Higher Education in
America's Metropolitan Areas
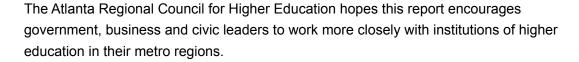*A Statistical Profile*

ARCHE
ATLANTA REGIONAL COUNCIL
for HIGHER EDUCATION

What this study shows – and why it's important

This study measures the higher education capacity of America's 50 largest metropolitan areas in students enrolled, degrees awarded, and college and university finances.

It provides a comparative view of the collective resources available to metro regions across the nation from their local colleges and universities. Leveraging these resources is key to promoting economic prosperity, educating a skilled workforce, advancing scientific discovery, expanding the arts and improving quality of life.

The Atlanta Regional Council for Higher Education hopes this report encourages government, business and civic leaders to work more closely with institutions of higher education in their metro regions.

Contents

America's Higher Education Landscape

It's been said that great cities need great colleges and universities. It's certainly clear that the majority of American higher education takes place in the nation's metropolitan areas.

Consider the facts. The 50 largest metro areas in the U.S. included in this report account for:

- 50% of all students attending college in the U.S. (*full-time-equivalent*)

- 51% of all degrees awarded by American colleges and universities (*at the bachelor's level and higher*)

- 54% of all higher education institution spending in the nation

- 64% of all higher education research spending

In measure after measure, the nation's metro areas possess critical mass in higher learning and research. This in turn fuels economic development, innovative growth, bigger tax bases, arts and cultural activities, improved quality of life and a host of other benefits for these metro regions.

For this reason, ARCHE continues to study the presence of colleges and universities in these areas and offers its most recent findings in this report.

About the tables in this report

- All data is from the U.S. Department of Education.

- Most tables cover the period 1989 to 2005; inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult, and 2005 was the most recent year for national data when this study was undertaken. Each table's notes indicate the specific time period it presents.

- The 50 largest metro areas in the U.S. are used in this report to provide broad comparisons of regions across the nation. These include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). MDs are subdivisions of larger MSAs but often function as distinct social, economic, and cultural areas within the larger regions and retain their separate statistical identities. Where an MSA is composed of Metropolitan Divisions, the unit of measure is the MD, as noted in the tables. The largest MSAs and MDs are determined based on 2005 Census population data.

- Notes on the study are found on page 26 of this report. An online version of the report and more information about the study are at www.atlantahighered.org.

Worth Noting

Eight metro areas showed particular prominence in students enrolled and degrees earned over the 17 years studied. These are the only regions that, in 1989, enrolled over 100,000 college students (*full-time-equivalent*) and awarded more than 15,000 degrees (*bachelor's and higher*). They can be regarded as America's top higher education centers.

U.S. Higher Ed Centers: Enrollment Growth

	Metropolitan Area	1989 Enrollment	2005 Enrollment	% Change 89-05
1	Atlanta-Sandy Springs-Marietta, GA (MSA)	108,760	176,171	62%
2	San Diego-Carlsbad-San Marcos, CA (MSA)	113,999	161,021	41%
3	Los Angeles-Long Beach-Glendale, CA (MD)	307,854	413,857	34%
4	New York-White Plains-Wayne, NY-NJ (MD)	336,245	448,161	33%
5	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	141,101	185,090	31%
6	Philadelphia, PA (MD)	149,386	188,367	26%
7	Chicago-Naperville-Joliet, IL (MD)	276,089	341,192	24%
8	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	190,422	211,754	11%

The Atlanta region showed the largest percentage jump in enrollment among top higher ed centers. In raw numbers, Atlanta posted the third-highest increase in the nation.

U.S. Higher Ed Centers: Degrees Awarded

	Metropolitan Area	1989 Degrees Awarded	2005 Degrees Awarded	% Change 89-05
1	San Diego-Carlsbad-San Marcos, CA (MSA)	15,308	30,175	97%
2	Atlanta-Sandy Springs-Marietta, GA (MSA)	20,501	35,802	75%
3	New York-White Plains-Wayne, NY-NJ (MD)	58,280	97,166	67%
4	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	28,815	46,330	61%
5	Chicago-Naperville-Joliet, IL (MD)	42,683	66,701	56%
6	Philadelphia, PA (MD)	28,383	43,134	52%
7	Los Angeles-Long Beach-Glendale, CA (MD)	45,578	68,478	50%
8	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	42,060	57,195	36%

The Atlanta region saw the second-largest percentage increase in degrees awarded among top higher ed centers. In raw numbers, Atlanta posted the fifth-highest increase in degrees awarded in the nation.

In 2005, only five metro areas had college and university research spending exceeding $1 billion. These five can be viewed as the nation's higher education research leaders.

U.S. Higher Ed Centers: Research

	Metropolitan Area	2005 Research Expenditures
1	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	$2,023,687,549
2	New York-White Plains-Wayne, NY-NJ (MD)	$1,419,605,026
3	Baltimore-Towson, MD (MSA)	$1,133,897,093
4	Los Angeles-Long Beach-Glendale, CA (MD)	$1,085,398,692
5	Atlanta-Sandy Springs-Marietta, GA (MSA)	$1,013,743,433

The Atlanta region is the nation's fifth-largest center for higher education research.

Note: Accurate comparisons prior to 2005 are difficult due to changes in accounting and reporting practices.

enrollment

Total Enrollment
(Full-Time-Equivalent)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Enrollment	1989 Rank	# Change 89-05	% Change 89-05
1	–	New York-White Plains-Wayne, NY-NJ (MD)	448,161	1	111,916	33%
2	–	Los Angeles-Long Beach-Glendale, CA (MD)	413,857	2	106,003	34%
3	–	Chicago-Naperville-Joliet, IL (MD)	341,192	3	65,103	24%
4	–	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	211,754	4	21,333	11%
5	–	Philadelphia, PA (MD)	188,367	5	38,981	26%
6	–	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	185,090	6	43,989	31%
7	▲	Atlanta-Sandy Springs-Marietta, GA (MSA)	176,171	8	67,411	62%
8	▲	Santa Ana-Anaheim-Irvine, CA (MD)	162,482	9	66,642	70%
9	▼	San Diego-Carlsbad-San Marcos, CA (MSA)	161,021	7	47,022	41%
10	▲	Phoenix-Mesa-Scottsdale, AZ (MSA)	144,475	11	55,767	63%
11	▲	Houston-Sugar Land-Baytown, TX (MSA)	124,565	17	45,332	57%
12	▲	Dallas-Plano-Irving, TX (MD)	124,343	13	37,112	43%
13	▼	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	124,318	10	31,892	35%
14	▲	St. Louis, MO-IL (MSA)	111,450	20	34,751	45%
15	▼	Pittsburgh, PA (MSA)	108,080	12	20,115	23%
16	▲	Seattle-Bellevue-Everett, WA (MD)	107,852	18	29,081	37%
17	▼	Oakland-Fremont-Hayward, CA (MD)	105,983	15	19,918	23%
18	▲	Riverside-San Bernardino-Ontario, CA (MSA)	104,458	35	54,028	107%
19	▲	Sacramento—Arden-Arcade—Roseville, CA (MSA)	104,445	25	38,449	58%
20	▼	Nassau-Suffolk, NY (MD)	103,886	14	17,172	20%
21	–	Baltimore-Towson, MD (MSA)	103,463	21	28,478	38%
22	▲	Miami-Miami Beach-Kendall, FL (MD)	96,795	28	36,760	61%
23	▼	San Jose-Sunnyvale-Santa Clara, CA (MSA)	95,756	19	17,800	23%
24	▼	Austin-Round Rock, TX (MSA)	93,486	16	14,194	18%
25	▲	Denver-Aurora, CO (MSA)	91,356	33	38,541	73%
26	▼	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	90,544	24	20,204	29%
27	▲	Tampa-St. Petersburg-Clearwater, FL (MSA)	90,493	29	34,555	62%
28	▼	San Francisco-San Mateo-Redwood City, CA (MD)	88,982	22	17,824	25%
29	▼	Columbus, OH (MSA)	85,308	23	14,844	21%
30	▼	Cincinnati-Middletown, OH-KY-IN (MSA)	83,292	26	17,567	27%
31	▼	Newark-Union, NJ-PA (MD)	82,590	27	18,378	29%
32	▲	Orlando-Kissimmee, FL (MSA)	77,058	45	43,342	129%
33	▼	Edison, NJ (MD)	70,081	32	16,553	31%
34	▼	Milwaukee-Waukesha-West Allis, WI (MSA)	68,300	31	14,648	27%
35	▲	Nashville-Davidson—Murfreesboro, TN (MSA)	66,477	42	26,277	65%
36	▲	San Antonio, TX (MSA)	66,232	43	27,107	69%
37	▼	Detroit-Livonia-Dearborn, MI (MD)	62,278	30	6,959	13%
38	▼	Portland-Vancouver-Beaverton, OR-WA (MSA)	61,983	37	16,526	36%
39	▼	Providence-New Bedford-Fall River, RI-MA (MSA)	61,390	34	10,836	21%
40	▼	Kansas City, MO-KS (MSA)	59,165	38	15,083	34%
41	–	Fort Worth-Arlington, TX (MD)	57,703	41	16,836	41%
42	▼	Cleveland-Elyria-Mentor, OH (MSA)	54,375	36	7,149	15%
43	▼	Warren-Farmington Hills-Troy, MI (MD)	54,140	39	11,689	28%
44	▲	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	51,160	48	28,200	123%
45	▲	Charlotte-Gastonia-Concord, NC-SC (MSA)	49,705	46	16,605	50%
46	▲	Las Vegas-Paradise, NV (MSA)	46,610	50	30,930	197%
47	–	Indianapolis-Carmel, IN (MSA)	42,701	47	13,875	48%
48	▼	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	42,091	44	6,985	20%
49	–	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	37,648	49	17,212	84%
50	▼	New Orleans-Metairie-Kenner, LA (MSA)	14,231	40	-27,291	-66%
TOTAL			**5,597,345**		1,510,684	37%

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Fall 2005. "1989" represents Fall 1989. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • "Full-Time-Equivalent" (FTE) uses a formula to equate part-time enrollment to full-time. • For more information, see page 26 or visit www.atlantahighered.org.

Students of Color Enrolled
(Full-Time-Equivalent)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Enrollment	1989 Rank	# Change 89-05	% Change 89-05
1	–	Los Angeles-Long Beach-Glendale, CA (MD)	225,199	1	69,863	45%
2	–	New York-White Plains-Wayne, NY-NJ (MD)	199,521	2	62,598	46%
3	–	Chicago-Naperville-Joliet, IL (MD)	127,818	3	36,517	40%
4	▲	Santa Ana-Anaheim-Irvine, CA (MD)	77,111	7	37,922	97%
5	▼	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	72,678	4	21,730	43%
6	▼	San Diego-Carlsbad-San Marcos, CA (MSA)	67,683	5	25,571	61%
7	▲	Miami-Miami Beach-Kendall, FL (MD)	67,406	8	30,093	81%
8	▲	Houston-Sugar Land-Baytown, TX (MSA)	64,532	9	28,678	80%
9	▲	Atlanta-Sandy Springs-Marietta, GA (MSA)	62,765	14	34,257	120%
10	▲	Riverside-San Bernardino-Ontario, CA (MSA)	55,983	18	35,169	169%
11	▼	Oakland-Fremont-Hayward, CA (MD)	53,116	6	12,591	31%
12	▼	Philadelphia, PA (MD)	47,910	11	15,655	49%
13	▼	San Jose-Sunnyvale-Santa Clara, CA (MSA)	46,536	10	13,021	39%
14	▲	Dallas-Plano-Irving, TX (MD)	46,101	16	23,614	105%
15	▼	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	44,407	12	12,624	40%
16	▼	Sacramento—Arden-Arcade—Roseville, CA (MSA)	43,361	15	20,330	88%
17	▼	San Francisco-San Mateo-Redwood City, CA (MD)	41,945	13	11,179	36%
18	▲	Phoenix-Mesa-Scottsdale, AZ (MSA)	38,213	23	20,122	111%
19	▲	San Antonio, TX (MSA)	37,325	21	17,781	91%
20	–	Baltimore-Towson, MD (MSA)	34,457	20	14,356	71%
21	▼	Newark-Union, NJ-PA (MD)	32,196	19	11,570	56%
22	▼	Austin-Round Rock, TX (MSA)	30,070	17	9,117	44%
23	▲	Nassau-Suffolk, NY (MD)	28,834	24	11,743	69%
24	▼	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	26,574	22	8,476	47%
25	▲	Seattle-Bellevue-Everett, WA (MD)	25,915	26	9,390	57%
26	▲	Tampa-St. Petersburg-Clearwater, FL (MSA)	25,648	31	14,705	134%
27	▲	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	25,460	40	17,542	222%
28	▲	Orlando-Kissimmee, FL (MSA)	24,439	43	16,847	222%
29	▼	St. Louis, MO-IL (MSA)	23,452	27	7,100	43%
30	▼	Detroit-Livonia-Dearborn, MI (MD)	19,853	25	3,185	19%
31	▲	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	19,509	32	9,523	95%
32	▼	Edison, NJ (MD)	19,435	30	6,869	55%
33	▲	Denver-Aurora, CO (MSA)	18,869	34	9,201	95%
34	▲	Fort Worth-Arlington, TX (MD)	18,824	38	9,682	106%
35	–	Nashville-Davidson—Murfreesboro, TN (MSA)	17,879	35	8,387	88%
36	▲	Las Vegas-Paradise, NV (MSA)	16,498	50	13,157	394%
37	▼	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	16,370	29	3,604	28%
38	▼	Columbus, OH (MSA)	14,639	36	5,402	58%
39	▼	Cleveland-Elyria-Mentor, OH (MSA)	14,331	33	4,524	46%
40	▲	Charlotte-Gastonia-Concord, NC-SC (MSA)	13,843	42	6,213	81%
41	▲	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	13,341	48	9,100	215%
42	▼	Cincinnati-Middletown, OH-KY-IN (MSA)	13,256	41	5,450	70%
43	▼	Pittsburgh, PA (MSA)	13,037	37	3,847	42%
44	▼	Milwaukee-Waukesha-West Allis, WI (MSA)	12,796	39	4,211	49%
45	▼	Kansas City, MO-KS (MSA)	11,787	44	4,333	58%
46	▼	Portland-Vancouver-Beaverton, OR-WA (MSA)	9,922	45	4,047	69%
47	–	Warren-Farmington Hills-Troy, MI (MD)	9,862	47	5,000	103%
48	▼	Providence-New Bedford-Fall River, RI-MA (MSA)	8,884	46	3,242	57%
49	–	Indianapolis-Carmel, IN (MSA)	7,388	49	3,507	90%
50	▼	New Orleans-Metairie-Kenner, LA (MSA)	7,290	28	-8,027	-52%
TOTAL			**1,994,266**		764,620	62%

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Fall 2005. "1989" represents Fall 1989. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • "Full-Time-Equivalent" (FTE) uses a formula to equate part-time enrollment to full-time. • Students of color includes African American, Hispanic, Asian / Pacific Islander and American Indian / Alaskan Native. • For more information, see page 26 or visit www.atlantahighered.org.

enrollment

African American Students Enrolled
(Full-Time-Equivalent)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Enrollment	1989 Rank	# Change 89-05	% Change 89-05
1	–	New York-White Plains-Wayne, NY-NJ (MD)	77,132	1	20,176	35%
2	–	Chicago-Naperville-Joliet, IL (MD)	52,597	2	12,399	31%
3	⌃	Atlanta-Sandy Springs-Marietta, GA (MSA)	47,548	5	25,688	118%
4	⌄	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	45,458	3	12,719	39%
5	⌄	Los Angeles-Long Beach-Glendale, CA (MD)	36,736	4	7,981	28%
6	–	Houston-Sugar Land-Baytown, TX (MSA)	30,846	6	12,108	65%
7	–	Philadelphia, PA (MD)	26,891	7	8,189	44%
8	–	Baltimore-Towson, MD (MSA)	25,050	8	9,963	66%
9	⌃	Dallas-Plano-Irving, TX (MD)	19,629	14	9,428	92%
10	⌄	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	19,052	9	4,958	35%
11	⌃	Miami-Miami Beach-Kendall, FL (MD)	18,174	17	8,487	88%
12	⌄	St. Louis, MO-IL (MSA)	17,707	11	5,092	40%
13	⌃	Detroit-Livonia-Dearborn, MI (MD)	15,547	10	2,123	16%
14	⌃	Nashville-Davidson—Murfreesboro, TN (MSA)	14,704	19	6,682	83%
15	–	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	14,438	15	4,278	42%
16	⌃	Newark-Union, NJ-PA (MD)	13,606	18	4,016	42%
17	⌃	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	13,570	34	9,628	244%
18	⌄	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	12,918	13	2,474	24%
19	⌃	Tampa-St. Petersburg-Clearwater, FL (MSA)	12,692	27	7,753	157%
20	⌄	Oakland-Fremont-Hayward, CA (MD)	11,500	16	1,784	18%
21	–	Nassau-Suffolk, NY (MD)	11,107	21	4,033	57%
22	⌃	Charlotte-Gastonia-Concord, NC-SC (MSA)	10,943	23	4,521	70%
23	⌄	Cleveland-Elyria-Mentor, OH (MSA)	10,579	20	3,494	49%
24	⌃	Riverside-San Bernardino-Ontario, CA (MSA)	10,184	29	5,664	125%
25	–	Cincinnati-Middletown, OH-KY-IN (MSA)	10,114	25	4,415	77%
26	–	Columbus, OH (MSA)	9,300	26	3,756	68%
27	⌃	Orlando-Kissimmee, FL (MSA)	9,007	43	6,366	241%
28	⌄	Pittsburgh, PA (MSA)	8,262	24	2,222	37%
29	⌄	San Diego-Carlsbad-San Marcos, CA (MSA)	8,245	22	1,552	23%
30	⌃	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	7,956	37	4,691	144%
31	⌃	Sacramento—Arden-Arcade—Roseville, CA (MSA)	7,343	35	3,436	88%
32	⌃	Fort Worth-Arlington, TX (MD)	7,134	39	3,911	121%
33	⌃	Warren-Farmington Hills-Troy, MI (MD)	7,045	41	4,104	140%
34	⌄	Milwaukee-Waukesha-West Allis, WI (MSA)	6,913	28	2,092	43%
35	⌃	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	6,748	48	4,763	240%
36	⌃	Phoenix-Mesa-Scottsdale, AZ (MSA)	6,717	40	3,632	118%
37	⌃	Santa Ana-Anaheim-Irvine, CA (MD)	6,625	44	4,108	163%
38	⌄	Kansas City, MO-KS (MSA)	6,562	30	2,049	45%
39	⌄	New Orleans-Metairie-Kenner, LA (MSA)	6,236	12	-5,442	-47%
40	⌃	Indianapolis-Carmel, IN (MSA)	5,439	42	2,643	95%
41	⌄	Edison, NJ (MD)	5,324	33	1,366	34%
42	⌄	San Francisco-San Mateo-Redwood City, CA (MD)	5,144	31	1,048	26%
43	⌄	Austin-Round Rock, TX (MSA)	4,808	32	742	18%
44	⌄	Seattle-Bellevue-Everett, WA (MD)	4,788	38	1,564	48%
45	⌄	San Jose-Sunnyvale-Santa Clara, CA (MSA)	4,737	36	1,268	37%
46	⌄	Denver-Aurora, CO (MSA)	4,723	45	2,475	110%
47	⌄	San Antonio, TX (MSA)	4,369	46	2,286	110%
48	⌃	Las Vegas-Paradise, NV (MSA)	4,199	49	3,111	286%
49	⌄	Providence-New Bedford-Fall River, RI-MA (MSA)	3,081	47	1,026	50%
50	–	Portland-Vancouver-Beaverton, OR-WA (MSA)	1,786	50	733	70%
TOTAL			**731,213**		257,555	54%

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Fall 2005. "1989" represents Fall 1989. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • "Full-Time-Equivalent" (FTE) uses a formula to equate part-time enrollment to full-time. • For more information, see page 26 or visit www.atlantahighered.org.

Total Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	–	New York-White Plains-Wayne, NY-NJ (MD)	97,166	1	38,886	67%
2	–	Los Angeles-Long Beach-Glendale, CA (MD)	68,478	2	22,900	50%
3	–	Chicago-Naperville-Joliet, IL (MD)	66,701	3	24,018	56%
4	–	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	57,195	4	15,135	36%
5	–	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	46,330	5	17,515	61%
6	–	Philadelphia, PA (MD)	43,134	6	14,751	52%
7	–	Atlanta-Sandy Springs-Marietta, GA (MSA)	35,802	7	15,301	75%
8	–	San Diego-Carlsbad-San Marcos, CA (MSA)	30,175	8	14,867	97%
9	⌃	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	23,096	10	8,559	59%
10	⌃	St. Louis, MO-IL (MSA)	22,656	17	10,744	90%
11	⌃	Dallas-Plano-Irving, TX (MD)	22,487	16	10,056	81%
12	⌄	Pittsburgh, PA (MSA)	22,452	11	8,048	56%
13	⌃	Santa Ana-Anaheim-Irvine, CA (MD)	22,120	26	13,470	156%
14	⌄	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	20,952	12	6,856	49%
15	⌄	Austin-Round Rock, TX (MSA)	20,531	13	6,651	48%
16	⌄	Nassau-Suffolk, NY (MD)	20,361	9	5,492	37%
17	⌃	Baltimore-Towson, MD (MSA)	20,044	19	8,467	73%
18	⌃	Phoenix-Mesa-Scottsdale, AZ (MSA)	19,548	21	8,259	73%
19	⌃	Seattle-Bellevue-Everett, WA (MD)	19,313	24	9,014	88%
20	⌄	Columbus, OH (MSA)	19,301	14	5,570	41%
21	⌄	Oakland-Fremont-Hayward, CA (MD)	17,777	15	4,332	32%
22	⌃	Miami-Miami Beach-Kendall, FL (MD)	16,236	31	8,115	100%
23	⌄	Newark-Union, NJ-PA (MD)	15,821	22	5,033	47%
24	⌄	Cincinnati-Middletown, OH-KY-IN (MSA)	15,735	18	3,830	32%
25	⌃	Denver-Aurora, CO (MSA)	15,635	34	8,604	122%
26	⌄	San Jose-Sunnyvale-Santa Clara, CA (MSA)	15,568	23	4,996	47%
27	–	Sacramento—Arden-Arcade—Roseville, CA (MSA)	14,971	27	6,424	75%
28	⌄	San Francisco-San Mateo-Redwood City, CA (MD)	14,564	20	3,120	27%
29	⌃	Tampa-St. Petersburg-Clearwater, FL (MSA)	13,655	32	6,046	79%
30	⌃	Houston-Sugar Land-Baytown, TX (MSA)	13,232	33	5,633	74%
31	⌃	Nashville-Davidson—Murfreesboro, TN (MSA)	12,860	35	6,096	90%
32	⌄	Milwaukee-Waukesha-West Allis, WI (MSA)	12,410	30	4,221	52%
33	⌃	Portland-Vancouver-Beaverton, OR-WA (MSA)	12,149	39	6,166	103%
34	⌄	Detroit-Livonia-Dearborn, MI (MD)	12,042	28	3,767	46%
35	⌃	Orlando-Kissimmee, FL (MSA)	11,735	44	7,373	169%
36	⌄	Edison, NJ (MD)	11,461	29	3,205	39%
37	⌄	Providence-New Bedford-Fall River, RI-MA (MSA)	11,356	25	2,472	28%
38	–	Kansas City, MO-KS (MSA)	10,910	38	4,692	75%
39	⌃	Riverside-San Bernardino-Ontario, CA (MSA)	10,863	42	6,303	138%
40	⌄	New Orleans-Metairie-Kenner, LA (MSA)	10,810	36	4,064	60%
41	⌄	Cleveland-Elyria-Mentor, OH (MSA)	9,302	37	2,615	39%
42	⌃	San Antonio, TX (MSA)	8,764	43	4,206	92%
43	⌃	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	8,565	48	5,979	231%
44	⌄	Fort Worth-Arlington, TX (MD)	8,235	40	2,879	54%
45	⌄	Indianapolis-Carmel, IN (MSA)	7,159	41	2,456	52%
46	⌃	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	7,127	49	4,739	198%
47	⌄	Charlotte-Gastonia-Concord, NC-SC (MSA)	6,676	45	2,455	58%
48	⌄	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	6,316	46	2,226	54%
49	⌄	Warren-Farmington Hills-Troy, MI (MD)	6,177	47	2,491	68%
50	–	Las Vegas-Paradise, NV (MSA)	5,180	50	3,865	294%
TOTAL			1,041,133		402,962	63%

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Academic Year 2004-05. "1989" represents Academic Year 1988-89. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • Degree reporting based on 2000 classification of instructional programs. • For more information, see page 26 or visit www.atlantahighered.org.

degrees

Biological and Biomedical Sciences Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	–	Los Angeles-Long Beach-Glendale, CA (MD)	2,365	1	1,080	84%
2	▲	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	1,930	4	804	71%
3	▼	New York-White Plains-Wayne, NY-NJ (MD)	1,895	2	623	49%
4	▼	Chicago-Naperville-Joliet, IL (MD)	1,704	3	541	47%
5	▲	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	1,504	6	689	85%
6	▼	Sacramento—Arden-Arcade—Roseville, CA (MSA)	1,459	5	629	76%
7	▲	Atlanta-Sandy Springs-Marietta, GA (MSA)	1,398	13	867	163%
8	▼	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	1,370	7	594	77%
9	▼	Philadelphia, PA (MD)	1,348	8	658	95%
10	▲	San Diego-Carlsbad-San Marcos, CA (MSA)	1,250	11	676	118%
11	▼	Oakland-Fremont-Hayward, CA (MD)	1,099	9	413	60%
12	▲	Baltimore-Towson, MD (MSA)	985	16	576	141%
13	▲	Austin-Round Rock, TX (MSA)	971	15	561	137%
14	–	Santa Ana-Anaheim-Irvine, CA (MD)	960	14	441	85%
15	▲	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	857	17	462	117%
16	▲	Seattle-Bellevue-Everett, WA (MD)	814	21	473	139%
17	▲	St. Louis, MO-IL (MSA)	755	32	545	260%
18	▲	Houston-Sugar Land-Baytown, TX (MSA)	696	25	410	143%
19	▼	Columbus, OH (MSA)	654	18	271	71%
20	▲	New Orleans-Metairie-Kenner, LA (MSA)	634	37	442	230%
21	▼	Edison, NJ (MD)	589	10	9	2%
22	▲	Riverside-San Bernardino-Ontario, CA (MSA)	577	24	274	90%
23	▲	Dallas-Plano-Irving, TX (MD)	575	30	344	149%
24	▲	Miami-Miami Beach-Kendall, FL (MD)	564	34	365	183%
25	▼	Cincinnati-Middletown, OH-KY-IN (MSA)	539	20	195	57%
26	▼	Nassau-Suffolk, NY (MD)	533	12	-21	-4%
27	▼	Newark-Union, NJ-PA (MD)	532	23	203	62%
28	–	Tampa-St. Petersburg-Clearwater, FL (MSA)	529	28	297	128%
29	▼	Pittsburgh, PA (MSA)	516	19	144	39%
30	▲	San Antonio, TX (MSA)	495	31	270	120%
31	▲	Phoenix-Mesa-Scottsdale, AZ (MSA)	454	39	308	211%
32	▼	Providence-New Bedford-Fall River, RI-MA (MSA)	414	26	138	50%
33	▼	Cleveland-Elyria-Mentor, OH (MSA)	403	29	172	74%
34	▼	San Jose-Sunnyvale-Santa Clara, CA (MSA)	392	22	61	18%
35	–	Nashville-Davidson—Murfreesboro, TN (MSA)	379	35	182	92%
36	▲	Portland-Vancouver-Beaverton, OR-WA (MSA)	368	40	227	161%
37	▲	Fort Worth-Arlington, TX (MD)	360	42	231	179%
38	▲	Denver-Aurora, CO (MSA)	332	41	195	142%
39	▼	Milwaukee-Waukesha-West Allis, WI (MSA)	296	38	117	65%
40	▼	San Francisco-San Mateo-Redwood City, CA (MD)	294	33	85	41%
41	▼	Detroit-Livonia-Dearborn, MI (MD)	290	27	30	12%
42	▲	Charlotte-Gastonia-Concord, NC-SC (MSA)	275	43	153	125%
43	▲	Indianapolis-Carmel, IN (MSA)	266	44	153	135%
44	▲	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	256	45	143	127%
45	▲	Orlando-Kissimmee, FL (MSA)	243	46	184	312%
46	▲	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	240	48	192	400%
47	▼	Kansas City, MO-KS (MSA)	200	36	4	2%
48	▲	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	138	50	138	—
49	–	Las Vegas-Paradise, NV (MSA)	90	49	74	463%
50	▼	Warren-Farmington Hills-Troy, MI (MD)	83	47	25	43%
TOTAL			**35,870**		**16,647**	**87%**

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD).   •   Data is from U.S. Department of Education.   •   "2005" represents Academic Year 2004-05. "1989" represents Academic Year 1988-89. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult.   •   Degree reporting based on 2000 classification of instructional programs.   •   For more information, see page 26 or visit www.atlantahighered.org.

Health Professions and Related Clinical Sciences Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	▲	New York-White Plains-Wayne, NY-NJ (MD)	7,526	2	2,493	50%
2	▲	Philadelphia, PA (MD)	6,095	3	1,911	46%
3	▲	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	5,247	4	1,748	50%
4	▼	Chicago-Naperville-Joliet, IL (MD)	5,233	1	-124	-2%
5	–	Los Angeles-Long Beach-Glendale, CA (MD)	4,259	5	1,136	36%
6	▲	Baltimore-Towson, MD (MSA)	3,124	7	1,381	79%
7	▼	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	2,427	6	661	37%
8	▲	Atlanta-Sandy Springs-Marietta, GA (MSA)	2,319	9	849	58%
9	▲	Nassau-Suffolk, NY (MD)	2,224	22	1,230	124%
10	▼	Houston-Sugar Land-Baytown, TX (MSA)	2,210	8	713	48%
11	▲	Dallas-Plano-Irving, TX (MD)	2,124	15	765	56%
12	▼	Pittsburgh, PA (MSA)	2,113	10	653	45%
13	▼	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	2,027	11	577	40%
14	▲	Newark-Union, NJ-PA (MD)	1,808	23	866	92%
15	▼	Columbus, OH (MSA)	1,791	12	347	24%
16	▲	Kansas City, MO-KS (MSA)	1,705	18	465	38%
17	▼	St. Louis, MO-IL (MSA)	1,697	13	260	18%
18	▼	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	1,609	14	243	18%
19	▲	Seattle-Bellevue-Everett, WA (MD)	1,528	24	596	64%
20	▲	Miami-Miami Beach-Kendall, FL (MD)	1,518	26	692	84%
21	▼	New Orleans-Metairie-Kenner, LA (MSA)	1,447	20	233	19%
22	▼	Milwaukee-Waukesha-West Allis, WI (MSA)	1,396	19	163	13%
23	▲	Denver-Aurora, CO (MSA)	1,319	31	746	130%
24	▼	Detroit-Livonia-Dearborn, MI (MD)	1,231	17	-43	-3%
25	▼	San Francisco-San Mateo-Redwood City, CA (MD)	1,216	16	-86	-7%
26	▲	Santa Ana-Anaheim-Irvine, CA (MD)	1,203	33	698	138%
27	▲	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	1,195	49	1,153	2745%
28	▲	Phoenix-Mesa-Scottsdale, AZ (MSA)	1,128	43	865	329%
29	▼	Indianapolis-Carmel, IN (MSA)	1,108	21	48	5%
30	▼	Cincinnati-Middletown, OH-KY-IN (MSA)	1,095	25	183	20%
30	▲	Nashville-Davidson—Murfreesboro, TN (MSA)	1,095	39	642	142%
32	▲	Orlando-Kissimmee, FL (MSA)	1,034	47	884	589%
33	▼	Riverside-San Bernardino-Ontario, CA (MSA)	1,027	29	300	41%
34	▼	San Antonio, TX (MSA)	954	30	238	33%
35	▼	San Diego-Carlsbad-San Marcos, CA (MSA)	943	34	439	87%
36	▲	Austin-Round Rock, TX (MSA)	887	37	426	92%
37	▲	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	883	41	525	147%
38	▼	Fort Worth-Arlington, TX (MD)	879	36	395	82%
39	▼	Tampa-St. Petersburg-Clearwater, FL (MSA)	869	38	408	89%
40	▼	Oakland-Fremont-Hayward, CA (MD)	859	27	67	8%
41	▼	Cleveland-Elyria-Mentor, OH (MSA)	816	28	37	5%
42	▼	Portland-Vancouver-Beaverton, OR-WA (MSA)	777	35	284	58%
43	▼	San Jose-Sunnyvale-Santa Clara, CA (MSA)	573	32	66	13%
44	▼	Sacramento—Arden-Arcade—Roseville, CA (MSA)	556	42	222	66%
45	▲	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	501	48	392	360%
46	▼	Edison, NJ (MD)	425	45	190	81%
47	▼	Providence-New Bedford-Fall River, RI-MA (MSA)	307	40	-61	-17%
48	▼	Warren-Farmington Hills-Troy, MI (MD)	280	46	64	30%
49	▼	Charlotte-Gastonia-Concord, NC-SC (MSA)	264	44	23	10%
50	–	Las Vegas-Paradise, NV (MSA)	257	50	218	559%
TOTAL			**85,108**		**27,181**	**47%**

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Academic Year 2004-05. "1989" represents Academic Year 1988-89. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • Degree reporting based on 2000 classification of instructional programs. • For more information, see page 26 or visit www.atlantahighered.org.

degrees

Computer and Information Sciences Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	–	New York-White Plains-Wayne, NY-NJ (MD)	3,953	1	1,001	34%
2	⌃	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	3,730	3	2,604	231%
3	⌄	Chicago-Naperville-Joliet, IL (MD)	3,067	2	1,326	76%
4	–	Los Angeles-Long Beach-Glendale, CA (MD)	2,159	4	1,098	103%
5	⌃	Atlanta-Sandy Springs-Marietta, GA (MSA)	1,883	8	1,106	142%
6	⌄	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	1,756	5	781	80%
7	⌄	Baltimore-Towson, MD (MSA)	1,652	6	807	96%
8	⌃	Pittsburgh, PA (MSA)	1,425	11	815	134%
9	⌄	Philadelphia, PA (MD)	1,350	7	553	69%
10	⌃	Santa Ana-Anaheim-Irvine, CA (MD)	1,218	15	787	183%
11	⌃	Denver-Aurora, CO (MSA)	1,024	21	703	219%
12	⌃	Dallas-Plano-Irving, TX (MD)	994	13	438	79%
13	⌄	San Diego-Carlsbad-San Marcos, CA (MSA)	988	10	371	60%
14	⌄	Newark-Union, NJ-PA (MD)	848	9	215	34%
15	⌄	Nassau-Suffolk, NY (MD)	838	12	240	40%
16	⌃	Phoenix-Mesa-Scottsdale, AZ (MSA)	741	23	438	145%
17	–	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	725	17	317	78%
18	⌃	Seattle-Bellevue-Everett, WA (MD)	717	32	490	216%
19	⌃	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	708	26	415	142%
20	⌄	San Francisco-San Mateo-Redwood City, CA (MD)	699	16	272	64%
21	⌄	San Jose-Sunnyvale-Santa Clara, CA (MSA)	685	18	318	87%
22	⌄	Columbus, OH (MSA)	662	14	221	50%
23	⌃	St. Louis, MO-IL (MSA)	628	28	351	127%
24	⌄	Kansas City, MO-KS (MSA)	592	19	258	77%
25	⌃	Edison, NJ (MD)	578	27	301	109%
26	⌄	Austin-Round Rock, TX (MSA)	533	24	231	76%
27	⌃	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	513	48	478	1366%
28	⌄	Oakland-Fremont-Hayward, CA (MD)	506	25	212	72%
29	⌃	Orlando-Kissimmee, FL (MSA)	468	33	270	136%
30	⌄	Miami-Miami Beach-Kendall, FL (MD)	434	20	110	34%
31	⌄	Providence-New Bedford-Fall River, RI-MA (MSA)	403	30	138	52%
32	⌃	Warren-Farmington Hills-Troy, MI (MD)	351	39	238	211%
33	⌃	Sacramento—Arden-Arcade—Roseville, CA (MSA)	339	35	189	126%
34	⌄	Detroit-Livonia-Dearborn, MI (MD)	321	29	47	17%
35	⌃	New Orleans-Metairie-Kenner, LA (MSA)	295	40	184	166%
36	⌃	Riverside-San Bernardino-Ontario, CA (MSA)	290	43	194	202%
37	⌃	Tampa-St. Petersburg-Clearwater, FL (MSA)	286	47	218	321%
38	⌄	Milwaukee-Waukesha-West Allis, WI (MSA)	285	37	158	124%
39	⌄	Houston-Sugar Land-Baytown, TX (MSA)	277	31	40	17%
40	⌃	Indianapolis-Carmel, IN (MSA)	266	42	169	174%
41	⌃	Portland-Vancouver-Beaverton, OR-WA (MSA)	262	46	185	240%
42	⌄	Charlotte-Gastonia-Concord, NC-SC (MSA)	258	41	155	150%
43	⌄	Cincinnati-Middletown, OH-KY-IN (MSA)	231	22	-78	-25%
44	⌄	San Antonio, TX (MSA)	199	38	72	57%
45	⌄	Cleveland-Elyria-Mentor, OH (MSA)	192	34	8	4%
46	⌄	Nashville-Davidson—Murfreesboro, TN (MSA)	191	45	104	120%
47	⌄	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	185	36	42	29%
48	⌄	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	164	44	73	80%
49	⌃	Las Vegas-Paradise, NV (MSA)	148	50	148	—
50	⌄	Fort Worth-Arlington, TX (MD)	128	49	111	653%
TOTAL			**41,145**		**19,922**	**94%**

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Academic Year 2004-05. "1989" represents Academic Year 1988-89. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • Degree reporting based on 2000 classification of instructional programs. • For more information, see page 26 or visit www.atlantahighered.org.

Engineering and Engineering Technologies Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	–	Los Angeles-Long Beach-Glendale, CA (MD)	4,283	1	-143	-3%
2	–	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	3,056	2	-1,112	-27%
3	⌃	Atlanta-Sandy Springs-Marietta, GA (MSA)	2,850	6	762	36%
4	⌄	New York-White Plains-Wayne, NY-NJ (MD)	2,818	3	-430	-13%
5	–	San Jose-Sunnyvale-Santa Clara, CA (MSA)	2,723	5	554	26%
6	⌃	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	2,336	8	338	17%
7	⌃	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	2,176	9	742	52%
8	⌄	Chicago-Naperville-Joliet, IL (MD)	2,168	4	-17	-1%
9	⌄	Philadelphia, PA (MD)	1,825	7	-218	-11%
10	⌃	San Diego-Carlsbad-San Marcos, CA (MSA)	1,563	20	681	77%
11	⌃	Austin-Round Rock, TX (MSA)	1,516	12	319	27%
12	⌄	Pittsburgh, PA (MSA)	1,451	11	94	7%
13	⌃	Oakland-Fremont-Hayward, CA (MD)	1,344	14	250	23%
14	⌄	Columbus, OH (MSA)	1,331	10	-82	-6%
15	⌃	Sacramento—Arden-Arcade—Roseville, CA (MSA)	1,272	21	398	46%
16	⌃	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	1,130	18	185	20%
17	⌄	Seattle-Bellevue-Everett, WA (MD)	1,098	16	60	6%
18	⌃	Detroit-Livonia-Dearborn, MI (MD)	1,087	19	191	21%
19	⌄	Phoenix-Mesa-Scottsdale, AZ (MSA)	1,061	13	-100	-9%
20	⌃	Baltimore-Towson, MD (MSA)	990	33	474	92%
21	⌃	Fort Worth-Arlington, TX (MD)	930	30	370	66%
22	⌃	Dallas-Plano-Irving, TX (MD)	906	37	475	110%
23	⌃	Denver-Aurora, CO (MSA)	885	26	231	35%
23	⌄	Newark-Union, NJ-PA (MD)	885	15	-154	-15%
25	⌃	Orlando-Kissimmee, FL (MSA)	846	35	358	73%
26	⌄	Milwaukee-Waukesha-West Allis, WI (MSA)	805	17	-169	-17%
27	⌃	Miami-Miami Beach-Kendall, FL (MD)	804	32	273	51%
28	⌄	Cincinnati-Middletown, OH-KY-IN (MSA)	787	23	4	1%
29	⌄	Santa Ana-Anaheim-Irvine, CA (MD)	785	28	198	34%
30	⌄	Edison, NJ (MD)	741	25	47	7%
31	⌄	Cleveland-Elyria-Mentor, OH (MSA)	701	22	-126	-15%
32	⌃	St. Louis, MO-IL (MSA)	697	34	206	42%
33	⌄	Tampa-St. Petersburg-Clearwater, FL (MSA)	682	29	110	19%
34	⌄	Warren-Farmington Hills-Troy, MI (MD)	598	27	-10	-2%
35	⌃	Nashville-Davidson—Murfreesboro, TN (MSA)	588	38	182	45%
36	–	Houston-Sugar Land-Baytown, TX (MSA)	576	36	115	25%
37	⌄	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	574	31	40	7%
38	⌄	Nassau-Suffolk, NY (MD)	446	24	-290	-39%
39	–	Portland-Vancouver-Beaverton, OR-WA (MSA)	406	39	36	10%
40	⌃	Charlotte-Gastonia-Concord, NC-SC (MSA)	392	43	140	56%
41	–	New Orleans-Metairie-Kenner, LA (MSA)	338	41	-7	-2%
42	⌄	Indianapolis-Carmel, IN (MSA)	262	40	-92	-26%
43	⌄	Providence-New Bedford-Fall River, RI-MA (MSA)	260	42	-51	-16%
43	⌃	San Antonio, TX (MSA)	260	46	161	163%
45	⌄	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	224	44	7	3%
46	⌃	Riverside-San Bernardino-Ontario, CA (MSA)	156	49	144	1200%
47	–	Kansas City, MO-KS (MSA)	146	47	53	57%
48	⌄	San Francisco-San Mateo-Redwood City, CA (MD)	144	45	24	20%
49	⌄	Las Vegas-Paradise, NV (MSA)	137	48	82	149%
50	–	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	11	50	7	175%
TOTAL			**54,050**		**5,310**	**11%**

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Academic Year 2004-05. "1989" represents Academic Year 1988-89. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • Degree reporting based on 2000 classification of instructional programs. • For more information, see page 26 or visit www.atlantahighered.org.

degrees

Mathematics and Statistics Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	▲	Los Angeles-Long Beach-Glendale, CA (MD)	842	2	279	50%
2	▼	New York-White Plains-Wayne, NY-NJ (MD)	733	1	123	20%
3	▲	Chicago-Naperville-Joliet, IL (MD)	639	4	155	32%
4	▼	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	591	3	98	20%
5	▲	Oakland-Fremont-Hayward, CA (MD)	416	7	138	50%
6	▲	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	373	9	117	46%
7	▼	Philadelphia, PA (MD)	362	6	67	23%
8	▲	Atlanta-Sandy Springs-Marietta, GA (MSA)	320	11	94	42%
9	▼	Nassau-Suffolk, NY (MD)	307	8	46	18%
10	▲	Austin-Round Rock, TX (MSA)	305	19	169	124%
11	▲	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	293	15	115	65%
12	–	San Diego-Carlsbad-San Marcos, CA (MSA)	282	12	70	33%
13	▼	Pittsburgh, PA (MSA)	246	5	-63	-20%
14	▲	San Jose-Sunnyvale-Santa Clara, CA (MSA)	240	17	91	61%
15	▼	Seattle-Bellevue-Everett, WA (MD)	234	13	30	15%
16	▲	Baltimore-Towson, MD (MSA)	230	18	82	55%
17	▼	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	200	10	-54	-21%
18	▲	Dallas-Plano-Irving, TX (MD)	196	25	77	65%
19	▲	Edison, NJ (MD)	193	24	73	61%
20	▲	Newark-Union, NJ-PA (MD)	190	30	103	118%
21	▼	Columbus, OH (MSA)	186	16	27	17%
22	▼	Denver-Aurora, CO (MSA)	184	20	49	36%
23	▲	Santa Ana-Anaheim-Irvine, CA (MD)	174	27	65	60%
24	▲	Riverside-San Bernardino-Ontario, CA (MSA)	164	31	90	122%
25	▼	Nashville-Davidson—Murfreesboro, TN (MSA)	161	23	39	32%
26	▼	Providence-New Bedford-Fall River, RI-MA (MSA)	143	22	15	12%
27	▼	Houston-Sugar Land-Baytown, TX (MSA)	142	26	27	23%
28	▼	Sacramento—Arden-Arcade—Roseville, CA (MSA)	133	21	1	1%
29	▼	Cincinnati-Middletown, OH-KY-IN (MSA)	127	14	-54	-30%
30	▼	St. Louis, MO-IL (MSA)	122	28	18	17%
31	▲	Cleveland-Elyria-Mentor, OH (MSA)	104	36	53	104%
32	▲	Portland-Vancouver-Beaverton, OR-WA (MSA)	93	35	33	55%
33	▲	Detroit-Livonia-Dearborn, MI (MD)	88	34	23	35%
34	▲	San Antonio, TX (MSA)	81	41	39	93%
35	▲	Phoenix-Mesa-Scottsdale, AZ (MSA)	71	37	21	42%
36	▲	New Orleans-Metairie-Kenner, LA (MSA)	68	39	21	45%
37	▲	Orlando-Kissimmee, FL (MSA)	61	43	21	53%
38	▲	San Francisco-San Mateo-Redwood City, CA (MD)	58	42	16	38%
39	▼	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	56	38	8	17%
40	▼	Milwaukee-Waukesha-West Allis, WI (MSA)	53	33	-13	-20%
41	▲	Tampa-St. Petersburg-Clearwater, FL (MSA)	52	44	12	30%
42	▼	Charlotte-Gastonia-Concord, NC-SC (MSA)	51	32	-19	-27%
42	▼	Fort Worth-Arlington, TX (MD)	51	29	-40	-44%
44	▲	Indianapolis-Carmel, IN (MSA)	47	48	26	124%
44	▲	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	47	47	12	34%
46	–	Miami-Miami Beach-Kendall, FL (MD)	45	46	10	29%
47	▼	Kansas City, MO-KS (MSA)	40	45	4	11%
48	▼	Warren-Farmington Hills-Troy, MI (MD)	31	40	-13	-30%
49	–	Las Vegas-Paradise, NV (MSA)	23	49	18	360%
50	–	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	0	50	-1	-100%
TOTAL			**9,848**		**2,318**	**31%**

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Physical Sciences Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	–	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	891	1	65	8%
2	–	Los Angeles-Long Beach-Glendale, CA (MD)	786	2	32	4%
3	⋀	New York-White Plains-Wayne, NY-NJ (MD)	725	4	103	17%
4	⋁	Chicago-Naperville-Joliet, IL (MD)	622	3	-38	-6%
5	⋀	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	582	7	173	42%
6	⋀	San Diego-Carlsbad-San Marcos, CA (MSA)	465	12	142	44%
7	⋁	Philadelphia, PA (MD)	462	5	-15	-3%
7	⋀	Seattle-Bellevue-Everett, WA (MD)	462	11	122	36%
9	⋀	Atlanta-Sandy Springs-Marietta, GA (MSA)	457	10	104	29%
10	⋁	Pittsburgh, PA (MSA)	420	9	59	16%
11	⋁	Oakland-Fremont-Hayward, CA (MD)	416	8	23	6%
12	⋁	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	355	6	-70	-16%
13	⋀	Austin-Round Rock, TX (MSA)	316	14	16	5%
13	⋀	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	316	15	61	24%
15	⋁	San Jose-Sunnyvale-Santa Clara, CA (MSA)	301	13	-4	-1%
16	⋀	Baltimore-Towson, MD (MSA)	254	22	91	56%
17	⋀	Santa Ana-Anaheim-Irvine, CA (MD)	227	26	74	48%
18	⋀	Sacramento—Arden-Arcade—Roseville, CA (MSA)	213	23	57	37%
19	⋁	Columbus, OH (MSA)	204	17	-13	-6%
20	⋁	Cincinnati-Middletown, OH-KY-IN (MSA)	203	16	-33	-14%
21	⋁	Nassau-Suffolk, NY (MD)	195	18	-19	-9%
22	⋁	Dallas-Plano-Irving, TX (MD)	185	20	4	2%
23	⋁	Houston-Sugar Land-Baytown, TX (MSA)	184	21	15	9%
24	⋀	New Orleans-Metairie-Kenner, LA (MSA)	175	28	34	24%
25	⋀	St. Louis, MO-IL (MSA)	171	29	31	22%
26	⋁	Cleveland-Elyria-Mentor, OH (MSA)	166	19	-43	-21%
27	⋀	Portland-Vancouver-Beaverton, OR-WA (MSA)	152	37	62	69%
28	⋀	Nashville-Davidson—Murfreesboro, TN (MSA)	146	35	45	45%
29	⋀	Denver-Aurora, CO (MSA)	140	30	5	4%
29	⋁	Edison, NJ (MD)	140	25	-14	-9%
31	⋀	Miami-Miami Beach-Kendall, FL (MD)	135	33	22	19%
31	⋁	Newark-Union, NJ-PA (MD)	135	24	-20	-13%
33	⋁	Providence-New Bedford-Fall River, RI-MA (MSA)	134	32	18	16%
34	⋀	Riverside-San Bernardino-Ontario, CA (MSA)	131	39	52	66%
35	⋀	Tampa-St. Petersburg-Clearwater, FL (MSA)	130	38	41	46%
36	⋀	Indianapolis-Carmel, IN (MSA)	108	41	35	48%
37	⋁	Phoenix-Mesa-Scottsdale, AZ (MSA)	105	36	10	11%
38	⋀	San Antonio, TX (MSA)	104	45	56	117%
39	⋁	Milwaukee-Waukesha-West Allis, WI (MSA)	96	31	-32	-25%
40	⋁	Detroit-Livonia-Dearborn, MI (MD)	90	27	-56	-38%
41	⋀	Charlotte-Gastonia-Concord, NC-SC (MSA)	86	44	27	46%
42	⋀	Kansas City, MO-KS (MSA)	79	43	18	30%
43	⋁	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	78	40	3	4%
44	⋁	San Francisco-San Mateo-Redwood City, CA (MD)	73	42	5	7%
45	⋀	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	65	48	36	124%
46	⋁	Fort Worth-Arlington, TX (MD)	62	34	-50	-45%
47	⋀	Orlando-Kissimmee, FL (MSA)	40	49	12	43%
48	⋁	Las Vegas-Paradise, NV (MSA)	36	46	6	20%
49	⋁	Warren-Farmington Hills-Troy, MI (MD)	32	47	2	7%
50	–	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	1	50	-3	-75%
TOTAL			**12,051**		**1,251**	**12%**

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degrees

Architecture and Related Services Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	–	New York-White Plains-Wayne, NY-NJ (MD)	831	1	156	23%
2	–	Los Angeles-Long Beach-Glendale, CA (MD)	811	2	284	54%
3	–	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	648	3	161	33%
4	⋀	Philadelphia, PA (MD)	451	5	142	46%
5	⋁	Oakland-Fremont-Hayward, CA (MD)	356	4	-29	-8%
6	⋀	Atlanta-Sandy Springs-Marietta, GA (MSA)	315	7	29	10%
7	⋀	Chicago-Naperville-Joliet, IL (MD)	304	13	136	81%
8	⋀	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	270	19	142	111%
9	⋁	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	262	8	1	0%
10	⋁	Providence-New Bedford-Fall River, RI-MA (MSA)	254	6	-34	-12%
11	⋀	Phoenix-Mesa-Scottsdale, AZ (MSA)	248	18	114	85%
12	⋀	Cincinnati-Middletown, OH-KY-IN (MSA)	225	15	78	53%
13	⋀	Fort Worth-Arlington, TX (MD)	204	17	67	49%
14	⋀	Denver-Aurora, CO (MSA)	185	23	80	76%
15	⋁	Seattle-Bellevue-Everett, WA (MD)	175	11	-34	-16%
16	–	Milwaukee-Waukesha-West Allis, WI (MSA)	170	16	23	16%
17	⋀	Warren-Farmington Hills-Troy, MI (MD)	164	20	49	43%
18	⋁	Columbus, OH (MSA)	153	14	-13	-8%
19	⋁	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	148	10	-69	-32%
20	⋀	Houston-Sugar Land-Baytown, TX (MSA)	147	26	70	91%
21	⋀	Miami-Miami Beach-Kendall, FL (MD)	146	22	36	33%
22	⋀	New Orleans-Metairie-Kenner, LA (MSA)	140	29	75	115%
23	⋁	Austin-Round Rock, TX (MSA)	131	9	-108	-45%
24	⋁	St. Louis, MO-IL (MSA)	117	21	5	4%
25	⋀	Newark-Union, NJ-PA (MD)	111	27	34	44%
26	⋀	Santa Ana-Anaheim-Irvine, CA (MD)	100	41	100	—
27	⋀	Sacramento—Arden-Arcade—Roseville, CA (MSA)	85	33	42	98%
28	⋁	Charlotte-Gastonia-Concord, NC-SC (MSA)	82	25	-9	-10%
29	⋀	San Diego-Carlsbad-San Marcos, CA (MSA)	77	39	71	1183%
30	⋀	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	74	41	74	—
31	⋁	Edison, NJ (MD)	73	24	-28	-28%
32	–	San Antonio, TX (MSA)	72	32	27	60%
33	⋀	Portland-Vancouver-Beaverton, OR-WA (MSA)	68	37	47	224%
34	⋁	Nassau-Suffolk, NY (MD)	63	12	-116	-65%
35	⋁	Pittsburgh, PA (MSA)	61	28	-8	-12%
36	⋁	Dallas-Plano-Irving, TX (MD)	58	34	17	41%
37	⋀	Las Vegas-Paradise, NV (MSA)	57	41	57	—
38	⋀	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	54	41	54	—
39	⋁	Detroit-Livonia-Dearborn, MI (MD)	50	36	21	72%
40	⋁	Baltimore-Towson, MD (MSA)	32	35	-4	-11%
41	–	Tampa-St. Petersburg-Clearwater, FL (MSA)	29	41	29	—
42	⋁	San Jose-Sunnyvale-Santa Clara, CA (MSA)	20	30	-38	-66%
43	⋁	San Francisco-San Mateo-Redwood City, CA (MD)	13	31	-36	-73%
44	⋀	Kansas City, MO-KS (MSA)	6	41	6	—
45	⋀	Indianapolis-Carmel, IN (MSA)	4	41	4	—
46	⋁	Cleveland-Elyria-Mentor, OH (MSA)	0	40	-3	-100%
46	⋁	Nashville-Davidson—Murfreesboro, TN (MSA)	0	38	-12	-100%
46	–	Orlando-Kissimmee, FL (MSA)	0	41	0	—
46	–	Riverside-San Bernardino-Ontario, CA (MSA)	0	41	0	—
46	–	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	0	41	0	—
TOTAL			**8,044**		1,690	26.6%

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Business, Management and Marketing Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	–	New York-White Plains-Wayne, NY-NJ (MD)	19,583	1	6,030	44%
2	–	Chicago-Naperville-Joliet, IL (MD)	17,412	2	7,427	74%
3	–	Los Angeles-Long Beach-Glendale, CA (MD)	12,905	3	3,852	43%
4	–	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	10,274	4	1,805	21%
5	–	Philadelphia, PA (MD)	10,268	5	3,251	46%
6	–	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	10,056	6	4,676	87%
7	–	Atlanta-Sandy Springs-Marietta, GA (MSA)	8,638	7	3,632	73%
8	–	St. Louis, MO-IL (MSA)	8,045	8	3,681	84%
9	⌃	Dallas-Plano-Irving, TX (MD)	6,054	12	2,745	83%
10	⌃	Phoenix-Mesa-Scottsdale, AZ (MSA)	5,562	17	2,851	105%
11	⌃	Santa Ana-Anaheim-Irvine, CA (MD)	5,051	31	3,321	192%
12	⌃	Denver-Aurora, CO (MSA)	4,856	25	2,706	126%
13	–	Pittsburgh, PA (MSA)	4,685	13	1,473	46%
14	⌃	Tampa-St. Petersburg-Clearwater, FL (MSA)	4,582	21	1,971	75%
15	⌄	San Diego-Carlsbad-San Marcos, CA (MSA)	4,574	9	523	13%
16	⌃	Columbus, OH (MSA)	4,547	20	1,869	70%
17	⌃	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	4,414	18	1,718	64%
18	⌃	Miami-Miami Beach-Kendall, FL (MD)	4,325	24	2,153	99%
19	⌃	Kansas City, MO-KS (MSA)	3,893	29	1,978	103%
20	⌄	Nassau-Suffolk, NY (MD)	3,870	10	219	6%
21	⌃	Seattle-Bellevue-Everett, WA (MD)	3,777	30	2,000	113%
22	⌄	Austin-Round Rock, TX (MSA)	3,760	11	320	9%
23	⌃	San Jose-Sunnyvale-Santa Clara, CA (MSA)	3,736	28	1,756	89%
24	⌄	Cincinnati-Middletown, OH-KY-IN (MSA)	3,621	14	433	14%
25	⌃	Milwaukee-Waukesha-West Allis, WI (MSA)	3,570	26	1,455	69%
26	⌃	Orlando-Kissimmee, FL (MSA)	3,390	41	2,137	171%
27	⌃	Houston-Sugar Land-Baytown, TX (MSA)	3,292	35	1,814	123%
28	⌄	Newark-Union, NJ-PA (MD)	3,191	16	117	4%
29	⌄	San Francisco-San Mateo-Redwood City, CA (MD)	3,153	15	-31	-1%
30	⌄	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	3,000	23	819	38%
31	⌃	New Orleans-Metairie-Kenner, LA (MSA)	2,802	36	1,357	94%
32	⌄	Oakland-Fremont-Hayward, CA (MD)	2,747	22	561	26%
33	⌃	Nashville-Davidson—Murfreesboro, TN (MSA)	2,667	38	1,310	97%
34	⌃	Warren-Farmington Hills-Troy, MI (MD)	2,665	43	1,506	130%
35	⌄	Providence-New Bedford-Fall River, RI-MA (MSA)	2,663	19	-25	-1%
36	⌃	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	2,500	47	1,672	202%
37	–	Riverside-San Bernardino-Ontario, CA (MSA)	2,478	37	1,059	75%
38	⌃	San Antonio, TX (MSA)	2,319	39	1,002	76%
39	⌄	Baltimore-Towson, MD (MSA)	2,217	27	113	5%
40	⌃	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	2,102	48	1,315	167%
41	⌃	Portland-Vancouver-Beaverton, OR-WA (MSA)	2,097	42	861	70%
42	⌄	Cleveland-Elyria-Mentor, OH (MSA)	2,048	33	540	36%
43	⌄	Fort Worth-Arlington, TX (MD)	2,012	34	531	36%
44	⌄	Sacramento—Arden-Arcade—Roseville, CA (MSA)	1,927	40	662	52%
45	⌄	Charlotte-Gastonia-Concord, NC-SC (MSA)	1,619	44	544	51%
46	⌃	Las Vegas-Paradise, NV (MSA)	1,556	50	941	153%
47	⌄	Detroit-Livonia-Dearborn, MI (MD)	1,435	32	-113	-7%
48	⌃	Indianapolis-Carmel, IN (MSA)	1,203	49	578	92%
49	⌄	Edison, NJ (MD)	949	45	-125	-12%
50	⌄	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	927	46	-102	-10%
TOTAL			**229,017**		82,888	57%

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Communication, Journalism and Communications Technologies Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	–	New York-White Plains-Wayne, NY-NJ (MD)	3,984	1	1,811	83%
2	▲	Chicago-Naperville-Joliet, IL (MD)	2,406	4	1,072	80%
3	–	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	2,284	3	650	40%
4	▼	Los Angeles-Long Beach-Glendale, CA (MD)	2,121	2	385	22%
5	–	Austin-Round Rock, TX (MSA)	1,695	5	557	49%
6	–	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	1,661	6	681	69%
7	–	Philadelphia, PA (MD)	1,251	7	404	48%
8	▲	Atlanta-Sandy Springs-Marietta, GA (MSA)	1,205	9	535	80%
9	▲	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	1,197	15	757	172%
10	–	Phoenix-Mesa-Scottsdale, AZ (MSA)	1,020	10	453	80%
11	▲	Santa Ana-Anaheim-Irvine, CA (MD)	951	12	446	88%
12	▼	San Diego-Carlsbad-San Marcos, CA (MSA)	899	11	373	71%
13	▲	Sacramento—Arden-Arcade—Roseville, CA (MSA)	785	25	486	163%
14	–	Milwaukee-Waukesha-West Allis, WI (MSA)	764	14	304	66%
15	▼	Columbus, OH (MSA)	733	8	-73	-9%
16	–	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	729	16	302	71%
17	–	San Francisco-San Mateo-Redwood City, CA (MD)	711	17	289	68%
18	▲	Miami-Miami Beach-Kendall, FL (MD)	693	29	430	163%
19	–	Dallas-Plano-Irving, TX (MD)	667	19	276	71%
19	▲	St. Louis, MO-IL (MSA)	667	30	426	177%
21	▲	Nassau-Suffolk, NY (MD)	651	23	301	86%
22	–	Edison, NJ (MD)	647	22	286	79%
23	▲	Pittsburgh, PA (MSA)	636	24	294	86%
24	▼	Baltimore-Towson, MD (MSA)	630	21	268	74%
25	▲	Seattle-Bellevue-Everett, WA (MD)	629	26	336	115%
26	▲	Denver-Aurora, CO (MSA)	539	31	315	141%
27	▲	Nashville-Davidson—Murfreesboro, TN (MSA)	525	33	306	140%
28	▲	Newark-Union, NJ-PA (MD)	521	41	396	317%
29	▼	Fort Worth-Arlington, TX (MD)	484	13	13	3%
30	▼	San Jose-Sunnyvale-Santa Clara, CA (MSA)	463	18	54	13%
31	▼	Cincinnati-Middletown, OH-KY-IN (MSA)	453	20	65	17%
32	▼	Orlando-Kissimmee, FL (MSA)	446	28	167	60%
33	▲	Indianapolis-Carmel, IN (MSA)	417	36	243	140%
34	▲	Oakland-Fremont-Hayward, CA (MD)	416	37	250	151%
35	▼	New Orleans-Metairie-Kenner, LA (MSA)	409	27	118	41%
36	▲	Charlotte-Gastonia-Concord, NC-SC (MSA)	359	38	193	116%
37	▼	Tampa-St. Petersburg-Clearwater, FL (MSA)	355	34	142	67%
38	▲	Portland-Vancouver-Beaverton, OR-WA (MSA)	335	42	215	179%
39	▼	Cleveland-Elyria-Mentor, OH (MSA)	314	32	95	43%
40	▲	Providence-New Bedford-Fall River, RI-MA (MSA)	281	44	196	231%
41	▼	Detroit-Livonia-Dearborn, MI (MD)	277	35	83	43%
42	▲	San Antonio, TX (MSA)	257	43	154	150%
43	▲	Las Vegas-Paradise, NV (MSA)	235	48	188	400%
44	▼	Warren-Farmington Hills-Troy, MI (MD)	216	40	72	50%
45	–	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	167	45	88	111%
46	▼	Kansas City, MO-KS (MSA)	161	39	8	5%
47	▼	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	150	46	90	150%
48	▼	Houston-Sugar Land-Baytown, TX (MSA)	148	47	89	151%
49	–	Riverside-San Bernardino-Ontario, CA (MSA)	144	49	112	350%
50	–	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	4	50	4	—
TOTAL			**37,692**		**15,705**	**71%**

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Academic Year 2004-05. "1989" represents Academic Year 1988-89. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • Degree reporting based on 2000 classification of instructional programs. • For more information, see page 26 or visit www.atlantahighered.org.

Education Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	–	New York-White Plains-Wayne, NY-NJ (MD)	13,202	1	7,759	143%
2	–	Chicago-Naperville-Joliet, IL (MD)	10,118	2	5,357	113%
3	–	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	7,728	3	3,230	72%
4	⋀	San Diego-Carlsbad-San Marcos, CA (MSA)	7,160	8	5,130	253%
5	⋁	Los Angeles-Long Beach-Glendale, CA (MD)	5,830	4	2,739	89%
6	–	Philadelphia, PA (MD)	4,984	6	2,505	101%
7	–	Nassau-Suffolk, NY (MD)	4,704	7	2,511	115%
8	⋁	Atlanta-Sandy Springs-Marietta, GA (MSA)	4,246	5	1,250	42%
9	⋀	Detroit-Livonia-Dearborn, MI (MD)	3,964	21	3,024	322%
10	⋀	Phoenix-Mesa-Scottsdale, AZ (MSA)	3,391	20	2,333	221%
11	⋀	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	3,262	18	2,008	160%
12	⋀	St. Louis, MO-IL (MSA)	2,927	16	1,441	97%
13	⋁	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	2,877	10	979	52%
14	⋀	Portland-Vancouver-Beaverton, OR-WA (MSA)	2,651	24	1,827	222%
15	⋀	Baltimore-Towson, MD (MSA)	2,542	23	1,689	198%
16	⋁	Pittsburgh, PA (MSA)	2,335	12	681	41%
17	⋁	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	2,283	15	750	49%
18	⋁	Cincinnati-Middletown, OH-KY-IN (MSA)	2,137	11	345	19%
19	⋀	Santa Ana-Anaheim-Irvine, CA (MD)	2,133	32	1,471	222%
20	⋀	Newark-Union, NJ-PA (MD)	2,098	22	1,214	137%
21	⋀	Seattle-Bellevue-Everett, WA (MD)	1,723	42	1,243	259%
22	⋁	Dallas-Plano-Irving, TX (MD)	1,698	9	-265	-13%
23	⋁	Nashville-Davidson—Murfreesboro, TN (MSA)	1,639	14	69	4%
24	⋀	Miami-Miami Beach-Kendall, FL (MD)	1,586	26	842	113%
25	⋁	Tampa-St. Petersburg-Clearwater, FL (MSA)	1,575	17	319	25%
26	⋁	Columbus, OH (MSA)	1,470	13	-110	-7%
27	–	Milwaukee-Waukesha-West Allis, WI (MSA)	1,420	27	683	93%
28	⋀	Orlando-Kissimmee, FL (MSA)	1,199	30	510	74%
29	⋀	Providence-New Bedford-Fall River, RI-MA (MSA)	1,179	34	540	85%
30	⋀	Kansas City, MO-KS (MSA)	1,161	36	555	92%
31	⋀	Edison, NJ (MD)	1,157	38	639	123%
32	⋀	San Jose-Sunnyvale-Santa Clara, CA (MSA)	1,153	44	705	157%
33	⋀	Denver-Aurora, CO (MSA)	1,134	40	635	127%
34	⋀	Las Vegas-Paradise, NV (MSA)	1,100	50	810	279%
35	⋀	Cleveland-Elyria-Mentor, OH (MSA)	1,099	45	663	152%
36	⋁	Houston-Sugar Land-Baytown, TX (MSA)	1,030	35	394	62%
36	⋁	San Francisco-San Mateo-Redwood City, CA (MD)	1,030	25	211	26%
38	⋁	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	936	28	217	30%
39	⋀	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	932	48	549	143%
40	⋀	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	900	31	229	34%
41	⋁	Charlotte-Gastonia-Concord, NC-SC (MSA)	899	29	186	26%
42	⋁	Warren-Farmington Hills-Troy, MI (MD)	864	41	378	78%
43	⋀	Riverside-San Bernardino-Ontario, CA (MSA)	831	47	436	110%
44	⋀	Sacramento—Arden-Arcade—Roseville, CA (MSA)	801	46	387	93%
45	⋁	Austin-Round Rock, TX (MSA)	793	19	-451	-36%
46	⋁	San Antonio, TX (MSA)	716	43	250	54%
47	⋁	Indianapolis-Carmel, IN (MSA)	686	33	27	4%
48	⋁	Oakland-Fremont-Hayward, CA (MD)	666	37	130	24%
49	⋁	New Orleans-Metairie-Kenner, LA (MSA)	575	39	59	11%
50	⋁	Fort Worth-Arlington, TX (MD)	502	49	170	51%
TOTAL			**123,026**		**59,253**	**93%**

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Academic Year 2004-05. "1989" represents Academic Year 1988-89. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • Degree reporting based on 2000 classification of instructional programs. • For more information, see page 26 or visit www.atlantahighered.org.

English Language and Literature / Letters Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	–	New York-White Plains-Wayne, NY-NJ (MD)	2,559	1	633	33%
2	▲	Los Angeles-Long Beach-Glendale, CA (MD)	2,449	3	800	49%
3	▼	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	1,601	2	-62	-4%
4	▲	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	1,401	5	337	32%
5	▼	Chicago-Naperville-Joliet, IL (MD)	1,308	4	-62	-5%
6	–	Philadelphia, PA (MD)	1,097	6	149	16%
7	▲	Pittsburgh, PA (MSA)	990	10	327	49%
8	▲	Atlanta-Sandy Springs-Marietta, GA (MSA)	914	12	340	59%
9	▲	San Diego-Carlsbad-San Marcos, CA (MSA)	847	14	347	69%
10	▲	Austin-Round Rock, TX (MSA)	841	17	444	112%
11	▲	Cincinnati-Middletown, OH-KY-IN (MSA)	817	18	421	106%
12	▼	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	784	11	178	29%
13	▼	Oakland-Fremont-Hayward, CA (MD)	722	8	4	1%
14	▲	San Francisco-San Mateo-Redwood City, CA (MD)	619	24	289	88%
15	▼	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	615	7	-263	-30%
16	▼	Seattle-Bellevue-Everett, WA (MD)	595	9	-83	-12%
17	▲	Santa Ana-Anaheim-Irvine, CA (MD)	586	22	239	69%
18	▲	Tampa-St. Petersburg-Clearwater, FL (MSA)	520	28	255	96%
19	▲	Baltimore-Towson, MD (MSA)	495	26	215	77%
20	–	Sacramento—Arden-Arcade—Roseville, CA (MSA)	475	20	112	31%
21	▼	Columbus, OH (MSA)	460	16	53	13%
22	▼	Nassau-Suffolk, NY (MD)	446	19	60	16%
23	▼	Newark-Union, NJ-PA (MD)	434	21	75	21%
24	▼	Providence-New Bedford-Fall River, RI-MA (MSA)	422	13	-125	-23%
25	▲	Riverside-San Bernardino-Ontario, CA (MSA)	413	44	297	256%
26	▲	Dallas-Plano-Irving, TX (MD)	393	29	139	55%
27	▼	Edison, NJ (MD)	371	15	-79	-18%
28	▼	San Jose-Sunnyvale-Santa Clara, CA (MSA)	362	25	38	12%
29	▼	St. Louis, MO-IL (MSA)	355	23	24	7%
30	▲	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	352	34	176	100%
31	▲	Denver-Aurora, CO (MSA)	333	41	189	131%
32	▼	Portland-Vancouver-Beaverton, OR-WA (MSA)	323	27	43	15%
33	▲	Miami-Miami Beach-Kendall, FL (MD)	318	38	155	95%
34	▲	Orlando-Kissimmee, FL (MSA)	313	46	216	223%
35	▼	Nashville-Davidson—Murfreesboro, TN (MSA)	303	30	73	32%
36	▲	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	298	45	197	195%
37	▲	San Antonio, TX (MSA)	290	42	147	103%
38	▼	Cleveland-Elyria-Mentor, OH (MSA)	278	31	70	34%
39	▼	Milwaukee-Waukesha-West Allis, WI (MSA)	275	37	108	65%
40	▲	Houston-Sugar Land-Baytown, TX (MSA)	258	43	132	105%
41	▼	Phoenix-Mesa-Scottsdale, AZ (MSA)	253	39	93	58%
42	▼	Charlotte-Gastonia-Concord, NC-SC (MSA)	241	32	53	28%
43	▼	New Orleans-Metairie-Kenner, LA (MSA)	239	35	64	37%
44	▼	Indianapolis-Carmel, IN (MSA)	198	36	30	18%
45	▼	Detroit-Livonia-Dearborn, MI (MD)	180	40	24	15%
46	▼	Fort Worth-Arlington, TX (MD)	176	33	-7	-4%
47	▲	Warren-Farmington Hills-Troy, MI (MD)	110	48	31	39%
48	▼	Kansas City, MO-KS (MSA)	103	47	19	23%
49	–	Las Vegas-Paradise, NV (MSA)	77	49	58	305%
50	–	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	4	50	4	—
TOTAL			**28,813**		**6,977**	**32%**

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Foreign Languages / Literatures and Linguistics Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	▲	Los Angeles-Long Beach-Glendale, CA (MD)	1,024	3	654	177%
2	▼	New York-White Plains-Wayne, NY-NJ (MD)	1,001	1	424	73%
3	▼	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	644	2	261	68%
4	▲	Chicago-Naperville-Joliet, IL (MD)	643	5	359	126%
5	▼	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	595	4	239	67%
6	–	Philadelphia, PA (MD)	465	6	229	97%
7	▲	Atlanta-Sandy Springs-Marietta, GA (MSA)	464	10	297	178%
8	▼	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	459	7	264	135%
9	▼	Austin-Round Rock, TX (MSA)	446	8	260	140%
10	▲	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	426	14	296	228%
11	–	Seattle-Bellevue-Everett, WA (MD)	394	11	229	139%
12	–	Columbus, OH (MSA)	390	12	229	142%
13	▼	Oakland-Fremont-Hayward, CA (MD)	387	9	203	110%
14	▲	Sacramento—Arden-Arcade—Roseville, CA (MSA)	356	20	249	233%
15	▲	Dallas-Plano-Irving, TX (MD)	345	29	277	407%
16	–	San Diego-Carlsbad-San Marcos, CA (MSA)	343	16	226	193%
17	▲	Portland-Vancouver-Beaverton, OR-WA (MSA)	238	27	158	198%
18	▼	Edison, NJ (MD)	225	13	74	49%
19	▲	Santa Ana-Anaheim-Irvine, CA (MD)	213	26	131	160%
20	▼	San Jose-Sunnyvale-Santa Clara, CA (MSA)	206	18	95	86%
21	▲	Nashville-Davidson—Murfreesboro, TN (MSA)	202	42	170	531%
21	▼	Pittsburgh, PA (MSA)	202	19	94	87%
23	▼	St. Louis, MO-IL (MSA)	196	15	72	58%
24	▲	Phoenix-Mesa-Scottsdale, AZ (MSA)	191	25	103	117%
25	▲	Providence-New Bedford-Fall River, RI-MA (MSA)	182	28	102	128%
26	▲	Milwaukee-Waukesha-West Allis, WI (MSA)	179	30	112	167%
27	▼	Cincinnati-Middletown, OH-KY-IN (MSA)	177	21	72	69%
28	▼	Newark-Union, NJ-PA (MD)	172	24	83	93%
29	▲	New Orleans-Metairie-Kenner, LA (MSA)	169	32	116	219%
30	▲	Riverside-San Bernardino-Ontario, CA (MSA)	154	36	110	250%
31	▼	San Francisco-San Mateo-Redwood City, CA (MD)	145	23	54	59%
32	▲	Indianapolis-Carmel, IN (MSA)	131	44	101	337%
33	▼	Nassau-Suffolk, NY (MD)	130	17	17	15%
34	▲	San Antonio, TX (MSA)	125	37	82	191%
35	▼	Baltimore-Towson, MD (MSA)	119	22	28	31%
36	▲	Denver-Aurora, CO (MSA)	108	43	78	260%
37	▼	Charlotte-Gastonia-Concord, NC-SC (MSA)	104	35	58	126%
38	▼	Cleveland-Elyria-Mentor, OH (MSA)	103	33	53	106%
39	▼	Fort Worth-Arlington, TX (MD)	100	31	47	89%
39	–	Miami-Miami Beach-Kendall, FL (MD)	100	39	62	163%
41	▼	Houston-Sugar Land-Baytown, TX (MSA)	91	34	44	94%
42	▼	Detroit-Livonia-Dearborn, MI (MD)	77	40	42	120%
43	▼	Tampa-St. Petersburg-Clearwater, FL (MSA)	56	38	17	44%
44	▲	Warren-Farmington Hills-Troy, MI (MD)	43	47	28	187%
45	▼	Orlando-Kissimmee, FL (MSA)	41	41	8	24%
46	–	Kansas City, MO-KS (MSA)	40	46	20	100%
47	▼	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	39	45	12	44%
48	▲	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	34	49	33	3300%
49	▼	Las Vegas-Paradise, NV (MSA)	25	48	20	400%
50	–	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	0	50	0	—
TOTAL			**12,699**		**6,992**	**123%**

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degrees

Theology and Religious Vocations Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	▲	**New York-White Plains-Wayne, NY-NJ (MD)**	**1,282**	2	434	51%
2	▲	**Los Angeles-Long Beach-Glendale, CA (MD)**	**1,242**	3	494	66%
3	▼	**Chicago-Naperville-Joliet, IL (MD)**	**1,196**	1	159	15%
4	▲	**Minneapolis-St. Paul-Bloomington, MN-WI (MSA)**	**1,000**	7	550	122%
5	▲	**Edison, NJ (MD)**	**836**	13	593	244%
6	▲	**Atlanta-Sandy Springs-Marietta, GA (MSA)**	**667**	9	314	89%
7	▼	**Dallas-Plano-Irving, TX (MD)**	**659**	6	173	36%
8	▼	**Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)**	**570**	4	45	9%
9	▼	**Philadelphia, PA (MD)**	**529**	5	34	7%
10	▲	**Portland-Vancouver-Beaverton, OR-WA (MSA)**	**402**	11	79	24%
11	▼	**Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)**	**364**	10	33	10%
12	▲	**St. Louis, MO-IL (MSA)**	**350**	23	226	182%
13	▼	**Kansas City, MO-KS (MSA)**	**329**	8	-29	-8%
14	▼	**Oakland-Fremont-Hayward, CA (MD)**	**252**	12	-15	-6%
15	▲	**Cincinnati-Middletown, OH-KY-IN (MSA)**	**227**	17	44	24%
16	▲	**Pittsburgh, PA (MSA)**	**223**	18	59	36%
17	▼	**Newark-Union, NJ-PA (MD)**	**212**	15	-14	-6%
18	▲	**Seattle-Bellevue-Everett, WA (MD)**	**207**	19	44	27%
19	▲	**Raleigh-Cary, NC (MSA) and Durham, NC (MSA)**	**196**	24	84	75%
20	▼	**Columbus, OH (MSA)**	**165**	14	-61	-27%
21	▲	**Santa Ana-Anaheim-Irvine, CA (MD)**	**153**	25	44	40%
22	▼	**Denver-Aurora, CO (MSA)**	**149**	16	-52	-26%
23	▼	**Nashville-Davidson—Murfreesboro, TN (MSA)**	**144**	22	6	4%
24	▼	**Baltimore-Towson, MD (MSA)**	**117**	21	-23	-16%
25	▼	**San Francisco-San Mateo-Redwood City, CA (MD)**	**112**	20	-40	-26%
26	▲	**San Jose-Sunnyvale-Santa Clara, CA (MSA)**	**108**	35	75	227%
27	▲	**Austin-Round Rock, TX (MSA)**	**94**	28	27	40%
28	▲	**Milwaukee-Waukesha-West Allis, WI (MSA)**	**89**	30	27	44%
29	▲	**San Antonio, TX (MSA)**	**83**	43	69	493%
30	▼	**Fort Worth-Arlington, TX (MD)**	**81**	29	15	23%
31	▲	**Tampa-St. Petersburg-Clearwater, FL (MSA)**	**65**	37	34	110%
32	▲	**San Diego-Carlsbad-San Marcos, CA (MSA)**	**61**	38	31	103%
33	▼	**New Orleans-Metairie-Kenner, LA (MSA)**	**59**	27	-17	-22%
34	▲	**Detroit-Livonia-Dearborn, MI (MD)**	**57**	42	43	307%
35	▲	**West Palm Beach-Boca Raton-Boynton Beach, FL (MD)**	**54**	39	29	116%
36	▼	**Indianapolis-Carmel, IN (MSA)**	**50**	26	-33	-40%
36	▼	**Miami-Miami Beach-Kendall, FL (MD)**	**50**	31	1	2%
38	▼	**Houston-Sugar Land-Baytown, TX (MSA)**	**42**	34	6	17%
39	▼	**Orlando-Kissimmee, FL (MSA)**	**41**	36	9	28%
40	▼	**Phoenix-Mesa-Scottsdale, AZ (MSA)**	**40**	32	-7	-15%
41	▼	**Nassau-Suffolk, NY (MD)**	**33**	33	-7	-18%
42	▲	**Riverside-San Bernardino-Ontario, CA (MSA)**	**27**	45	20	286%
43	▼	**Cleveland-Elyria-Mentor, OH (MSA)**	**18**	41	4	29%
44	–	**Warren-Farmington Hills-Troy, MI (MD)**	**8**	44	-3	-27%
45	▼	**Charlotte-Gastonia-Concord, NC-SC (MSA)**	**6**	40	-9	-60%
45	▲	**Providence-New Bedford-Fall River, RI-MA (MSA)**	**6**	46	6	—
47	–	**Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)**	**0**	46	0	—
47	–	**Las Vegas-Paradise, NV (MSA)**	**0**	46	0	—
47	–	**Sacramento—Arden-Arcade—Roseville, CA (MSA)**	**0**	46	0	—
47	–	**Virginia Beach-Norfolk-Newport News, VA-NC (MSA)**	**0**	46	0	—
TOTAL			**12,655**		3,501	38%

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Academic Year 2004-05. "1989" represents Academic Year 1988-89. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • Degree reporting based on 2000 classification of instructional programs. • For more information, see page 26 or visit www.atlantahighered.org.

Visual and Performing Arts Degrees Awarded
(Bachelor's and Higher)

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Degrees	1989 Rank	# Change 89-05	% Change 89-05
1	–	New York-White Plains-Wayne, NY-NJ (MD)	7,577	1	4,288	130%
2	–	Los Angeles-Long Beach-Glendale, CA (MD)	4,841	2	2,645	120%
3	⌃	Chicago-Naperville-Joliet, IL (MD)	3,686	4	2,103	133%
4	⌄	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	3,293	3	1,584	93%
5	–	Philadelphia, PA (MD)	2,239	5	1,298	138%
6	⌃	San Francisco-San Mateo-Redwood City, CA (MD)	1,565	7	889	132%
7	⌄	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	1,450	6	742	105%
8	⌃	Atlanta-Sandy Springs-Marietta, GA (MSA)	1,440	10	927	181%
9	⌃	Santa Ana-Anaheim-Irvine, CA (MD)	1,396	17	977	233%
10	⌃	Baltimore-Towson, MD (MSA)	1,215	12	723	147%
11	⌃	Pittsburgh, PA (MSA)	1,146	22	765	201%
12	⌃	Dallas-Plano-Irving, TX (MD)	1,104	13	616	126%
13	⌃	San Diego-Carlsbad-San Marcos, CA (MSA)	1,063	14	604	132%
14	⌃	Nashville-Davidson—Murfreesboro, TN (MSA)	1,010	36	839	491%
15	–	Austin-Round Rock, TX (MSA)	975	15	517	113%
16	–	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	974	16	529	119%
17	⌃	Seattle-Bellevue-Everett, WA (MD)	876	20	490	127%
18	⌄	Oakland-Fremont-Hayward, CA (MD)	870	11	367	73%
19	⌃	Phoenix-Mesa-Scottsdale, AZ (MSA)	832	27	517	164%
20	⌄	Providence-New Bedford-Fall River, RI-MA (MSA)	827	8	266	47%
21	⌄	Columbus, OH (MSA)	813	9	299	58%
22	⌄	Cincinnati-Middletown, OH-KY-IN (MSA)	790	18	373	89%
23	⌃	Miami-Miami Beach-Kendall, FL (MD)	757	32	508	204%
24	⌃	St. Louis, MO-IL (MSA)	723	28	417	136%
25	⌃	Denver-Aurora, CO (MSA)	706	39	569	415%
26	⌄	Nassau-Suffolk, NY (MD)	698	19	296	74%
27	⌄	Cleveland-Elyria-Mentor, OH (MSA)	622	21	239	62%
28	⌃	Portland-Vancouver-Beaverton, OR-WA (MSA)	566	34	379	203%
29	–	Milwaukee-Waukesha-West Allis, WI (MSA)	559	29	286	105%
30	⌃	Sacramento—Arden-Arcade—Roseville, CA (MSA)	556	31	294	112%
31	⌄	San Jose-Sunnyvale-Santa Clara, CA (MSA)	504	23	168	50%
32	⌄	Edison, NJ (MD)	484	25	158	48%
33	–	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	470	33	264	128%
34	⌃	Tampa-St. Petersburg-Clearwater, FL (MSA)	460	38	309	205%
35	⌄	Newark-Union, NJ-PA (MD)	454	24	125	38%
36	⌄	Detroit-Livonia-Dearborn, MI (MD)	395	26	78	25%
37	⌃	Orlando-Kissimmee, FL (MSA)	393	47	322	454%
38	⌃	Riverside-San Bernardino-Ontario, CA (MSA)	385	45	299	348%
39	⌄	Kansas City, MO-KS (MSA)	363	30	100	38%
40	⌄	New Orleans-Metairie-Kenner, LA (MSA)	347	35	162	88%
41	⌃	Charlotte-Gastonia-Concord, NC-SC (MSA)	320	42	201	169%
42	⌄	Fort Worth-Arlington, TX (MD)	288	41	166	136%
43	⌄	Houston-Sugar Land-Baytown, TX (MSA)	259	37	108	72%
44	⌃	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	258	46	172	200%
45	⌄	Indianapolis-Carmel, IN (MSA)	250	40	122	95%
46	⌃	Las Vegas-Paradise, NV (MSA)	229	49	192	519%
47	⌄	San Antonio, TX (MSA)	200	43	106	113%
48	⌄	Warren-Farmington Hills-Troy, MI (MD)	173	44	80	86%
49	⌄	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	171	48	115	205%
50	–	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	162	50	162	—
TOTAL			**51,734**		**28,755**	**125%**

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Academic Year 2004-05. "1989" represents Academic Year 1988-89. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • Degree reporting based on 2000 classification of instructional programs. • For more information, see page 26 or visit www.atlantahighered.org.

Total Higher Education Institution Expenditures

2005 Rank	Metropolitan Area	2005 Expenditures
1	New York-White Plains-Wayne, NY-NJ (MD)	$14,090,176,395
2	Los Angeles-Long Beach-Glendale, CA (MD)	$12,355,299,281
3	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	$10,536,736,518
4	Chicago-Naperville-Joliet, IL (MD)	$10,298,589,072
5	Philadelphia, PA (MD)	$9,372,239,814
6	Houston-Sugar Land-Baytown, TX (MSA)	$6,889,600,713
7	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	$6,090,606,314
8	Atlanta-Sandy Springs-Marietta, GA (MSA)	$5,965,944,083
9	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	$5,368,473,165
10	Baltimore-Towson, MD (MSA)	$5,108,400,222
11	San Francisco-San Mateo-Redwood City, CA (MD)	$4,024,691,925
12	San Diego-Carlsbad-San Marcos, CA (MSA)	$4,022,403,931
13	San Jose-Sunnyvale-Santa Clara, CA (MSA)	$3,600,766,454
14	Seattle-Bellevue-Everett, WA (MD)	$3,501,425,564
15	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	$3,485,400,487
16	Columbus, OH (MSA)	$3,385,292,721
17	Pittsburgh, PA (MSA)	$3,122,844,569
18	Nashville-Davidson—Murfreesboro, TN (MSA)	$3,055,854,518
19	Sacramento—Arden-Arcade—Roseville, CA (MSA)	$2,948,470,433
20	Newark-Union, NJ-PA (MD)	$2,811,705,173
21	Dallas-Plano-Irving, TX (MD)	$2,798,830,820
22	Nassau-Suffolk, NY (MD)	$2,687,354,648
23	Santa Ana-Anaheim-Irvine, CA (MD)	$2,639,021,400
24	St. Louis, MO-IL (MSA)	$2,628,671,675
25	Miami-Miami Beach-Kendall, FL (MD)	$2,460,098,698
26	Oakland-Fremont-Hayward, CA (MD)	$2,429,631,172
27	Austin-Round Rock, TX (MSA)	$2,007,571,282
28	Phoenix-Mesa-Scottsdale, AZ (MSA)	$1,826,128,656
29	Milwaukee-Waukesha-West Allis, WI (MSA)	$1,799,816,535
30	Edison, NJ (MD)	$1,776,301,135
31	Denver-Aurora, CO (MSA)	$1,710,605,601
32	New Orleans-Metairie-Kenner, LA (MSA)	$1,695,695,300
33	Cincinnati-Middletown, OH-KY-IN (MSA)	$1,692,963,093
34	Providence-New Bedford-Fall River, RI-MA (MSA)	$1,691,673,161
35	Cleveland-Elyria-Mentor, OH (MSA)	$1,646,153,734
36	Tampa-St. Petersburg-Clearwater, FL (MSA)	$1,639,457,176
37	Riverside-San Bernardino-Ontario, CA (MSA)	$1,524,232,745
38	Kansas City, MO-KS (MSA)	$1,355,432,728
39	Indianapolis-Carmel, IN (MSA)	$1,315,445,351
40	Detroit-Livonia-Dearborn, MI (MD)	$1,283,441,785
41	San Antonio, TX (MSA)	$1,248,366,517
42	Portland-Vancouver-Beaverton, OR-WA (MSA)	$1,080,378,985
43	Orlando-Kissimmee, FL (MSA)	$964,799,004
44	Fort Worth-Arlington, TX (MD)	$870,879,897
45	Charlotte-Gastonia-Concord, NC-SC (MSA)	$770,084,309
46	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	$714,030,667
47	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	$645,586,689
48	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	$612,112,014
49	Las Vegas-Paradise, NV (MSA)	$591,991,724
50	Warren-Farmington Hills-Troy, MI (MD)	$543,587,286
TOTAL		**$166,685,265,139**

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Fiscal Year 2004-05. Changes in accounting standards and data collection over time make accurate comparisons of 2005 expenditures to prior years difficult. • Expenditures include those by higher education institutions and related units as reported using accounting board standards. • For more information, see page 26 or visit www.atlantahighered.org.

Research Expenditures

2005 Rank	Metropolitan Area	2005 Research Expenditures
1	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	$2,023,687,549
2	New York-White Plains-Wayne, NY-NJ (MD)	$1,419,605,026
3	Baltimore-Towson, MD (MSA)	$1,133,897,093
4	Los Angeles-Long Beach-Glendale, CA (MD)	$1,085,398,692
5	Atlanta-Sandy Springs-Marietta, GA (MSA)	$1,013,743,433
6	Houston-Sugar Land-Baytown, TX (MSA)	$995,162,935
7	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	$988,570,561
8	Chicago-Naperville-Joliet, IL (MD)	$938,604,902
9	Philadelphia, PA (MD)	$867,557,466
10	San Jose-Sunnyvale-Santa Clara, CA (MSA)	$739,374,441
11	Pittsburgh, PA (MSA)	$730,646,344
12	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	$643,933,585
13	Seattle-Bellevue-Everett, WA (MD)	$578,083,069
14	San Francisco-San Mateo-Redwood City, CA (MD)	$548,829,749
15	San Diego-Carlsbad-San Marcos, CA (MSA)	$507,446,950
16	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	$454,415,496
17	St. Louis, MO-IL (MSA)	$407,545,802
18	Oakland-Fremont-Hayward, CA (MD)	$401,450,496
19	Sacramento—Arden-Arcade—Roseville, CA (MSA)	$363,003,600
20	Cleveland-Elyria-Mentor, OH (MSA)	$359,984,073
21	Austin-Round Rock, TX (MSA)	$353,019,105
22	Dallas-Plano-Irving, TX (MD)	$345,909,173
23	Nashville-Davidson—Murfreesboro, TN (MSA)	$338,396,886
24	Columbus, OH (MSA)	$333,653,347
25	Newark-Union, NJ-PA (MD)	$260,207,000
26	New Orleans-Metairie-Kenner, LA (MSA)	$242,387,661
27	Miami-Miami Beach-Kendall, FL (MD)	$233,437,752
28	Denver-Aurora, CO (MSA)	$226,687,726
29	Edison, NJ (MD)	$222,393,016
30	Santa Ana-Anaheim-Irvine, CA (MD)	$189,467,022
31	Tampa-St. Petersburg-Clearwater, FL (MSA)	$179,650,316
32	Cincinnati-Middletown, OH-KY-IN (MSA)	$162,941,883
33	Milwaukee-Waukesha-West Allis, WI (MSA)	$160,180,530
34	Detroit-Livonia-Dearborn, MI (MD)	$151,256,767
35	Indianapolis-Carmel, IN (MSA)	$146,031,903
36	San Antonio, TX (MSA)	$126,329,117
37	Riverside-San Bernardino-Ontario, CA (MSA)	$122,811,967
38	Providence-New Bedford-Fall River, RI-MA (MSA)	$113,030,720
39	Nassau-Suffolk, NY (MD)	$111,372,438
40	Phoenix-Mesa-Scottsdale, AZ (MSA)	$109,254,640
41	Kansas City, MO-KS (MSA)	$93,417,064
42	Orlando-Kissimmee, FL (MSA)	$81,932,771
43	Fort Worth-Arlington, TX (MD)	$47,935,563
44	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	$47,911,598
45	Las Vegas-Paradise, NV (MSA)	$35,839,000
46	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	$28,386,757
47	Portland-Vancouver-Beaverton, OR-WA (MSA)	$27,281,873
48	Charlotte-Gastonia-Concord, NC-SC (MSA)	$19,021,303
49	Warren-Farmington Hills-Troy, MI (MD)	$7,430,973
50	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	$4,531,145
	TOTAL	$20,723,048,278

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Federal Appropriations, Grants and Contracts

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Federal Funds	1989 Rank	$ Change 89-05	% Change 89-05
1	⋏	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	$2,197,696,947	2	$1,555,589,802	242%
2	⋎	New York-White Plains-Wayne, NY-NJ (MD)	$1,928,612,016	1	$1,243,912,350	182%
3	–	Los Angeles-Long Beach-Glendale, CA (MD)	$1,709,649,028	3	$1,138,812,787	199%
4	⋏	Chicago-Naperville-Joliet, IL (MD)	$1,294,623,216	6	$903,649,549	231%
5	⋏	Baltimore-Towson, MD (MSA)	$1,284,972,205	7	$985,535,407	329%
6	⋏	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	$1,108,996,710	16	$911,221,340	461%
7	⋎	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	$1,095,180,935	4	$618,203,699	130%
8	⋏	Houston-Sugar Land-Baytown, TX (MSA)	$1,055,129,274	13	$843,316,075	398%
9	⋎	Philadelphia, PA (MD)	$983,833,710	8	$684,517,998	229%
10	⋎	Atlanta-Sandy Springs-Marietta, GA (MSA)	$982,820,927	9	$699,340,798	247%
11	⋎	San Jose-Sunnyvale-Santa Clara, CA (MSA)	$920,148,403	5	$477,542,030	108%
12	⋎	Seattle-Bellevue-Everett, WA (MD)	$898,309,545	10	$623,452,035	227%
13	⋎	Pittsburgh, PA (MSA)	$854,739,518	11	$608,735,691	247%
14	⋎	San Diego-Carlsbad-San Marcos, CA (MSA)	$688,933,374	12	$467,864,748	212%
15	⋎	San Francisco-San Mateo-Redwood City, CA (MD)	$659,351,412	14	$453,712,990	221%
16	⋏	St. Louis, MO-IL (MSA)	$570,935,292	18	$421,971,354	283%
17	⋏	Nashville-Davidson—Murfreesboro, TN (MSA)	$513,016,937	22	$396,782,349	341%
18	⋎	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	$484,599,283	15	$279,884,357	137%
19	⋎	Oakland-Fremont-Hayward, CA (MD)	$428,880,519	17	$260,769,740	155%
20	–	Austin-Round Rock, TX (MSA)	$418,267,972	20	$291,920,164	231%
21	⋏	Cleveland-Elyria-Mentor, OH (MSA)	$409,704,738	24	$313,774,719	327%
22	⋎	Miami-Miami Beach-Kendall, FL (MD)	$394,206,192	21	$273,097,322	225%
23	–	Dallas-Plano-Irving, TX (MD)	$393,159,152	23	$293,289,304	294%
24	⋏	Sacramento—Arden-Arcade—Roseville, CA (MSA)	$370,834,557	27	$283,604,108	325%
25	–	Denver-Aurora, CO (MSA)	$366,012,586	25	$276,173,697	307%
26	⋎	Columbus, OH (MSA)	$339,808,651	19	$210,869,657	164%
27	⋎	New Orleans-Metairie-Kenner, LA (MSA)	$320,251,672	26	$231,023,581	259%
28	⋏	Tampa-St. Petersburg-Clearwater, FL (MSA)	$298,467,687	39	$254,991,448	587%
29	⋏	Santa Ana-Anaheim-Irvine, CA (MD)	$289,767,152	30	$215,525,332	290%
30	⋏	Newark-Union, NJ-PA (MD)	$283,633,742	35	$222,238,663	362%
31	⋏	San Antonio, TX (MSA)	$263,397,633	33	$197,691,784	301%
32	⋎	Cincinnati-Middletown, OH-KY-IN (MSA)	$248,681,231	28	$165,582,642	199%
33	⋏	Phoenix-Mesa-Scottsdale, AZ (MSA)	$244,837,514	37	$187,015,882	323%
34	⋏	Edison, NJ (MD)	$244,779,689	36	$184,653,534	307%
35	⋏	Riverside-San Bernardino-Ontario, CA (MSA)	$230,309,611	42	$196,817,327	588%
36	⋎	Nassau-Suffolk, NY (MD)	$219,145,922	29	$139,303,347	174%
37	⋎	Milwaukee-Waukesha-West Allis, WI (MSA)	$217,487,448	32	$149,817,570	221%
38	⋎	Detroit-Livonia-Dearborn, MI (MD)	$203,241,038	31	$133,271,679	190%
39	⋎	Providence-New Bedford-Fall River, RI-MA (MSA)	$173,768,233	34	$110,077,816	173%
40	–	Indianapolis-Carmel, IN (MSA)	$164,400,016	40	$123,695,382	304%
41	⋎	Portland-Vancouver-Beaverton, OR-WA (MSA)	$137,637,140	38	$89,733,327	187%
42	⋎	Kansas City, MO-KS (MSA)	$124,965,833	41	$84,915,058	212%
43	–	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	$100,924,649	43	$74,432,837	281%
44	⋏	Fort Worth-Arlington, TX (MD)	$99,717,579	45	$78,983,807	381%
45	⋏	Orlando-Kissimmee, FL (MSA)	$89,601,138	46	$69,343,722	342%
46	⋎	Charlotte-Gastonia-Concord, NC-SC (MSA)	$72,464,261	44	$50,334,311	227%
47	⋏	Las Vegas-Paradise, NV (MSA)	$65,334,426	48	$54,347,118	495%
48	⋏	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	$46,074,732	50	$39,425,135	593%
49	⋎	Warren-Farmington Hills-Troy, MI (MD)	$42,917,521	47	$28,285,348	193%
50	⋎	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	$41,502,141	49	$34,158,593	465%
TOTAL			**$26,575,731,107**		$18,633,209,313	235%

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Fiscal Year 2004-05. "1989" represents Fiscal Year 1988-89. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • Data includes funds received from U.S. government as reported using accounting board standards (including Pell grants at most institutions). • For more information, see page 26 or visit www.atlantahighered.org.

Faculty and Staff Employees

2005 Rank	Rank change from 1989	Metropolitan Area	2005 Employees	1989 Rank	# Change 89-05	% Change 89-05
1	–	New York-White Plains-Wayne, NY-NJ (MD)	129,979	1	37,659	41%
2	–	Chicago-Naperville-Joliet, IL (MD)	99,508	2	16,690	20%
3	–	Los Angeles-Long Beach-Glendale, CA (MD)	89,325	3	15,686	21%
4	–	Boston-Quincy, MA (MD) and Cambridge-Newton-Framingham, MA (MD)	85,138	4	21,353	33%
5	–	Philadelphia, PA (MD)	60,428	5	-2,357	-4%
6	▲	Houston-Sugar Land-Baytown, TX (MSA)	58,063	9	24,966	75%
7	▲	Atlanta-Sandy Springs-Marietta, GA (MSA)	55,348	8	20,881	61%
8	▼	Washington-Arlington-Alexandria, DC-VA-MD-WV (MD)	53,488	6	7,644	17%
9	▼	Raleigh-Cary, NC (MSA) and Durham, NC (MSA)	46,451	7	8,010	21%
10	▲	Baltimore-Towson, MD (MSA)	45,310	14	21,832	93%
11	▲	Pittsburgh, PA (MSA)	40,169	12	16,016	66%
12	▼	Minneapolis-St. Paul-Bloomington, MN-WI (MSA)	37,153	10	6,188	20%
13	▼	San Diego-Carlsbad-San Marcos, CA (MSA)	36,495	11	9,035	33%
14	▲	St. Louis, MO-IL (MSA)	35,415	22	14,076	66%
15	▲	Dallas-Plano-Irving, TX (MD)	35,329	20	13,774	64%
16	▼	Seattle-Bellevue-Everett, WA (MD)	32,719	13	8,811	37%
17	▲	Austin-Round Rock, TX (MSA)	30,502	23	9,202	43%
18	▲	Santa Ana-Anaheim-Irvine, CA (MD)	29,895	24	9,702	48%
19	▲	Newark-Union, NJ-PA (MD)	29,747	26	10,889	58%
20	▲	Nashville-Davidson—Murfreesboro, TN (MSA)	28,960	27	13,047	82%
21	▼	San Francisco-San Mateo-Redwood City, CA (MD)	27,743	17	4,948	22%
22	▲	Phoenix-Mesa-Scottsdale, AZ (MSA)	27,686	37	16,169	140%
23	▼	Columbus, OH (MSA)	27,069	15	3,651	16%
24	▼	Oakland-Fremont-Hayward, CA (MD)	27,004	16	3,689	16%
25	▲	Miami-Miami Beach-Kendall, FL (MD)	26,891	28	11,112	70%
26	▼	San Jose-Sunnyvale-Santa Clara, CA (MSA)	26,136	25	6,214	31%
27	▼	Sacramento—Arden-Arcade—Roseville, CA (MSA)	25,160	21	3,817	18%
28	▼	Nassau-Suffolk, NY (MD)	22,177	18	-226	-1%
29	▲	Denver-Aurora, CO (MSA)	21,611	33	9,705	82%
30	▼	Cincinnati-Middletown, OH-KY-IN (MSA)	21,166	19	-662	-3%
31	–	Milwaukee-Waukesha-West Allis, WI (MSA)	19,220	31	6,548	52%
32	▲	Riverside-San Bernardino-Ontario, CA (MSA)	19,008	35	7,247	62%
33	▲	Tampa-St. Petersburg-Clearwater, FL (MSA)	17,814	39	7,558	74%
34	▼	Cleveland-Elyria-Mentor, OH (MSA)	17,042	32	4,901	40%
35	▼	Edison, NJ (MD)	16,816	34	4,958	42%
36	▼	Kansas City, MO-KS (MSA)	16,712	29	953	6%
37	▲	Providence-New Bedford-Fall River, RI-MA (MSA)	15,408	41	5,490	55%
38	▼	Detroit-Livonia-Dearborn, MI (MD)	15,305	36	3,732	32%
39	▲	Portland-Vancouver-Beaverton, OR-WA (MSA)	14,918	40	4,685	46%
40	▼	Indianapolis-Carmel, IN (MSA)	14,606	30	1,728	13%
41	▲	San Antonio, TX (MSA)	13,943	42	4,086	41%
42	▲	Orlando-Kissimmee, FL (MSA)	13,552	45	7,595	127%
43	–	Fort Worth-Arlington, TX (MD)	12,760	43	5,956	88%
44	–	Charlotte-Gastonia-Concord, NC-SC (MSA)	10,225	44	3,589	54%
45	▼	New Orleans-Metairie-Kenner, LA (MSA)	9,903	38	-800	-7%
46	▲	Fort Lauderdale-Pompano Beach-Deerfield Beach, FL (MD)	9,349	49	5,977	177%
47	▲	Las Vegas-Paradise, NV (MSA)	8,836	50	6,684	311%
48	▼	Virginia Beach-Norfolk-Newport News, VA-NC (MSA)	8,630	46	2,786	48%
49	▼	Warren-Farmington Hills-Troy, MI (MD)	8,329	47	2,758	50%
50	▼	West Palm Beach-Boca Raton-Boynton Beach, FL (MD)	7,816	48	4,043	107%
TOTAL			**1,582,257**		431,995	38%

Notes: "Metropolitan areas" are the 50 largest in U.S. based on 2005 population and include Metropolitan Statistical Areas (MSA) and Metropolitan Divisions (MD). • Data is from U.S. Department of Education. • "2005" represents Fall 2005. "1989" represents Fall 1989. Inconsistent reporting by some higher education sectors makes trend analysis prior to 1989 difficult. • Data excludes hospital employees except those with jobs related to education. Data excludes student workers except those with jobs primarily in instruction or research. • For more information, see page 26 or visit www.atlantahighered.org.

Notes on the Study

Metro areas

This study measures higher education activity in America's largest metropolitan areas.

The U.S. Office of Management and Budget (OMB) defines *metropolitan areas* according to published standards that are applied to U.S. Census Bureau data. The general concept of a Metropolitan Statistical Area (MSA) is that of at least one large urbanized center together with surrounding counties having a high degree of economic and social integration with that urban core, as measured by commuting ties. MSAs are relevant units of analysis because of their importance as population centers and engines of national and regional economic life.

If specified criteria are met, a metropolitan statistical area containing a single core with a population of 2.5 million or more may be subdivided to form smaller groupings of counties referred to as Metropolitan Divisions (MD). While MDs are subdivisions of larger MSAs, they often function as distinct social, economic, and cultural areas within the larger regions and retain their separate statistical identities. Thus, OMB suggests "Data users and analysts interested in demographic and economic patterns, trends, and processes within large Metropolitan Statistical Areas should consider data for specific Metropolitan Divisions when conducting analyses." Accordingly, for purposes of this study, where an MSA is comprised of Metropolitan Divisions, the unit of measure is the MD, as noted in the tables.

This study is based on the MSAs and MDs as defined by OMB in December 2005 using December 2000 standards, Census 2000 data and subsequent population estimates. All metro area data used in this study for years prior to 2005 is based on these 2005 MSA and MD definitions. Mapping all data to the 2005 definitions ensures comparability over the time period studied.

The 50 largest MSAs and MDs in the U.S. are included in this report to provide broad comparisons of metro regions across the nation. They were determined based on July 2005 Census Bureau population data. Because of their historic and widespread public perception as integrated higher education centers, for purposes of this study, the Boston-Quincy and Cambridge-Newton-Framingham MDs are combined to form a single geographic unit of measure, as are the Durham and Raleigh-Cary MSAs. All other metro areas are as defined by OMB.

Data source

All higher education data is from the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS) surveys. These surveys are completed annually by accredited, degree-granting colleges, universities and other postsecondary institutions approved to receive federal student aid.

Time period

This study covers the period 1989 to 2005. Inconsistent data reporting by some higher education sectors makes trend analysis prior to 1989 difficult. 2005 was the latest IPEDS information (adjudicated by the Department of Education) available as of spring 2007, when data analysis for this project began. Data from 1994 and 1999 was included in the analysis to verify trends but is not presented in the report because of space considerations.

The years used in this report, 1989 and 2005, represent when the IPEDS data was collected. Data for enrollment and faculty and staff are for the fall of the year referenced; data for degrees (called *completions* under IPEDS) is for the most recently completed academic year; and data for finances is for the most recently completed fiscal year. The time periods presented in each table of the report are indicated in the notes to that table.

The two expenditure tables in the report present only FY 2004-05 data because significant changes in accounting standards and data collection formats over time make accurate comparisons to prior years difficult. It is possible, however, to adjust for these changes when analyzing revenues from certain sources (such as the federal government) to obtain comparable data for the period studied.

Institutions

Included in this study are all degree-granting, Title IV (federal student aid) eligible colleges, universities and other institutions of higher education that filed institutional characteristics reports to IPEDS in the years analyzed and are located within the boundaries of the metro areas used for the study. This includes public, private not-for-profit and for-profit proprietary institutions. Institutions that opened or closed during the time period studied are included. If an institution moved into or out of a metro area, it is included for only those years it was located in the metro area. If an institution gained or lost Title IV eligibility during the period, it is included only for those years it had eligibility.

The study includes data from a total of 1,863 institutions located in the 50 MSAs in any of the years under review. This number includes institutions that opened, closed or had a change in student aid eligibility during the period 1989 to 2005, or which may have failed to file one or more IPEDS forms in a given year. Therefore, the number of institutions included across different years of the study and across categories of data may vary. In 2005, enrollment and degree data in the report includes 1,640 institutions, revenue data includes 1,554 institutions, expenditure data includes 1,177 institutions and staffing data includes 1,468 institutions. Four institutions were removed from the study because they were determined to be online-only or substantially online, and inclusion of their data skewed the rankings.

Data for the Atlanta MSA includes 62 colleges, universities and institutions of higher education during the years reviewed. This number includes institutions that opened, closed or had a change in student aid eligibility during the period 1989 to 2005, or that may have failed to file one or more IPEDS forms in a given year. Therefore, the number of institutions represented across different years of the study and across categories of data may vary. In 2005, enrollment and degree data in the report includes 57 institutions, revenue data includes 56 institutions, expenditure data includes 36 institutions, and staffing data includes 53 institutions. The University of Georgia and Brenau University, located contiguous to the Atlanta MSA, are included in the data as members of the Atlanta Regional Council for Higher Education (ARCHE).

Enrollment

Full-Time-Equivalent (FTE) enrollment data is used in this study because it allows accurate comparisons by equating part-time enrollment to full-time. The formula for this calculation is: 1/3 the number of part-time students + the number of full-time students = FTE enrollment. Prior to 1990, enrollment by race was reported only during even-numbered years; so, for this study, 1990 enrollment participation rates were used to estimate 1989 enrollment by race. "Students of color" enrollment includes African American, Hispanic, Asian/Pacific Islander and American Indian/Alaskan Native.

Degrees

Degree data reported in this study reflects degrees awarded at the bachelor's level and higher, including master's, doctoral, and professional degrees. All degrees are reported at the two-digit level based on the Department of Education's

Classification of Instructional Program (CIP) codes and conform to the CIP-2000 standard. Degree categories reported using earlier CIP classifications are mapped to the 2000 standards. Some degree category titles in the report are abbreviated from those used in CIP because of space limitations. Beginning in 1999, IPEDS introduced a first-professional certification degree category, which for this study is included in the professional category.

Finances

Expenditure data reflects spending by higher education institutions and related units, as reported to IPEDS using federal or government accounting board standards (depending on whether institutions are public or private). Total expenditures were compiled by summing individual expenditure components: instruction, research, public service, academic support, library, student services, institutional support, operations and maintenance, scholarships and fellowships (net of discounts and allowances), auxiliary enterprises, hospitals, independent operations, interest, depreciation, non-operating expenditures and component unit expenditures (net of amounts paid to institutions).

The table showing Federal appropriations, grants and contracts includes funds received by higher education institutions from the U.S. government as reported using accounting board standards (including Pell grants at most institutions).

The table showing faculty and staff includes all employees of the institutions. However, staff associated solely with a hospital, even if the hospital is part of an institution, are not included in IPEDS reporting unless their jobs are related to education. Also excluded are student workers, unless their jobs are primarily in instruction or research.

Other notes

Because of differences in MSA definitions and institutional cohorts, and the use of more recent data, information in this study is not comparable to that presented in ARCHE's previous MSA reports (released in 1999, 2001 and 2003).

The failure of any institution of higher education to file complete and accurate IPEDS surveys with the U.S. Department of Education may affect the ranking of the metropolitan area in which that institution is located.

For more information

Visit www.atlantahighered.org.

Sources and Acknowledgments

ARCHE

The Atlanta Regional Council for Higher Education brings together 19 Atlanta-area public and private colleges and universities. Founded in 1938, ARCHE builds awareness of the size, scope, impact and value of higher education and helps its members share strengths through cooperative programs that expand opportunities for students, faculty and staff. ARCHE's membership also includes corporate and non-profit community partners and regional affiliated libraries.

The Council published this report in May 2008. Visit the Information Center at www.atlantahighered.org/infocenter to view or download the report or other studies conducted by ARCHE. For additional print copies, contact arche@atlantahighered.org or 404-651-2668.

For more information on ARCHE and its members, visit www.atlantahighered.org.

Human Capital Research Corporation

The data presented in this report was compiled and analyzed by Human Capital Research Corporation, a privately held firm that provides research and analysis in higher education operations, educational productivity, enrollment management, workforce development and public policy. The firm may be contacted at hcrc@humancapital.com or 847-475-7580.

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