



**The Economic Benefits of International Education to the United States for the 2005-2006 Academic Year:  
A Statistical Analysis**

NAFSA estimates that foreign students and their dependents contributed approximately \$13.49 billion to the U.S. economy during the 2005-2006 academic year. This conservative figure is based on tuition figures from the College Board, enrollment figures from the Institute of International Education's *Open Doors 2006* report, living expenses calculated from College Board figures and analysis of the data by Lynn Schoch and Jason Baumgartner at Indiana University – Bloomington's Office of International Services.

NAFSA's annual *Economic Impact Statements* estimate the amount of money foreign students bring to the United States to support their education. This report does not rely on a "multiplier effect." Although this might provide a more accurate estimate of actual economic impact, there is no consensus on the appropriate size of such a multiplier. Along with our partners at the Institute of International Education, the College Board, and Indiana University, we are committed to continuing efforts to improve our data and methodology. By any measure, international education makes a significant contribution to the U.S. economy.

# Pennsylvania

Total Number of Foreign Students: 22,419

## Part 1: Net Contribution to State Economy by Foreign Students (2005-06)

Contribution from Tuition and Fees to State Economy:	\$523,581,000
Contribution from Living Expenses:	\$429,965,000
Total Contribution by Foreign Students:	\$953,546,000
Less U.S. Support of 37.9%	- \$361,532,000
Plus Dependents' Living Expenses:	+ \$19,280,000

### *Net Contribution to State Economy by Foreign Students and their Families:*

**\$611,294,000**

## Part 2: Contribution to State Economy by Foreign Students' Dependents (2005-06)

<i>Spouses' Contribution</i>		<i>Children's Contribution</i>	
Percent of Married Students:	12.1%	Number of Couples in the U.S.:	2,703
Percent of Spouses in the U.S.:	85.0%	Number of Children per Couple:	0.6
Number of Spouses in the U.S.:	2,703	Number of Children in the U.S.:	1,618
Additional Expenses for a Spouse: (% of student living expenses)	25.0%	Additional Expenses for a Child: (% of student living expenses)	20.0%
Spouses' Contribution:	\$13,036,000	Children's Contribution:	\$6,243,000

### *Net Contribution to State Economy by Foreign Students' Dependents:*

**\$19,280,000**

## Part 3: Foreign Student Contribution from Tuition/Fees and Living Expenses (2005-06)

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Albright College, Reading	68	\$1,715.8	\$1,231.4	\$1,184.6	\$1,762.6
Allegheny College, Meadville	25	\$666.3	\$375.1	\$419.4	\$621.9
Allegheny County Community C. Allegheny Campus, Pittsburgh	160	\$1,152.0	\$2,840.0	\$245.4	\$3,746.5
Alvernia College, Reading	16	\$302.4	\$270.2	\$86.4	\$486.1
Arcadia University, Glenside	46	\$1,103.5	\$1,001.3	\$295.8	\$1,809.0
Baptist Bible College & Seminary, Clarks Summit	18	\$220.3	\$226.4	\$152.7	\$294.0
Bloomsburg University of Pennsylvania, Bloomsburg	89	\$985.6	\$1,142.2	\$297.2	\$1,830.6
Bryn Mawr College, Bryn Mawr	117	\$3,459.7	\$2,740.2	\$2,336.9	\$3,863.0
Bucknell University, Lewisburg	105	\$3,422.2	\$1,662.9	\$2,025.9	\$3,059.2
Butler County Community College, Butler	2	\$12.8	\$38.4	\$3.2	\$47.9
Cabrini College, Radnor	15	\$360.0	\$329.9	\$107.6	\$582.3
California University of Pennsylvania, California	39	\$478.4	\$635.7	\$162.2	\$951.9

Carlow College, Pittsburgh	13	\$217.8	\$208.7	\$65.9	\$360.6
Carnegie Mellon University, Pittsburgh	2,602	\$82,353.3	\$54,773.6	\$63,804.1	\$73,322.8
Cedar Crest College, Allentown	23	\$522.4	\$417.0	\$377.5	\$561.8
Chatham College, Pittsburgh	50	\$1,139.8	\$852.8	\$302.6	\$1,690.1
Chestnut Hill College, Philadelphia	15	\$291.6	\$269.4	\$87.0	\$474.0
Cheyney University of Pennsylvania, Cheyney	7	\$85.9	\$89.4	\$26.8	\$148.5
Clarion University of Pennsylvania, Clarion	100	\$1,226.6	\$1,289.9	\$365.8	\$2,150.7
College of Mercy, Dallas	3	\$56.1	\$53.0	\$16.7	\$92.4
Community College of Philadelphia, Philadelphia	10	\$87.3	\$207.4	\$18.1	\$276.6
Curtis Institute of Music, Philadelphia	62	\$1,449.6	\$1,282.6	\$301.5	\$2,430.7
De Sales University, Center Valley	15	\$300.0	\$273.9	\$83.2	\$490.7
Delaware County Community College, Media	169	\$1,247.2	\$3,312.1	\$280.5	\$4,278.9
Delaware Valley College, Doylestown	4	\$82.6	\$73.2	\$38.7	\$117.1
DeVry University - Ft. Washington Campus, Ft. Washington	10	\$117.9	\$191.8	\$42.1	\$267.6
Dickinson College, Carlisle	119	\$3,822.3	\$2,201.6	\$2,423.0	\$3,600.8
Drexel University, Philadelphia	1,476	\$33,505.2	\$39,636.9	\$18,774.5	\$54,367.6
Duquesne University, Pittsburgh	457	\$9,012.5	\$8,654.8	\$3,477.4	\$14,189.9
East Stroudsburg University, East Stroudsburg	45	\$550.2	\$497.8	\$152.3	\$895.7
Eastern University, St. Davids	66	\$1,242.8	\$1,209.2	\$345.7	\$2,106.3
Edinboro University of Pennsylvania, Edinboro	139	\$1,357.2	\$1,856.8	\$462.4	\$2,751.6
Elizabethtown College, Elizabethtown	62	\$1,562.4	\$984.3	\$627.0	\$1,919.7
Evangelical School of Theology, Myerstown	3	\$36.3	\$57.5	\$20.7	\$73.1
Franklin & Marshall College, Lancaster	142	\$4,612.2	\$2,629.6	\$2,913.3	\$4,328.4
Gannon University, Erie	121	\$2,354.0	\$2,133.2	\$603.4	\$3,883.8
Geneva College, Beaver Falls	20	\$338.2	\$311.5	\$98.3	\$551.4
Gettysburg College, Gettysburg	32	\$1,017.3	\$573.4	\$639.8	\$950.9
Grove City College, Grove City	17	\$177.5	\$209.8	\$154.8	\$232.5
Gwynedd-Mercy College, Gwynedd Valley	41	\$720.8	\$777.8	\$227.9	\$1,270.7
Harcum College, Bryn Mawr	29	\$415.3	\$461.1	\$54.1	\$822.3
Harrisburg Area Community College, Harrisburg	180	\$1,377.0	\$3,527.9	\$301.8	\$4,603.2
Haverford College, Haverford	45	\$1,416.0	\$1,021.8	\$977.8	\$1,459.9
Holy Family College, Philadelphia	12	\$206.9	\$247.8	\$66.1	\$388.6
Immaculata College, Immaculata	22	\$429.0	\$447.0	\$167.5	\$708.6
Indiana University of Pennsylvania, Indiana	603	\$6,738.9	\$7,050.3	\$2,693.1	\$11,096.1
Juniata College, Huntingdon	68	\$1,717.7	\$1,130.5	\$1,145.3	\$1,702.9
King's College, Wilkes-Barre	6	\$121.9	\$116.0	\$51.8	\$186.1
Kutztown University of Pennsylvania, Kutztown	77	\$880.9	\$985.9	\$264.4	\$1,602.3
La Roche College, Pittsburgh	157	\$2,634.5	\$2,652.1	\$967.8	\$4,318.8
La Salle University, Philadelphia	165	\$4,270.2	\$3,738.8	\$1,531.0	\$6,478.0
Lafayette College, Easton	129	\$3,847.0	\$2,757.6	\$2,651.8	\$3,952.9
Lancaster Bible College, Lancaster	16	\$200.2	\$214.2	\$105.0	\$309.3
Lancaster Theological Seminary, Lancaster	1	\$12.1	\$14.6	\$7.7	\$19.0
Lebanon Valley College, Annville	9	\$217.9	\$142.4	\$88.5	\$271.7
Lehigh Carbon Community College, Schnecksville	31	\$212.0	\$608.0	\$50.4	\$769.6
Lehigh University, Bethlehem	577	\$17,990.9	\$11,713.9	\$9,501.2	\$20,203.6
Lehigh Valley College, Center Way	1	\$7.9	\$19.2	\$1.7	\$25.4

Lincoln University, Lincoln University	117	\$1,042.7	\$1,855.5	\$437.3	\$2,460.9
Lock Haven University of Pennsylvania, Lock Haven	123	\$1,481.4	\$1,658.9	\$601.6	\$2,538.8
Lutheran Theological Seminary at Gettysburg, Gettysburg	5	\$60.5	\$86.0	\$40.3	\$106.2
Luzerne County Community College, Nanticoke	7	\$47.9	\$134.3	\$11.4	\$170.7
Lycoming College, Williamsport	12	\$284.2	\$180.3	\$186.8	\$277.7
Mansfield University of Pennsylvania, Mansfield	30	\$361.9	\$422.7	\$149.5	\$635.2
Marywood University, Scranton	46	\$952.2	\$970.5	\$274.6	\$1,648.1
Mercyhurst College, Erie	175	\$3,108.0	\$2,844.3	\$1,056.2	\$4,896.1
Messiah College, Grantham	74	\$1,585.1	\$1,156.7	\$674.8	\$2,067.0
Millersville University, Millersville	60	\$736.0	\$812.0	\$224.9	\$1,323.1
Montgomery County Community College, Blue Bell	161	\$1,217.2	\$3,158.7	\$269.0	\$4,106.9
Moravian College, Bethlehem	22	\$545.9	\$380.4	\$363.9	\$562.3
Muhlenberg College, Allentown	10	\$285.5	\$167.7	\$182.0	\$271.1
Neumann College, Aston	47	\$813.1	\$874.9	\$315.1	\$1,372.9
Northampton County Area Community College, Bethlehem	106	\$667.8	\$1,448.4	\$130.3	\$1,985.9
Palmer Theological Seminary, Wynnewood	17	\$205.8	\$306.3	\$138.4	\$373.6
Peirce College, Philadelphia	58	\$682.1	\$1,077.0	\$431.6	\$1,327.4
Penn State U. - Non-University Park Campuses, University Park	352	\$8,045.7	\$5,833.8	\$2,738.6	\$11,140.9
Penn State University - University Park, University Park	3,199	\$75,934.9	\$53,630.1	\$65,414.2	\$64,150.9
Pennsylvania College of Technology, Williamsport	31	\$346.0	\$492.1	\$121.3	\$716.8
Pennsylvania Institute of Technology, Media	1	\$9.0	\$19.2	\$1.8	\$26.4
Philadelphia Biblical University, Langhorne	29	\$411.2	\$413.8	\$130.2	\$694.8
Philadelphia University, Philadelphia	111	\$2,449.8	\$2,065.0	\$714.7	\$3,800.1
Pittsburgh Technical Institute, Oakdale	1	\$7.9	\$19.2	\$1.7	\$25.4
Pittsburgh Theological Seminary, Pittsburgh	14	\$169.5	\$236.5	\$112.1	\$293.9
Point Park University, Pittsburgh	59	\$960.5	\$1,027.6	\$314.7	\$1,673.4
Reading Area Community College, Reading	22	\$173.3	\$383.5	\$34.3	\$522.5
Robert Morris University, Moon Township	115	\$1,742.5	\$2,068.3	\$528.7	\$3,282.1
Rosemont College, Rosemont	23	\$447.4	\$464.3	\$138.1	\$773.6
Saint Francis College, Loretto	5	\$101.8	\$85.1	\$27.5	\$159.4
Saint Joseph's University, Philadelphia	197	\$5,342.6	\$4,644.1	\$1,355.9	\$8,630.8
Saint Vincent College, Latrobe	18	\$379.9	\$305.0	\$274.6	\$410.3
Seton Hill University, Greensburg	35	\$765.5	\$715.0	\$232.6	\$1,247.8
Shippensburg University of Pennsylvania, Shippensburg	34	\$392.8	\$454.8	\$119.9	\$727.7
Slippery Rock University of Pennsylvania, Slippery Rock	113	\$1,364.8	\$1,297.0	\$385.2	\$2,276.6
St. Charles Borromeo Seminary, Wynnewood	7	\$78.2	\$125.7	\$52.9	\$151.0
Susquehanna University, Selinsgrove	20	\$519.0	\$331.3	\$209.3	\$641.0
Swarthmore College, Swarthmore	99	\$3,088.4	\$2,225.5	\$2,133.5	\$3,180.4
Temple University, Philadelphia	1,847	\$30,911.4	\$43,825.0	\$19,345.6	\$55,390.8
The Lutheran Theological Seminary at Philadelphia, Philadelphia	5	\$60.5	\$101.2	\$35.7	\$126.0

Thiel College, Greenville	61	\$988.2	\$981.4	\$789.4	\$1,180.2
Thomas Jefferson University, Philadelphia	70	\$1,538.3	\$1,491.0	\$1,474.7	\$1,554.6
University of Pennsylvania, Philadelphia	3,689	\$107,091.7	\$81,844.6	\$87,287.7	\$101,648.6
University of Pittsburgh - Pittsburgh Campus, Pittsburgh	1,618	\$38,791.7	\$34,268.5	\$40,885.1	\$32,175.1
University of Pittsburgh at Bradford, Pittsburgh	2	\$39.6	\$30.2	\$17.3	\$52.5
University of Pittsburgh at Greensburg, Pittsburgh	3	\$59.3	\$47.0	\$43.1	\$63.2
University of Scranton, Scranton	94	\$2,232.5	\$2,218.4	\$721.1	\$3,729.8
University of the Arts, Philadelphia	61	\$1,426.2	\$834.3	\$247.5	\$2,013.0
Ursinus College, Collegeville	28	\$880.6	\$474.6	\$544.6	\$810.6
Valley Forge Military Junior College, Wayne	27	\$508.3	\$403.9	\$56.4	\$855.8
Villanova University, Villanova	341	\$9,967.4	\$7,516.0	\$2,388.8	\$15,094.6
West Chester University, West Chester	105	\$1,287.9	\$1,498.8	\$405.1	\$2,381.6
Westminster Theological Seminary, Philadelphia	90	\$1,089.3	\$1,672.4	\$602.0	\$2,159.8
Widener University, Chester	130	\$3,200.6	\$2,605.8	\$1,150.1	\$4,656.3
Wilson College, Chambersburg	24	\$469.7	\$418.6	\$218.7	\$669.6
York College of Pennsylvania, York	18	\$168.3	\$269.8	\$114.4	\$323.8

## **Methodology: How We Compute Economic Impact 2006**

We define economic impact as the amount of money that foreign students collectively bring into the United States to pay for their education and to support themselves while they (and in some cases, their families) are here. The goal of our economic impact formula is to use data already collected for other purposes to provide a reasonable estimate of the economic resources that foreign students import to the United States to support their education here each year.

The data sets used for these reports come from two sources:

1. The Institute of International Education's *Open Doors 2006* report, funded by the Department of State, provides numbers of foreign students at universities and colleges throughout the United States during the 2005-06 academic year. In many cases, this data provide separate totals for undergraduate, graduate, and non degree students.
2. The College Board provides cost figures for tuition, living, and miscellaneous expenses at U.S. institutions for the 2005-06 academic year.

The extensive data provided by these two sources (which collect it directly from surveys of the institutions involved) allow us to make our estimates sensitive to differences between institutions. However, there are still areas where our estimates and formulas could be improved. For example, we compute economic impact only for students reported in *Open Doors*. Universities that do not provide information to the Institute of International Education are not represented. Also, enrollment reports represent peak enrollment, and not necessarily enrollment levels throughout the year.

Tuition, fees, living expenses, and dollar estimates are derived from College Board data collected on surveys completed by institutions every year. We try to make our calculations sensitive not only to differing costs at institutions, but differing costs for ESL students, undergraduates, graduate students, and students on practical training.

**Students on Practical Training:** We assume these students earn enough in their U.S. jobs to pay living and educational expenses for the year, and so import no funds for their support. Therefore, net economic impact of students in practical training is zero.

**Undergraduates and English Language Programs:** The number of undergraduate students at an institution is specified by *Open Doors* data. College Board data provide undergraduate tuition and fee amounts, on-campus room and board amounts, and miscellaneous expenses. These categories are sometimes broken down into averages for international, out-of-state, flat rate, and in-state, students. When multiple averages are available, we choose averages in the order given above.

Economic impact of an undergraduate equals tuition and fees, plus room and board, plus miscellaneous figured at 50 percent of room and board, less U.S. support. We assume: (1) that spring enrollment figures are the same as the fall figures reported, (2) that all students are enrolled full time for two semesters or three quarters a year, and (3) that students live on campus for the full year. Miscellaneous expenses, enumerated in College Board data, average about 40 percent of room and board expenses. We use a 50 percent figure as an approximation that includes *all* extra expenses except for travel. The percentage of U.S. support for an undergraduate is based upon the institution type. For example, research institutions (based on Carnegie code) provide on average 10.7 percent support for undergraduates; community colleges provide 7.8 percent for undergraduates.

**Estimating Support.** The *Open Doors survey* asks schools to report the percentage of their students who are self-funded, the percentage who have U.S. source income, etc. We use these percentages, adjusted for different types of institutions, as though they represented percentages of funding, not percentages of individuals. This aspect of our analysis could benefit from further study. We have done local comparisons to data reported to SEVIS and the percentages align closely, but wider research into funding percentages could be valuable.

NOTE: “U.S. support” includes funding from a U.S. college or university, the U.S. Government, a U.S. private sponsor or current employment.