

**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.

Massachusetts

Total Number of Foreign Students: 33,838

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

Contribution from Tuition and Fees to State Economy:	\$908,542,000
Contribution from Living Expenses:	\$734,085,000
Total Contribution by Foreign Students:	\$1,642,627,000
Less U.S. Support of 32.4%	- \$532,824,000
Plus Dependents' Living Expenses:	+ \$30,376,000

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

\$1,140,178,000

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:	11.1%	Number of Couples in the U.S.:	3,745
Percent of Spouses in the U.S.:	85.0%	Number of Children per Couple:	0.6
Number of Spouses in the U.S.:	3,745	Number of Children in the U.S.:	2,244
Additional Expenses for a Spouse: (% of student living expenses)	25.0%	Additional Expenses for a Child: (% of student living expenses)	20.0%
Spouses' Contribution:	\$20,522,000	Children's Contribution:	\$9,854,000

Net Contribution to State Economy by Foreign Students' Dependents:

\$30,376,000

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)
Berkshire Community College, Pittsfield	42	\$364.4	\$1,043.8	\$50.5	\$1,357.7
Conway School of Landscape Design, Conway	***	\$24.9	\$24.6	\$1.8	\$47.7
Fitchburg State College, Fitchburg	168	\$1,594.7	\$2,013.7	\$466.2	\$3,142.2
Greenfield Community College, Greenfield	23	\$266.3	\$547.1	\$29.7	\$783.8
Hampshire College, Amherst	58	\$1,363.9	\$1,320.4	\$1,130.1	\$1,554.1
Massachusetts College of Liberal Arts, North Adams	***	\$102.9	\$98.4	\$88.6	\$112.7
Mount Wachusett Community College, Gardner	30	\$306.2	\$724.1	\$37.1	\$993.2
Simon's Rock College of Bard, Great Barrington	12	\$381.5	\$229.9	\$27.9	\$583.5
University of Massachusetts - Amherst, Amherst	1669	\$28,017.8	\$25,797.3	\$24,784.8	\$29,030.4
Westfield State College, Westfield	***	\$126.0	\$196.7	\$44.5	\$278.2
Williams College, Williamstown	183	\$6,369.2	\$3,915.3	\$4,201.5	\$6,082.9

Congressional District: 01 | John Olver (D)**\$43,966.5**

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
American International College, Springfield	66	\$1,475.6	\$1,460.2	\$412.2	\$2,523.5
Bay Path College, Longmeadow	13	\$307.7	\$288.3	\$146.4	\$449.6
Elms College, Chicopee	***	\$171.8	\$149.6	\$79.1	\$242.3
Mount Holyoke College, South Hadley	468	\$15,965.3	\$10,651.0	\$11,369.6	\$15,246.7
Nichols College, Dudley	***	\$241.7	\$190.5	\$20.9	\$411.4
Smith College, Northampton	219	\$6,654.2	\$5,229.3	\$5,035.2	\$6,848.3
Springfield College, Springfield	50	\$859.0	\$949.5	\$230.2	\$1,578.3
Western New England College, Springfield	15	\$408.5	\$364.9	\$101.7	\$671.7

Congressional District: 02 | Richard E. Neal (D)**\$27,971.8**

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Anna Maria College, Paxton	14	\$344.6	\$289.1	\$112.9	\$520.9
Assumption College, Worcester	16	\$428.9	\$215.3	\$98.7	\$545.6
Becker College, Worcester	***	\$128.6	\$104.4	\$59.2	\$173.8
Clark University, Worcester	687	\$20,996.8	\$9,727.5	\$10,032.0	\$20,692.3
Dean College, Franklin	48	\$1,258.8	\$1,228.6	\$90.8	\$2,396.6
Quinsigamond Community College, Worcester	31	\$250.2	\$643.4	\$32.7	\$861.0
University of Massachusetts Medical School, Shrewsbury	164	\$2,792.6	\$4,094.0	\$4,499.6	\$2,387.1
Worcester Polytechnic Institute, Worcester	567	\$17,347.0	\$12,487.6	\$4,493.6	\$25,341.0
Worcester State College, Worcester	118	\$1,221.6	\$2,209.6	\$483.7	\$2,947.5

Congressional District: 03 | James McGovern (D)**\$55,865.7**

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Andover Newton Theological School, Newton Centre	12	\$91.0	\$243.7	\$106.8	\$227.9
Babson College, Babson Park	847	\$26,009.9	\$22,460.0	\$1,847.3	\$46,622.5
Boston College, Chestnut Hill	1022	\$33,622.2	\$26,705.5	\$17,686.9	\$42,640.7
Bridgewater State College, Bridgewater	128	\$1,391.9	\$1,912.6	\$416.3	\$2,888.2
Bristol Community College, Fall River	32	\$259.6	\$797.9	\$37.1	\$1,020.4
Hebrew College, Newton Centre	***	\$124.2	\$162.1	\$92.6	\$193.6
Lasell College, Newton	53	\$1,253.5	\$1,220.7	\$584.4	\$1,889.7
Massachusetts Bay Community College, Wellesley Hills	126	\$1,233.5	\$2,432.4	\$138.4	\$3,527.6
Mount Ida College, Newton Centre	84	\$1,726.0	\$1,963.5	\$929.5	\$2,759.9
New England School of Acupuncture, Newton	***	\$137.8	\$190.4	\$6.6	\$321.6
Newbury College, Brookline	64	\$1,335.3	\$1,362.2	\$639.6	\$2,057.9
Stonehill College, Easton	14	\$328.8	\$295.8	\$265.2	\$359.4

University of Massachusetts - Dartmouth, North Dartmouth	353	\$3,408.8	\$5,514.0	\$1,123.5	\$7,799.3
Wellesley College, Wellesley	220	\$7,133.6	\$5,108.9	\$5,227.8	\$7,014.7
Congressional District: 04 Barney Frank (D)					\$119,323.6
Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Atlantic Union College, South Lancaster	60	\$962.9	\$682.5	\$662.9	\$982.5
University of Massachusetts - Lowell, Lowell	470	\$6,164.5	\$6,039.0	\$2,307.1	\$9,896.3
Congressional District: 05 Niki Tsongas (D)					\$10,878.8
Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Endicott College, Beverly	80	\$1,942.5	\$2,066.8	\$961.7	\$3,047.6
Gordon-Conwell Theological Seminary, South Hamilton	111	\$1,062.0	\$2,729.4	\$1,280.7	\$2,510.7
Merrimack College, North Andover	47	\$1,334.4	\$1,118.1	\$1,004.4	\$1,448.2
Middlesex Community College, Lowell	48	\$421.7	\$664.8	\$38.3	\$1,048.2
Montserrat College of Art, Beverly	***	\$44.6	\$27.0	\$1.8	\$69.8
Salem State College, Salem	426	\$4,767.1	\$6,446.0	\$1,354.2	\$9,858.9
Congressional District: 06 John Tierney (D)					\$17,983.4
Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Bentley University, Waltham	657	\$19,820.3	\$16,806.8	\$4,700.4	\$31,926.6
Brandeis University, Waltham	1110	\$33,927.2	\$22,471.3	\$23,263.9	\$33,134.6
Framingham State College, Framingham	23	\$293.1	\$473.3	\$95.9	\$670.6
Regis College, Weston	15	\$355.7	\$345.0	\$139.5	\$561.2
Congressional District: 07 Ed Markey (D)					\$66,293.0
Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Berklee College of Music, Boston	973	\$27,909.1	\$25,140.9	\$1,111.7	\$51,938.3
Boston Conservatory, Boston	108	\$2,784.9	\$3,464.6	\$161.7	\$6,087.8
Boston University, Boston	5037	\$158,052.7	\$116,747.2	\$101,749.8	\$173,050.1
Bunker Hill Community College, Boston	713	\$5,084.4	\$7,801.9	\$463.0	\$12,423.3
Emmanuel College, Boston	20	\$499.3	\$458.8	\$181.7	\$776.4
Episcopal Divinity School, Cambridge	***	\$50.6	\$142.4	\$61.0	\$131.9
Harvard University, Cambridge	4735	\$138,784.8	\$100,804.0	\$114,111.9	\$125,476.9
Hult International Business School, Cambridge	193	\$2,369.7	\$3,266.6	\$185.6	\$5,450.8
Lesley University, Cambridge	125	\$3,000.3	\$2,978.2	\$756.6	\$5,221.9
Longy School of Music, Cambridge	60	\$1,414.7	\$1,567.6	\$94.2	\$2,888.1

Massachusetts College of Art, Boston	60	\$1,045.3	\$1,239.9	\$40.2	\$2,245.0
Massachusetts College of Pharmacy & Health Sciences, Boston	145	\$2,239.0	\$3,281.4	\$72.8	\$5,447.6
Massachusetts Institute of Technology, Cambridge	3408	\$111,927.7	\$92,504.2	\$94,065.2	\$110,366.7
New England College of Optometry, Boston	121	\$1,860.1	\$2,991.4	\$103.8	\$4,747.7
Northeastern University, Boston	3242	\$100,107.1	\$85,540.6	\$50,025.6	\$135,622.1
Roxbury Community College, Roxbury	27	\$233.2	\$571.7	\$28.3	\$776.6
School of the Museum of Fine Arts, Boston	47	\$1,242.1	\$1,194.9	\$52.1	\$2,384.9
Simmons College, Boston	97	\$2,049.8	\$2,215.0	\$555.7	\$3,709.1
Tufts University - School of Medicine, Boston	254	\$6,530.3	\$6,337.5	\$6,478.2	\$6,389.6
Tufts University - The Fletcher School, Medford	290	\$9,702.6	\$6,607.2	\$3,449.4	\$12,860.5
Tufts University, Medford	806	\$27,020.6	\$17,445.8	\$12,590.1	\$31,876.3
Wentworth Institute of Technology, Boston	121	\$2,236.7	\$2,559.3	\$0.0	\$4,795.9
Wheelock College, Boston	17	\$405.6	\$379.6	\$98.6	\$686.6

Congressional District: 08 | Michael E. Capuano (D)

\$705,354.1

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Curry College, Milton	31	\$842.3	\$739.4	\$365.0	\$1,216.7
Emerson College, Boston	203	\$5,122.8	\$5,013.0	\$1,282.4	\$8,853.4
Massachusetts School of Professional Psychology, Boston	13	\$206.7	\$331.2	\$9.9	\$527.9
Suffolk University, Boston	1027	\$23,195.4	\$29,367.9	\$6,845.5	\$45,717.8
University of Massachusetts - Boston, Boston	633	\$10,188.5	\$17,112.6	\$4,167.7	\$23,133.4

Congressional District: 09 | Stephen F. Lynch (D)

\$79,449.2

Institution and City	# of Foreign Students	Tuition and Fees (thousands)	Living Expenses and Dependents (thousands)	Less U.S. Support (thousands)	Total Contribution (thousands)
Cape Cod Community College, West Barnstable	25	\$243.0	\$596.3	\$30.5	\$808.7
Eastern Nazarene College, Quincy	16	\$327.7	\$260.4	\$141.4	\$446.7
Massachusetts Maritime Academy, Buzzards Bay	***	\$93.4	\$83.5	\$44.9	\$132.0
Quincy College, Quincy	565	\$2,848.6	\$9,282.3	\$426.0	\$11,704.8

Congressional District: 10 | William Delahunt (D)

\$13,092.3

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 (***)