

School of Science and Technology

2015-2016 Profile

The School of Science and Technology (SST) provides a rigorous and challenging science-rich curriculum to motivated high school students. Through the venues of traditional instruction, field and research experience, students engage in diverse educational opportunities. The goal is to create a passion for education and learning through curiosity, empowerment and success.

SCHOOL OVERVIEW AND ACCREDITATION

SST is a science and technology magnet high school housed at the Capital Center in the Beaverton School District. The Beaverton School District is the third largest district in Oregon, representing a diverse population of over 200,000 residents where students are served by five comprehensive, two magnet and six alternative high school programs. The SST staff is comprised of eight teachers and is supported by the Capital Center School principal, vice-principal, counselors, classified staff and other Beaverton School district resources. The city of Beaverton is a suburb of Portland, Oregon.

SST is a member of the College Board and is accredited by the Northwest Association of Secondary Schools and Colleges as well as by the Oregon State Department of Education. SST has an active membership with the Coalition of Essential Schools.

ADMISSION

Admission to SST is open to any student in the Beaverton School District. The program uses a lottery system to determine the student population. The program currently serves approximately 166 students in grades nine through twelve

<u>DEMOGRAPHICS 15-16</u>	<u>Multi-Ethnic Programs</u>
White 68%	English LL 1%
Hispanic 8%	Special Needs 19%
Asian 15%	TAG 30%
African American 2%	Free/Reduced Lunch 15%
Self Identifies 1 or more 6%	
Pending 1%	

CURRICULUM

All courses at the School of Science and Technology are college preparatory and designed to represent honors level work. They are structured to encourage thinking, knowledge, commitment to quality and excitement about learning. SST students perform at the top level of Oregon public high schools in both SAT/ACT and state scores (including writing).

<u>Graduation Requirements</u>	
SST Students are required to earn a minimum of 24 credits during grades 9-12. Required subject areas and credits for graduation are:	
Applied Arts	3.0
Language Arts	4.0
Mathematics	3.0
Social Science	3.0
Physical Education	1.0
Electives	5.5
Health	1.0
Career Education	.5

Sciences and Mathematics

- Students are taught to analyze, theorize and solve problems.
- In the first two years, courses in STEM Physics and STEM Chemistry. Biology and Health are required, with an option to participate in local and District Science Fairs.
- Juniors and seniors elect to take advanced science courses in their areas of interest. These science electives include: Geology, Field Ecology, Marine Biology, Science Research, in addition to AP Chemistry, AP Physics and AP Biology.

PRINCIPAL: Brian Sica
VICE PRINCIPAL: Curtis Semana, John Sanchez
COUNSELORS: Tim Shaw
CEEB CODE: 380095

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<https://sites.google.com/site/schoolofscienceandtechnology1>

- Many courses use college texts.
- Mathematics courses include Algebra I, Accelerated Geometry, Advanced Algebra II, Pre-Calculus, AP Calculus and AP Statistics.

Language Arts and Social Studies

- Strong writing and public presentation skills are emphasized in all aspects of the curriculum.
- In the first two years, Literature & Composition I & II, U.S. History, World Geography & Cultures.
- Electives for juniors and seniors offered in different years include: Advanced American Literature, Modern American Literature, AP English Literature, Mythology, Model UN, Government, History in Film, International Relations and Economics.
- Spanish I – IV courses are offered.
- ADVANCED PLACEMENT

Four to five Advanced Placement (AP) courses have been offered in alternate years: AP Computer Science, AP Chemistry, AP Physics, AP Environmental Science, AP Biology, AP Calculus, AP Statistics, AP English Literature and AP English Language. This allows students to take up to 9 AP classes during their high school career.

SPECIAL CURRICULUM FEATURES

Science Fairs

Students plan, carry out and document their science fair experiments under the guidance of SST teachers. Winners go on to compete at the Regional Fairs and the International Science & Engineering Fair (ISEF).

SAT Test Scores

ACT Score

SAT Average	Class of 2013	Class of 2014	Class of 2015
Critical Reading	572	632	593
Mathematics	623	662	642
Writing	565	616	582

ACT Average	Class of 2015	Class of 2016
English	27	27
Mathematics	27	26
Reading	27	26
Science	26	28
Composite	27	25

ACADEMIC HIGHLIGHTS

2014 Recognition

Regional Science Fair (sponsored by Intel)

- 24 Participants
- 11 Special Award winners
- 13 Category winners

State Science Fair (sponsored by Intel)

- 10 Participants
- 2 Special award winners
- 2 Category winners

2015 Recognition

Regional Science Fair (sponsored by Intel)

- 27 Participants
- 8 Special Award winners
- 10 Category winners

State Science Fair (sponsored by Intel)

- 7 Participants
- 0 Special award winners
- 2 Category winners

GRADING AND RANKING

Grade Point Average - Possible grades are: A, B, C, and F. No D's are given; a grade below 70 percent is an F. An A grade is worth a point value of 4.0. Beginning with the Class of 2006, a full point (1.0) is now added to grade points for grades of A, B, or C earned in Advanced Placement courses, and in selected courses approved by the school district as matching the rigor of AP courses. A "P" grade is given for independent projects performed outside the classroom with administration approval.

Class Rank - Class rank is determined by the cumulative term grade point average from 9th grade through the most recent grading period. Total class enrollment is used in computing the class rank.

Grade Point Average

RECENT COLLEGE ACCEPTANCES

Arcadia University
Brandeis University
Brown University
Cal Tech
Carleton College
Carnegie Mellon University
Carroll College
US Coast Guard Academy
Columbia University
College of William and Mary
Cornell University

Dartmouth College
Drew University
Earlham College
Florida Institute of Technology
George Fox University
George Mason University
Georgetown University
Grinnell College
Hamlin Unveristy
Harvey Mudd College

Henry Cogswell College
John Hopkins University
Knox College
Lehigh University
Lewis and Clark College
Massachusetts Institute of Technology
Northwestern University
Oregon Institute of Technology
Oregon State University
Pacific Lutheran University
Pacific University

Portland State University
Purdue University
Reed College
Rensselaer Polytechnic Institute
Rice University
Seattle University
Southern Oregon University
St. Olaf College
Swarthmore College
University of California-Berkley
University of Texas, Austin

University of Alaska, Fairbanks
University of Oregon
University of Portland
University of Puget Sound
University of Southern California
University of Washington
Washington State University
Wells College
Western Oregon University
Whitman College
Willamette University

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