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# **The Economic Impact of Community College of Philadelphia**

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Report #111

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# The Economic Impact of Community College of Philadelphia

## Introduction

The purpose of this report is to document the important economic contributions that the Community College of Philadelphia makes to the City of Philadelphia and the State of Pennsylvania. In fulfilling its educational mission, the College has served hundreds of thousands of individuals over the past 34 years. The contributions of the College to these students' personal and educational growth have been documented in many prior institutional research reports. Beyond the benefits that the College provides to the many individuals it serves is the economic impact which the College has on the City and the region as a whole. This study describes some of the more important direct and indirect economic benefits that accrue to the City and to the State as a result of the College's educational programs and economic activities. The report that follows contains a wide range of information about the outcomes of the College's operations. A few highlights follows:

- Community College of Philadelphia is a large institution. Over its 34-year history, it has served over 400,000 different individuals.
- The College is a major economic enterprise. In the most recent fiscal year, the College generated over \$100,000,000 in operating and capital revenues. The application of these revenues toward institutional purchase of goods and services, payment of faculty and staff salaries, distribution to students for financial aid purposes, and construction of new facilities had a major impact on the City and State tax revenues and on jobs and incomes within the City of Philadelphia and the State of Pennsylvania.
- Institutional and national research have documented the value of an associate's degree, both in terms of increased earnings potential and lower risk of unemployment. Without the College, thousands of Philadelphians each year would not have access to the increased earnings potential and increased employment security that the College's educational programs provide.
- The College provides an educational service no other college or university is able to provide. Former students consistently report to the institution in

follow-up surveys that they would have been unable to pursue their educational aspirations had the College not been in existence.

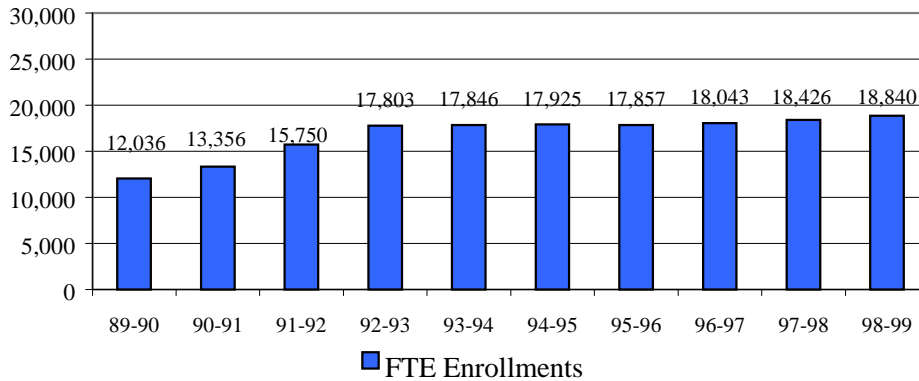
- Unlike other area colleges and universities, the Community College of Philadelphia serves a clientele who remain committed to living and working within the Philadelphia area. The vast majority of students who have enrolled at the College remain in the region working and paying taxes long after they have exited from the College.
- In addition to having served over four hundred thousand individuals, the College has provided direct educational services to hundreds of different area employers through its contracted educational programs for employers.
- The College is a powerful engine to bring Federal and State dollars into the Philadelphia economy. For the 1998-99 fiscal year, the College was responsible for \$50 million State and Federal dollars coming into Philadelphia and largely being expended within the local economy.
- As a large institution, the College's breath of programmatic offerings, both credit and non-credit, is extensive. The College currently offers 76 separate degree programs and 600 different credit courses in a typical academic year. These credit programs and courses are complemented by a rich mixture of non-credit course offerings, which in a typical year exceed 300.
- In addition to the significant employment base of the College, thousands of other jobs within the City are attributable to the College's existence.

### **Students Served by the College**

Community College of Philadelphia is the only public institution of higher education in the City of Philadelphia. During its 34-year existence, the College has served over 448,300 different individuals in its credit and non-credit courses. Many of these students would have been unable to pursue higher education if the opportunities provided by the College did not exist. Over 50 percent of recent graduates indicated they would have been unable to attend College were it not for Community College of Philadelphia.

During 1998–1999, over 38,000 different individuals enrolled at the College. This represents a full-time equivalent student body of 18,840. In ten years, the College's full-time equivalent student body increased by 57% (Figure 1).

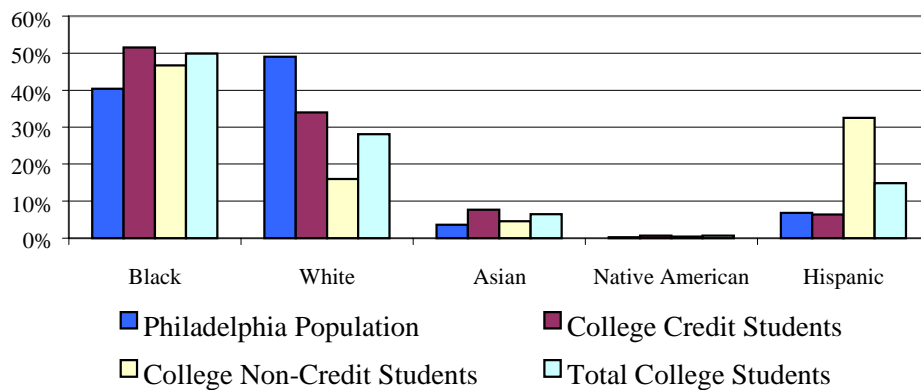
**Figure 1**  
**Total FTE Enrollments by Year**



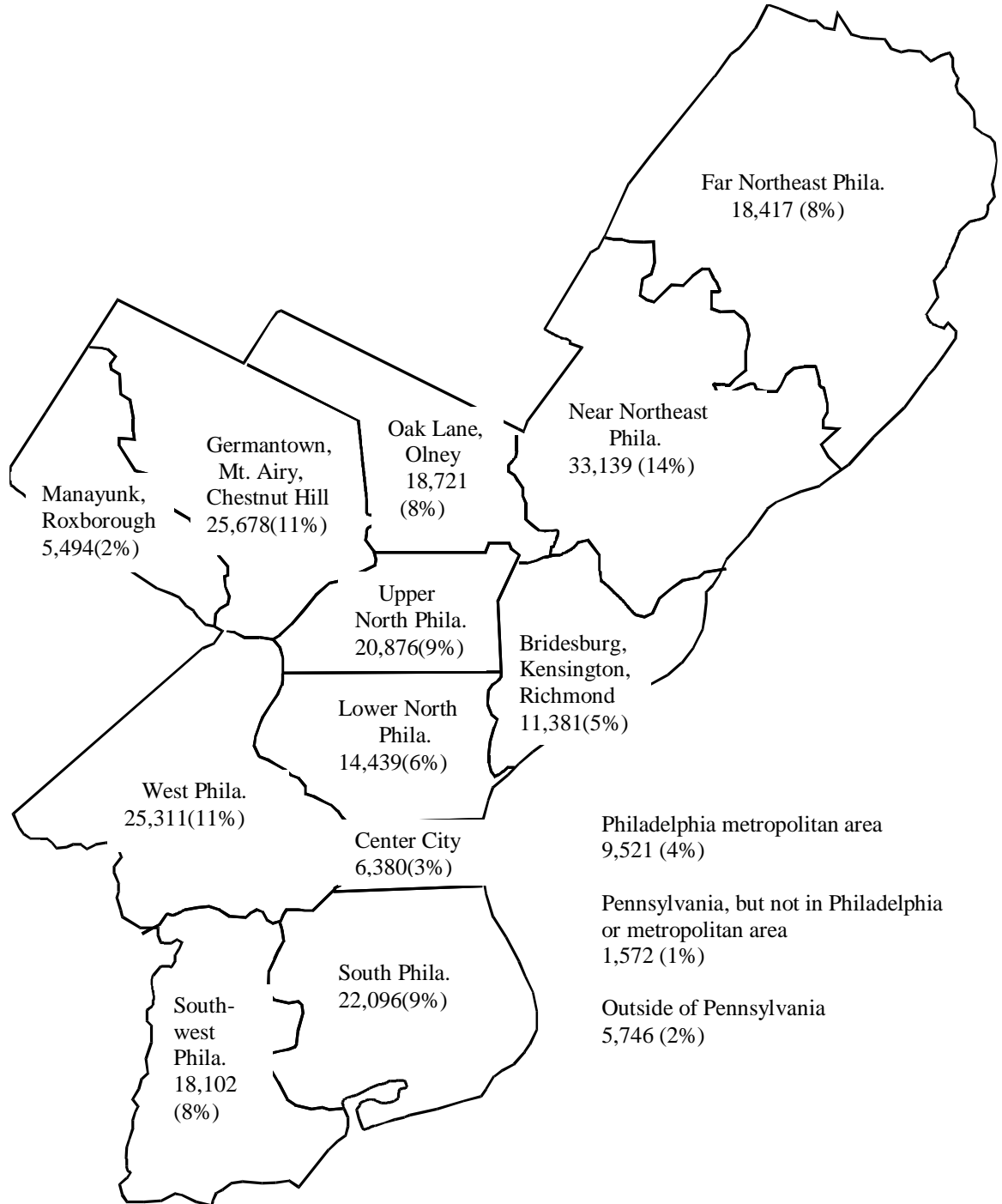
Since 1989, 94 percent of the Colleges’ students have lived in the City while attending the College (Figure 3 on following page). The College serves residents from all of the city’s neighborhoods. An additional 4 percent of the students who enrolled at the College between 1989 and 1999 lived in the Philadelphia metropolitan area but not the City; 1 percent lived elsewhere in Pennsylvania; and 2 percent lived out-of-state.

The College's student body reflects the demographic diversity of the City of Philadelphia. Figure 2 compares the racial/ethnic backgrounds of a recent student body with the racial/ethnic backgrounds of Philadelphians.

**Figure 2**  
**Percent Distribution of Population by Racial/Ethnic Background**



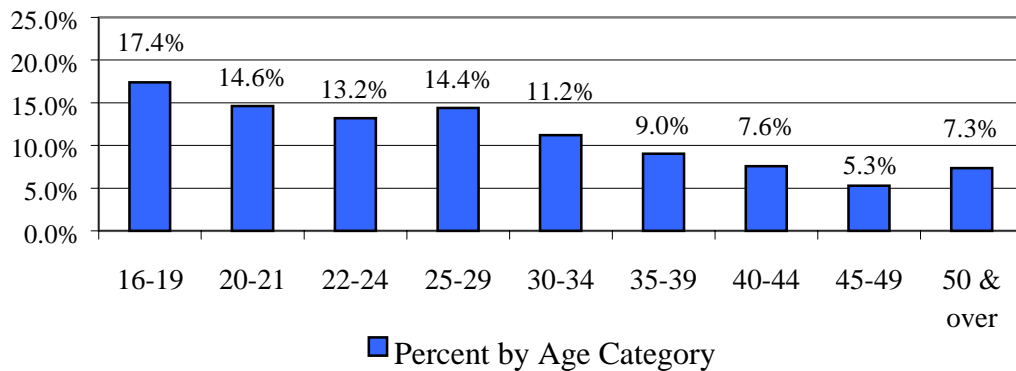
**Figure 3**  
**1989 to 1999 Unduplicated Head Count**  
**Enrollments by Area of Residence**



Community College of Philadelphia is the largest single point of entry into higher education for minorities in Pennsylvania. The College has a higher minority enrollment than Temple University, the total State System of Higher Education, or Penn State, including all of Penn State's branch campuses.

Consistent with its comprehensive missions, all adult age categories were well represented among the fall 1998 student body (Figure 4).

**Figure 4**  
**Fall 1998 Age Distribution of All Students**



**Course and Program Opportunities and Access**

The College offers 628 credit courses in support of 76 transfer and career programs in the areas of humanities, social and behavioral sciences, business, allied health, and science and technology. At present, the College offers more program opportunities to the citizens of Philadelphia than at any time during its history (Figure 5). Both associate degree programs and certificate programs are offered.

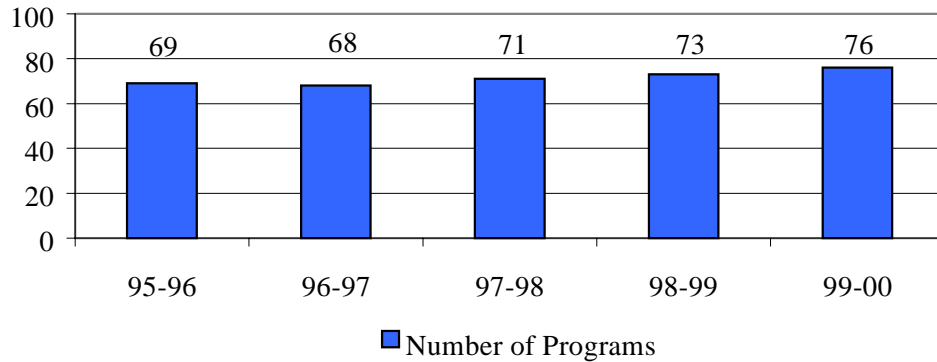
In addition to a main campus and three regional centers, the College offers instructional programs in 13 different community sites in all sections of the City. The College leases space from a broad array of neighborhood schools and non-profit organizations providing additional financial support to those organizations as well as providing educational programs and services for the residents of the local communities.

During the last decade, 24,743 Philadelphians enrolled in one of the College's transfer programs; 37,721 Philadelphians enrolled in a career program; and 66,418 enrolled in the General Studies program.<sup>1</sup>

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<sup>1</sup> The General Studies program was not offered to new students starting in 1995. Several other programs have replaced it.

Figure 5  
**Number of Credit Programs Offered  
 by Community College of Philadelphia**



In addition to its degree programs, the College has made a large commitment to adult literacy and GED programs, educational programs for business and industry, and non-credit course offerings reflecting the educational needs and interests of adult residents of the City. Between 1989 and 1999, 121,150 Philadelphians enrolled in non-credit courses offered by the College.

The College provides a wide range of academic support services including tutoring, counseling, physically disabled student services, career planning, and job placement. These services are designed to help students eliminate potential barriers to the successful completion of their educational goals. Since 1989, 42,496 students have taken advantage of the College's developmental education programs that are designed to promote the academic success of students. Nearly 9,000 students have participated in the College's English as a Second Language program and an additional 1,622 students were enrolled in Bilingual education opportunities.

### Student Accomplishments

Community College of Philadelphia enjoys a very high transfer rate. On average, 50 percent of the Colleges' graduates pursue studies at a four-year institution within one year of graduating from CCP. Of the non-graduates, 38 percent, on average, attend another institution shortly after leaving CCP. To date an estimated 106,600 credit students have transferred to another college or university within one year of leaving the College. Seventy-nine percent of students transfer to a college or university within the five county region (Figure 6). Another 6 percent attend a Pennsylvania college outside the metropolitan area, while the remaining 15 percent transfer to a college or university in another state.

Figure 6

**Higher Education Institutions<sup>2</sup> That Community College of Philadelphia Students  
Were Most Likely to Transfer to During the Last Decade**

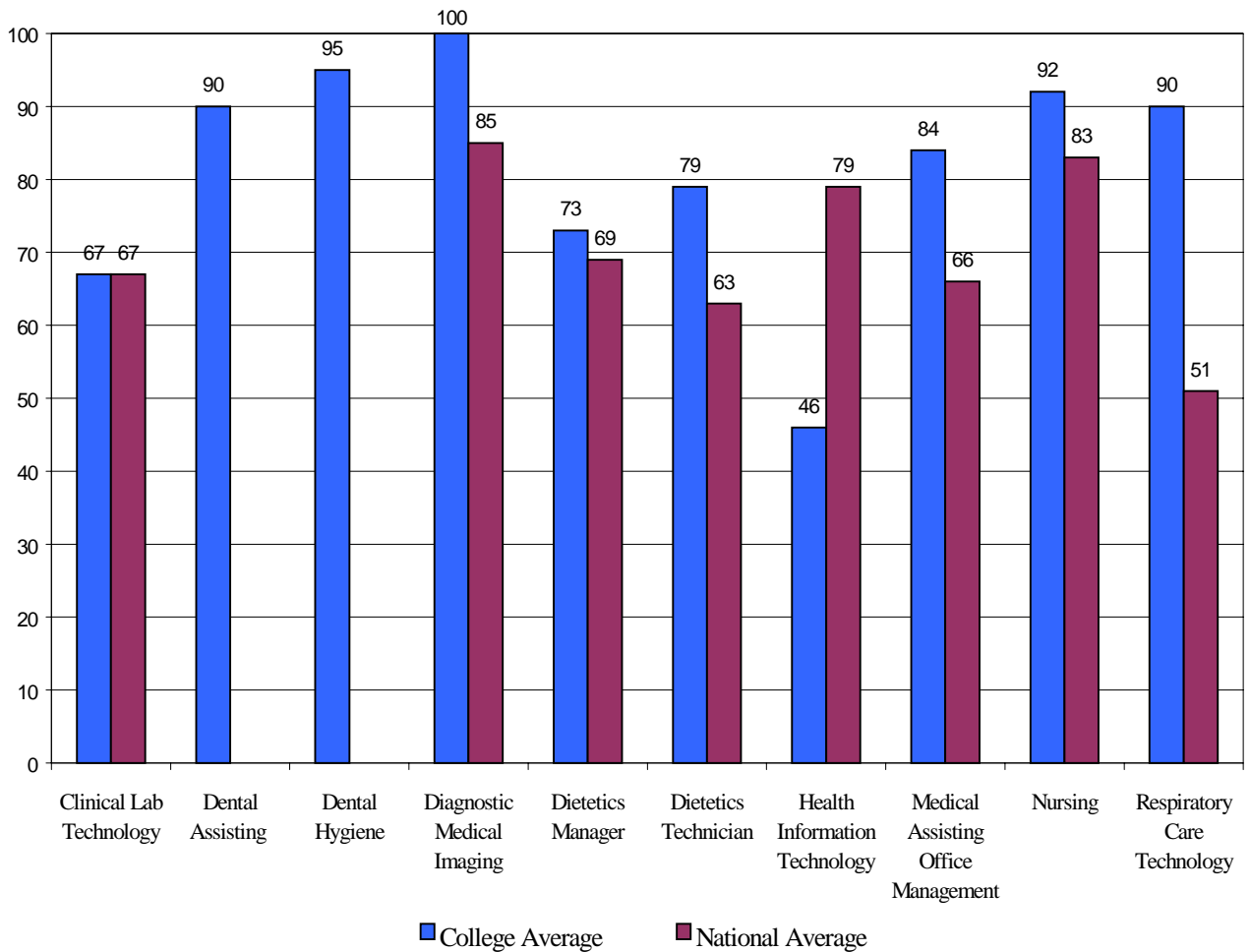
1. Temple University
2. Drexel University
3. Hannemann University
4. LaSalle University
5. Thomas Jefferson University
6. Holy Family College
7. Pennsylvania State University
8. West Chester University
9. Philadelphia University
10. Episcopal Hospital
11. Beaver College
12. Widener University
13. Eastern College
14. Pierce Junior College
15. University of the Sciences of Philadelphia
16. St. Joseph's University
17. University of Pennsylvania
18. Gwynedd Mercy College
19. Frankford Hospital
20. Rutgers University of New Jersey
21. Methodist Hospital
22. Cheyney State College
23. Lincoln University
24. Delaware County Community College
25. Presbyterian Medical Center
26. Chestnut Hill College
27. Montgomery County Community College
28. Presbyterian Medical Center
29. Rosemont College
30. Trenton State College
31. Cabrini College
32. Bucks County Community College
33. Abington Memorial Hospital
34. Kutztown University of Pennsylvania
35. Manor Junior College
36. Camden County Community College
37. Millersville University of Pennsylvania
38. Germantown Hospital & Medical Hospital
39. Delaware Valley College
40. Villanova University
41. Neumann College
42. Bloomsburg University of Pennsylvania
43. University of Pittsburgh
44. Delaware State College
45. University of Maryland
46. Indiana University of Pennsylvania
47. Immaculata College
48. Glouster County College
49. University of Delaware
50. East Stroudsburg University
51. Law School Admissions Services
52. Shippensburg University
53. Thomas A. Edison College
54. Northeastern Hospital
55. Rowan College/Glassboro State
56. Burlington County College
57. Bryn Mawr College
58. Moore College of Art & Design
59. Lock Haven University
60. Morgan State University
61. Spring Garden College
62. University of the Arts
63. Howard University
64. Bucknell University
65. Mercer County College
66. Helene Fuld School of Nursing
67. Mansfield University
68. Hampton University
69. Regents College
70. Harcum Junior College
71. Slippery Rock University
72. Art Institute of Philadelphia
73. Tyler School of Art
74. Delaware Technical College
75. Antioch University
76. Long Island University
77. Delaware Valley College
78. Commonwealth College
79. Clarion University
80. College of Chiropractic Medicine
81. Northhampton Community College
82. Norfolk State University

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<sup>2</sup> Listed in order of number of transfers.

The Colleges' graduates have performed very well on certification exams. Pass rates for Community College of Philadelphia graduates have consistently been higher than national averages (Figure 7).

**Figure 7**  
**1999 Certification Pass Rates**  
**Community College of Philadelphia and National<sup>3</sup> Averages**



<sup>3</sup> National averages for Dental Assisting and Dental Hygiene are not available.

The national Census Bureau has documented the value-added to income with completion of an associate degree. In the most recent Current Population Survey, associate degree holders earned, on average, 30 percent more per year than high school graduates (Figure 8).

Figure 8

**Annual Earnings by Highest Degree Earned  
for Adults 18 and Over With Earnings**

Not a High School Graduate	\$16,124
High School Graduate Only	\$22,895
Some College, no degree	\$24,804
<b>Associate's Degree</b>	<b>\$29,872</b>
Bachelor's Degree	\$40,478
Master's Degree	\$51,183
Professional Degree	\$95,148
Doctorate	\$77,445
Overall Average Earnings	\$29,514

Associate degree holders earned more than individuals who attended college but failed to graduate. The average lifetime earnings for associate's degree holders is presently estimated to be \$1,054,420 (Figure 9).

Figure 9

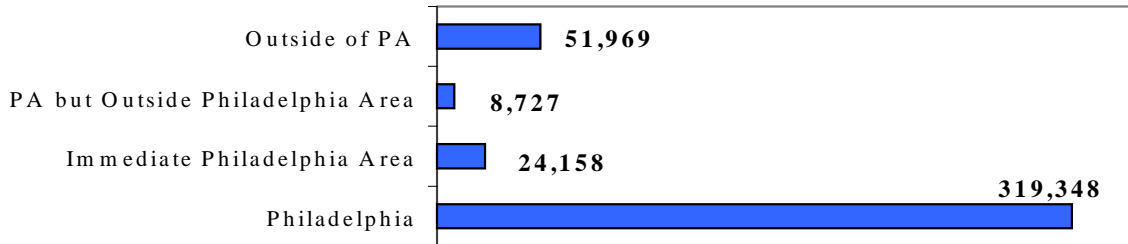
**Estimated Lifetime Earnings by Educational Level**

Not a High School Graduate	\$547,880
High School Graduate Only	\$809,920
Some College, no degree	\$829,120
<b>Associate's Degree</b>	<b>\$1,054,420</b>
Bachelor's Degree	\$1,488,960
Master's Degree	\$1,853,280
Professional Degree	\$3,309,960
Doctorate	\$2,707,400

Once students leave the College they remain in the City as active contributing members of the economy. Nearly 80 percent of former students were employed in Philadelphia within one year of leaving the College (Figure 10). This translates to

Figure 10

**Where Former Students Were Working Directly After Attending Community College of Philadelphia**



approximately 319,400 former students working in the City immediately after attending the College and an additional 24,158 working in the immediate Philadelphia area (Figure 11). Hospitals, banks, colleges and universities, City government, the IRS, and PECO are some of the local employers who have hired recent graduates of the College (Figure 12).

Figure 11

**Where Credit Students Were Working Directly After Leaving Community College of Philadelphia**

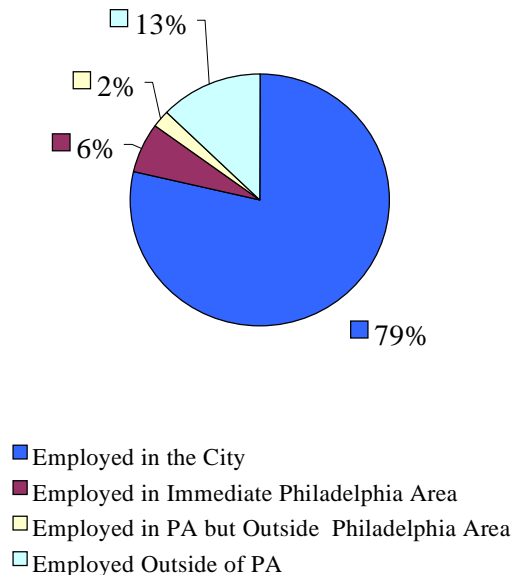


Figure 12  
**Most Frequently Cited Employers<sup>4</sup>**  
**of Recent Community College of Philadelphia Graduates**

Abington Memorial Hospital  
Albert Einstein Medical Center  
City of Philadelphia  
Childrens Hospital  
Community College of Philadelphia  
Core States /First Union Bank  
Frankford Hospital  
Hahnemann  
Independence Blue Cross  
Internal Revenue Service  
Mellon Bank  
Nazareth Hospital  
PECO  
Presbyterian Medical Center  
Temple University  
Thomas Jefferson University  
Philadelphia School District  
Sears  
US Postal Service  
University of Pennsylvania

**The College's Capital Investments**

The College is an important presence in the Philadelphia real estate market. The College occupies a 14-acre site at 17th and Spring Garden Street comprising 5 major buildings; a Childcare Center; a parking garage; sports/recreation deck and a parking lot.

In addition to its main campus properties, the College owns and operates three comprehensive Regional Centers located in Northwest Philadelphia (1300 West Godfrey Ave.); Northeast Philadelphia (12401 Townsend Road); and West

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<sup>4</sup> The Employers listed here are only a sample of the many businesses that hire Community College of Philadelphia graduates.

Philadelphia (4725 Chestnut Street). Each of the Regional Centers has had a positive impact on the physical appearance, safety and the retail base of the community in which it is located. Over the last decade, the College has invested over \$50,000,000 in physical plant improvements (Figure 13). The estimated 2000 value of real property owned by the College is \$160,370,000.

Figure 13

**History of Community College of Philadelphia Physical Plant Investments  
1990–2000**

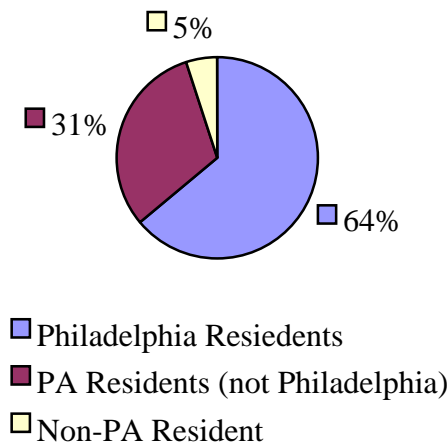
<b>Project</b>	<b>Year Completed</b>	<b>Value</b>
Winnet Student Life Instruction and Gym	1992	\$19,829,528
Public Arts (Cosomogram)	1994	\$411,980
West Regional Center	1993	\$3,175,495
Northeast Regional Center	1994	\$12,242,398
Child Development Center	1995	\$992,945
Library Expansion	1996	\$1,545,989
Welcome Center	1996	\$260,876
Main Campus Infra-Structure Projects	1999	\$600,156
ADA Elevator and Visitor Parking	1996	\$650,024
Lighting and Other Energy Saving Projects	1997	\$1,158,648
Northwest Regional Center	1999	\$7,250,000
Main Campus Deferred Maintenance Projects	2000	\$2,110,592
<hr/>		
Total 1990–2000		\$50,228,631

## The College as an Employer and Consumer

During 1998, Community College of Philadelphia employed 2,615 full- and part-time employees. This constitutes 0.4 percent of the City's current work force of 674,000. Of the College's work force, 64 percent reside in the City (Figure 14).

In calendar year 1998, College employees paid \$2,243,951 in City taxes. This is equivalent to 11.6 percent of the City's general fund operating budget allocation to the College for fiscal year 1999.

Figure 14  
**Community College of Philadelphia Faculty and Staff Residency**



In calendar year 1998, College employees paid \$2,243,951 in City taxes. This is equivalent to 11.6 percent of the City's general fund operating budget allocation to the College for fiscal year 1999.

During this same time period, College employees paid \$1,260,259 in State taxes. This is equivalent to 5.1 percent of the State's general fund operating budget allocation to the College for fiscal year 1999.

The total 1999 net wages paid to staff by the College were \$50,198,654. Of these wages, 65 percent or \$32,629,125 was spent in the City of Philadelphia and 85 percent or \$42,668,855 was spent in the State.

Students at the College are also an important part of the City and State's economic base. Total estimated annual expenditures by 1998-1999 full-time students equal \$30,013,475.

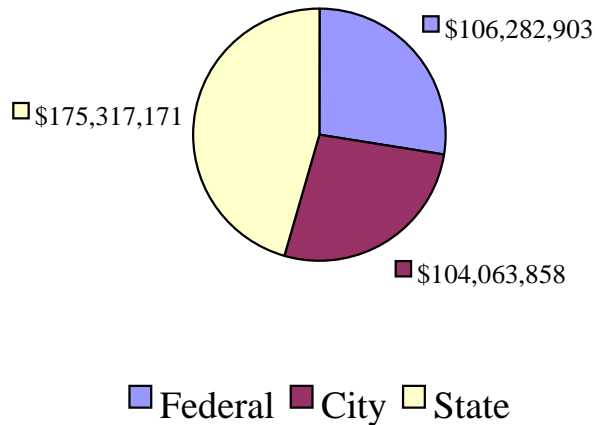
The College is a major buyer of goods and services in the City of Philadelphia and the State. Of the College's total fiscal year 1998-1999 purchases (\$24,328,766), 57 percent or \$13,385,244 was expended at vendors located within the City of

Philadelphia. Eighty-two percent (\$19,948,036) of the College's total fiscal year 1998-1999 purchases were expended at vendors located within the State.

**The College's Leverage of City Support to Generate Federal and State Dollars**

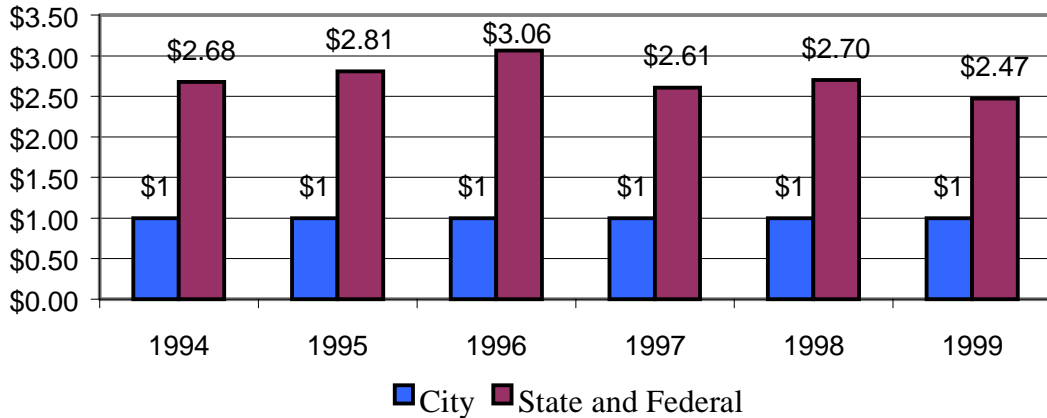
The College's Funding mechanisms allow it to leverage local dollars to infuse significant and greater amount of State and Federal dollars into the local economy. Between 1994 and 1999 the City awarded the College \$104,063,858. During this same time frame, state funds amounted to \$175,317,171 and Federal dollars were \$106,282,903 (Figure 15). For each local dollar received since 1994, the College

**Figure 15  
Leveraging of Federal and State Dollars with City Dollars 1994–1999**



received \$1.02 from the Federal government and \$1.68 from the State government. Thus, a total of \$2.70 was received from the Federal and State governments for each dollar of City support. Figure 16 contains this information annually between 1994 and 1999.

**Figure 16  
Leveraging of Federal and State Dollars with City Dollars 1994–1999**



## Expenditure Impact of the College, Staff and Students

Total Philadelphia direct expenditures by the College, faculty and staff, and full-time students in 1998-1999 totaled \$76,027,844. Using local expenditure multipliers (See Appendix 1 for details), this translates to a Philadelphia 1998-1999 direct and indirect expenditure impact of \$204,007,790 (Figure 17). This expenditure impact translates into the equivalent of 10,643 new jobs on top of the existing employment base of the College. A total of 13,258 jobs within the City are directly or indirectly attributable to the College's existence.

Figure 17

### Philadelphia Spending Impact

	Direct	+	Indirect	=	Total
<b>College</b>	\$13,385,244	+	\$16,476,119	=	\$29,861,363
<b>Staff</b>	\$32,629,125	+	\$58,079,842	=	\$90,708,967
<b>Students</b>	\$30,013,475	+	\$53,423,985	=	\$120,570,330
<b>Total</b>	\$76,027,844	+	\$127,979,946	=	\$204,007,790

Total Pennsylvania direct expenditures by the College, faculty and staff, and full-time students in 1998-1999 totaled \$92,630,366. Using appropriate expenditure multipliers, this translates to a Pennsylvania 1998-1999 direct and indirect expenditure impact of \$273,363,817 (Figure 18).

Figure 18

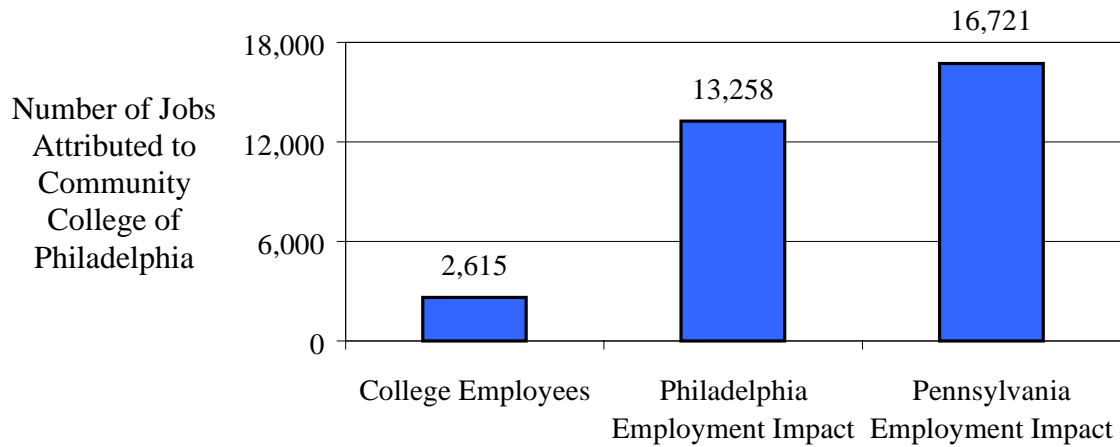
### Pennsylvania Spending Impact

	Direct	+	Indirect	=	Total
<b>College</b>	\$19,948,036	+	\$25,193,267	=	\$45,141,303
<b>Staff</b>	\$42,668,855	+	\$91,311,348	=	\$133,980,203
<b>Students</b>	\$30,013,475	+	\$64,228,836	=	\$94,242,311
<b>Total</b>	\$92,630,355	+	\$180,733,451	=	\$273,363,817

This expenditure impact translates into the equivalent of 14,106 new jobs on top of the existing employment base of the College. A total of 16,721 jobs within Pennsylvania are directly or indirectly attributable to the College's existence (Figure 19). (See Appendix 1 for details concerning the multipliers.)

Figure 19

**Philadelphia and Pennsylvania Employment Impact**



**Programs with Special Impacts on the Community**

Community College of Philadelphia has committed itself through its educational programs and services to addressing a wide range of special needs in the City of Philadelphia and the State. Some examples of these are noted below:

- The College participates actively in many middle/high school partnerships. Currently the College has collaborative projects underway with many public schools. Figure 20 contains a list of current school partnerships and the participating schools.
- The College participates in a variety of collaborative projects with higher education institutions. Two of these are the Drexel Blue–Gold Connection and the Temple Dual Admissions programs. Both of these collaborative projects provide a seamless transition from Community College of Philadelphia to the transfer school. Students receive an associate’s degree from the College followed by a bachelor’s degree from the universities.
- Business and Industry outreach - The College develops customized educational programs for business and industry to address immediate needs for employee education. A wide range of small and large firms benefits each year from these programs. A list of these firms appears in Figure 21.
- Faculty and staff actively participate in professional and civic organizations. Numerous local, state, and national awards for teaching excellence have been granted to Community College of Philadelphia faculty. Virtually all full-time faculty are members of numerous professional organizations associated with their respective field of study. Faculty have published numerous monographs, textbooks, and scholarly articles in professional journals. (See Appendix 2 for additional details.)

Figure 20

**Community College of Philadelphia and Philadelphia Middle and High School Partnerships in 1998–1999**

<b>Partnerships</b>	<b>Participating Philadelphia Schools</b>
Advanced College Experience	48 Public/Parochial/Private
Dual-Enrollment Agreement	District wide
Health Careers Opportunities Project	William Penn, Thomas Edison, Frankford Franklin Learning Center, Martin Luther King, Overbrook, John Bartram, John Bartram Human Services, Furness, Gratz, Bok, Mastbaurn, Carroll
North Philadelphia Community Compact	Ben Franklin, Thomas Edison, William Penn
Parkway Program	Four Parkway High Schools sites throughout the city
Pathways Partnership for Minorities in the Health Professions	William Penn
Philadelphia Gear-Up Network	Six School Districts of Philadelphia Clusters: William Penn, University City, Ben Franklin, Overbrook, West Philadelphia, Thomas Edison
PIC College Bound Youthworks	West Philadelphia and University City
Teacher Professional Development	District Wide
Tech Prep Partnership	John Bartram, Bok, Edison/Fareira, Frankford, Furness, Martin Luther King, Strawberry Mansion, University City, Kensington
TRIO Upward Bound	Ben Franklin and Thomas Edison

Figure 21

**Businesses and Organizations Participating with Community College of Philadelphia in Workforce Development Activities 1994–1999**

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Advanced Transit Services, Inc.	Learning Link at Cael
Albert Einstein Healthcare	Lucent Technologies
Allied Signal Chemical	Maritime Terminal of Pennsylvania, Inc.
American Red Cross	Master Plumbers Association of Philadelphia
Amtrak	Maternity Care Coalition
Angelo Brothers Company	Mayors Office of Community Services
Ben Franklin Technology Center of Southeastern Pennsylvania	Mellon/PSFS
Bensalem Youth Development	Mercy Healthcare
Brooks Electric	Morcom
Brotherhood Master Plumbers	National Park Service
C S X	Naval Air Technical Services Facility
C.A. Spalding	Norris Square Civic Association
Cardone Industries	PA Association of Child Care Agency
Carpenters Union	Parkway Corporation
Certisource	PECO Energy
Children's Hospital of Philadelphia	Pennsylvania Hospital
CONRAIL	Pep Boys
Corestates Bank	Philadelphia Empowerment Zones
Council for Adult and Experimental Learning	Philadelphia Gas Works
Crown Cork & Seal	Philadelphia Housing Authority
Curacao Tourist Board	Philadelphia Industrial Development Corporation
Defense Personnel Support Center	Philadelphia International Airport
Delaware Valley Industrial Resource Center	Philadelphia Parts Authority
Deloitte & Touche	Philadelphia Police Academy
Denver Architects	Philadelphia Prison System
Department of Commerce-City of Philadelphia	Philadelphia School District
Department of Streets - City of Philadelphia	Philadelphia Streets Department
Department of Treasury-City of Philadelphia	Philadelphia Water Department
District Council 21	PIC-Computer Specialist
DLA Systems Design Center	Plumbers Union
East Frankford Daycare Center	PM Corp
Fairmount Park Commission	PNC Bank
Federal Bureau of Prisons	Presbyterian Medical Center of Philadelphia
Federal Reserve Bank	Private Industry Council
First Union Bank	Reliance Insurance Company
Fox Chase Center	Resources for Human Development
Girard College	School District of Philadelphia
Girl Scouts of Southeastern Pennsylvania, Inc.	SEPTA
Greater Philadelphia Chamber of Commerce	Smurfit Stone
Green Acres Health	Social Security Administration
H. Freeman	SPD Inc.
Health Management Alternatives	Sprinkler Fitters Union
HUD	Tastykake
Independence Park Institute	The American Law Institute
Inglis House	The Connelly Foundation
Intercultural Family Services	Thomas Jefferson Hospital
Internal Revenue Service	U.S. Army Corps of Engineers
International Bed & Breakfast	U.S. Department of Labor - ETA
International Brotherhood of Electrical Workers	U.S. Navy
Juvenile Justice Center	United Parcel Service (UPS)
Kvaerner Shipbuilders	United Way of Pennsylvania
	University of Pennsylvania-Presbyterian Hospital
	V.A. Medical Center
	YMCA of Philadelphia

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## Appendix 1: Technical Notes/Multipliers

Staff expenditures were based on the assumption that 65 percent of 1999 net wages paid by the College were spent in the city and 85 percent of net wages were spent in the State. The expenditures for full-time students were derived from the average college-related expenditures provided by the Financial Aid Office. Half of the full-time students were designated as dependent students and half as independent. Part-time students were not factored into the student expenditure figures. An annual local multiplier of 1.78 and a state multiplier 2.14 were computed for staff and student expenditures. This multiplier was derived from the procedures developed by the Pennsylvania Economy League.

The College's expenditure data were taken directly from the College's financial records for the 1998–1999 year. The spending and employment multipliers applied to the College's expenditures were derived from a study conducted by Temple University in which an industry sector input/output model was the basis for establishing the multipliers used to calculate the College's spending and job impact in the City and State.

The job multiplier that was used for student and staff expenditures was 59 jobs for each million dollars in expenditures. It is based on the Caffrey and Isaacs economic impact study model.

- **Figure 22:** Community College of Philadelphia Expenditures and Employment Multipliers (*Pennsylvania Total*)
- **Figure 23:** Community College of Philadelphia Expenditures and Employment Multipliers (*Pennsylvania Only, does not include Philadelphia*)
- **Figure 24:** Community College of Philadelphia Expenditures and Employment Multipliers (*Philadelphia Only*)

Figure 22

**Community College of Philadelphia Expenditures and Employment Multipliers**  
*(Pennsylvania Total)*

Category	Direct Expenditures	Expenditures Multiplier	Indirect Expenditures	Total Expenditures	Employment Multiplier	Employment Impact
New & Maintenance Construction	\$4,249,959.50	2.4213	\$6,040,467.44	\$10,290,426.94	29.3	124.52
Paper & Allied Products	\$408,067.84	2.1638	\$474,909.35	\$882,977.19	16.4	6.69
Printing & Publishing	\$895,907.15	2.2251	\$1,097,575.85	\$1,993,483.00	23.9	21.41
Electronic & Electrical Equipment	\$602,307.33	2.239	\$746,258.78	\$1,348,566.11	21.9	13.19
Motor Vehicles & Equipment	\$41,179.19	2.2913	\$53,174.69	\$94,353.88	18.7	0.77
Other Transportation Equipment	\$25,856.93	2.2208	\$31,566.14	\$57,423.07	20.7	0.54
Misc. Manufacturing	\$416,978.78	2.2209	\$509,089.39	\$926,068.17	22.3	9.30
Transportation	\$84,527.87	2.2567	\$106,226.17	\$190,754.04	28.4	2.40
Communications	\$330,523.60	1.9169	\$303,057.09	\$633,580.69	15.8	5.22
Electric, Gas & Sanitation	\$2,429,254.39	1.8569	\$2,081,628.09	\$4,510,882.48	12.0	29.15
Insurance	\$1,045,619.97	2.5913	\$1,663,895.06	\$2,709,515.03	30.2	31.58
Real Estate	\$567,746.35	1.3742	\$212,450.68	\$780,197.03	6.5	3.69
Hotels & Lodging	\$78,912.33	2.3003	\$102,609.70	\$181,522.03	41.0	3.24
Personal Services	\$5,380.17	2.4114	\$7,593.57	\$12,973.74	55.7	0.30
Business Services	\$2,408,067.38	2.3684	\$3,295,199.40	\$5,703,266.78	37.7	90.78
Eating & Drinking Establishments	\$215,279.11	2.2108	\$260,659.95	\$475,939.07	47.3	10.18
Health Services	\$5,277,854.07	2.3463	\$7,105,574.93	\$12,383,429.00	34.8	183.67
Misc. Services	\$789,561.01	2.3586	\$1,072,697.59	\$1,862,258.60	33.3	26.29
Private Households	\$75,052.85	1.3815	\$28,632.66	\$103,685.51	18.7	1.40
<b>Total</b>	<b>\$19,948,035.82</b>		<b>\$25,193,266.54</b>	<b>\$45,141,302.36</b>		<b>564.34</b>

Figure 23

**Community College of Philadelphia Expenditures and Employment Multipliers  
(Philadelphia Only)**

Category	Direct Expenditures	Expenditures Multiplier	Indirect Expenditures	Total Expenditures	Employment Multiplier	Employment Impact
New & Maintenance Construction	\$1,184,851.45	2.4213	\$1,684,029.37	\$2,868,880.82	29.3	34.72
Paper & Allied Products	\$217,477.04	2.1638	\$253,099.78	\$470,576.82	16.4	3.57
Printing & Publishing	\$573,259.43	2.2251	\$702,300.13	\$1,275,559.56	23.9	13.70
Electronic & Electrical Equipment	\$294,215.93	2.2390	\$364,533.54	\$658,749.47	21.9	6.44
Motor Vehicles & Equipment	\$25,173.78	2.2913	\$32,506.90	\$57,680.68	18.7	0.47
Other Transportation Equipment		2.2208			20.7	
Misc. Manufacturing	\$117,127.55	2.2209	\$143,001.03	\$260,128.58	22.3	2.61
Transportation	\$49,092.01	2.2567	\$61,693.93	\$110,785.94	28.4	1.39
Communications	\$147,824.89	1.9169	\$135,540.64	\$283,365.53	15.8	2.34
Electric, Gas & Sanitation	\$2,100,273.88	1.8569	\$1,799,724.69	\$3,899,998.57	12.0	25.20
Insurance	\$799,743.10	2.5913	\$1,272,631.20	\$2,072,374.30	30.2	24.15
Real Estate	\$550,483.83	1.3742	\$205,991.05	\$756,474.88	6.5	3.58
Hotels & Lodging	\$42,446.47	2.3003	\$55,193.15	\$97,639.62	41.0	1.74
Personal Services	\$1,194.00	2.4114	\$1,685.21	\$2,879.21	55.7	0.07
Business Services	\$1,359,876.45	2.3684	\$1,860,854.93	\$3,220,731.38	37.7	51.27
Eating & Drinking Establishments	\$175,249.95	2.2108	\$212,192.63	\$387,442.58	47.3	8.29
Health Services	\$4,910,829.24	2.3463	\$6,611,449.41	\$11,522,278.65	34.8	170.90
Misc. Services	\$778,537.90	2.3586	\$1,057,721.59	\$1,836,259.49	33.3	25.93
Private Households	\$57,587.14	1.3815	\$21,969.49	\$79,556.63	18.7	1.08
<b>Total</b>	<b>\$13,385,244.04</b>		<b>\$16,476,118.66</b>	<b>\$29,861,362.70</b>		<b>377.44</b>

Figure 24

**Community College of Philadelphia Expenditures and Employment Multipliers**  
*(Pennsylvania Only, does not include Philadelphia)*

Category	Direct Expenditures	Expenditures Multiplier	Indirect Expenditures	Total Expenditures	Employment Multiplier	Employment Impact
New & Maintenance Construction	\$3,065,108.05	2.4213	\$4,356,438.07	\$7,421,546.12	29.3	89.81
Paper & Allied Products	\$190,590.80	2.1638	\$221,809.57	\$412,400.37	16.4	3.13
Printing & Publishing	\$322,647.72	2.2251	\$395,275.72	\$717,923.44	23.9	7.71
Electronic & Electrical Equipment	\$308,091.40	2.239	\$381,725.24	\$689,816.64	21.9	6.75
Motor Vehicles & Equipment	\$16,005.41	2.2913	\$20,667.79	\$36,673.20	18.7	0.30
Other Transportation Equipment	\$25,856.93	2.2208	\$31,566.14	\$57,423.07	20.7	0.54
Misc. Manufacturing	\$299,851.23	2.2209	\$366,088.37	\$665,939.60	22.3	6.69
Transportation	\$35,435.86	2.2567	\$44,532.24	\$79,968.10	28.4	1.01
Communications	\$182,698.71	1.9169	\$167,516.45	\$350,215.16	15.8	2.89
Electric, Gas & Sanitation	\$328,980.51	1.8569	\$281,903.40	\$610,883.91	12.0	3.95
Insurance	\$245,876.87	2.5913	\$391,263.86	\$637,140.73	30.2	7.43
Real Estate	\$17,262.52	1.3742	\$6,459.63	\$23,722.15	6.5	0.11
Hotels & Lodging	\$36,465.86	2.3003	\$47,416.55	\$83,882.41	41.0	1.50
Personal Services	\$4,186.17	2.4114	\$5,908.36	\$10,094.53	55.7	0.23
Business Services	\$1,048,190.93	2.3684	\$1,434,344.47	\$2,482,535.40	37.7	39.52
Eating & Drinking Establishments	\$40,029.17	2.2108	\$48,467.32	\$88,496.48	47.3	1.89
Health Services	\$367,024.83	2.3463	\$494,125.53	\$861,150.36	34.8	12.77
Misc. Services	\$11,023.11	2.3586	\$14,976.00	\$25,999.11	33.3	0.37
Private Households	\$17,465.71	1.3815	\$6,663.17	\$24,128.88	18.7	0.33
<b>Total</b>	<b>\$6,562,791.78</b>		<b>\$8,717,147.88</b>	<b>\$15,279,939.66</b>		<b>186.90</b>

## Appendix 2: Staff Accomplishments

The following is a sample list of accomplishments and professional and civic activities the staff of Community College of Philadelphia have performed or been awarded during the past few years.

- One of 16 U.S. community college experts running Ford Foundation funded workshops in China
- Performed with the Philadelphia Orchestra
- Debuted an original composition in the new musical *Little Souls*
- Vice Chair of the Curriculum Review Board of the American Association of Medical Assistants
- Taught language teaching methodologies to primary and secondary school English teachers in the People's Republic of China
- Received an Outstanding Educator Award from Philadelphia University
- Elected to a two-year term on the board of the Pennsylvania Association for Developmental Education.
- Author: *World Religions: A Study Guide* published by Wadsworth Publishing Company
- Performed research determining safety levels for ground and well water.
- Art displayed at an exhibition titled "A Gathering of Women: A Healing Place-1,000 Expressions of Life"
- Organizer of "Cross-Sections of Experience", a three day seminar at Community College of Philadelphia
- Won the 1998 City Paper award for Fiction Writing
- Selected by the Pennsylvania Council on the Arts to receive a 1999 Fellowship in Literature for short fiction
- Pastoral mural of the Wissahickon put on display at the Marriott Hotel of Center City
- Presented a solo exhibit at the Gross McCleaf Gallery in Center City Philadelphia
- Released two jazz compact disc's
- Exhibited art at the Locks Gallery on Washington Square in Philadelphia and at Moravian College
- Opened a permanent art exhibit called "China Web" at the Philadelphia Convention Center
- Received \$30,000 Leeway Foundation Grant for Excellence
- Authored two recent publications: *Stories We Brought With Us* (Prentice-Hall) and *Guide to the American Heritage ESL Dictionary* (Houghton-Mifflin)
- Vice-Chair of the Curriculum Review Board of the American Association of Medical Assistants endowment
- Received the Berenice Post Lifetime Achievement Award from the Philadelphia Society of Radiologic Technologists
- Author for publications including the *Boston Globe*, *Washington Post*, *Islands* magazine, *Chestnut Hill Local*, *Jewish Exponent*, *Philadelphia Inquirer*, *Main Line Times*, and the *Suburban Express*
- Board member for the Pennsylvania Developmental Education Association
- Board member for the Interstate Developmental Education Association
- Founding member of the Philadelphia Area Writing Program Administrators Association

- Received the Miriam Clubok Award from the National Organization for Human Service Education for exceptional volunteer efforts
- Elected vice-president of the Mid-Atlantic Region Association for Asian Studies
- Honorable mention for the Ernest A. Lynton Award for Faculty Professional Service and Outreach, New England Resource Center for Higher Education
- Published four articles in professional mathematics journals over the past five years
- Under contract to publish a book on Phlebotomy (Prentice-Hall)
- Member, Council of Associate Degree Nursing Programs Competency Committee and the Executive Committee for the National League for Nursing
- Member of the Board of Directors and Chairperson of the Education Committee for the Delaware Valley Chapter of the Society for Nutrition-Education
- Member of the Executive Committee for the Practice Group of the American Dietetic Association
- Chair of the Publications Committee for the Pennsylvania Association of Developmental Educators
- President of the Philadelphia Chapter of American Association of Medical Assistants
- Published monograph in January 2000 titled *Invertible Disjointness Preserving Operators*
- Received an award from the American Cancer Society for volunteer work
- Awarded the 1998 Lindback Award for "distinguished classroom presence"
- Given the Alana Collos Award for Teaching Excellence
- Original Terrecotta Platter accepted into the National Juried Show, "Clay On The Wall: Third National Ceramic Exhibition", at Texas Tech University
- Leader, National Institute for Leadership Development program
- Wrote a chapter in the book *The Day My Father Died* published by Running Press
- 1997 recipient of the Lindback Award recognizing faculty for distinguished teaching
- Received award for Excellence in Leadership by the National League for Nursing
- Honorable Mention in City Paper's photo contest, "Urban Landscapes"
- Named the Dr. Dorothy del Bruno Dewey Scholar for 1998 at Teacher's College
- Completed a chapter titled, "Fluid, Electrolytes, and Acid-Base Balance" in the textbook *Basic Nursing* (Potter and Perry) published by C.V. Mosby (1998)
- Wrote and published a book titled *Living in the Dead Zone: Janis Joplin and Jim Morrison*
- Completed a book of five fiction and nonfiction short stories based on his historical research and experiences as an African-American journalist
- Received the Berenice Post Lifetime Achievement Award from the Philadelphia Society of Radiologic Technologists
- Awarded the prestigious Pew Fellowship
- Released a highly acclaimed compact disc that preserves the never recorded music of American composer Jerome Kern
- Won the 1999 Lindback Award for exceptional teaching
- Board Member, Graduate School of Fine Arts Association
- Received a Teaching Excellence Award from the National Institute for Staff and Organizational Development

- Received the Eastern Pennsylvania and Delaware section of the Mathematical Association of America's Distinguished teaching Award
- Member of an Independent Review Panel to review charter school applications and make recommendations to the Philadelphia School Board
- Volunteer educator for the Philadelphia Zoological Garden
- Elected to the Board of Directors of two academic associations
- Implemented free "Lazy Eye" screenings at the Child Care Center at Community College of Philadelphia. Presents one man show to senior citizens in the area. Awarded the 1998 Jane S. Abrahams Award for community service
- Secretary of the Alumni Association Board of Trustees of the Pennsylvania College of Optometry
- Co-chair of Student Readiness Work Team for Education Summit to address problems and recommend solutions to the public schools of Philadelphia
- Member of the American Association of Community Colleges "Bridges to Healthy Communities" mentor team
- Serves on the Technology Advisory Committee for Girard College and the Cradle of Liberty Council, Boy Scouts of America
- Caseworker for the Glen Mills Schools, Glen Mills, Pennsylvania
- Appointed as a program consultant with the Pennsylvania Humanities Council
- Volunteer interviewer for "Survivors of the Shoah Visual History Foundation." Project founded by Steven Spielberg to document accounts of survivors and witnesses of the Holocaust
- Advisory board of the Mid-Atlantic Region Association for Asian Studies
- Appointed vice-president for information systems and telecommunications to the Telecommunications Policy Advisory Commission
- Recognized by the United Way of Southeastern Pennsylvania as an outstanding volunteer
- Selected as a Kellogg Fellow for the 1998–1999 Expanding Leadership Diversity in Community Colleges program
- Selected as a Leader in the National Institute for Leadership Development program
- Bridges to Healthy Communities Mentor, American Association of Community Colleges and Centers for Disease Control and Prevention, Division of Adolescent and School Health
- State coordinator for the Pennsylvania National Identification Program for the Advancement of Women in Higher Education
- Co-chair, Caucus for Lesbian, Gay, and Bisexual Concerns, International AIDS Society
- Director of the Urban Planning Committee, International AIDS Society Caucus for Lesbian/Gay/Bi-sexual Concerns
- Elected Chair of the National Institute for Literacy Advisory Board
- Chairman of H.O.M.E.S., (Housing Opportunities Means Everybody Shares) Inc.
- External Steering Committee member, National Leadership Conference, Centers for Disease Control and Prevention, Division of Adolescent and School Health
- Selected as Alumnus of the Year by Kent State University's Counseling and Human Service Development Department
- Volunteer educator teaching English to Japanese women in Philadelphia and Japanese language and culture to colleagues
- Lifestyle Team Leader for the Philadelphia region of the American Cancer Society

- Educator for the Literacy Volunteers of America/Burlington County Chapter
- Member of Board of Directors for Community Women's Education Project
- Member of Advisory Committee for Horizon House Education Department
- Member of the Consumer Advisory Committee of the Office of Vocational Rehabilitation
- Vice-president/Secretary of Cheshire Home Advisory Board (an independent living arrangement for adults with disabilities)
- Volunteer Psychologist for Emergency Medical Service of the American Red Cross
- Member of the 1999 Philadelphia Mayor-elect's Transition Team (subcommittee for Adult Services)
- Philadelphia Zoo Representative for the for the Earthwatch Institute
- Volunteer attorney for the AIDS Law Project of Pennsylvania and served on the Continuing Legal Education panel "Representing Gay & Lesbian Clients: Planning Advocacy and Cutting-Edge Issues"
- Chaired the Germantown Montessori School Toy Drive for Underprivileged Children
- Serves on the steering committee for the Family Violence Coordinator's Council of Philadelphia
- Member of the Board of the Women's Health Environmental Network (WHEN)
- Member of the Board for the Female Hebrew Benevolent Society (provides aid to Jewish women in need)
- Volunteer educator for the Foundation of Architecture performing research, writing, and teaching the architectural history of Philadelphia
- Member of the Mayor's Commission on People with Disabilities
- Volunteer educator for the Foundation of Architecture
- Volunteer leader of bike tours for the Multiple Sclerosis Society
- Elected to serve as the 1998 Program Chair of the Middle Management Discussion Group of the Library Administration and Management Division of the American Library Association.
- Secretary of the Board for the Directors of the Delaware County AIDS Network (1995–97)
- Volunteer for Big Brother/Big Sisters of Philadelphia (1992–96)
- Member of the Board of Directors for "hireAbility" (also known as Delaware Valley Project With Industry), an employment agency for people with disabilities
- Former president and secretary of the 18th District Police Mini Station Advisory Board
- Volunteer at St. Vincent's Hall which provides meals to the needy, a health clinic, and a legal clinic
- Received the Citizen Diplomacy Award from the International Visitors' Center
- Vice-president of the Evangelical Lutheran Church of America (ELCA)
- Awarded the 1997 Miriam Clubock award of the National Organization for Human Service Education (NOHSE) for "outstanding leadership and support of NOHSE"
- Active participant in the World Affairs Council of Philadelphia, Philadelphia Museum of Arts, and the Public Interest Law Center
- Elected vice-chair of the Curriculum Review Board of the American Association of Medical Assistants
- Treasurer on the Board of Directors of the West Philadelphia Mental Health Consortium
- Founding member of the Weaver's Way Cooperative in South Mount Airy

- Serves on the Board of the Cheshire Foundation which founded a home for physically disabled adults
- Awarded the Distinguished Service Award
- Created web site for the Philadelphia Dance Alliance
- Elected vice-president, president-elect, of the Pennsylvania Community College Library Consortium
- Honored by Women's Way for her contribution to the Community Women's Project
- Represented the College on the Mayor's Economic Development Cabinet
- Named Executive Administrator of the World Trade Association of Philadelphia, Inc.
- Chairing the City of Philadelphia Planning Commission
- Member, University City Arts League Board of Directors
- Volunteer basketball coach for boys and girls aged 5–12 for the Concerned Parents Network
- Board Member, The Pennsylvania Council for International Education
- Active participant in the College-Community Partnerships for Health
- Board Member CORP (Community Outreach Partnerships) TMC center and Literacy Coordinator at TMC Center
- Active volunteer with Integrity/Philadelphia, the caucus for Lesbian/Gay Episcopalians
- Organized a political forum at Community College of Philadelphia bringing in all major Mayoral candidates to discuss issues effecting Philadelphia
- Over the past 11 years, the computer center has been scanning career interest surveys and running reports for the Boy Scouts helping them properly allocate their limited resources to programs
- Member and occasional Officer of the West Central Germantown Neighbors Association
- Has voluntarily painted several large murals in Philadelphia public schools
- Active member of the Spruce Hill Community Association
- Science judge for the NAACP's ACT-SO competition and a science judge at Lincoln University
- Discussed medical careers with Girl Scouts at the Franklin Institute
- Advisory Board Member for Mount Airy Teen Arts Council
- Coach for youth athletic teams in NW Philadelphia
- Safety instructor for the Coast Guard Auxiliary
- Coordinator of a memorial scholarship to benefit high-school students attending parochial secondary schools