



STATE SCHOLARS INITIATIVE

**Academic Year 2006-2007 (Fall 2006, Spring 2007)
& Academic Year 2007-2008 (Fall 2007, Spring 2008)**

STATE SCHOLARS INITIATIVE STUDENT DATA SUMMARY – Burlington, MA

SSI is administered by the Western Interstate Commission for Higher Education (WICHE), based in Boulder, CO, and funded by the U.S. Department of Education under the Carl D. Perkins Vocational and Technical Education Act of 1998 at \$6.6 million. The work reported herein was supported under State Scholars Initiative, PR/Award Number (V051U050006) as administered by the Office of Vocational and Adult Education, U.S. Department of Education. However, the contents do not necessarily represent the positions or policies of the Office of Vocational and Adult Education or the U.S. Department of Education, and you should not assume endorsement by the Federal Government.

State Scholars Initiative

Student Course Data Summary – 2006-07 and 2007-08

Burlington, Massachusetts

Introduction

Attached you will find summaries of student enrollment data submitted by the Burlington State Scholars Initiative pilot district in Massachusetts for the academic years 2006-07 (Fall 2006 and Spring 2007) and 2007-08 (Fall 2007 and Spring 2008).

As you read these tables and charts, you will need to interpret them in the light of the policy context and environment in your state and within the district and its schools. While these data were collected during time periods when the State Scholars Initiative was active in these districts and schools, no direct attribution – good or bad – can be made solely to the initiative. Furthermore, the possibility of seeing dramatic changes in such a short period is limited. Nevertheless, the data and associated charts presented here are one way for teachers, administrators, guidance counselors, parents, and businesspeople to better understand course-taking patterns among high school students. These data offer unique opportunities to convene SSI constituent groups and to explore ways to further encourage rigorous course-taking behaviors.

Interpreting Data and Charts

Data contained in these summaries are from cross-sectional data files submitted by this district that included course enrollments for all 9th graders, 10th graders, 11th graders, and 12th graders enrolled each term. No longitudinal information is included here. Demographic characteristics for the two groups of students (2006-07 and 2007-08) are in Table 1 and include gender, race/ethnicity, limited English proficiency, economically disadvantaged status, special education enrollment, and level of schooling. Figure 1 is a visual representation of these data.

Table 2 includes information on the number and percentage of students in the district who took particular courses that comprise the State Scholars Initiative Core Course of Study each term (or academic year). Figures 2 through 6 each spotlight one of the main subjects – English, mathematics, science, language other than English, and social studies. A key finding has been provided for each chart. Tables 3 and 4 contain data for the number and percentage of 9th, 10th, 11th, and 12th graders enrolled in each SSI course category by term (or academic year). Tables 5 and 6 contain data for the number and percentage of students by demographic characteristic enrolled in each SSI course category by term (or academic year).

For additional information on methodology, please see the State Scholars Initiative Evaluation Reports for Goals 2 and 3 available at the website: www.wiche.edu/statescholars.

Special Thanks

We would like to express special thanks to the many school-, district-, and state-level personnel who worked to extract student data from local student information systems and provide it to the State Scholars Initiative for use. Without your help, there would be no data to be analyzed, and we appreciate your role in making this happen.



Burlington, Massachusetts Student Course Data Summary

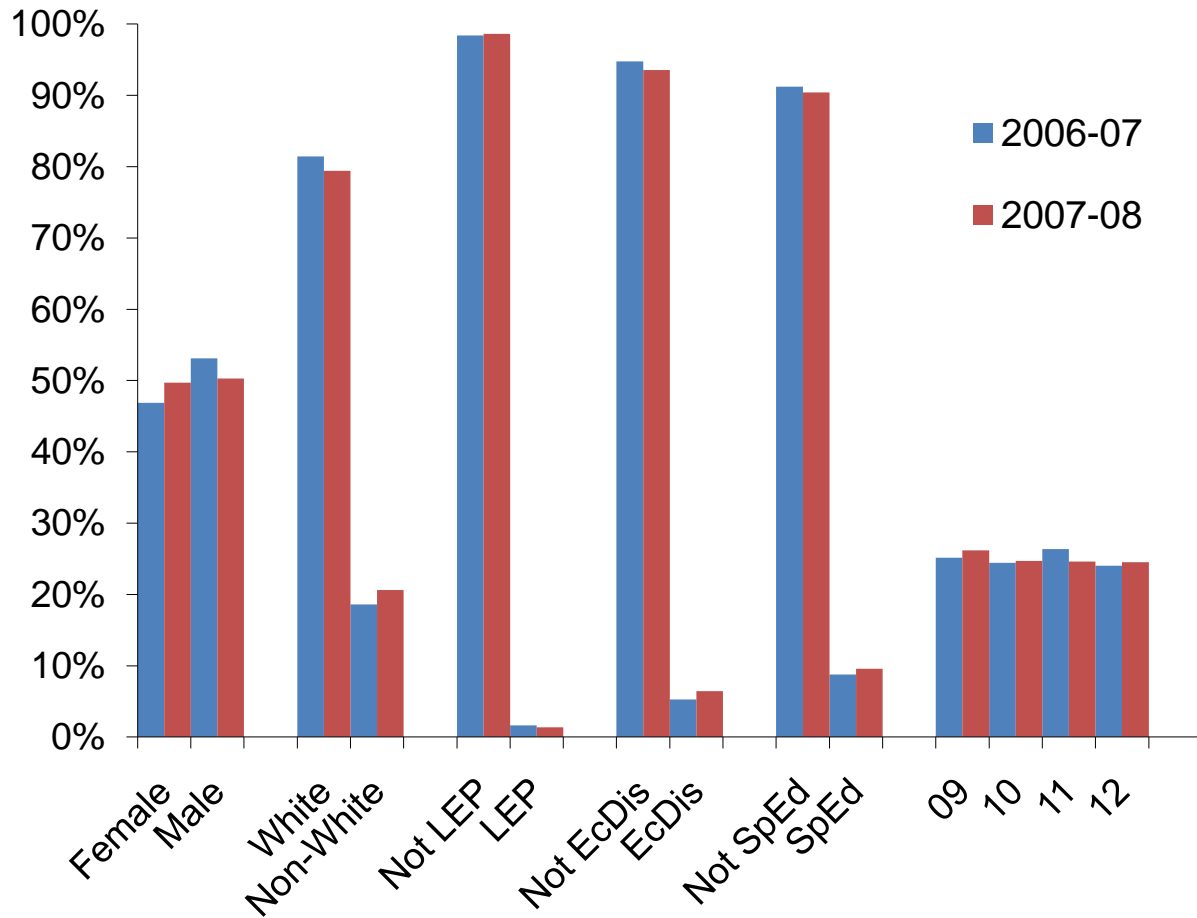
Table 1. Burlington, Massachusetts State Scholars Initiative

Year-to-Year Comparison of Number and Percent of SSI Students by Demographic Categories

Student Characteristics	2006-07		2007-08	
	Number of Students	% of Total	Number of Students	% of Total
Female	464	46.9%	509	49.7%
Male	526	53.1%	515	50.3%
White	806	81.4%	813	79.4%
Non-White	184	18.6%	211	20.6%
Not Limited English Proficiency	974	98.4%	1,010	98.6%
Limited English Proficiency	16	1.6%	14	1.4%
Not Economically Disadvantaged	938	94.7%	958	93.6%
Economically Disadvantaged	52	5.3%	66	6.4%
Not in Special Education	903	91.2%	926	90.4%
In Special Education	87	8.8%	98	9.6%
09 graders	249	25.2%	268	26.2%
10 graders	242	24.4%	253	24.7%
11 graders	261	26.4%	252	24.6%
12 graders	238	24.0%	251	24.5%



Figure 1. Year-to-Year Comparison of Burlington, Massachusetts SSI Enrollment by Demographic Categories



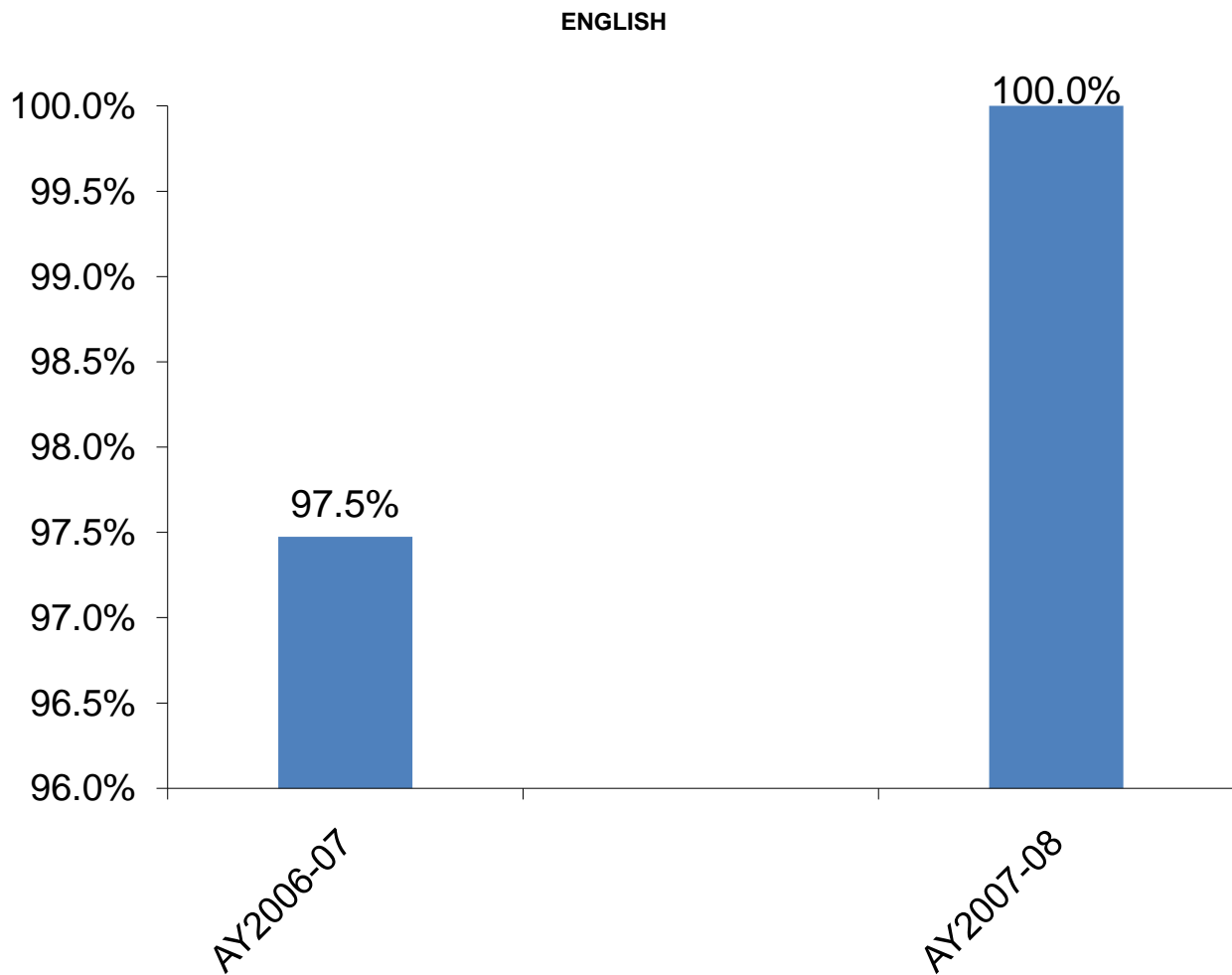
Data from Table 1 above.

**Table 2. Burlington, Massachusetts State Scholars Initiative
Year-to-Year Comparison of SSI Enrollments by SSI Course Type**

SSI Course Type	Number of Students	% of Total	Number of Students	% of Total
	AY2006-07	AY2006-07	AY2007-08	AY2007-08
English	965	97.5%	1,024	100.0%
Other Mathematics	28	2.8%	58	5.7%
Algebra I	102	10.3%	104	10.2%
Algebra II	246	24.8%	267	26.1%
Geometry	258	26.1%	267	26.1%
Higher Mathematics	326	32.9%	97	9.5%
Other Science	396	40.0%	175	17.1%
Biology	283	28.6%	262	25.6%
Chemistry	195	19.7%	251	24.5%
Physics	51	5.2%	242	23.6%
Language Other Than English	619	62.5%	702	68.6%
Social Studies	887	89.6%	839	81.9%

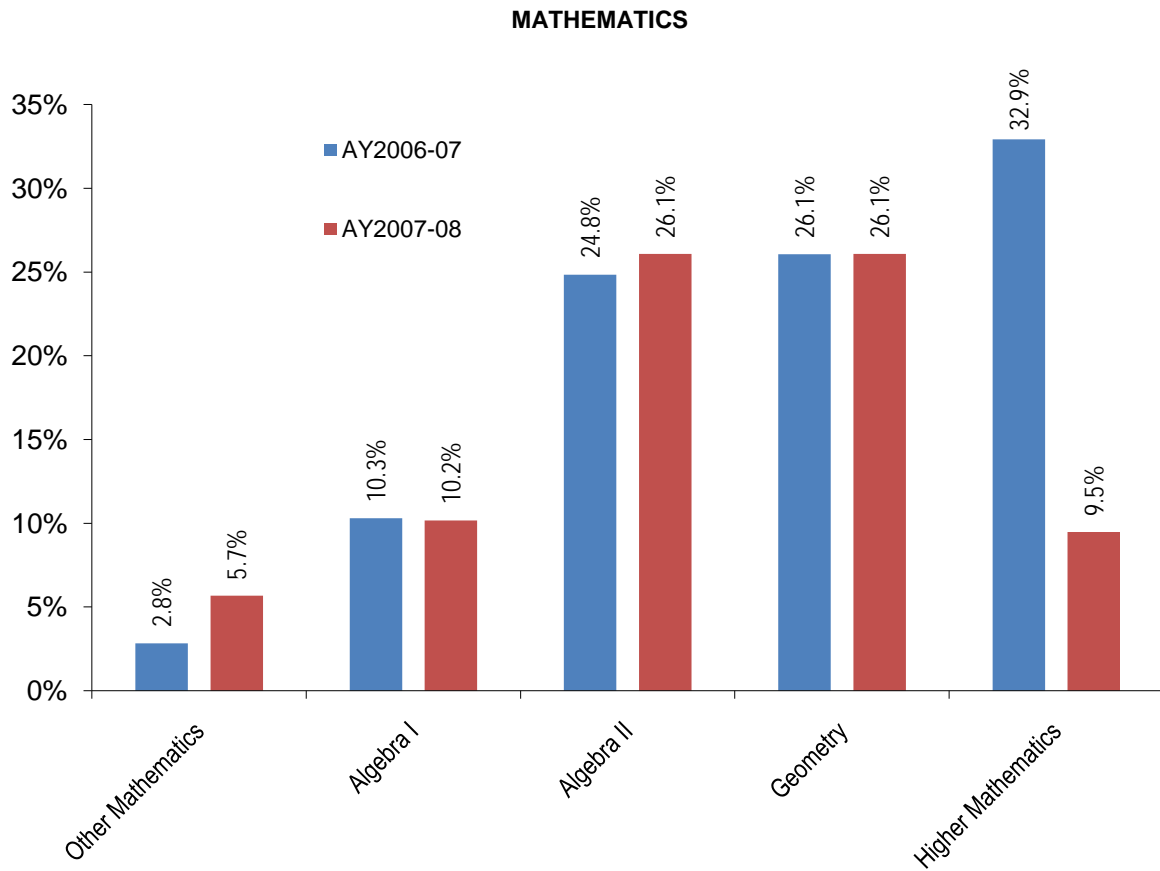


Figure 2. Comparison of Burlington, Massachusetts SSI Enrollment All Grades (9th – 12th), 2006-07 and 2007-08



Nearly one hundred percent of students enrolled in English these two academic years.

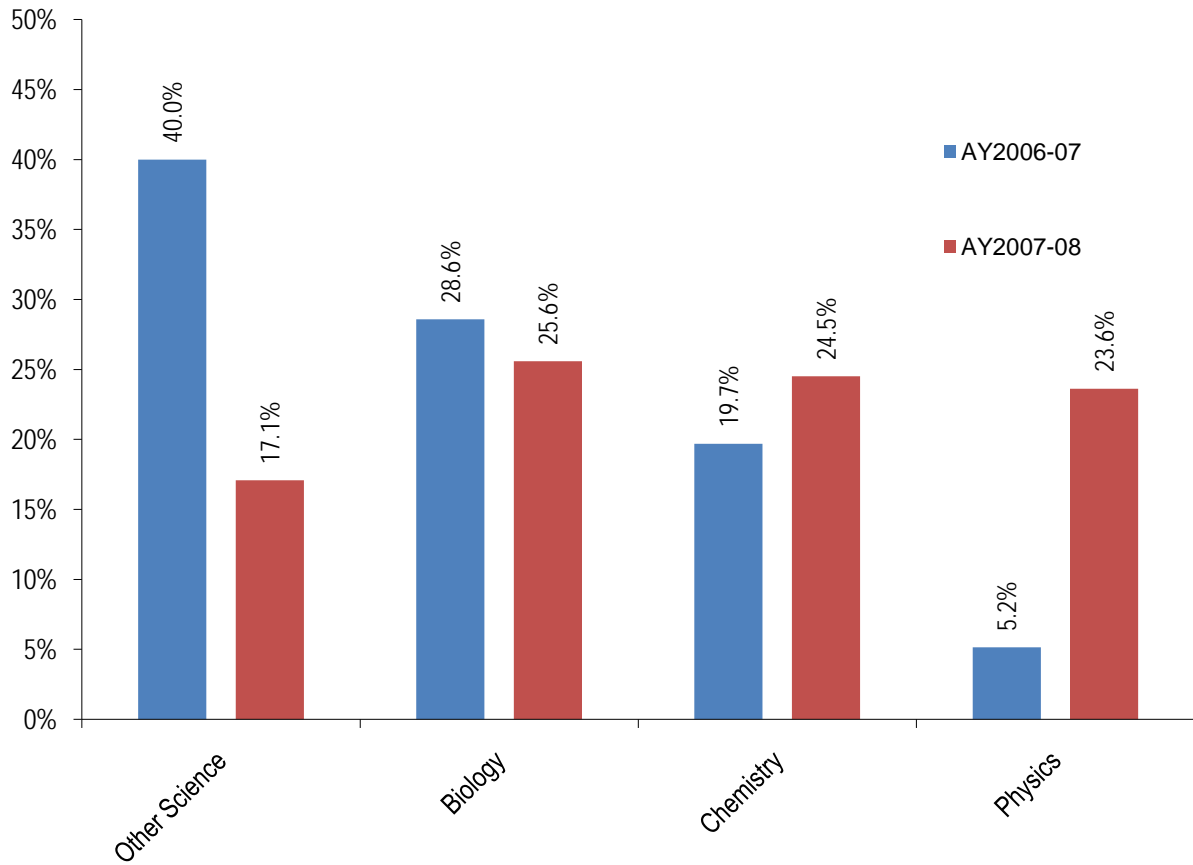
Figure 3. Comparison of Burlington, Massachusetts SSI Enrollment All Grades (9th – 12th), 2006-07 and 2007-08



Twenty-six percent of the student population enrolled in geometry and algebra II in 2007-08.

Figure 4. Comparison of Burlington, Massachusetts SSI Enrollment All Grades (9th – 12th), 2006-07 and 2007-08

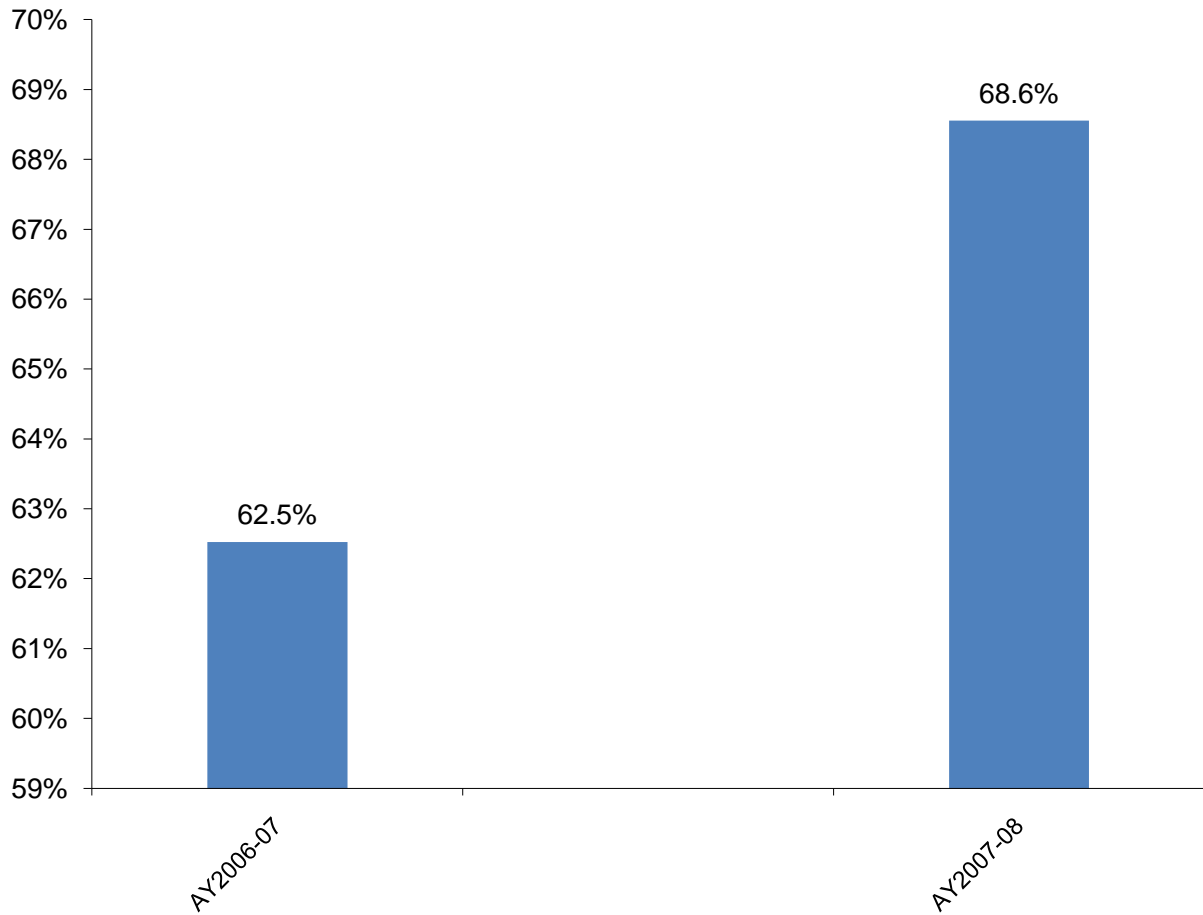
SCIENCE



Physics enrollments increased from 5.2% in 2006-07 to 23.6% in 2007-08.

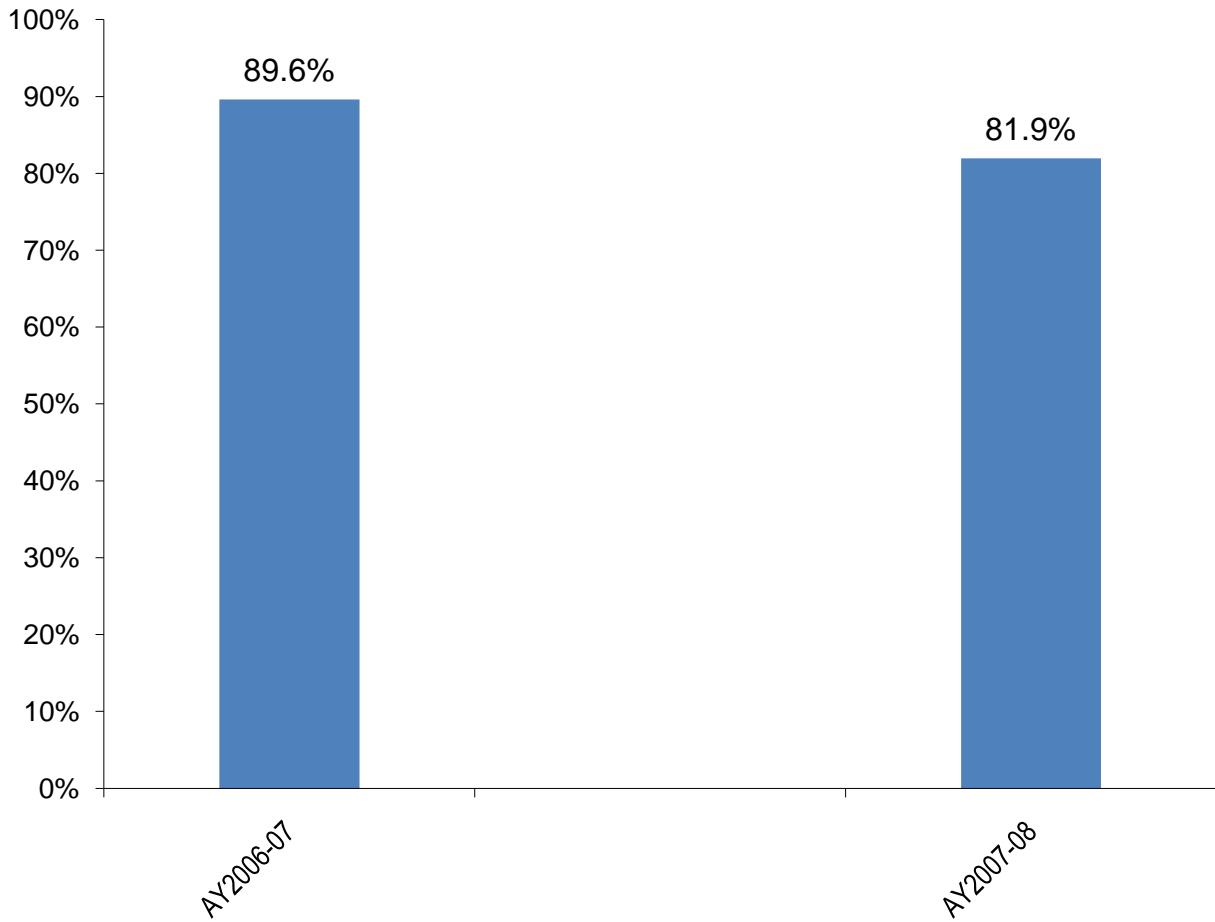
Figure 5. Comparison of Burlington, Massachusetts SSI Enrollment All Grades (9th – 12th), 2006-07 and 2007-08

LANGUAGE OTHER THAN ENGLISH



Over 62% of students regularly enroll in language other than English courses.

Figure 6. Comparison of Burlington, Massachusetts SSI Enrollment All Grades (9th – 12th), 2006-07 and 2007-08
SOCIAL STUDIES



Over 81% of students enroll in social studies courses.

Table 3. Aggregated Burlington, Massachusetts Year-to-Year Comparison Data by Grade Level, Academic Year 2006-07

Data are from the Burlington State Scholars Initiative pilot district in Massachusetts and represent 990 students in Academic Year 2006-07. For overall SSI population percentages by various characteristics, refer to Table 1. Note: “Small n” – number was one through five. “Omitted” – number or percent omitted to eliminate ability to calculate numbers in “small n” cells.

	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
English	249	9th graders	100.0%
	238	10th graders	98.3%
	253	11th graders	96.9%
	225	12th graders	94.5%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Other Mathematics	Small n	9th graders	Omitted
	Small n	10th graders	Omitted
	Small n	11th graders	Omitted
	20	12th graders	8.4%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Algebra I	100	9th graders	40.2%
	Small n	10th graders	Omitted
	Small n	11th graders	Omitted
	0	12th graders	0.0%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Algebra II	0	9th graders	0.0%
	134	10th graders	55.4%
	108	11th graders	41.4%
	Small n	12th graders	Omitted
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Geometry	146	9th graders	58.6%
	100	10th graders	41.3%
	12	11th graders	4.6%
	0	12th graders	0.0%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Higher Mathematics	0	9th graders	0.0%
	Small n	10th graders	Omitted
	124	11th graders	47.5%
	201	12th graders	84.5%



	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Other Science	184	9th graders	73.9%
	Small n	10th graders	Omitted
	68	11th graders	26.1%
	143	12th graders	60.1%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Biology	65	9th graders	26.1%
	188	10th graders	77.7%
	19	11th graders	7.3%
	11	12th graders	4.6%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Chemistry	0	9th graders	0.0%
	45	10th graders	18.6%
	140	11th graders	53.6%
	10	12th graders	4.2%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Physics	0	9th graders	0.0%
	Small n	10th graders	Omitted
	22	11th graders	8.4%
	28	12th graders	11.8%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Language Other Than English	234	9th graders	94.0%
	226	10th graders	93.4%
	122	11th graders	46.7%
	37	12th graders	15.5%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Social Studies	249	9th graders	100.0%
	242	10th graders	100.0%
	261	11th graders	100.0%
	135	12th graders	56.7%



Table 4. Aggregated Burlington, Massachusetts Year-to-Year Comparison Data by Grade Level, Academic Year 2007-08

Data are from the Burlington State Scholars Initiative pilot district in Massachusetts and represent 1,024 students in Academic Year 2007-08. For overall SSI population percentages by various characteristics, refer to Table 1. Note: “Small n” – number was one through five. “Omitted” – number or percent omitted to eliminate ability to calculate numbers in “small n” cells.

	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
English	268	9th graders	100.0%
	253	10th graders	100.0%
	252	11th graders	100.0%
	251	12th graders	100.0%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Other Mathematics	Small n	9th graders	Omitted
	Small n	10th graders	Omitted
	Small n	11th graders	Omitted
	49	12th graders	19.5%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Algebra I	104	9th graders	38.8%
	0	10th graders	0.0%
	0	11th graders	0.0%
	0	12th graders	0.0%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Algebra II	0	9th graders	0.0%
	146	10th graders	57.7%
	114	11th graders	45.2%
	7	12th graders	2.8%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Geometry	159	9th graders	59.3%
	106	10th graders	41.9%
	Small n	11th graders	Omitted
	Small n	12th graders	Omitted



	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Higher Mathematics	0	9th graders	0.0%
	0	10th graders	0.0%
	0	11th graders	0.0%
	97	12th graders	38.6%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Other Science	Small n	9th graders	Omitted
	Small n	10th graders	Omitted
	51	11th graders	20.2%
	120	12th graders	47.8%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Biology	55	9th graders	20.5%
	186	10th graders	73.5%
	11	11th graders	4.4%
	10	12th graders	4.0%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Chemistry	0	9th graders	0.0%
	65	10th graders	25.7%
	167	11th graders	66.3%
	19	12th graders	7.6%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Physics	210	9th graders	78.4%
	Small n	10th graders	Omitted
	11	11th graders	4.4%
	20	12th graders	8.0%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Language Other Than English	254	9th graders	94.8%
	233	10th graders	92.1%
	153	11th graders	60.7%
	62	12th graders	24.7%



	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Social Studies	268	9th graders	100.0%
	253	10th graders	100.0%
	252	11th graders	100.0%
	66	12th graders	26.3%



Table 5. Aggregated Burlington, Massachusetts Year-to-Year Comparison Data by Student Characteristic, Academic Year 2006-07

Data are from the Burlington State Scholars Initiative pilot district in Massachusetts and represent 990 students in Academic Year 2006-07. For overall SSI population percentages by various characteristics, refer to Table 1. Note: “Small n” – number was one through five. “Omitted” – number or percent omitted to eliminate ability to calculate numbers in “small n” cells.

	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
English	451	Female	46.7%
	514	Male	53.3%
	788	White	81.7%
	177	Non-White	18.3%
	951	Not LEP	98.5%
	14	LEP	1.5%
	917	Not EcDis	95.0%
	48	EcDis	5.0%
	890	Not SpEd	92.2%
	75	SpEd	7.8%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Other Mathematics	16	Female	57.1%
	12	Male	42.9%
	25	White	89.3%
	3	Non-White	10.7%
	28	Not LEP	100.0%
	0	LEP	0.0%
	Omitted	Not EcDis	Omitted
	Small n	EcDis	Omitted
	14	Not SpEd	50.0%
	14	SpEd	50.0%

	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Algebra I	47	Female	46.1%
	55	Male	53.9%
	79	White	77.5%
	23	Non-White	22.5%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	89	Not EcDis	87.3%
	13	EcDis	12.7%
	82	Not SpEd	80.4%
	20	SpEd	19.6%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Algebra II	118	Female	48.0%
	128	Male	52.0%
	201	White	81.7%
	45	Non-White	18.3%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	235	Not EcDis	95.5%
	11	EcDis	4.5%
	222	Not SpEd	90.2%
	24	SpEd	9.8%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Geometry	117	Female	45.3%
	141	Male	54.7%
	210	White	81.4%
	48	Non-White	18.6%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	245	Not EcDis	95.0%
	13	EcDis	5.0%
	239	Not SpEd	92.6%
	19	SpEd	7.4%



	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Higher Mathematics	152	Female	46.6%
	174	Male	53.4%
	267	White	81.9%
	59	Non-White	18.1%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	314	Not EcDis	96.3%
	12	EcDis	3.7%
	Omitted	Not SpEd	Omitted
	Small n	SpEd	Omitted
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Other Science	176	Female	44.4%
	220	Male	55.6%
	340	White	85.9%
	56	Non-White	14.1%
	389	Not LEP	98.2%
	7	LEP	1.8%
	371	Not EcDis	93.7%
	25	EcDis	6.3%
	345	Not SpEd	87.1%
	51	SpEd	12.9%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Biology	146	Female	51.6%
	137	Male	48.4%
	227	White	80.2%
	56	Non-White	19.8%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	273	Not EcDis	96.5%
	10	EcDis	3.5%
	264	Not SpEd	93.3%
	19	SpEd	6.7%



	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Chemistry	91	Female	46.7%
	104	Male	53.3%
	151	White	77.4%
	44	Non-White	22.6%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	184	Not EcDis	94.4%
	11	EcDis	5.6%
	186	Not SpEd	95.4%
	9	SpEd	4.6%
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Physics	15	Female	29.4%
	36	Male	70.6%
	35	White	68.6%
	16	Non-White	31.4%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	Omitted	Not EcDis	Omitted
	Small n	EcDis	Omitted
	Omitted	Not SpEd	Omitted
	Small n	SpEd	Omitted
	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Language Other Than English	308	Female	49.8%
	311	Male	50.2%
	494	White	79.8%
	125	Non-White	20.2%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	589	Not EcDis	95.2%
	30	EcDis	4.8%
	592	Not SpEd	95.6%
	27	SpEd	4.4%



	Total Enrolled		Total Enrolled
	AY2006-07		AY2006-07
Social Studies	417	Female	47.0%
	470	Male	53.0%
	719	White	81.1%
	168	Non-White	18.9%
	871	Not LEP	98.2%
	16	LEP	1.8%
	838	Not EcDis	94.5%
	49	EcDis	5.5%
	808	Not SpEd	91.1%
	79	SpEd	8.9%



Table 6. Aggregated Burlington, Massachusetts Year-to-Year Comparison Data by Student Characteristic Academic Year 2007-08

Data are from the Burlington State Scholars Initiative pilot district in Massachusetts and represent 1,024 students in Academic Year 2007-08. For overall SSI population percentages by various characteristics, refer to Table 1. Note: “Small n” – number was one through five. “Omitted” – number or percent omitted to eliminate ability to calculate numbers in “small n” cells.

	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
English	509	Female	49.7%
	515	Male	50.3%
	813	White	79.4%
	211	Non-White	20.6%
	1,010	Not LEP	98.6%
	14	LEP	1.4%
	958	Not EcDis	93.6%
	66	EcDis	6.4%
	926	Not SpEd	90.4%
	98	SpEd	9.6%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Other Mathematics	33	Female	56.9%
	25	Male	43.1%
	52	White	89.7%
	6	Non-White	10.3%
	58	Not LEP	100.0%
	0	LEP	0.0%
	48	Not EcDis	82.8%
	10	EcDis	17.2%
	35	Not SpEd	60.3%
	23	SpEd	39.7%



	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Algebra I	58	Female	55.8%
	46	Male	44.2%
	83	White	79.8%
	21	Non-White	20.2%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	92	Not EcDis	88.5%
	12	EcDis	11.5%
	80	Not SpEd	76.9%
	24	SpEd	23.1%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Algebra II	126	Female	47.2%
	141	Male	52.8%
	208	White	77.9%
	59	Non-White	22.1%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	252	Not EcDis	94.4%
	15	EcDis	5.6%
	248	Not SpEd	92.9%
	19	SpEd	7.1%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Geometry	136	Female	50.9%
	131	Male	49.1%
	212	White	79.4%
	55	Non-White	20.6%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	246	Not EcDis	92.1%
	21	EcDis	7.9%
	243	Not SpEd	91.0%
	24	SpEd	9.0%



	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Higher Mathematics	46	Female	47.4%
	51	Male	52.6%
	70	White	72.2%
	27	Non-White	27.8%
	97	Not LEP	100.0%
	0	LEP	0.0%
	Omitted	Not EcDis	Omitted
	Small n	EcDis	Omitted
	97	Not SpEd	100.0%
	0	SpEd	0.0%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Other Science	85	Female	48.6%
	90	Male	51.4%
	144	White	82.3%
	31	Non-White	17.7%
	175	Not LEP	100.0%
	0	LEP	0.0%
	Omitted	Not EcDis	Omitted
	Small n	EcDis	Omitted
	157	Not SpEd	89.7%
	18	SpEd	10.3%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Biology	117	Female	44.7%
	145	Male	55.3%
	199	White	76.0%
	63	Non-White	24.0%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	238	Not EcDis	90.8%
	24	EcDis	9.2%
	237	Not SpEd	90.5%
	25	SpEd	9.5%



	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Chemistry	133	Female	53.0%
	118	Male	47.0%
	190	White	75.7%
	61	Non-White	24.3%
	Omitted	Not LEP	Omitted
	Small n	LEP	Omitted
	243	Not EcDis	96.8%
	8	EcDis	3.2%
	242	Not SpEd	96.4%
	9	SpEd	3.6%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Physics	123	Female	50.8%
	119	Male	49.2%
	196	White	81.0%
	46	Non-White	19.0%
	235	Not LEP	97.1%
	7	LEP	2.9%
	224	Not EcDis	92.6%
	18	EcDis	7.4%
	214	Not SpEd	88.4%
	28	SpEd	11.6%
	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Language Other Than English	370	Female	52.7%
	332	Male	47.3%
	551	White	78.5%
	151	Non-White	21.5%
	702	Not LEP	100.0%
	0	LEP	0.0%
	662	Not EcDis	94.3%
	40	EcDis	5.7%
	660	Not SpEd	94.0%
	42	SpEd	6.0%



	Total Enrolled		Total Enrolled
	AY2007-08		AY2007-08
Social Studies	419	Female	49.9%
	420	Male	50.1%
	661	White	78.8%
	178	Non-White	21.2%
	825	Not LEP	98.3%
	14	LEP	1.7%
	786	Not EcDis	93.7%
	53	EcDis	6.3%
	758	Not SpEd	90.3%
	81	SpEd	9.7%

