



**The Economic Benefits of International Education to the United States for the 2004-2005 Academic Year:
A Statistical Analysis**

NAFSA estimates that foreign students and their dependents contributed approximately \$13.29 billion to the U.S. economy during the 2004-2005 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 2005* 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: 22,773

Part 1: Net Contribution to State Economy by Foreign Students (2004-05)

Contribution from Tuition and Fees to State Economy:	\$499,078,000
Contribution from Living Expenses:	\$415,733,000
Total Contribution by Foreign Students:	\$914,811,000
Less U.S. Support of 35.3%	- \$323,270,000
Plus Dependents' Living Expenses:	+ \$19,216,000

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

\$610,757,000

Part 2: Contribution to State Economy by Foreign Students' Dependents (2004-05)

Spouses' Contribution

Percent of Married Students:	12.4%
Percent of Spouses in the U.S.:	85.0%
Number of Spouses in the U.S.:	2,817
Additional Expenses for a Spouse: (% of student living expenses)	25.0%
Spouses' Contribution:	\$12,993,000

Children's Contribution

Number of Couples in the U.S.:	2,817
Number of Children per Couple:	0.6
Number of Children in the U.S.:	1,687
Additional Expenses for a Child: (% of student living expenses)	20.0%
Children's Contribution:	\$6,223,000

Net Contribution to State Economy by Foreign Students' Dependents:

\$19,216,000

Part 3: Foreign Student Contribution from Tuition/Fees and Living Expenses (2004-05)

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	83	\$1,994.5	\$1,433.8	\$1,196.2	\$2,232.0
Allegheny College, Meadville	25	\$631.3	\$356.2	\$344.3	\$643.1
Alvernia College, Reading	16	\$280.0	\$257.2	\$162.2	\$375.1
Arcadia University, Glenside	40	\$837.1	\$843.7	\$236.8	\$1,444.0
Baptist Bible College of Pennsylvania, Clarks Summit	20	\$230.4	\$239.1	\$166.7	\$302.7
Bloomsburg University of Pennsylvania, Bloomsburg	71	\$775.7	\$865.8	\$221.2	\$1,420.3
Bryn Mawr College, Bryn Mawr	127	\$3,543.3	\$2,856.9	\$2,072.6	\$4,327.6
Bucknell University, Lewisburg	107	\$3,267.1	\$1,621.4	\$1,684.2	\$3,204.4
Cabrini College, Radnor	16	\$356.0	\$337.4	\$78.3	\$615.2
California University of Pennsylvania, California	38	\$274.2	\$539.0	\$97.5	\$715.7
Carlow College, Pittsburgh	16	\$252.9	\$242.0	\$59.2	\$435.6
Carnegie Mellon University, Pittsburgh	2,559	\$74,876.0	\$51,708.6	\$49,971.5	\$76,613.1

Cedar Crest College, Allentown	21	\$454.2	\$365.1	\$248.3	\$571.1
Chatham College, Pittsburgh	34	\$735.4	\$550.7	\$439.7	\$846.5
Chestnut Hill College, Philadelphia	16	\$294.3	\$281.8	\$75.7	\$500.3
Clarion University of Pennsylvania, Clarion	99	\$952.4	\$1,176.5	\$255.1	\$1,873.8
College Misericordia, Dallas	3	\$53.6	\$50.0	\$12.6	\$91.0
Community College of Allegheny County, Pittsburgh	188	\$1,209.8	\$2,680.9	\$195.0	\$3,695.6
Community College of Beaver County, Monaca	1	\$7.5	\$14.0	\$1.1	\$20.4
Curtis Institute of Music, Philadelphia	62	\$1,352.3	\$841.6	\$161.4	\$2,032.5
Delaware County Community College, Media	152	\$943.9	\$2,168.8	\$155.9	\$2,956.8
Delaware Valley College, Doylestown	4	\$78.4	\$69.7	\$45.3	\$102.8
DeSales University, Center Valley	15	\$285.0	\$263.8	\$65.7	\$483.2
DeVry University, Fort Washington	6	\$42.8	\$83.7	\$16.3	\$110.1
DeVry University, Philadelphia	2	\$14.3	\$27.9	\$2.1	\$40.0
Dickinson College, Carlisle	78	\$2,363.4	\$1,365.4	\$1,301.9	\$2,426.9
Drexel University, Philadelphia	1,670	\$36,239.0	\$39,430.5	\$13,028.6	\$62,640.9
Duquesne University, Pittsburgh	496	\$8,281.1	\$9,154.7	\$3,183.6	\$14,252.2
East Stroudsburg University of Pennsylvania, East Stroudsburg	45	\$541.2	\$467.9	\$121.0	\$888.0
Eastern University, St. Davids	51	\$902.7	\$1,205.0	\$283.3	\$1,824.4
Edinboro University of Pennsylvania, Edinboro	180	\$1,726.2	\$2,329.9	\$498.5	\$3,557.7
Elizabethtown College, Elizabethtown	68	\$1,612.3	\$1,030.6	\$802.0	\$1,840.8
Evangelical School of Theology, Myerstown	3	\$31.7	\$37.0	\$26.2	\$42.6
Franklin & Marshall College, Lancaster	158	\$4,801.6	\$2,743.2	\$2,634.7	\$4,910.1
Gannon University, Erie	112	\$1,907.4	\$1,873.9	\$556.8	\$3,224.4
Geneva College, Beaver Falls	22	\$352.7	\$333.4	\$84.0	\$602.0
Gettysburg College, Gettysburg	42	\$1,259.6	\$714.0	\$688.3	\$1,285.3
Gratz College, Melrose Park	1	\$9.5	\$15.4	\$3.1	\$21.8
Grove City College, Grove City	20	\$199.0	\$234.4	\$131.0	\$302.4
Gwynedd-Mercy College, Gwynedd Valley	79	\$1,335.1	\$1,464.4	\$346.2	\$2,453.3
Harcum College, Bryn Mawr	29	\$395.6	\$461.1	\$43.0	\$813.6
Harrisburg Area Community College, Harrisburg	173	\$1,258.6	\$2,465.3	\$186.9	\$3,537.0
Haverford College, Haverford	38	\$1,139.6	\$820.2	\$684.9	\$1,274.9
Holy Family University, Philadelphia	12	\$191.9	\$200.3	\$47.1	\$345.1
Immaculata University, Immaculata	31	\$558.0	\$588.4	\$140.8	\$1,005.6
Indiana University of Pennsylvania, Indiana	630	\$7,024.3	\$7,176.4	\$2,191.1	\$12,009.6
Juniata College, Huntingdon	63	\$1,494.4	\$981.0	\$864.2	\$1,611.2
King's College, Wilkes-Barre	9	\$173.3	\$171.7	\$42.6	\$302.4
Kutztown University of Pennsylvania, Kutztown	73	\$838.8	\$896.5	\$220.1	\$1,515.2
La Roche College, Pittsburgh	136	\$2,173.6	\$2,156.9	\$529.8	\$3,800.6
La Salle University, Philadelphia	130	\$3,173.3	\$2,531.7	\$685.3	\$5,019.6
Lafayette College, Easton	115	\$3,274.1	\$2,323.8	\$1,953.5	\$3,644.4
Lancaster Bible College, Lancaster	14	\$165.9	\$182.6	\$122.7	\$225.8
Lancaster Theological Seminary, Lancaster	1	\$5.9	\$12.3	\$6.3	\$11.9
Lebanon Valley College of Pennsylvania, Annville	7	\$160.7	\$103.8	\$33.1	\$231.3
Lehigh Carbon Community College, Schnecksville	52	\$337.0	\$741.5	\$54.1	\$1,024.4
Lehigh University, Bethlehem	515	\$15,007.1	\$10,395.7	\$11,926.0	\$13,476.9

Lincoln University, Lincoln	115	\$947.4	\$1,684.3	\$314.9	\$2,316.7
Lock Haven University of Pennsylvania, Lock Haven	92	\$1,092.4	\$1,170.4	\$276.2	\$1,986.6
Lutheran Theological Seminary, Gettysburg	5	\$28.0	\$45.0	\$24.0	\$49.0
Luzerne County Community College, Nanticoke	7	\$46.0	\$97.7	\$7.3	\$136.3
Lycoming College, Williamsport	15	\$335.0	\$289.3	\$216.9	\$407.5
Mansfield University of Pennsylvania, Mansfield	33	\$394.1	\$432.5	\$100.2	\$726.4
Marywood University, Scranton	49	\$922.6	\$964.4	\$237.7	\$1,649.4
Mercyhurst College, Erie	152	\$2,544.5	\$3,175.3	\$1,672.3	\$4,047.5
Messiah College, Grantham	73	\$1,468.8	\$1,117.9	\$783.9	\$1,802.8
Millersville University of Pennsylvania, Millersville	50	\$601.3	\$649.3	\$150.0	\$1,100.6
Montgomery County Community College, Blue Bell	161	\$1,147.1	\$2,297.9	\$172.7	\$3,272.3
Moravian College, Bethlehem	24	\$556.4	\$402.1	\$324.5	\$634.1
Muhlenberg College, Allentown	12	\$321.6	\$258.2	\$202.3	\$377.5
Neumann College, Aston	9	\$154.7	\$161.1	\$95.3	\$220.5
Northampton County Area Community College, Bethlehem	103	\$630.4	\$1,422.5	\$102.9	\$1,950.0
Palmer Theological Seminary, Wynnewood	20	\$211.4	\$252.5	\$174.5	\$289.5
Peirce College, Philadelphia	58	\$656.0	\$828.7	\$74.6	\$1,410.2
Penn State University-Non-Up Campuses, University Park	384	\$9,381.1	\$7,613.3	\$6,013.2	\$10,981.2
Penn State, University Park	3,237	\$75,934.0	\$51,849.1	\$59,766.1	\$68,017.0
Pennsylvania College of Technology, Williamsport	27	\$285.1	\$388.4	\$142.8	\$530.7
Pennsylvania Institute of Technology, Media	3	\$27.0	\$41.9	\$3.5	\$65.4
Philadelphia Biblical University, Langhorne	28	\$325.7	\$380.7	\$258.9	\$447.6
Philadelphia University, Philadelphia	120	\$2,512.8	\$2,194.8	\$654.6	\$4,053.0
Pittsburg Theological Seminary, Pittsburg	5	\$37.4	\$67.3	\$34.4	\$70.4
Point Park College, Pittsburgh	58	\$899.0	\$935.6	\$226.8	\$1,607.7
Reading Area Community College, Reading	22	\$103.0	\$313.2	\$20.9	\$395.3
Robert Morris University, Moon Township	102	\$1,451.1	\$1,724.0	\$421.0	\$2,754.1
Rosemont College, Rosemont	15	\$277.5	\$292.0	\$192.6	\$376.9
Seton Hill University, Greensburg	38	\$783.9	\$695.4	\$445.2	\$1,034.1
Shippensburg University of Pennsylvania, Shippensburg	77	\$926.0	\$980.7	\$228.6	\$1,678.2
Slippery Rock University of Pennsylvania, Slippery Rock	112	\$1,324.6	\$1,219.7	\$312.0	\$2,232.3
St. Charles Borromeo Seminary - Overbrook, Wynnewood	5	\$52.2	\$78.6	\$44.9	\$85.9
St. Francis University, Loretto	29	\$562.3	\$495.7	\$128.6	\$929.4
St. Joseph's University, Philadelphia	171	\$4,406.7	\$3,877.2	\$1,214.1	\$7,069.8
St. Vincent College, Latrobe	28	\$568.7	\$440.3	\$346.8	\$662.2
Susquehanna University, Selinsgrove	16	\$392.0	\$253.2	\$224.7	\$420.4
Swarthmore College, Swarthmore	93	\$2,769.7	\$1,993.0	\$1,661.6	\$3,101.1
Temple University, Philadelphia	1,963	\$29,523.1	\$49,104.0	\$25,549.9	\$53,077.2
The Lutheran Theological Seminary, Philadelphia	4	\$21.4	\$54.5	\$25.2	\$50.7
Thiel College, Greenville	61	\$915.0	\$924.4	\$556.3	\$1,283.1

Thomas Jefferson University: College of Health Professions, Philadelphia	82	\$1,714.9	\$1,547.6	\$761.8	\$2,500.7
University of Pennsylvania, Philadelphia	3,712	\$98,327.0	\$78,260.5	\$71,399.5	\$105,188.0
University of Pittsburgh, Bradford	1	\$19.2	\$14.3	\$11.8	\$21.7
University of Pittsburgh, Greensburg	4	\$76.8	\$62.6	\$49.1	\$90.3
University of Pittsburgh, Johnstown	1	\$19.2	\$14.2	\$10.2	\$23.2
University of Pittsburgh, Pittsburgh	1,667	\$39,873.9	\$31,504.3	\$39,595.2	\$31,782.9
University of Scranton, Scranton	102	\$2,265.8	\$2,310.0	\$682.9	\$3,893.0
University of the Arts, Philadelphia	58	\$1,265.1	\$794.5	\$153.7	\$1,905.9
Ursinus College, Collegeville	27	\$800.6	\$445.6	\$434.9	\$811.3
Villanova University, Villanova	350	\$9,844.8	\$7,494.4	\$2,511.3	\$14,827.9
West Chester University of Pennsylvania, West Chester	105	\$1,159.5	\$1,630.1	\$375.5	\$2,414.1
Westminster Theological Seminary, Philadelphia	90	\$951.5	\$1,134.2	\$785.2	\$1,300.5
Widener University, Chester	168	\$3,830.4	\$3,217.6	\$1,359.5	\$5,688.5
Wilson College, Chambersburg	25	\$448.7	\$422.6	\$263.0	\$608.3
York College of Pennsylvania, York	31	\$266.6	\$445.8	\$87.9	\$624.5

Methodology: How We Compute Economic Impact 2005

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 formulas 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 2005* report, funded by the Department of State, provides numbers of foreign students at universities and colleges throughout the United States during the 2004-05 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 2004-05 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 and current employment.