark, NJ PMSA	295	-5.1%
37	Denver, CO PMSA	258	-2.6%
38	Raleigh-Durham-Chapel Hill, NC MSA	247	32.8%
38	Salt Lake City-Ogden, UT MSA	247	14.4%
40	Memphis, TN-AR-MS MSA	242	-2.8%
41	Grand Rapids-Muskegon-Holland, MI MSA	235	5.4%
42	Buffalo-Niagara Falls, NY MSA	228	-8.8%
43	Norfolk-Virginia Beach-Newport News, VA-NC MSA	218	5.8%
44	Charlotte-Gastonia-Rock Hill, NC-SC MSA	208	13.7%
45	Tampa-St. Petersburg-Clearwater, FL MSA	204	-7.3%
46	New Orleans, LA MSA	199	9.9%
47	Fort Worth-Arlington, TX PMSA	196	14.0%
48	Indianapolis, IN MSA	169	8.3%
49	Houston, TX PMSA	166	30.7%
50	Bergen-Passaic, NJ PMSA	164	18.8%
51	Orlando, FL MSA	163	-6.3%
52	Jacksonville, FL MSA	139	36.3%
53	West Palm Beach-Boca Raton, FL MSA	137	-5.5%
54	Sacramento, CA PMSA	130	26.2%
55	Riverside-San Bernardino, CA PMSA	105	36.4%
56	Las Vegas, NV-AZ MSA	98	8.9%
57	San Antonio, TX MSA	93	-11.4%
58	Monmouth-Ocean, NJ PMSA	36	16.1%
59	Fort Lauderdale, FL PMSA	26	100.0%
60	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	34,445	7.9%

**THEOLOGICAL STUDIES AND RELIGIOUS VOCATIONS DEGREES CONFERRED
(BACHELOR'S AND HIGHER) 1997-98**

<u>Rank</u>	<u>MSA Name</u>	<u>1997-98</u>	<u>Change from '95-96</u>
1	Chicago, IL PMSA	1,388	-7.7%
2	New York, NY PMSA	1,007	25.1%
3	Los Angeles-Long Beach, CA PMSA	833	-3.6%
4	Fort Worth-Arlington, TX PMSA	630	-17.1%
5	Philadelphia, PA-NJ PMSA	538	-15.9%
6	Dallas, TX PMSA	536	-8.2%
7	Atlanta, GA MSA	512	24.0%
8	Minneapolis-St. Paul, MN-WI MSA	447	-7.8%
9	Boston, MA-NH PMSA	426	-2.3%
10	Raleigh-Durham-Chapel Hill, NC MSA	373	21.1%
11	New Orleans, LA MSA	344	0.0%
12	Washington, DC-MD-VA-WV PMSA	339	-7.4%
13	Oakland, CA PMSA	328	-10.9%
14	Monmouth-Ocean, NJ PMSA	316	-40.8%
15	Portland-Vancouver, OR-WA PMSA	282	3.7%
16	Kansas City, MO-KS MSA	238	-8.5%
17	Cincinnati, OH-KY-IN PMSA	213	2.4%
17	St. Louis, MO-IL MSA	213	2.4%
19	Pittsburgh, PA MSA	169	-8.6%
19	Seattle-Bellevue-Everett, WA PMSA	169	7.0%
21	Memphis, TN-AR-MS MSA	161	22.0%
22	Grand Rapids-Muskegon-Holland, MI MSA	158	17.9%
23	San Francisco, CA PMSA	144	5.1%
24	Denver, CO PMSA	134	-6.9%
25	Columbus, OH MSA	133	-15.3%
26	Oklahoma City, OK MSA	129	51.8%
26	Orange County, CA PMSA	129	24.0%
28	Newark, NJ PMSA	111	-14.6%
29	Nashville, TN MSA	106	-27.9%
30	Austin-San Marcos, TX MSA	98	-10.1%
31	Orlando, FL MSA	85	23.2%
32	Rochester, NY MSA	79	41.1%
33	Indianapolis, IN MSA	69	1.5%
34	Houston, TX PMSA	60	-17.8%
34	Nassau-Suffolk, NY PMSA	60	30.4%
36	Providence-Fall River-Warwick, RI-MA MSA	55	3.8%
37	Milwaukee-Waukesha, WI PMSA	48	41.2%
38	San Jose, CA PMSA	47	46.9%
39	Phoenix-Mesa, AZ MSA	43	95.5%
40	Norfolk-Virginia Beach-Newport News, VA-NC MSA	42	82.6%
41	San Diego, CA MSA	41	-4.7%
42	Detroit, MI PMSA	39	-15.2%
43	Miami, FL PMSA	38	192.3%
44	Cleveland-Lorain-Elyria, OH PMSA	35	20.7%
45	Tampa-St. Petersburg-Clearwater, FL MSA	34	-10.5%
46	Charlotte-Gastonia-Rock Hill, NC-SC MSA	33	106.3%
47	Greensboro--Winston-Salem--High Point, NC MSA	29	-21.6%
48	San Antonio, TX MSA	28	-20.0%
49	Hartford, CT MSA	14	7.7%
49	Riverside-San Bernardino, CA PMSA	14	-12.5%
49	West Palm Beach-Boca Raton, FL MSA	14	-39.1%
52	Buffalo-Niagara Falls, NY MSA	11	-42.1%
53	Baltimore, MD PMSA	0	--
53	Bergen-Passaic, NJ PMSA	0	--
53	Fort Lauderdale, FL PMSA	0	--
53	Jacksonville, FL MSA	0	--
53	Las Vegas, NV-AZ MSA	0	--
53	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
53	Sacramento, CA PMSA	0	--
53	Salt Lake City-Ogden, UT MSA	0	--
	Total	11,522	-2.2%

**ENGLISH LANGUAGE AND LITERATURE/LETTERS DEGREES CONFERRED
(BACHELOR'S AND HIGHER) 1997-98**

Rank	MSA Name	1997-98	Change from '95-96
1	New York, NY PMSA	2,161	6.1%
2	Los Angeles-Long Beach, CA PMSA	1,843	-8.1%
3	Chicago, IL PMSA	1,569	-4.3%
4	Boston, MA-NH PMSA	1,173	0.0%
5	Washington, DC-MD-VA-WV PMSA	1,067	3.4%
6	Philadelphia, PA-NJ PMSA	963	9.1%
7	Atlanta, GA MSA	930	6.8%
8	Austin-San Marcos, TX MSA	746	3.3%
9	Pittsburgh, PA MSA	720	-6.0%
10	Raleigh-Durham-Chapel Hill, NC MSA	672	-2.3%
11	Oakland, CA PMSA	659	-9.4%
12	Seattle-Bellevue-Everett, WA PMSA	636	-11.3%
13	San Diego, CA MSA	616	2.0%
14	Minneapolis-St. Paul, MN-WI MSA	555	-3.3%
15	San Francisco, CA PMSA	544	-3.7%
16	Baltimore, MD PMSA	450	-3.0%
17	Dallas, TX PMSA	446	-0.7%
18	Norfolk-Virginia Beach-Newport News, VA-NC MSA	435	-8.2%
19	Orange County, CA PMSA	427	-17.4%
20	Columbus, OH MSA	390	-1.0%
21	Newark, NJ PMSA	369	1.4%
22	San Jose, CA PMSA	364	-6.9%
23	Greensboro--Winston-Salem--High Point, NC MSA	363	-6.9%
24	Tampa-St. Petersburg-Clearwater, FL MSA	353	-9.5%
25	Portland-Vancouver, OR-WA PMSA	352	4.8%
25	Salt Lake City-Ogden, UT MSA	352	13.5%
27	Nassau-Suffolk, NY PMSA	350	-6.2%
28	St. Louis, MO-IL MSA	335	12.8%
29	Denver, CO PMSA	333	25.2%
30	Providence-Fall River-Warwick, RI-MA MSA	314	-2.2%
31	Hartford, CT MSA	301	-13.8%
32	Charlotte-Gastonia-Rock Hill, NC-SC MSA	297	-1.3%
33	Cleveland-Lorain-Elyria, OH PMSA	295	-5.1%
34	Rochester, NY MSA	294	-12.8%
35	Orlando, FL MSA	291	39.9%
36	Fort Worth-Arlington, TX PMSA	278	39.7%
37	Grand Rapids-Muskegon-Holland, MI MSA	270	3.1%
38	Detroit, MI PMSA	256	-2.7%
39	Nashville, TN MSA	247	-8.5%
40	Buffalo-Niagara Falls, NY MSA	240	-0.4%
41	Cincinnati, OH-KY-IN PMSA	237	-2.5%
42	Milwaukee-Waukesha, WI PMSA	232	-0.4%
42	West Palm Beach-Boca Raton, FL MSA	232	193.7%
44	Phoenix-Mesa, AZ MSA	228	23.9%
45	New Orleans, LA MSA	209	6.1%
46	Bergen-Passaic, NJ PMSA	202	3.6%
46	Oklahoma City, OK MSA	202	16.8%
48	Miami, FL PMSA	189	-6.9%
49	Houston, TX PMSA	180	-2.2%
50	Sacramento, CA PMSA	175	17.4%
51	San Antonio, TX MSA	157	-21.5%
52	Memphis, TN-AR-MS MSA	145	-7.1%
53	Riverside-San Bernardino, CA PMSA	138	-6.1%
54	Kansas City, MO-KS MSA	124	-12.7%
55	Jacksonville, FL MSA	100	58.7%
56	Indianapolis, IN MSA	85	-3.4%
57	Las Vegas, NV-AZ MSA	51	-15.0%
58	Monmouth-Ocean, NJ PMSA	49	36.1%
59	Fort Lauderdale, FL PMSA	0	--
59	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	26,191	-0.1%

**FOREIGN LANGUAGES AND LITERATURES DEGREES CONFERRED
(BACHELOR'S AND HIGHER) 1997-98**

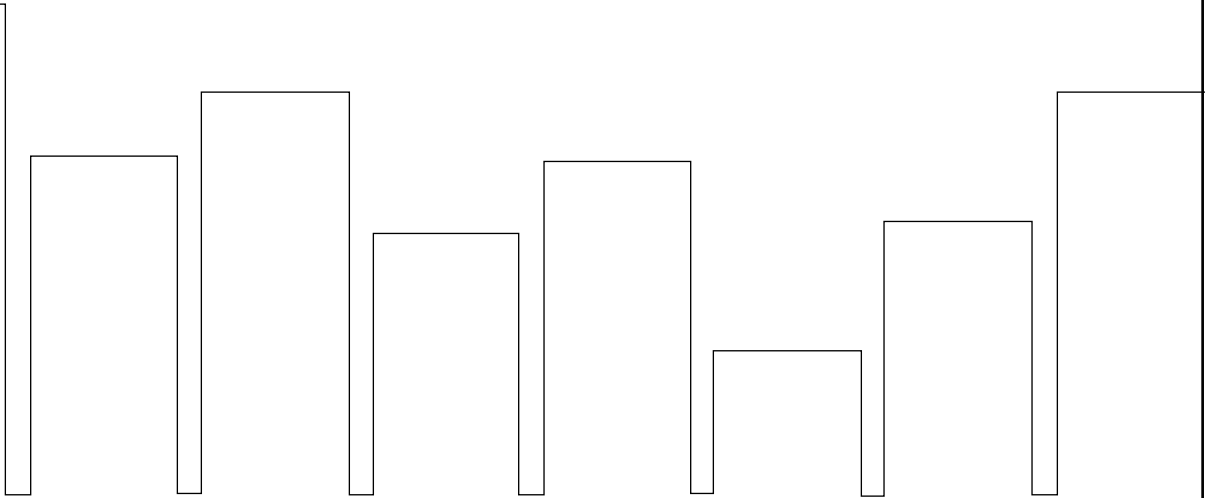
Rank	MSA Name	1997-98	Change from '95-96
1	New York, NY PMSA	673	-5.9%
2	Los Angeles-Long Beach, CA PMSA	577	-8.8%
3	Chicago, IL PMSA	471	-2.5%
4	Washington, DC-MD-VA-WV PMSA	399	-2.7%
5	Austin-San Marcos, TX MSA	366	7.3%
6	Boston, MA-NH PMSA	284	4.4%
6	Philadelphia, PA-NJ PMSA	284	2.9%
8	Seattle-Bellevue-Everett, WA PMSA	280	7.7%
9	Atlanta, GA MSA	257	15.8%
10	Minneapolis-St. Paul, MN-WI MSA	247	-17.1%
11	Columbus, OH MSA	232	-4.1%
12	San Diego, CA MSA	216	20.0%
13	Orange County, CA PMSA	205	19.9%
14	Oakland, CA PMSA	181	-10.0%
15	Raleigh-Durham-Chapel Hill, NC MSA	177	-15.7%
16	Portland-Vancouver, OR-WA PMSA	170	34.9%
17	Phoenix-Mesa, AZ MSA	168	31.3%
18	Salt Lake City-Ogden, UT MSA	165	15.4%
19	Pittsburgh, PA MSA	153	5.5%
20	St. Louis, MO-IL MSA	151	19.8%
21	San Jose, CA PMSA	141	1.4%
22	Nassau-Suffolk, NY PMSA	118	-0.8%
22	San Francisco, CA PMSA	118	1.7%
24	Fort Worth-Arlington, TX PMSA	114	-3.4%
25	Oklahoma City, OK MSA	106	41.3%
26	Buffalo-Niagara Falls, NY MSA	100	19.0%
26	Dallas, TX PMSA	100	17.6%
28	Milwaukee-Waukesha, WI PMSA	95	-1.0%
29	Cincinnati, OH-KY-IN PMSA	92	10.8%
30	Baltimore, MD PMSA	87	31.8%
30	Newark, NJ PMSA	87	17.6%
32	Nashville, TN MSA	86	8.9%
33	Providence-Fall River-Warwick, RI-MA MSA	83	-23.1%
34	Hartford, CT MSA	79	-15.1%
35	Grand Rapids-Muskegon-Holland, MI MSA	75	33.9%
35	New Orleans, LA MSA	75	-8.5%
37	Rochester, NY MSA	74	-22.9%
38	Charlotte-Gastonia-Rock Hill, NC-SC MSA	73	-7.6%
38	Detroit, MI PMSA	73	-9.9%
40	Greensboro--Winston-Salem--High Point, NC MSA	70	-20.5%
41	Norfolk-Virginia Beach-Newport News, VA-NC MSA	65	14.0%
42	Denver, CO PMSA	63	31.3%
43	Cleveland-Lorain-Elyria, OH PMSA	62	51.2%
44	San Antonio, TX MSA	53	29.3%
45	Miami, FL PMSA	52	-28.8%
46	Sacramento, CA PMSA	51	24.4%
46	Tampa-St. Petersburg-Clearwater, FL MSA	51	-12.1%
48	Riverside-San Bernardino, CA PMSA	47	23.7%
49	Houston, TX PMSA	45	50.0%
50	Orlando, FL MSA	32	-13.5%
51	West Palm Beach-Boca Raton, FL MSA	27	17.4%
52	Indianapolis, IN MSA	25	-13.8%
53	Jacksonville, FL MSA	22	57.1%
54	Kansas City, MO-KS MSA	21	-25.0%
55	Las Vegas, NV-AZ MSA	20	17.6%
56	Memphis, TN-AR-MS MSA	17	-5.6%
57	Bergen-Passaic, NJ PMSA	13	0.0%
58	Monmouth-Ocean, NJ PMSA	7	-22.2%
59	Fort Lauderdale, FL PMSA	0	--
59	Middlesex-Somerset-Hunterdon, NJ PMSA	0	--
	Total	8,175	2.0%



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 FY 1996-97 HIGHER EDUCATION EXPENDITURES* PER 100,000 POPULATION

Rank

1	Boston, MA-NH PMSA	\$129,589,561
2	Philadelphia, PA-NJ PMSA	\$117,438,202
3	New York, NY PMSA	\$105,079,839
4	Atlanta, GA MSA	\$97,017,851
5	Chicago, IL PMSA	\$83,611,507
6	Los Angeles-Long Beach, CA PMSA	\$79,212,967
7	Washington, DC-MD-VA-WV PMSA	\$73,352,669
8	Dallas, TX PMSA	\$49,630,090
9	Houston, TX PMSA	\$46,881,277
10	Detroit, MI PMSA	\$30,015,587

*Includes Educational and General, Auxiliary Enterprises, Independent Operations, and Hospitals.

TOTAL HIGHER EDUCATION EXPENDITURES* FY 1996-97

<u>Rank</u>	<u>MSA Name</u>	<u>1996-97</u>
1	New York, NY PMSA	\$9,089,464,905
2	Los Angeles-Long Beach, CA PMSA	\$7,229,079,122
3	Chicago, IL PMSA	\$6,597,628,534
4	Philadelphia, PA-NJ PMSA	\$5,804,645,021
5	Boston, MA-NH PMSA	\$4,240,235,229
6	Atlanta, GA MSA	\$3,523,888,222
7	Raleigh-Durham-Chapel Hill, NC MSA	\$3,423,586,467
8	Washington, DC-MD-VA-WV PMSA	\$3,375,543,114
9	Baltimore, MD PMSA	\$2,649,236,641
10	San Jose, CA PMSA	\$2,623,909,351
11	Minneapolis-St. Paul, MN-WI MSA	\$2,441,993,324
12	San Francisco, CA PMSA	\$2,220,039,587
13	Seattle-Bellevue-Everett, WA PMSA	\$2,106,895,057
14	San Diego, CA MSA	\$1,986,799,650
15	Pittsburgh, PA MSA	\$1,906,999,293
16	Columbus, OH MSA	\$1,824,099,529
17	Houston, TX PMSA	\$1,801,147,734
18	St. Louis, MO-IL MSA	\$1,768,185,118
19	Newark, NJ PMSA	\$1,660,771,946
20	Nassau-Suffolk, NY PMSA	\$1,624,538,993
21	Oakland, CA PMSA	\$1,580,099,825
22	Dallas, TX PMSA	\$1,547,091,505
23	Nashville, TN MSA	\$1,495,105,632
24	Rochester, NY MSA	\$1,476,509,139
25	Miami, FL PMSA	\$1,386,890,573
26	New Orleans, LA MSA	\$1,376,437,198
27	Detroit, MI PMSA	\$1,340,993,772
28	Austin-San Marcos, TX MSA	\$1,326,976,982
29	Orange County, CA PMSA	\$1,190,383,343
30	Hartford, CT MSA	\$1,171,631,162
31	Middlesex-Somerset-Hunterdon, NJ PMSA	\$1,169,468,708
32	Salt Lake City-Ogden, UT MSA	\$1,069,057,248
33	Phoenix-Mesa, AZ MSA	\$1,062,468,723
34	Greensboro--Winston-Salem--High Point, NC MSA	\$1,027,904,785
35	Milwaukee-Waukesha, WI PMSA	\$1,017,396,255
36	Denver, CO PMSA	\$985,115,504
37	Cleveland-Lorain-Elyria, OH PMSA	\$951,279,616
38	Buffalo-Niagara Falls, NY MSA	\$924,031,811
39	Oklahoma City, OK MSA	\$888,336,159
40	Providence-Fall River-Warwick, RI-MA MSA	\$875,348,532
41	Memphis, TN-AR-MS MSA	\$839,009,158
42	Cincinnati, OH-KY-IN PMSA	\$833,406,919
43	Kansas City, MO-KS MSA	\$802,269,591
44	Tampa-St. Petersburg-Clearwater, FL MSA	\$772,218,253
45	Indianapolis, IN MSA	\$757,190,527
46	Riverside-San Bernardino, CA PMSA	\$731,790,916
47	Norfolk-Virginia Beach-Newport News, VA-NC MSA	\$727,829,044
48	Portland-Vancouver, OR-WA PMSA	\$699,474,328
49	San Antonio, TX MSA	\$672,771,394
50	Fort Worth-Arlington, TX PMSA	\$564,645,437
51	Charlotte-Gastonia-Rock Hill, NC-SC MSA	\$503,364,621
52	Grand Rapids-Muskegon-Holland, MI MSA	\$452,227,247
53	Orlando, FL MSA	\$443,770,343
54	Bergen-Passaic, NJ PMSA	\$335,453,007
55	Fort Lauderdale, FL PMSA	\$327,542,433
56	West Palm Beach-Boca Raton, FL MSA	\$304,487,013
57	Sacramento, CA PMSA	\$271,909,025
58	Las Vegas, NV-AZ MSA	\$262,948,184
59	Jacksonville, FL MSA	\$244,080,422
60	Monmouth-Ocean, NJ PMSA	\$195,183,927
	Total	\$102,502,785,100

*Includes Educational and General, Auxiliary Enterprises, Independent Operations, and Hospitals.

TOTAL RESEARCH EXPENDITURES FY 1996-97

Rank	MSA Name	1996-97
1	New York, NY PMSA	\$723,134,959
2	Boston, MA-NH PMSA	\$568,119,589
3	Atlanta, GA MSA	\$565,345,616
4	Los Angeles-Long Beach, CA PMSA	\$560,721,211
5	San Jose, CA PMSA	\$533,260,478
6	Baltimore, MD PMSA	\$523,695,326
7	Raleigh-Durham-Chapel Hill, NC MSA	\$507,611,180
8	Chicago, IL PMSA	\$472,429,397
9	Philadelphia, PA-NJ PMSA	\$416,584,379
10	Seattle-Bellevue-Everett, WA PMSA	\$339,860,249
11	Minneapolis-St. Paul, MN-WI MSA	\$307,905,255
12	Pittsburgh, PA MSA	\$297,824,300
13	San Diego, CA MSA	\$284,909,058
14	Houston, TX PMSA	\$284,293,259
15	San Francisco, CA PMSA	\$281,961,094
16	St. Louis, MO-IL MSA	\$274,778,584
17	Oakland, CA PMSA	\$263,109,347
18	Washington, DC-MD-VA-WV PMSA	\$256,368,798
19	Austin-San Marcos, TX MSA	\$229,071,938
20	Middlesex-Somerset-Hunterdon, NJ PMSA	\$185,702,017
21	Columbus, OH MSA	\$184,327,132
22	Dallas, TX PMSA	\$149,489,304
23	Cleveland-Lorain-Elyria, OH PMSA	\$138,021,650
24	Miami, FL PMSA	\$135,515,170
25	New Orleans, LA MSA	\$132,661,912
26	Nashville, TN MSA	\$131,779,596
27	Rochester, NY MSA	\$124,912,508
28	Salt Lake City-Ogden, UT MSA	\$119,717,000
29	Denver, CO PMSA	\$116,947,053
30	Newark, NJ PMSA	\$115,986,082
31	Orange County, CA PMSA	\$107,896,236
32	Detroit, MI PMSA	\$96,748,815
33	Hartford, CT MSA	\$95,048,751
34	Nassau-Suffolk, NY PMSA	\$88,227,876
35	Greensboro--Winston-Salem--High Point, NC MSA	\$86,124,536
36	Oklahoma City, OK MSA	\$73,464,534
37	Indianapolis, IN MSA	\$73,128,851
38	Tampa-St. Petersburg-Clearwater, FL MSA	\$72,834,982
39	Milwaukee-Waukesha, WI PMSA	\$72,302,963
40	Riverside-San Bernardino, CA PMSA	\$70,213,176
41	Cincinnati, OH-KY-IN PMSA	\$66,724,365
42	San Antonio, TX MSA	\$65,950,386
43	Buffalo-Niagara Falls, NY MSA	\$64,837,079
44	Phoenix-Mesa, AZ MSA	\$50,833,973
45	Kansas City, MO-KS MSA	\$50,312,493
46	Memphis, TN-AR-MS MSA	\$50,123,208
47	Providence-Fall River-Warwick, RI-MA MSA	\$39,657,299
48	Norfolk-Virginia Beach-Newport News, VA-NC MSA	\$39,260,690
49	Fort Worth-Arlington, TX PMSA	\$35,500,535
50	Orlando, FL MSA	\$28,137,526
51	Portland-Vancouver, OR-WA PMSA	\$23,208,652
52	West Palm Beach-Boca Raton, FL MSA	\$13,071,922
53	Las Vegas, NV-AZ MSA	\$12,435,000
54	Charlotte-Gastonia-Rock Hill, NC-SC MSA	\$4,979,358
55	Grand Rapids-Muskegon-Holland, MI MSA	\$3,509,535
56	Jacksonville, FL MSA	\$3,501,674
57	Monmouth-Ocean, NJ PMSA	\$1,786,785
58	Bergen-Passaic, NJ PMSA	\$1,561,909
59	Fort Lauderdale, FL PMSA	\$1,221,593
60	Sacramento, CA PMSA	\$735,102
	Total	\$10,619,383,244

TOTAL FEDERAL APPROPRIATIONS, GRANTS, AND CONTRACTS* FY 1996-97

<u>Rank</u>	<u>MSA Name</u>	<u>1996-97</u>
1	New York, NY PMSA	\$820,851,120
2	Los Angeles-Long Beach, CA PMSA	\$804,992,476
3	Baltimore, MD PMSA	\$754,503,017
4	Washington, DC-MD-VA-WV PMSA	\$636,715,295
5	Chicago, IL PMSA	\$623,736,950
6	Boston, MA-NH PMSA	\$560,959,970
7	San Jose, CA PMSA	\$544,805,601
8	Atlanta, GA MSA	\$534,803,308
9	Raleigh-Durham-Chapel Hill, NC MSA	\$516,078,996
10	Philadelphia, PA-NJ PMSA	\$507,393,415
11	Seattle-Bellevue-Everett, WA PMSA	\$431,779,231
12	Pittsburgh, PA MSA	\$374,576,417
13	San Diego, CA MSA	\$338,761,484
14	Houston, TX PMSA	\$325,436,962
15	Minneapolis-St. Paul, MN-WI MSA	\$310,917,194
16	San Francisco, CA PMSA	\$300,530,641
17	Oakland, CA PMSA	\$241,359,964
18	St. Louis, MO-IL MSA	\$222,285,524
19	Middlesex-Somerset-Hunterdon, NJ PMSA	\$217,366,177
20	Austin-San Marcos, TX MSA	\$209,745,465
21	Rochester, NY MSA	\$205,795,311
22	Nashville, TN MSA	\$198,125,378
23	Miami, FL PMSA	\$187,714,668
24	Denver, CO PMSA	\$177,725,476
25	Dallas, TX PMSA	\$177,348,461
26	Cleveland-Lorain-Elyria, OH PMSA	\$172,236,946
27	New Orleans, LA MSA	\$170,207,940
28	Columbus, OH MSA	\$165,144,457
29	Nassau-Suffolk, NY PMSA	\$155,463,814
30	Norfolk-Virginia Beach-Newport News, VA-NC MSA	\$145,478,676
31	Detroit, MI PMSA	\$136,714,221
32	Buffalo-Niagara Falls, NY MSA	\$136,127,140
33	Newark, NJ PMSA	\$128,852,155
34	Salt Lake City-Ogden, UT MSA	\$126,264,644
35	Phoenix-Mesa, AZ MSA	\$121,207,734
36	Greensboro--Winston-Salem--High Point, NC MSA	\$120,687,007
37	Orange County, CA PMSA	\$116,128,450
38	San Antonio, TX MSA	\$114,512,072
39	Hartford, CT MSA	\$105,182,412
40	Oklahoma City, OK MSA	\$103,925,521
41	Milwaukee-Waukesha, WI PMSA	\$96,655,859
42	Cincinnati, OH-KY-IN PMSA	\$90,612,283
43	Indianapolis, IN MSA	\$90,582,481
44	Providence-Fall River-Warwick, RI-MA MSA	\$83,701,663
45	Tampa-St. Petersburg-Clearwater, FL MSA	\$82,744,737
46	Riverside-San Bernardino, CA PMSA	\$78,305,090
47	Portland-Vancouver, OR-WA PMSA	\$69,925,858
48	Kansas City, MO-KS MSA	\$65,076,948
49	Memphis, TN-AR-MS MSA	\$55,304,706
50	Orlando, FL MSA	\$55,000,418
51	Fort Worth-Arlington, TX PMSA	\$54,066,252
52	Charlotte-Gastonia-Rock Hill, NC-SC MSA	\$44,315,938
53	Grand Rapids-Muskegon-Holland, MI MSA	\$36,749,361
54	Jacksonville, FL MSA	\$28,666,300
55	West Palm Beach-Boca Raton, FL MSA	\$21,367,111
56	Las Vegas, NV-AZ MSA	\$20,857,864
57	Sacramento, CA PMSA	\$19,371,375
58	Fort Lauderdale, FL PMSA	\$17,963,947
59	Bergen-Passaic, NJ PMSA	\$14,394,077
60	Monmouth-Ocean, NJ PMSA	\$7,645,067
	Total	\$13,275,749,024

*Does not include student financial aid funds.

TOTAL STAFF EMPLOYMENT FY 1997-98

Rank	MSA Name	1997-98	Change from '95-96
1	Chicago, IL PMSA	98,514	13.5%
2	New York, NY PMSA	95,238	-1.8%
3	Los Angeles-Long Beach, CA PMSA	73,578	3.1%
4	Philadelphia, PA-NJ PMSA	61,414	3.4%
5	Boston, MA-NH PMSA	59,671	9.6%
6	Raleigh-Durham-Chapel Hill, NC MSA	45,790	1.8%
7	Washington, DC-MD-VA-WV PMSA	39,208	-4.5%
8	Atlanta, GA MSA	38,956	0.6%
9	Seattle-Bellevue-Everett, WA PMSA	35,719	12.4%
10	Minneapolis-St. Paul, MN-WI MSA	32,287	0.1%
11	Baltimore, MD PMSA	29,240	4.6%
12	Dallas, TX PMSA	29,215	7.5%
13	Columbus, OH MSA	29,083	3.8%
14	Pittsburgh, PA MSA	28,390	-2.1%
15	San Diego, CA MSA	28,356	16.7%
16	Austin-San Marcos, TX MSA	27,244	3.9%
17	San Francisco, CA PMSA	26,183	14.8%
18	Houston, TX PMSA	25,708	2.2%
19	Oakland, CA PMSA	24,076	6.9%
20	Newark, NJ PMSA	23,778	8.6%
21	Nashville, TN MSA	23,012	17.0%
22	Nassau-Suffolk, NY PMSA	21,594	-6.8%
23	St. Louis, MO-IL MSA	21,280	-6.6%
24	Detroit, MI PMSA	20,687	2.2%
25	Miami, FL PMSA	20,290	-3.7%
26	Rochester, NY MSA	20,148	1.0%
27	Orange County, CA PMSA	19,255	22.2%
28	Phoenix-Mesa, AZ MSA	18,424	11.1%
29	Milwaukee-Waukesha, WI PMSA	15,766	5.1%
30	Salt Lake City-Ogden, UT MSA	15,458	3.1%
31	New Orleans, LA MSA	15,256	-9.4%
32	Oklahoma City, OK MSA	15,010	4.5%
33	Denver, CO PMSA	14,891	-3.7%
34	San Jose, CA PMSA	14,531	6.0%
35	Cleveland-Lorain-Elyria, OH PMSA	14,404	0.0%
36	Riverside-San Bernardino, CA PMSA	14,311	16.7%
37	Hartford, CT MSA	13,898	-1.3%
38	Kansas City, MO-KS MSA	12,815	0.0%
39	San Antonio, TX MSA	12,738	19.5%
40	Cincinnati, OH-KY-IN PMSA	12,549	8.5%
41	Fort Worth-Arlington, TX PMSA	12,104	30.7%
42	Norfolk-Virginia Beach-Newport News, VA-NC MSA	11,890	16.5%
43	Providence-Fall River-Warwick, RI-MA MSA	11,695	2.5%
44	Greensboro--Winston-Salem--High Point, NC MSA	11,327	2.8%
45	Tampa-St. Petersburg-Clearwater, FL MSA	11,089	-2.7%
46	Buffalo-Niagara Falls, NY MSA	10,699	0.6%
47	Portland-Vancouver, OR-WA PMSA	10,649	-4.1%
48	Memphis, TN-AR-MS MSA	10,022	-0.4%
49	Indianapolis, IN MSA	9,927	4.1%
50	Fort Lauderdale, FL PMSA	9,167	48.9%
51	Orlando, FL MSA	8,635	10.8%
52	Charlotte-Gastonia-Rock Hill, NC-SC MSA	8,017	0.1%
53	Sacramento, CA PMSA	6,169	11.6%
54	Bergen-Passaic, NJ PMSA	5,996	6.9%
55	Grand Rapids-Muskegon-Holland, MI MSA	5,851	12.0%
56	Las Vegas, NV-AZ MSA	5,723	16.1%
57	Jacksonville, FL MSA	4,439	-2.4%
58	Monmouth-Ocean, NJ PMSA	4,249	27.8%
59	West Palm Beach-Boca Raton, FL MSA	4,057	-6.2%
60	Middlesex-Somerset-Hunterdon, NJ PMSA	1,669	-2.7%
	Total	1,351,338	4.8%



"Higher education is a distinguishing factor between big cities and truly great cities."

ELLEN L. MEYER

PRESIDENT,
ATLANTA COLLEGE OF ART AND CHAIR,
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Notes on the Study

This study documents higher education activity in America's largest metropolitan statistical areas (MSAs).

- The U.S. Office of Management and Budget defines metropolitan areas according to published standards that are applied to U.S. Census Bureau data. The general concept of an MSA is that of a core area containing a large population nucleus, together with adjacent communities having a high degree of economic and social integration with that core. MSAs are relevant units of analysis because of their importance as population centers and as engines of national and regional economic growth. For purposes of this study, when an MSA is located in a Consolidated MSA, the unit of measure is the Primary MSA (PMSA, as noted in the tables).
- This study is based on the 60 largest MSAs in order to provide broad representation of regions across the nation. Determination of the 60 largest MSAs is based on July 1, 1997 population estimates.
- All higher education data is from Federal Integrated Postsecondary Education Data System (IPEDS) surveys completed by degree-granting institutions approved to receive Federal student aid. These surveys are conducted by the U.S. Department of Education (DOE).
- To ensure accuracy and consistency in reporting, institutions were included in the analysis only if they had filed all of the following IPEDS surveys in one of the years covered by the study: institutional characteristics, enrollment, completions (degrees), and finance. The study reflects data from 1,736 institutions located in the 60 MSAs. For purposes of comparison, certain data for some institutions has been imputed if those institutions did not file all forms in all years.
- Data for the Atlanta MSA represents 45 colleges, universities, and institutions of higher learning, including all 20 members of ARCHE (the University of Georgia, located immediately adjacent to the Atlanta MSA, is included in the data as a member of ARCHE).
- Enrollment and degree data is from academic year 1997-98, and financial data is from fiscal year 1996-97. Data from academic years 1996-97 and 1995-96 also was studied to assess recent changes in enrollment and degree production.
- No changes from a prior year are shown for financial data because changes both in national accounting standards used by the institutions and in the format of the IPEDS finance survey prevent accurate comparisons of 1996-97 data with that of previous fiscal years.
- Full-Time-Equivalent (FTE) enrollment data is reported in this study because of its widespread use for budgeting purposes in higher education. The formula for this calculation is: $1/3$ the number of part-time students + the number of full-time students = FTE enrollment.
- Degree data reported in this study reflects degrees awarded at the Bachelor's level and higher, including Master's, Doctoral, and Professional degrees.
- Because the DOE releases IPEDS survey data in a continuing series of re-releases, this study is based on the latest data available as of August 2000. Consequently, because of the use of recent data, information in this study is not directly comparable to that reported in MSA Study #1 (released in April 1999).
- The failure of any institution of higher education to file complete and accurate IPEDS surveys with the DOE may affect the ranking of the MSA in which that institution is located.

Sources

ARCHE

The Atlanta Regional Consortium for Higher Education, or ARCHE, is a non-profit, 501(c)(3) corporation founded in 1938. The mission of ARCHE is to: 1) Provide member institutions with services that help expand educational opportunities, promote academic excellence, and foster cultural diversity for students, faculty, and staff; 2) Provide collaborative opportunities for member institutions to develop new resources and realize cost savings in ways that otherwise would not be available to members individually; and 3) Inform civic and business leaders and the general public of the direct and indirect ways in which higher education benefits the Atlanta region and the State of Georgia.

HUMAN CAPITAL RESEARCH CORPORATION

This study was performed by Human Capital Research Corporation, a firm with extensive national experience in projects of this type. Human Capital provides research and analysis services to higher education institutions, organizations, and agencies in the areas of institutional operations, educational productivity, enrollment management, work force development, and public policy.

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