

Oklahoma School of Science and Mathematics

2017-18 Profile for Colleges

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School Code Number (CEEB): 372-684 Website: <http://www.ossm.edu>

Created by legislative action in 1993, OSSM is Oklahoma's two-year, public, residential high school for juniors and seniors with exceptional ability in science and mathematics. The 141 students (72 seniors and 67 juniors) represent 75 high schools in 39 counties throughout the state of Oklahoma and 2 international students. Standardized testing is reported for domestic students only.

All of the 26 faculty members hold master's degrees; two-thirds hold a doctorate in their academic discipline.

Mission Statement

To educate students who show promise of exceptional academic development through a program of instruction and discovery that challenges them beyond the traditional high school model, imparting a superior foundation for careers in science, technology, engineering, and mathematics fields.

Admission

Admission is a competitive process initiated by written application. Semifinalists are interviewed by a committee comprised of community leaders and faculty before final selection is determined.

Academics

GPA and Class Ranking

Because all academic courses are advanced and/or accelerated honors-level courses, **OSSM does not calculate grade point averages or class ranking.**

Graduation Requirements

OSSM students must successfully complete a minimum of sixteen (16) units: one unit of biology; one unit of chemistry; one and one-half units of physics; one unit of science electives; two units of mathematics (inclusive of calculus); two units of English; two units of history; two units of the same foreign language; one-half unit of computer science; one unit of fine arts; two units of physical education.

60 hours of community service and 60 hours of school service are also required.

Advanced Course Offerings

OSSM does not offer AP courses.

OSSM's college-level curriculum includes courses in Microbiology, Biochemistry, Neurobiology, Molecular and Cellular Biology, Genetics, Endocrinology, Human Anatomy and Physiology, Geoscience, Organic Chemistry, Data Structures, Computer Architecture and Assembly, Java Programming, Multivariate Calculus, Differential Equations, Number Theory, Linear Algebra, Abstract Algebra, Real Analysis, Physics: Mechanics, Electricity and Magnetism, Thermal Physics, Waves and Optics, Modern Physics.

Each science class at OSSM includes three hours of lecture *and* a two- or three-hour laboratory session per week.

Special Topics and Directed Studies

OSSM offers opportunities for students to pursue academic interests to the highest levels. These courses regularly include topics in Theoretical Physics, Advanced Genetics, and Chemistry, as well as Literature, History, and Modern Politics. Directed studies are not counted towards graduation requirements and are not graded.

Grading Information

The academic year is comprised of two semesters. Final grades are given after the eighteenth week of each semester. Students are required to sit for a comprehensive three-hour final in each course.

Due to the rigor of our college-level courses, we suggest the following grading scale be used to evaluate a student's coursework:

87 - 100 = A

77 - 86 = B

70 - 76 = C

< 70 = No credit received

Students receive a Pass (P) for physical education and fine arts. Mentorships also receive a Satisfactory (S) or Pass grade

Grade Averages	Fall	Spring
Mathematics	84.56	87.35
Biology	89.30	85.65
Chemistry	85.46	86.40
Physics	82.64	84.45
Computer Sci	91.34	92.28
Humanities	88.36	89.62

The Mentorship Program

More than 60% of OSSM students participate in independent research, receiving hands-on experience in their field of interest outside of the classroom. Mentorships have been a part of the academic program at the Oklahoma School of Science and Mathematics since the first graduating class.

The proximity of OSSM to the University of Oklahoma Health Sciences Center and the Oklahoma Medical Research Foundation as well as other organizations in Oklahoma City allows students to have the opportunity to work alongside nationally acclaimed researchers, physicians, engineers, and business people.

Standardized Tests

ACT (Juniors and Seniors 2017-18)

<i>English</i>	<i>Math</i>	<i>Reading</i>	<i>Science</i>	<i>Composite</i>
31	30	30	30	31

SAT (Juniors and Seniors 2017-18)

<i>EBRW Mean</i>	<i>Math Mean</i>	<i>Total Mean</i>
656	679	1384

Preliminary Scholastic Aptitude Test (PSAT)

Class of 2018--Tested as juniors 2016-17

<i>EBRW Mean</i>	<i>Math Mean</i>
656	657

Advanced Placement (AP)

- 87 students took 212 AP exams, May 2016.
- 85% of the AP Exams received scores of 3 or higher

College Acceptances* Class of 2017

***Bold denotes matriculation**

Anderson University· Boston College· **Boston University** ·Butler University· California Institute of Technology· Carnegie Mellon University· **Case Western Reserve University**· **College of the Atlantic**· **Colorado School of Mines**· **Concordia University-Chicago**· Connecticut College· Drake University· Duke University· Embry-Riddle Aeronautical University· Emory University· Florida Southern College· Georgia Institute of Technology· Hendrix College· Indiana Wesleyan University· Kalamazoo College· King's College· Knox College· Maryville University of St. Louis· **Massachusetts Institute of Technology**· Missouri University of Science & Technology· New Mexico Institute of Mining and Technology· New York University· **Northeastern State University**· Northeastern University· **Northwestern University**· **Nova Southeastern University**· **Oklahoma State University**· Pepperdine University· **Princeton University**· **Purdue University**· Rensselaer Polytechnic Institute· **Rice University**· Roanoke College· **Rochester Institute of Technology**· Saint Louis University· Siena College· Smith College· South Dakota School of Mines· Southern Nazarene University· Spelman College· St. Gregory's University· St. Olaf College· Texas A&M University· **University of Oklahoma**· **University of Tulsa**· University of California-Berkeley· **United States Naval Academy**· **University of Chicago**· University of Colorado--Boulder· University of Denver· University of Kansas· University of Maine· University of Minnesota-Twin Cities· University of Missouri-KC· University of North Texas· **University of Pennsylvania**· University of San Diego· **University of Southern California**· **University of Texas-Austin**· University of the Pacific· **Vanderbilt University**· **Vassar College**· **Washington University in St. Louis**· **Wesleyan University**· Westminster College· William Jewell College· Worcester Polytechnic Institute· Xavier University

Frank Y.H. Wang, Ph.D., President · Brent Richards, Ph.D., Interim Vice President for Academic Services·
Cynthia Parish, Director of College Counseling · William Kuehl, Director of Admissions/Registrar