



**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.

# Massachusetts

Total Number of Foreign Students: 28,009

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

Contribution from Tuition and Fees to State Economy:	\$718,150,000
Contribution from Living Expenses:	\$624,810,000
Total Contribution by Foreign Students:	\$1,342,960,000
Less U.S. Support of 37.4%	- \$502,804,000
Plus Dependents' Living Expenses:	+ \$28,828,000

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

**\$868,984,000**

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

### *Spouses' Contribution*

Percent of Married Students:	12.3%
Percent of Spouses in the U.S.:	85.0%
Number of Spouses in the U.S.:	3,447
Additional Expenses for a Spouse: (% of student living expenses)	25.0%
Spouses' Contribution:	\$19,480,000

### *Children's Contribution*

Number of Couples in the U.S.:	3,447
Number of Children per Couple:	0.6
Number of Children in the U.S.:	2,068
Additional Expenses for a Child: (% of student living expenses)	20.0%
Children's Contribution:	\$9,347,000

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

**\$28,828,000**

## 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)
American International College, Springfield	54	\$1,069.2	\$1,119.7	\$336.0	\$1,852.8
Andover Newton Theological School, Newton Centre	13	\$179.0	\$272.7	\$126.5	\$325.2
Anna Maria College, Paxton	9	\$101.3	\$168.7	\$43.7	\$226.4
Assumption College, Worcester	18	\$359.9	\$369.4	\$112.3	\$617.1
Atlantic Union College, South Lancaster	65	\$819.0	\$753.0	\$628.3	\$943.6
Babson College, Babson Park	554	\$16,926.1	\$15,414.3	\$2,802.8	\$29,537.6
Bay Path College, Longmeadow	13	\$267.9	\$261.0	\$142.2	\$386.7
Bay State College, Boston	25	\$382.5	\$562.6	\$58.4	\$886.7
Becker College, Worcester	7	\$126.0	\$129.6	\$63.5	\$192.1
Benjamin Franklin Institute of Technology, Boston	8	\$100.0	\$175.8	\$14.3	\$261.5
Bentley College, Waltham	527	\$13,989.2	\$12,472.1	\$3,761.4	\$22,699.9
Berklee College of Music, Boston	875	\$20,304.4	\$23,519.7	\$4,830.3	\$38,993.8

Berkshire Community College, Pittsfield	35	\$273.0	\$796.4	\$65.8	\$1,003.5
Boston College, Chestnut Hill	932	\$28,845.4	\$22,316.2	\$14,610.7	\$36,550.9
Boston Conservatory, Boston	86	\$2,124.2	\$2,510.0	\$491.1	\$4,143.1
Boston University, Boston	4,542	\$143,209.3	\$110,252.4	\$113,246.5	\$140,215.1
Brandeis University, Waltham	884	\$27,219.8	\$18,861.8	\$20,961.4	\$25,120.2
Bridgewater State College, Bridgewater	135	\$951.8	\$2,057.4	\$432.0	\$2,577.1
Bristol Community College, Fall River	22	\$151.8	\$500.8	\$40.2	\$612.5
Bunker Hill Community College, Boston	553	\$3,815.7	\$13,800.5	\$1,082.1	\$16,534.2
Cambridge College, Cambridge	50	\$985.0	\$1,199.1	\$317.3	\$1,866.9
Cape Cod Community College, West Barnstable	23	\$158.7	\$523.1	\$42.0	\$639.8
Clark University, Worcester	447	\$13,097.1	\$7,519.9	\$6,546.2	\$14,070.8
College of the Holy Cross, Worcester	41	\$1,269.4	\$865.1	\$859.3	\$1,275.1
Curry College, Milton	23	\$503.7	\$482.2	\$255.3	\$730.6
Dean College, Franklin	45	\$1,019.3	\$1,013.9	\$125.5	\$1,907.7
Eastern Nazarene College, Quincy	15	\$265.5	\$229.1	\$87.4	\$407.1
Elms College, Chicopee	12	\$246.0	\$220.5	\$114.7	\$351.8
Emerson College, Boston	201	\$4,836.9	\$4,935.2	\$1,341.7	\$8,430.3
Emmanuel College, Boston	55	\$1,204.5	\$1,225.5	\$451.2	\$1,978.8
Endicott College, Beverly	83	\$1,634.3	\$1,874.3	\$539.3	\$2,969.3
Episcopal Divinity School, Cambridge	6	\$82.6	\$151.2	\$62.0	\$171.9
Fisher College, Boston	70	\$1,174.3	\$1,805.9	\$430.9	\$2,549.3
Fitchburg State College, Fitchburg	98	\$521.9	\$1,409.1	\$264.5	\$1,666.5
Gordon-Conwell Theological Seminary, South Hamilton	104	\$1,432.1	\$2,371.3	\$827.9	\$2,975.4
Greenfield Community College, Greenfield	33	\$278.2	\$751.8	\$63.4	\$966.6
Harvard University, Cambridge	3,669	\$105,491.1	\$83,987.7	\$101,618.4	\$87,860.3
Hebrew College, Newton Centre	2	\$41.9	\$39.8	\$20.6	\$61.0
Hult International Business School, Cambridge	119	\$810.2	\$2,849.5	\$224.9	\$3,434.8
Lasell College, Newton	35	\$649.7	\$706.9	\$343.6	\$1,013.0
Lesley University, Cambridge	168	\$3,796.8	\$3,843.9	\$1,111.5	\$6,529.2
Longy School of Music, Cambridge	84	\$1,910.1	\$2,012.6	\$432.6	\$3,490.1
Massachusetts Bay Community College, Wellesley Hills	97	\$669.3	\$2,210.7	\$177.0	\$2,702.9
Massachusetts College of Art, Boston	50	\$512.0	\$1,127.9	\$180.0	\$1,459.8
Massachusetts College of Liberal Arts, North Adams	15	\$149.6	\$232.2	\$149.5	\$232.3
Massachusetts College of Pharmacy & Allied Health, Boston	126	\$2,570.4	\$3,483.0	\$1,133.3	\$4,920.1
Massachusetts Institute of Technology, Cambridge	2,736	\$87,825.6	\$82,705.5	\$89,926.6	\$80,604.4
Massachusetts Maritime Academy, Buzzards Bay	5	\$59.3	\$72.7	\$32.8	\$99.3
Massachusetts School of Professional Psychology, Boston	12	\$244.8	\$286.4	\$42.2	\$489.0
Massasoit Community College, Brockton	10	\$69.0	\$228.7	\$18.3	\$279.4
Merrimack College, North Andover	33	\$798.6	\$737.8	\$616.6	\$919.8
Middlesex Community College, Lowell	82	\$565.8	\$1,313.6	\$115.6	\$1,763.7
Mount Holyoke College, South Hadley	333	\$10,799.2	\$7,314.3	\$7,277.8	\$10,835.8
Mount Ida College, Newton Centre	93	\$1,720.5	\$2,103.4	\$938.0	\$2,885.8
Mount Wachusett Community College, Gardner	15	\$103.5	\$344.7	\$27.4	\$420.8

New England College of Optometry, Boston	86	\$1,754.4	\$2,235.2	\$233.8	\$3,755.8
New England School of Acupuncture, Watertown	8	\$163.2	\$194.1	\$14.9	\$342.4
Newbury College, Brookline	74	\$1,198.8	\$1,462.9	\$653.3	\$2,008.4
Nichols College, Dudley	5	\$110.0	\$97.9	\$17.6	\$190.4
North Shore Community College, Danvers	23	\$177.3	\$523.1	\$43.1	\$657.3
Northeastern University, Boston	1,980	\$56,232.0	\$49,774.6	\$28,757.0	\$77,249.6
Quincy College, Quincy	491	\$2,194.8	\$7,441.2	\$592.1	\$9,043.9
Quinsigamond Community College, Worcester	29	\$200.1	\$562.6	\$46.8	\$715.9
Regis College, Weston	10	\$213.2	\$221.1	\$97.5	\$336.8
Roxbury Community College, Roxbury	29	\$214.9	\$662.5	\$53.9	\$823.6
Saint John's Seminary College, Brighton	3	\$27.0	\$33.8	\$13.4	\$47.3
Salem State College, Salem	437	\$3,028.8	\$6,732.9	\$1,402.8	\$8,359.0
School of The Museum of Fine Arts, Boston	44	\$1,049.4	\$1,178.4	\$245.1	\$1,982.8
Simmons College, Boston	76	\$1,875.7	\$1,818.8	\$510.7	\$3,183.8
Simon's Rock College of Bard, Great Barrington	11	\$361.2	\$219.1	\$84.3	\$495.9
Smith College, Northampton	241	\$7,355.3	\$5,697.2	\$5,206.4	\$7,846.1
Springfield College, Springfield	42	\$895.4	\$895.9	\$246.8	\$1,544.6
Springfield Technical Community College, Springfield	46	\$334.0	\$951.4	\$78.9	\$1,206.5
Stonehill College, Easton	13	\$332.0	\$314.9	\$259.8	\$387.1
Suffolk University, Boston	635	\$14,075.3	\$18,061.3	\$4,497.5	\$27,639.0
Tufts U. - Fletcher School of Law & Diplomacy, Medford	230	\$7,141.1	\$5,477.3	\$2,999.8	\$9,618.5
Tufts University - School of Medicine, Boston	230	\$6,415.4	\$5,948.7	\$6,598.7	\$5,765.4
Tufts University, Medford	868	\$27,358.5	\$19,517.3	\$19,221.7	\$27,654.1
University of Massachusetts - Dartmouth, North Dartmouth	290	\$2,749.3	\$5,739.0	\$1,118.3	\$7,370.1
University of Massachusetts - Lowell, Lowell	391	\$6,069.1	\$6,890.3	\$2,589.7	\$10,369.7
University of Massachusetts at Amherst, Amherst	1,843	\$32,632.4	\$28,591.1	\$31,287.7	\$29,935.9
University of Massachusetts at Boston, Boston	457	\$6,888.2	\$10,473.6	\$3,374.2	\$13,987.6
Wellesley College, Wellesley	211	\$6,476.9	\$4,702.2	\$4,488.5	\$6,690.5
Wentworth Institute of Technology, Boston	111	\$2,053.5	\$2,299.4	\$223.1	\$4,129.8
Western New England College, Springfield	32	\$691.2	\$654.1	\$195.8	\$1,149.5
Wheaton College, Norton	42	\$1,348.8	\$760.2	\$846.7	\$1,262.4
Wheelock College, Boston	16	\$304.1	\$382.2	\$92.6	\$593.7
Williams College, Williamstown	125	\$3,943.5	\$2,453.7	\$2,573.2	\$3,824.0
Worcester Polytechnic Institute, Worcester	410	\$12,705.9	\$10,070.2	\$3,123.7	\$19,652.4
Worcester State College, Worcester	123	\$867.2	\$2,107.7	\$450.4	\$2,524.5

## **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.