



**The Economic Benefits of International Education to the
United States for the 2007-2008 Academic Year:
A Statistical Analysis**

NAFSA estimates that foreign students and their dependents contributed approximately \$15.54 billion to the U.S. economy during the 2007-2008 academic year. This conservative figure is based on tuition figures from Peterson's, enrollment figures from the Institute of International Education's *Open Doors 2008* report, living expenses calculated from Peterson's figures and analysis of the data by 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 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.

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Pennsylvania

Total Number of Foreign Students: 25,994

Part 1: Net Contribution to State Economy by Foreign Students (2007-08)

Contribution from Tuition and Fees to State Economy:	\$608,690,000
Contribution from Living Expenses:	\$473,525,000
Total Contribution by Foreign Students:	\$1,082,216,000
Less U.S. Support of 35.1%	- \$380,028,000
Plus Dependents' Living Expenses:	+ \$18,615,000

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

\$720,803,000

Part 2: Contribution to State Economy by Foreign Students' Dependents (2007-08)

Spouses' Contribution

Percent of Married Students:	11.0%
Percent of Spouses in the U.S.:	85.0%
Number of Spouses in the U.S.:	2,851
Additional Expenses for a Spouse: (% of student living expenses)	25.0%
Spouses' Contribution:	\$12,594,000

Children's Contribution

Number of Couples in the U.S.:	2,851
Number of Children per Couple:	0.6
Number of Children in the U.S.:	1,700
Additional Expenses for a Child: (% of student living expenses)	20.0%
Children's Contribution:	\$6,021,000

Net Contribution to State Economy by Foreign Students' Dependents:

\$18,615,000

Part 3: Foreign Student Contribution from Tuition/Fees and Living Expenses (2007-08)

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	90	\$2,599.6	\$1,827.0	\$2,235.5	\$2,191.1
Allegheny College, Meadville	30	\$900.0	\$516.8	\$640.0	\$776.8
Alvernia College, Reading	13	\$259.4	\$240.9	\$59.6	\$440.6
Arcadia University, Glenside	44	\$985.6	\$852.3	\$237.7	\$1,600.2
Baptist Bible College and Seminary, Clarks Summit	22	\$260.0	\$287.1	\$127.2	\$419.9
Bloomsburg University of Pennsylvania, Bloomsburg	84	\$1,016.7	\$1,063.1	\$261.9	\$1,817.9
Bryn Mawr College, Bryn Mawr	120	\$3,672.9	\$2,827.1	\$3,150.1	\$3,350.0
Bucknell University, Lewisburg	114	\$4,218.4	\$2,102.4	\$3,020.0	\$3,300.8
Bucks County Community College, Newtown	31	\$278.8	\$613.0	\$32.9	\$858.9
Cabrini College, Radnor	18	\$448.5	\$395.0	\$105.6	\$738.0
California University of Pennsylvania, California	51	\$701.6	\$939.6	\$210.6	\$1,430.6
Carlow College, Pittsburgh	14	\$253.7	\$243.3	\$57.7	\$439.3

Carnegie Mellon University, Pittsburgh	2952	\$92,565.3	\$57,405.0	\$63,591.7	\$86,378.6
Cedar Crest College, Allentown	21	\$494.7	\$412.6	\$437.9	\$469.3
Chatham University, Pittsburgh	65	\$1,697.5	\$1,241.7	\$312.9	\$2,626.4
Chestnut Hill College, Philadelphia	15	\$348.6	\$273.5	\$78.9	\$543.2
Cheyney University of Pennsylvania, Cheyney	***	\$92.1	\$103.5	\$22.2	\$173.3
Clarion University of Pennsylvania, Clarion	72	\$951.1	\$917.3	\$240.4	\$1,628.0
College of Misericordia, Dallas	***	\$43.9	\$43.0	\$11.1	\$75.8
Community College of Allegheny County, Pittsburgh	158	\$1,065.7	\$3,279.0	\$146.7	\$4,198.0
Community College of Philadelphia, Philadelphia	190	\$1,465.6	\$4,239.8	\$210.4	\$5,494.9
Curtis Institute of Music, Philadelphia	59	\$1,420.7	\$1,362.5	\$25.3	\$2,757.8
Delaware County Community College, Media	221	\$1,759.2	\$4,662.8	\$237.0	\$6,184.9
Delaware Valley College, Doylestown	***	\$69.3	\$63.5	\$34.2	\$98.7
DeVry University - Fort Washington, Ft. Washington	16	\$157.8	\$347.6	\$23.0	\$482.4
Dickinson College, Carlisle	146	\$5,224.5	\$3,146.2	\$4,068.7	\$4,302.0
Drexel University, Philadelphia	2069	\$52,462.3	\$51,195.6	\$27,376.4	\$76,281.5
Duquesne University, Pittsburgh	480	\$10,250.6	\$8,996.7	\$4,259.9	\$14,987.4
Eastern University, St. Davids	141	\$2,220.4	\$2,115.7	\$563.0	\$3,773.1
Edinboro University of Pennsylvania, Edinboro	81	\$790.0	\$1,169.7	\$251.4	\$1,708.3
Elizabethtown College, Elizabethtown	60	\$1,450.0	\$898.1	\$456.3	\$1,891.8
Franklin and Marshall College, Lancaster	161	\$5,873.3	\$3,362.4	\$4,638.4	\$4,597.2
Gannon University, Erie	309	\$4,382.4	\$6,399.3	\$1,418.0	\$9,363.8
Geneva College, Beaver Falls	10	\$155.4	\$136.1	\$66.4	\$225.2
Gettysburg College, Gettysburg	44	\$1,583.6	\$908.4	\$1,225.4	\$1,266.7
Gratz College, Melrose Park	***	\$58.7	\$106.3	\$19.5	\$145.5
Grove City College, Grove City	19	\$218.5	\$265.0	\$243.7	\$239.8
Gwynedd-Mercy College, Gwynedd Valley	33	\$628.5	\$623.7	\$102.4	\$1,149.9
Harrisburg Area Community College, Harrisburg	195	\$1,617.4	\$3,883.2	\$203.0	\$5,297.6
Haverford College, Haverford	47	\$1,662.9	\$1,226.1	\$1,361.9	\$1,527.0
Holy Family College, Philadelphia	16	\$284.2	\$294.4	\$74.8	\$503.8
Immaculata University, Immaculata	29	\$566.3	\$583.5	\$214.5	\$935.2
Indiana University of Pennsylvania, Indiana	706	\$6,875.1	\$7,846.8	\$3,321.1	\$11,400.9
Juniata College, Huntingdon	88	\$2,452.7	\$1,570.4	\$1,676.1	\$2,346.9
King's College, Wilkes-Barre	***	\$145.2	\$124.6	\$49.4	\$220.4
Kutztown University of Pennsylvania, Kutztown	94	\$1,309.8	\$1,429.7	\$344.8	\$2,394.7
La Roche College, Pittsburgh	157	\$3,011.6	\$2,989.9	\$1,283.6	\$4,718.0
La Salle University, Philadelphia	130	\$2,811.0	\$2,845.6	\$709.5	\$4,947.1
Lackawanna College, Scranton	***	\$20.1	\$29.7	\$1.9	\$48.0
Lafayette College, Easton	150	\$5,071.7	\$3,728.9	\$4,407.3	\$4,393.2
Lancaster Bible College, Lancaster	10	\$145.2	\$152.3	\$97.6	\$199.9
Lebanon Valley College, Annville	***	\$250.2	\$158.0	\$92.8	\$315.3
Lehigh Carbon Community College, Schnecksville	25	\$196.6	\$509.0	\$25.9	\$679.6
Lehigh University, Bethlehem	610	\$18,481.6	\$12,008.2	\$11,732.3	\$18,757.5
Lehigh Valley College, Center Way	***	\$13.6	\$19.2	\$1.2	\$31.6
Lincoln University of Pennsylvania, Lincoln University	81	\$891.8	\$1,363.9	\$260.1	\$1,995.6

Lock Haven University of Pennsylvania, Lock Haven	123	\$1,603.4	\$1,582.7	\$512.0	\$2,674.1
Lutheran Theological Seminary - Gettysburg, Gettysburg	***	\$10.1	\$20.3	\$15.6	\$14.8
Lutheran Theological Seminary - Philadelphia, Philadelphia	***	\$40.5	\$80.2	\$44.5	\$76.1
Lycoming College, Williamsport	12	\$325.5	\$194.9	\$264.2	\$256.3
Mansfield University of Pennsylvania, Mansfield	30	\$398.8	\$408.1	\$127.2	\$679.7
Marywood University, Scranton	59	\$1,112.8	\$1,281.5	\$290.4	\$2,103.9
Mercyhurst College, Erie	202	\$4,108.0	\$3,505.6	\$1,407.0	\$6,206.5
Messiah College, Grantham	62	\$1,416.4	\$1,015.4	\$606.4	\$1,825.4
Millersville University, Millersville	50	\$593.5	\$757.0	\$170.3	\$1,180.2
Montgomery County Community College, Blue Bell	150	\$1,274.6	\$3,071.4	\$146.2	\$4,199.8
Moravian College, Bethlehem	24	\$652.9	\$443.8	\$508.6	\$588.1
Muhlenberg College, Allentown	10	\$297.8	\$165.6	\$225.2	\$238.2
Neumann College, Aston	43	\$818.4	\$891.6	\$365.4	\$1,344.6
Northampton Community College, Bethlehem	104	\$738.0	\$1,521.7	\$83.4	\$2,176.2
Penn State Abington, Abington	18	\$297.1	\$379.9	\$326.5	\$350.5
Penn State Altoona, Altoona	25	\$431.2	\$411.1	\$215.0	\$627.3
Penn State Beaver, Monaca	***	\$49.5	\$48.5	\$49.7	\$48.2
Penn State Berks, Reading	15	\$258.7	\$269.4	\$265.8	\$262.2
Penn State Brandywine, Media	***	\$66.0	\$83.3	\$38.4	\$110.9
Penn State College of Medicine, Hershey	101	\$1,796.5	\$2,227.3	\$2,721.5	\$1,302.4
Penn State Dickinson School of Law, Carlisle	15	\$504.8	\$333.1	\$177.6	\$660.3
Penn State Erie, Behrend College, Erie	54	\$931.3	\$890.9	\$436.0	\$1,386.3
Penn State Great Valley, Malvern	21	\$324.0	\$461.1	\$104.0	\$681.0
Penn State Greater Allegheny, McKeesport	***	\$115.5	\$113.1	\$116.1	\$112.6
Penn State Harrisburg, Middletown	71	\$1,223.8	\$1,420.0	\$338.4	\$2,305.4
Penn State Lehigh Valley, Fogelsville	***	\$66.0	\$83.3	\$38.4	\$110.9
Penn State Mont Alto, Mont Alto	***	\$33.0	\$32.3	\$7.1	\$58.3
Penn State Schuylkill, Schuylkill Haven	***	\$33.0	\$38.2	\$18.3	\$52.8
Penn State University Park, University Park	3860	\$85,178.6	\$59,766.6	\$60,275.1	\$84,670.1
Penn State Wilkes-Barre, Lehman	***	\$16.5	\$20.8	\$9.6	\$27.7
Penn State Worthington-Scranton, Dunmore	***	\$65.9	\$83.3	\$33.4	\$115.8
Penn State York, York	***	\$65.9	\$66.5	\$14.3	\$118.1
Pennsylvania College of Technology, Williamsport	31	\$353.3	\$463.0	\$77.8	\$738.4
Pennsylvania Institute of Technology, Media	***	\$56.0	\$124.9	\$6.0	\$174.9
Philadelphia Biblical University, Langhorne	24	\$330.1	\$380.7	\$88.2	\$622.7
Philadelphia University, Philadelphia	133	\$2,494.7	\$1,997.4	\$544.2	\$3,947.9
Pittsburgh Technical Institute, Oakdale	***	\$6.0	\$20.8	\$1.0	\$25.8
Pittsburgh Theological Seminary, Pittsburgh	13	\$131.5	\$173.5	\$106.1	\$198.8
Point Park University, Pittsburgh	62	\$980.5	\$1,140.8	\$245.3	\$1,876.0
Reading Area Community College, Reading	31	\$205.7	\$601.1	\$27.0	\$779.9
Robert Morris University, Moon Township	128	\$2,291.2	\$2,660.0	\$640.1	\$4,311.1
Rosemont College, Rosemont	11	\$251.2	\$239.1	\$62.1	\$428.2
Saint Charles Borromeo Seminary, Wynnewood	***	\$38.3	\$58.6	\$42.5	\$54.3
Saint Francis College, Loretto	***	\$188.0	\$147.3	\$42.8	\$292.5

Saint Joseph's University, Philadelphia	223	\$5,856.2	\$4,906.4	\$1,408.0	\$9,354.6
Saint Vincent College, Latrobe	21	\$506.2	\$379.7	\$439.4	\$446.5
Seton Hill University, Greensburg	32	\$764.9	\$597.9	\$333.2	\$1,029.7
Shippensburg University, Shippensburg	27	\$350.8	\$364.6	\$91.1	\$624.2
Slippery Rock University of Pennsylvania, Slippery Rock	113	\$944.5	\$1,398.8	\$295.4	\$2,047.9
Susquehanna University, Selinsgrove	15	\$410.6	\$262.8	\$329.5	\$343.9
Swarthmore College, Swarthmore	104	\$3,453.5	\$2,054.7	\$2,781.8	\$2,726.5
Temple University, Philadelphia	1864	\$30,950.6	\$33,452.8	\$18,215.1	\$46,188.4
Thiel College, Greenville	58	\$1,071.3	\$994.6	\$1,042.2	\$1,023.7
Thomas Jefferson University, Philadelphia	87	\$1,398.6	\$1,710.8	\$1,823.6	\$1,285.8
University of Pennsylvania, Philadelphia	4610	\$138,779.4	\$94,643.4	\$89,253.4	\$144,169.5
University of Pittsburgh - Bradford, Bradford	***	\$62.6	\$48.5	\$28.6	\$82.6
University of Pittsburgh - Greensburg, Greensburg	***	\$83.6	\$66.2	\$76.0	\$73.7
University of Pittsburgh - Johnstown, Johnstown	***	\$20.9	\$15.1	\$9.3	\$26.8
University of Pittsburgh - Pittsburgh Campus, Pittsburgh	2103	\$41,996.1	\$38,803.8	\$40,117.4	\$40,682.6
University of Scranton, Scranton	102	\$2,530.7	\$2,309.9	\$581.1	\$4,259.5
University of the Arts, Philadelphia	64	\$1,614.2	\$913.7	\$36.4	\$2,491.6
Ursinus College, Collegeville	24	\$808.7	\$439.4	\$606.5	\$641.6
Valley Forge Military College, Wayne	27	\$656.3	\$627.6	\$43.6	\$1,240.2
Villanova University, Villanova	323	\$8,969.3	\$6,203.1	\$1,988.7	\$13,183.7
West Chester University of Pennsylvania, West Chester	105	\$1,357.6	\$1,517.2	\$363.5	\$2,511.3
Widener University, Chester	149	\$3,721.9	\$3,115.3	\$1,628.8	\$5,208.4
Wilson College, Chambersburg	47	\$1,069.7	\$885.3	\$468.9	\$1,486.0
York College of Pennsylvania, York	25	\$306.0	\$406.6	\$173.6	\$539.0

Methodology: How We Compute Economic Impact (2008)

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 2008* report, funded by the Department of State, provides numbers of foreign students at universities and colleges throughout the United States during the 2007-08 academic year. In many cases, this data provide separate totals for undergraduate, graduate, and non degree students. (<http://opendoors.iienetwork.org>)
2. Peterson's provides cost figures for tuition, living, and miscellaneous expenses at U.S. institutions for the 2007-08 academic year. (<http://www.petersons.com/>)

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.

Estimating Expenses

Tuition, fees, living expenses, and dollar estimates are derived from Peterson's 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.

(1) Undergraduates and English Language Programs:

The number of undergraduate students at an institution is specified by *Open Doors* data. Peterson's 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.

(2) Graduate Students:

The number of graduate students at an institution is specified by *Open Doors* data. Peterson's data provide graduate tuition and fee amounts, on-campus room and board amounts, and miscellaneous expenses. If there are no differentiated graduate expenses provided by an institution in the Peterson's data, then the undergraduate expenses would be applied.

(3) 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.

Economic impact of an international student equals tuition and fees, plus room and board, plus miscellaneous figured at 50 percent of room and board, less U.S. support. We assume: (a) that spring enrollment figures are the same as the fall figures reported, (b) that all students are enrolled full time for two semesters or three quarters a year, and (c) that students live on campus for the full year. The miscellaneous expenses, enumerated in Peterson's 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.

Estimating U.S. 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. The U.S. support percentage includes funding from a U.S. college or university, the U.S. Government, a U.S. private sponsor or current employment. For this analysis the percentages are calculated based upon the institution's Carnegie classification and the academic career of the student. For example, this process will differentiate the level of support between undergraduates and graduates at a particular research institution while it also differentiates between a baccalaureate classified institution from an associate's classified institution.

Individual Institution Enrollment Figures

For institutions with fewer than 10 international students enrolled, enrollment totals are suppressed for confidentiality reasons. In the reports, this is indicated by three asterisks (***)