

**The Economic Benefits of International Education to the
United States for the 2008-2009 Academic Year:
A Statistical Analysis**

NAFSA estimates that foreign students and their dependents contributed approximately \$17.6 billion to the U.S. economy during the 2008-2009 academic year. This conservative figure is based on tuition figures from Wintergreen Orchard House, enrollment figures from the Institute of International Education's *Open Doors 2009* report, living expenses calculated from Wintergreen Orchard House 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.

Ohio

Total Number of Foreign Students: 20,725

Part 1: Net Contribution to State Economy by Foreign Students (2008-09)

Contribution from Tuition and Fees to State Economy:	\$402,737,000
Contribution from Living Expenses:	\$340,081,000
Total Contribution by Foreign Students:	\$742,818,000
Less U.S. Support of 33.7%	- \$250,414,000
Plus Dependents' Living Expenses:	+ \$14,247,000

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

\$506,651,000

Part 2: Contribution to State Economy by Foreign Students' Dependents (2008-09)

<i>Spouses' Contribution</i>		<i>Children's Contribution</i>	
Percent of Married Students:	11.2%	Number of Couples in the U.S.:	2,330
Percent of Spouses in the U.S.:	85.0%	Number of Children per Couple:	0.6
Number of Spouses in the U.S.:	2,330	Number of Children in the U.S.:	1,387
Additional Expenses for a Spouse: (% of student living expenses)	25.0%	Additional Expenses for a Child: (% of student living expenses)	20.0%
Spouses' Contribution:	\$9,643,000	Children's Contribution:	\$4,604,000

Net Contribution to State Economy by Foreign Students' Dependents:

\$14,247,000

Part 3: Foreign Student Contribution from Tuition/Fees and Living Expenses (2008-09)

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Cincinnati State Technical and Community College, Cincinnati	52	\$463.1	\$772.9	\$45.2	\$1,190.8
College of Mount Saint Joseph, Cincinnati	***	\$154.5	\$107.5	\$40.9	\$221.1
Hebrew Union College - Jewish Institute of Religion, OH, Cincinnati	10	\$91.0	\$200.4	\$93.3	\$198.1
University of Cincinnati, Cincinnati	2157	\$47,535.5	\$40,611.8	\$40,526.9	\$47,620.4
Xavier University, Cincinnati	169	\$4,268.9	\$3,526.9	\$891.1	\$6,904.7

Congressional District: 01 | Steve Driehaus (D)

\$56,135.2

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Athenaeum of Ohio, Cincinnati	***	\$30.3	\$67.1	\$31.1	\$66.4

Shawnee State University, Portsmouth	37	\$436.9	\$620.5	\$232.9	\$824.5
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Congressional District: 02 | Jean Schmidt (R) \$890.8

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Kettering College of Medical Arts, Kettering	***	\$22.6	\$47.8	\$0.7	\$69.8
Sinclair Community College, Dayton	93	\$593.8	\$1,584.7	\$79.4	\$2,099.1
United Theological Seminary, Trotwood	***	\$20.2	\$37.3	\$19.4	\$38.2
University of Dayton, Dayton	401	\$9,923.7	\$6,771.7	\$4,514.1	\$12,181.3

Congressional District: 03 | Michael Turner (R) \$14,388.4

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
James A. Rhodes State College, Lima	***	\$8.4	\$18.7	\$1.0	\$26.1
North Central State College, Mansfield	***	\$7.3	\$18.7	\$0.9	\$25.0
Ohio Northern University, Ada	86	\$2,685.4	\$1,562.1	\$955.0	\$3,292.5
University of Findlay, Findlay	989	\$18,578.0	\$16,732.5	\$4,351.8	\$30,958.7
Urbana University, Urbana	56	\$910.5	\$872.4	\$366.6	\$1,416.2
Winebrenner Theological Seminary, Findlay	***	\$30.3	\$61.6	\$29.4	\$62.6

Congressional District: 04 | Jim Jordan (R) \$35,781.1

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Bowling Green State University, Bowling Green	834	\$16,210.2	\$12,350.3	\$8,813.3	\$19,747.2
Defiance College, Defiance	***	\$43.8	\$30.2	\$18.8	\$55.2
Heidelberg College, Tiffin	38	\$761.1	\$717.8	\$263.6	\$1,215.3
Northwest State Community College, Archbold	***	\$37.8	\$93.4	\$4.6	\$126.5
Tiffin University, Tiffin	119	\$1,932.0	\$1,994.6	\$570.4	\$3,356.2

Congressional District: 05 | Robert E. Latta (R) \$24,500.3

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Franciscan University of Steubenville, Steubenville	25	\$478.1	\$386.2	\$140.0	\$724.3
Jefferson Community College, Steubenville	***	\$12.0	\$37.3	\$1.7	\$47.6
Kent State University - Salem Campus, Salem	***	\$12.0	\$37.3	\$1.7	\$47.6
Marietta College, Marietta	154	\$3,769.3	\$2,593.5	\$1,521.6	\$4,841.2
Ohio University - Main Campus, Athens	1346	\$25,835.6	\$26,092.0	\$17,496.5	\$34,431.1

Congressional District: 06 | Charles A. Wilson (D) \$40,091.7

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Cedarville College, Cedarville	26	\$539.3	\$335.7	\$204.6	\$670.4
Central State University, Wilberforce	***	\$110.7	\$130.7	\$61.3	\$180.1
Clark State Community College, Springfield	***	\$41.6	\$93.0	\$4.8	\$129.8
Wittenberg University, Springfield	50	\$1,505.0	\$868.3	\$950.2	\$1,423.1
Wright State University - Main Campus, Dayton	805	\$9,523.1	\$11,288.8	\$7,127.2	\$13,684.6
Congressional District: 07 Steve Austria (R)					\$16,088.1

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Edison Community College, Piqua	***	\$18.0	\$56.0	\$2.6	\$71.3
Miami University - Hamilton, Oxford	***	\$68.8	\$80.9	\$1.5	\$148.3
Miami University - Middletown, Oxford	***	\$17.6	\$20.2	\$0.4	\$37.5
Miami University - Oxford, Oxford	603	\$15,443.5	\$11,885.6	\$6,627.6	\$20,701.5
Congressional District: 08 John A. Boehner (R)					\$20,958.6

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Lourdes College, Sylvania	***	\$14.9	\$18.7	\$8.5	\$25.0
Oberlin College, Oberlin	191	\$6,823.0	\$3,960.2	\$4,565.3	\$6,217.9
Owens Community College, Toledo	85	\$486.4	\$1,604.9	\$77.7	\$2,013.7
University of Toledo, Toledo	894	\$14,142.0	\$16,069.6	\$9,061.5	\$21,150.0
Congressional District: 09 Marcy Kaptur (D)					\$29,406.5

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Baldwin-Wallace College, Berea	54	\$1,196.7	\$914.4	\$277.2	\$1,833.9
Congressional District: 10 Dennis J. Kucinich (D)					\$1,833.9

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Case Western Reserve University, Cleveland	1271	\$36,920.9	\$25,362.6	\$30,488.8	\$31,794.7
Cleveland Institute of Art, Cleveland	12	\$337.1	\$233.1	\$12.5	\$557.7
Cleveland Institute of Music, Cleveland	111	\$3,157.6	\$2,303.4	\$162.4	\$5,298.6
Cleveland State University, Cleveland	1021	\$12,046.5	\$15,752.0	\$4,974.5	\$22,824.0
Cuyahoga Community College, Cleveland	294	\$2,042.2	\$6,013.8	\$283.1	\$7,772.9
John Carroll University, University Heights	30	\$780.1	\$528.2	\$172.6	\$1,135.8
Notre Dame College, South Euclid	43	\$864.7	\$694.9	\$369.6	\$1,190.0
Ohio College of Podiatric Medicine, Cleveland	10	\$172.2	\$223.9	\$8.5	\$387.6

Ursuline College, Pepper Pike	***	\$106.7	\$83.1	\$27.4	\$162.4
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Congressional District: 11 | Marcia L. Fudge (D) \$71,123.5

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Capital University, Columbus	101	\$2,476.8	\$1,494.4	\$497.4	\$3,473.8
Central Ohio Technical College, Newark	***	\$6.3	\$18.7	\$0.9	\$24.1
Denison University, Granville	100	\$3,452.4	\$2,043.2	\$2,379.4	\$3,116.2
DeVry University campuses in Ohio, Columbus	24	\$143.6	\$452.8	\$21.0	\$575.4
Methodist Theological School in Ohio, Delaware	***	\$65.9	\$86.7	\$49.0	\$103.6
Ohio Dominican University, Columbus	25	\$482.3	\$365.7	\$165.5	\$682.6
Ohio Wesleyan University, Delaware	191	\$5,854.3	\$3,321.8	\$4,019.6	\$5,156.5
Otterbein College, Westerville	25	\$602.6	\$400.3	\$136.6	\$866.2
Pontifical College Josephinum, Columbus	13	\$213.1	\$237.6	\$197.6	\$253.0
Trinity Lutheran Seminary, Columbus	***	\$51.9	\$93.6	\$61.6	\$83.9

Congressional District: 12 | Pat Tiberi (R) \$14,335.4

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Lorain County Community College, Elyria	64	\$367.7	\$1,189.3	\$55.8	\$1,501.3
University of Akron - Main Campus, Akron	968	\$13,179.0	\$16,024.7	\$9,695.1	\$19,508.7

Congressional District: 13 | Betty Sutton (D) \$21,009.9

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Hiram College, Hiram	79	\$1,876.3	\$1,446.0	\$1,433.4	\$1,888.9
Kent State University - Ashtabula Campus, Ashtabula	***	\$19.7	\$37.3	\$1.4	\$55.6
Kent State University - Geauga Campus, Geauga	***	\$58.7	\$93.4	\$9.6	\$142.4
Lake Erie College, Painesville	11	\$243.9	\$173.8	\$97.1	\$320.5
Lakeland Community College, Kirtland	41	\$278.3	\$755.2	\$37.8	\$995.8

Congressional District: 14 | Steven C. LaTourette (R) \$3,403.2

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Columbus College of Art and Design, Columbus	65	\$1,409.1	\$953.6	\$33.6	\$2,329.2
Columbus State Community College, Columbus	227	\$1,655.6	\$3,837.7	\$193.2	\$5,300.1
Franklin University, Columbus	223	\$1,711.2	\$3,895.3	\$243.5	\$5,363.0
Ohio State University - Main Campus, Columbus	4583	\$97,172.5	\$71,208.7	\$68,697.1	\$99,684.2

Congressional District: 15 | Mary Jo Kilroy (D) \$112,676.5

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Ashland Theological Seminary, Ashland	26	\$252.8	\$499.9	\$243.4	\$509.3
Ashland University, Ashland	172	\$3,850.7	\$3,158.4	\$824.1	\$6,185.1
College of Wooster, Wooster	107	\$3,250.7	\$1,887.2	\$2,251.2	\$2,886.7
Kent State University - Stark Campus, Stark	10	\$129.3	\$181.8	\$71.9	\$239.2
Malone University, Canton	25	\$438.0	\$346.9	\$151.4	\$633.5
Mount Union College, Alliance	69	\$1,541.7	\$1,071.6	\$1,144.9	\$1,468.4
Stark State College of Technology, North Canton	10	\$59.8	\$186.7	\$8.7	\$237.8
University of Akron - Wayne College, Akron	***	\$25.7	\$37.8	\$2.3	\$61.3
Walsh University, North Canton	31	\$496.0	\$533.2	\$203.6	\$825.6

Congressional District: 16 | John A. Bocchieri (D) \$13,047.0

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Kent State University - Kent Campus, Kent	904	\$13,687.9	\$14,220.4	\$8,685.7	\$19,222.5
Kent State University - Trumbull Campus, Trumbull	***	\$49.3	\$93.4	\$9.4	\$133.2
Youngstown State University, Youngstown	176	\$1,860.8	\$2,367.0	\$521.7	\$3,706.1

Congressional District: 17 | Tim Ryan (D) \$23,061.9

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Hocking College, Nelsonville	180	\$1,241.1	\$3,310.3	\$166.1	\$4,385.3
Kent State University - Tuscarawas Campus, Tuscarawas	***	\$67.0	\$112.0	\$6.7	\$172.3
Kenyon College, Gambier	61	\$2,231.0	\$837.2	\$1,336.0	\$1,732.3
Muskingum College, New Concord	56	\$1,022.9	\$884.7	\$278.4	\$1,629.2

Congressional District: 18 | Zachary T. Space (D) \$7,919.2

Methodology: How We Compute Economic Impact (2009)

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 2009* 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. Wintergreen Orchard House provides cost figures for tuition, living, and miscellaneous expenses at U.S. institutions for the 2008-09 academic year (<http://www.wintergreenorchardhouse.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 Wintergreen Orchard House'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. Wintergreen Orchard House'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. Wintergreen Orchard Houses' 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 Wintergreen Orchard House'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 Wintergreen Orchard House'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 that 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 (***)