

# Shrewsbury High School

Shrewsbury, MA



## Class Size Report 2017-2018

Data based on enrollment numbers as of  
October 1, 2017

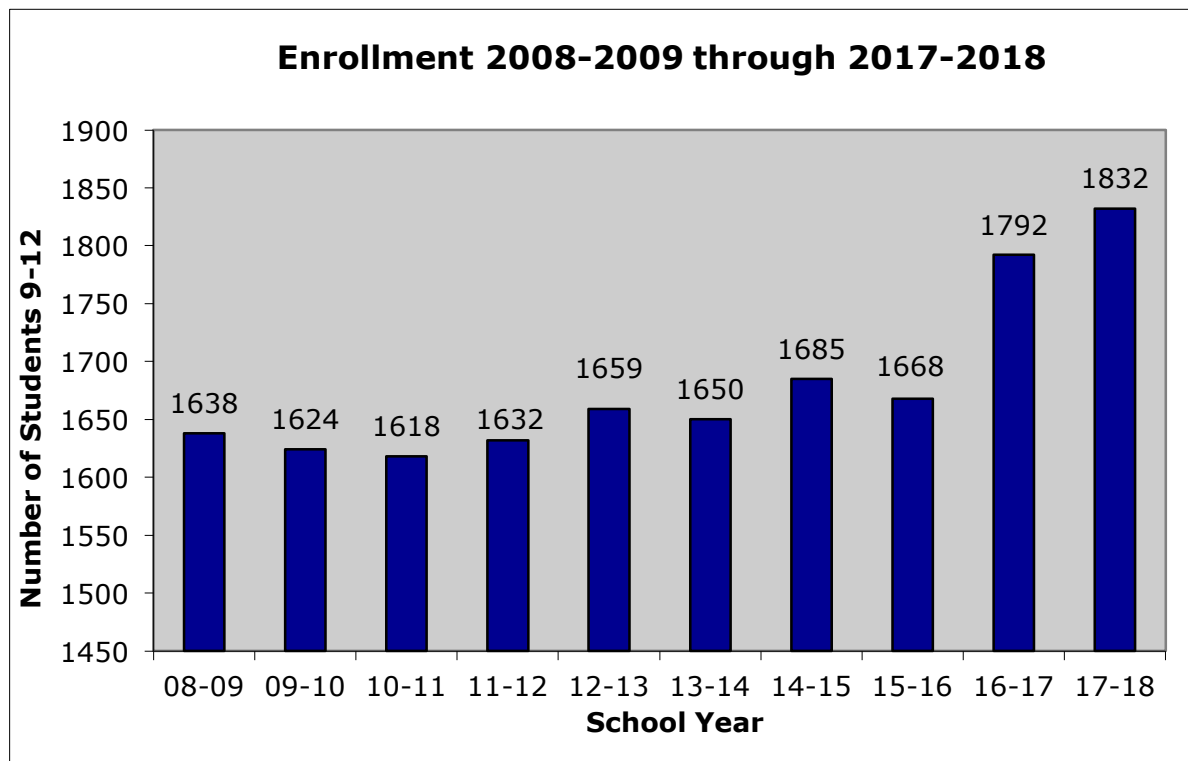
## Shrewsbury High School Class Size Report - October 2017

This report is based on data from the week of October 1, 2017. It contains information on class size and student enrollment for the first and second semesters of the 2017-2018 school year.

### Overall Enrollment

With an increase of 40 students from last year, high school enrollment has again reached its highest level with 1,832 students in grades 9-12. Since the 2008-2009 school year, overall enrollment has increased by 194 students. The charts below show the ten-year enrollment trend for the high school both in the aggregate and by grade.

Grade	08-09	09-10	10-11	11-12	12-13	13-14	OVERRIDE	15-16	16-17	17-18
							14-15			
9	393	421	401	414	408	420	432	413	513	451
10	429	398	417	414	422	406	423	440	428	513
11	390	415	390	413	417	421	410	412	441	429
12	426	390	410	391	412	403	420	403	410	439
<b>Total</b>	<b>1638</b>	<b>1624</b>	<b>1618</b>	<b>1632</b>	<b>1659</b>	<b>1650</b>	<b>1685</b>	<b>1668</b>	<b>1792</b>	<b>1832</b>



### **Diversifying Student Population**

From July 1<sup>st</sup> through October 1<sup>st</sup>, 2017, seventy-two (72) students have enrolled at Shrewsbury High School. This population continues to influence the demand for certain courses resulting in a relatively significant impact on FTEs for certain departments. These seventy-two students came to Shrewsbury from the following locations:

- 53 from within Massachusetts
- 9 from states other than Massachusetts including:
  - California
  - Colorado
  - Connecticut
  - Indiana
  - Michigan
  - New York
  - North Carolina
  - Tennessee
  - Virginia
- 8 from countries other than the United States including:
  - Albania
  - Brazil
  - China
  - India
  - Kenya
  - Malaysia
  - Spain
  - Venezuela
- 2 students previously home-schooled

### **Building/Facility Capacity**

Increased enrollment impacts the master schedule, the availability of courses, class size, and building capacity. As may be expected with its highest enrollment on record, Shrewsbury High School operates at a building capacity of 96% (compared to 76% just two years ago). That is, on average, 96% of classrooms are in use during the school day (periods 1 – 7). This represents a significant factor when constructing the master schedule and the availability of courses throughout the school day. As a result, 61% of teachers now teach in two or more classrooms and 21% of teachers now teach in three different classrooms throughout the day.

ALL departments are experiencing shared classrooms this year:

- 25% of Foreign Language teachers are in at least two different classrooms.
- 44% of Social Science teachers are in at least two different classrooms.
- 53% of Science & Engineering teachers are in at least two different classrooms.
- 63% of English teachers are in at least two different classrooms.
- 67% of Visual Arts, ELE, and ITAMS teachers are in at least two different classrooms.
- 75% of Math teachers are in at least two different classrooms.
- 83% of Special Education teachers are in at least two different classrooms.

## Room Availability

The chart below summarizes the number of available classrooms in each wing of the high school:

# of available rooms / # of total rooms in that hallway							
	A300s English & ELE	B300s Social Science	A200s Math	A100s & B100s Science & FCS	B200s Foreign Language	M100s Health, Special Ed. & ITAMS	Totals
P1	0 / 16	0 / 15	0 / 16	0 / 17	0 / 13	1 / 6	1 / 86
P2	2 / 16	1 / 15	1 / 16	0 / 17	0 / 13	0 / 6	4 / 86
P3	2 / 16	2 / 15	1 / 16	0 / 17	1 / 13	0 / 6	6 / 86
P4	2 / 16	2 / 15	0 / 16	2 / 17	1 / 13	1 / 6	8 / 86
P5	0 / 16	1 / 15	0 / 16	2 / 17	0 / 13	0 / 6	3 / 86
P6	0 / 16	0 / 15	0 / 16	2 / 17	1 / 13	0 / 6	3 / 86
P7	0 / 16	0 / 15	0 / 16	2 / 17	0 / 13	0 / 6	2 / 86
	6 / 112 (95%)	6 / 105 (94%)	2 / 112 (98%)	8 / 119 (94%)	3 / 91 (97%)	2 / 42 (95%)	27 / 602 (96%)

## Teaching and Full-Time Equivalency (FTEs)

In order to address the overall increased enrollment and demand for courses, the following departments increased FTEs in teaching staff:

- Science: additional .4 FTE
- ITAMS: internal shift of 0.1 FTE non-teaching support to teaching staff
- Foreign Language: additional .4 FTE in French; additional .2 FTE in Mandarin Chinese
- English: additional 1.0 FTE
- Social Science: additional 1.0 FTE

Teaching FTEs by Academic Department							
		OVER RIDE					
Department--All	13-14	14-15	15-16	16-17	17-18	1- Year Diff.	5-Year Diff.
Engineering	1.2	1.6	1.8	2.0	2.0	-	+0.8
English	13.4	16.4	16.4	16.4	17.4	+1.0	+4.0
English Language Education	1.2	1.9	1.9	1.9	1.9	-	+0.7
Family & Consumer Science	3.0	3.0	3.0	3.0	3.0	-	-
Foreign Language	11.0	12.0	12.0	12.4	13.0	+0.6	+2.0
Health & Phys. Ed.	8.6	9.0	9.0	9.0	9.0	-	+0.4
ITAMS	2.0	2.6	3.0	3.4	3.5	+0.1	+1.5
Math	13.8	16.8	16.8	16.8	16.8	-	+3.0
Performing Arts	2.1	2.7	2.9	2.9	2.9	-	+0.8
Science	13.4	17.0	16.8	16.6	17.0	+0.4	+3.6
Social Science	12.4	15.4	15.4	15.4	16.4	+1.0	+4.0
Special Programs (VHS)	0.2	0.2	0.2	0.1	0.1	-	-0.1
Visual Art	3.4	4.4	4.4	4.3	4.3	-	+0.9
<b>Total FTE</b>	<b>85.7</b>	<b>103.0</b>	<b>103.6</b>	<b>104.2</b>	<b>107.3</b>	<b>+3.1</b>	<b>+21.6</b>
9 - 12 Enrollment	1650	1685	1668	1792	1832	+40	+182

Staffing (FTEs) by Academic Department							
Department--All	13-14	14-15	15-16	16-17	17-18	1-Year Diff.	5-Year Diff.
English	13.4	16.4	16.4	16.4	17.4	1.0	+4.0
Social Science	12.4	15.4	15.4	15.4	16.4	1.0	+4.0
Math	13.8	16.8	16.8	16.8	16.8	-	+3.0
Science & Engineering	14.6	18.6	18.6	18.6	19.0	+0.4	+4.4
Foreign Language	11.0	12.0	12.0	12.4	13.0	+0.6	+2.0
<b>Academic FTEs Total</b>	<b>65.2</b>	<b>79.2</b>	<b>79.2</b>	<b>79.6</b>	<b>82.6</b>	<b>+3.0</b>	<b>+17.4</b>
9 - 12 Enrollment	1650	1685	1668	1792	1832	+40	+182
<b>Average Academic Student-to-Teacher Ratio</b>	<b>25.3</b>	<b>21.3</b>	<b>21.1</b>	<b>22.5</b>	<b>22.2</b>	<b>-0.3</b>	<b>-3.1</b>

### Class Enrollment

As a result of the additional FTEs indicated previously, the significant progress made in reducing the number of over-enrolled (27 or more students) sections was maintained in the English, Foreign Language, Science & Engineering, and Social Science departments. At the same time, a relatively significant number of sections in Math (20%) are now over-enrolled as the result of increased enrollment without any additional FTEs in the past three years.

Department	# sections at 27 or more students					% of over-enrolled classes				
		OVER RIDE					OVER RIDE			
	13-14	14-15	15-16	16-17	17-18	13-14	14-15	15-16	16-17	17-18
English	19	2	2	3	0	28%	2%	2%	4%	0%
For. Lang.	12	5	2	5	4	22%	8%	3%	8%	6%
Math	22	3	0	6	17	32%	4%	0%	8%	20%
Science/Eng.	53*	0*	0*	5*	7*	65%	0%	0%	7%	7%
Soc. Sci.	33	1	1	14	0	48%	1%	1%	21%	0%
<b>TOTALS</b>	<b>139</b>	<b>11</b>	<b>5</b>	<b>33</b>	<b>28</b>	<b>41%</b>	<b>3%</b>	<b>1%</b>	<b>10%</b>	<b>6%</b>

### Teacher Caseloads

The vast majority of SHS teachers are responsible for a caseload of between 100 and 110 students (class size average is 20 - 22 students per section). Although the over-ride in June 2014 significantly reduced teachers' total caseload of students and their corresponding average class size, over half of the teachers this year (53%) have an average class size over 21 students (compared to just 33% two years ago).

	Pre-override		Post-override							
Teachers' Caseload: Average Class Size	2013 – 2014		2014 – 2015		2015 – 2016		2016 – 2017		2017 – 2018	
< 18.1	6%	16%	19%	43%	15%	50%	16%	38%	15%	29%
18.1 – 20.0	10%		24%		35%		22%		14%	
20.1 – 22.0	14%	84%	29%	57%	35%	50%	36%	62%	32%	71%
> 22.0	70%		28%		15%		26%		39%	

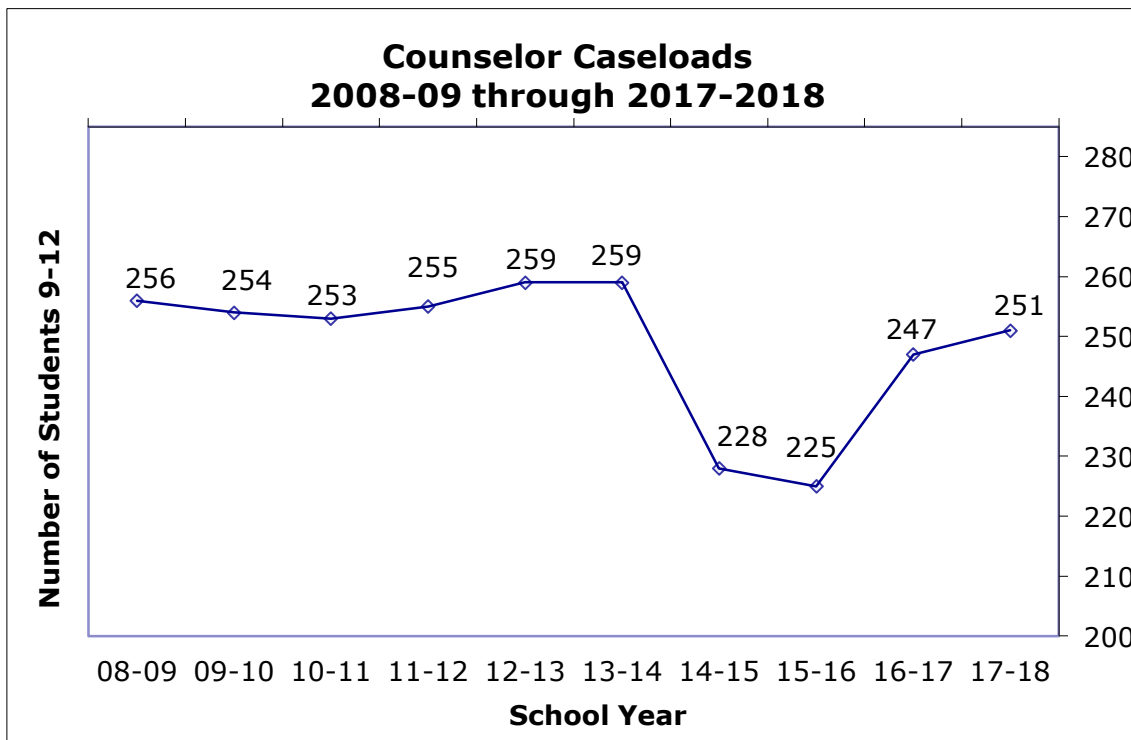
### Average Class Size by Department

As the result of increased enrollment and minimal increase in teaching FTEs, the average class size for all departments increased compared to the last two years.

Average Class Size by Department 2013-14 through 2017-18						
Department	OVERRIDE					Range 17-18
	13-14	14-15	15-16	16-17	17-18	
English	23.9	20.0	20.2	21.2	20.5	8-25
English Language Learners	7.0	7.7	10.5	11.1	11.6	4-16
Engineering	21.6	19.3	19.1	20.5	17.5	14-20
Family & Consumer Science	21.6	21.8	22.1	22.5	21.0	11-24
Foreign Language	22.3	22.8	20.3	20.3	20.7	4-29
Health	24.2	24.3	24.1	27.5	27.3	19-30
Instructional Technology	16.0	16.0	11.0	12.0	9.6	1-22
Mathematics	23.5	20.6	20.3	22.3	22.3	13-30
Performing Arts	29.9	22.9	23.5	24.6	24.9	9-62
Physical Education	24.3	25.3	24.8	24.8	27.3	10-32
Science	24.2	19.8	20.3	21.4	21.3	11-26
Social Sciences	25.8	22.8	21.7	24.5	21.9	13-26
Visual Arts	19.6	16.2	16.9	17.9	16.5	9-22

### School Counseling

One of the departments most affected by an increase in enrollment is the School Counseling Department. With the addition of 164 students in the past two years, the average student-to-counselor ratio has increased from 225:1 just two years ago to 251:1 this year.



### Special Education & ELL Co-Taught Courses

Expanded programming for English Language Learners and Special Education students continues with several co-taught sections in Mathematics, Science, and English. This school year we have offered additional sections of co-taught Lab Chemistry, Lab Biology, Algebra and Geometry I, Algebra and Geometry II, Advanced Math I, and English 9.

### Student Internships and Independent Studies

Students continue to enroll in school-based internships for credit during what would otherwise be study periods. These opportunities have helped mitigate the overall study hall numbers. School-based internships include office internships, which involve clerical duties (e.g. answering telephones, filing, reception) as well as academic internships where students work as teaching assistants in certain classrooms and provide clerical support to department directors. Enrollments for the past two years are as follows:

<b>Internships</b>	<b>2016 - 17</b>	<b>2017 - 18</b>
Program	# Students	# Students
Athletic Internship	3	8
Banking Internship	3	2
Family and Consumer Science	1	0
English Internship	2	0
Foreign Language Internship	5	6
Guidance Internship	7	5
ITAMS Internship	1	5
Math Internship	12	9
Media Internship	5	7
Office Internship	9	5
Performing Arts Internship	0	1
Science Internship	2	4
Social Science Internship	2	4
Special Education Internship	6	2
Visual Arts Internship	5	5
<b>Total</b>	<b>63</b>	<b>63</b>