

2023-24 School Profile

Princeton International School of Mathematics and Science

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ADMINISTRATION

Matthew Pearce, *Principal*
Dr. Xiaoyu Wang, *Deputy Principal*
Qiusheng Li, *Deputy Principal*
Bradford Carpenter, *Asst. Principal*
Adam Kemp, *Asst. Principal*
Dr. Xiang Gong, *Asst. Principal*
Dr. Qiang Chen, *Asst. Principal*
Dr. Yang Yang, *Director of Admissions*
Hang Gao, *Director for Student Life*
Marilee Jones, *Dean of College Counseling*
Eugene Mok, *School Counselor*

ABOUT OUR SCHOOL

Princeton International School of Mathematics and Science (PRISMS) is a comprehensive four-year international boarding and day school enrolling students grades 9-12. The school was founded in 2013 on the concept of combining the best of STEM education from the East and the West. PRISMS emphasizes the research and development process by reinforcing research skills, such as open-minded inquiry, problem solving, and innovation, and requires each student to complete a two-year original research project.

PRISMS is accredited by Middle States and holds membership in the NAIS (National Association of Independent Schools) and NACAC (National Association of College Admission Counseling).

MISSION STATEMENT

Princeton International School of Mathematics and Science immerses a multicultural, self-motivated student body in an integrated STEM-centered curriculum and a research program that identifies and develops each student's potential. Our approach promotes critical thinking, imagination, and deep curiosity, and enables students to ask meaningful questions and to contribute to a diverse and dynamic world.

ACCOLADES

- ◇ Rated #1 Best Private High Schools in NJ by Niche
- ◇ Rated #2 Best Boarding High Schools in USA by Niche
- ◇ Rated #2 Best Private High Schools in USA by Niche

SCHOOL DATA



- ◇ 120 Students
- ◇ 51% International Students
- ◇ 46% Boarding Students
- ◇ Class of 2024: 24 Seniors



- ◇ 5:1 student to faculty ratio
- ◇ 26 Faculty
- ◇ 40% holding Doctorate
- ◇ 44% holding Master's

PRISMS RESEARCH PROGRAM

Overview

A core feature of the PRISMS educational experience is a four-year STEM research program threaded through our curriculum. In grades 9 and 10, students begin by learning research skills, preparing them for meaningful STEM research in grades 11 and 12.

Bridging the Arts, Science, and Engineering (BASE) Program

All freshmen take the Bridging the Arts, Science, and Engineering (BASE) Program. The BASE Program bridges a common topic of study among the arts, sciences, and engineering and uses a process-oriented approach to help students establish connections across the disciplines. Student groups learn to collect and analyze data, conduct literature searches, and prepare publications and presentations through long-term independent scientific research.

Applied Engineering

Students take *Applied Engineering 1 and 2* in grades 9 and 10, developing research skills in practical problem-solving: design, build, and test. Scientific research skills, such as statistics, experimental design, and literature review, also build on the BASE Program and are incorporated into required 9th and 10th grade science courses.

Research and Development Labs

In grades 11 and 12 (typically after completing the BASE program, *Honors Chemistry, Honors Physics, and Applied Engineering 2*), students choose a topic in which to conduct research within one of our STEM research areas: biology, chemistry, applied physics, engineering, math, environmental science, and computer science. Typically, a student will begin working on a project in the 11th grade and continue it through the 12th grade.

CURRICULUM HIGHLIGHTS

AP Courses Offered

<i>AP Biology</i>	<i>AP World History</i>
<i>AP Chemistry</i>	<i>AP US History</i>
<i>AP Environmental Science</i>	<i>AP US Government and Politics</i>
<i>AP Physics C</i>	<i>AP Comparative Government</i>
<i>AP Calculus AB & BC</i>	<i>AP Visual Arts Studio</i>
<i>AP Statistics</i>	<i>AP Spanish</i>
<i>AP Computer Science A+</i>	<i>AP Mandarin</i>

Post-AP Courses Offered

<i>Molecular Biology & Biotechnology</i>	<i>Inorganic & Analytical Chemistry</i>
<i>Advanced Topics in Molecular Biology</i>	<i>Modern Physics</i>
<i>Fundamentals of Neuroscience</i>	<i>Linear Algebra</i>
<i>Organic Chemistry & Biochemistry</i>	<i>Differential Equations</i>
	<i>Multivariable Calculus</i>
	<i>Artificial Intelligence</i>
	<i>Interactive Media & Game Development</i>

Grading, GPA Calculation, & Ranking

Student GPA is computed using the grade scale below. All courses completed for high school credit while enrolled at PRISMS and other high schools, beginning with grade 9, whether passed or failed, are listed on their transcript. Honors, AP, and post-AP grades are not weighted in computing GPAs. Students are not ranked. Final grades are recorded on the transcript, and GPAs are computed at the end of each semester.

Grade Scale:

A 93-100	B+ 87-89	B- 80-82	C 73-76	D+ 67-69	F 63 & Below
A- 90-92	B 83-86	C+ 77-79	C- 70-72	D 64-66	

COVID IMPLICATIONS

Remote Instruction in 2019-21

Due to the global COVID-19 pandemic, PRISMS made changes to preserve the health and safety of its students, families, and faculty, while continuing to deliver high-quality STEM education. To best serve our international student body, residing globally at the time, PRISMS taught remote, synchronous classes from March 2020 through the 2020-21 academic year. Classes were taught from 7:30-10:45am and 7:30-10:45pm, five days a week.

Return to In-Person Instruction Since 2021-22

PRISMS resumed in-person instruction for all but a few students in the 2021-22 school year, with an asynchronous hybrid option for a few students who opted for remote instruction. As of 2023-24, all PRISMS students take classes in person.

Grading

The A through F, unweighted grading scale (4.0) has remained unchanged. We have maintained the high standards and expectations of our students.

CLUBS AND ATHLETICS

PRISMS students have the opportunity to participate in a number of clubs and athletics, many of which are student created and led. PRISMS's clubs and athletics include:	<u>Clubs</u>	Model UN Neuroscience Club Physics Club PRISMS Gives PRISMathics Public Speaking Quiz Bowl Rock Band Rubik's Cube Club Science Bowl Science Olympiad Theatre Club	Video Editing Club Yearbook
	Algorithms & Programming Audio/Video Club Chemistry Club Chess Club Community Restoration Dance Club Engineering/3D Design FIRST Tech Challenge (FTC) Kira Kira Math Modeling Mock Trial Club	<u>Athletics</u>	Badminton Basketball Cycling Ping Pong Running Soccer Ultimate Frisbee Volleyball Walking

Standardized Testing

SAT Test Scores, Averages, 2022-23				Advanced Placement Results, 2022-23
	PRISMS	NJ	National	In May 2023, 93 PRISMS students took AP Exams. A total of 292 exams were taken in 24 subjects. <ul style="list-style-type: none"> ◇ 85% of AP Exams scored 3 or higher ◇ 72% of AP Exams scored 4 or higher ◇ 48% of AP Exams scored 5
Math	767	537	521	
Verbal	663	543	529	

COLLEGE ADMISSION

PRISMS is proud of our students' admissions into top colleges and universities in the United States, United Kingdom, Canada, and other countries abroad. All PRISMS graduates have or are currently attending a four-year college or university. A list of college acceptances and college matriculations (in bold) can be found on the next page.

PRISMS College and University Acceptances 2016-2023

(Matriculations in bold)

Agnes Scott College	George Washington University	Reed College
University of Alabama	Georgia Institute of Technology (1)	Rensselaer Polytechnic Institute (3)
Amherst College	Hamilton College	Rice University (3)
Andrews University	Harvey Mudd College	Ringling College of Art and Design
University of Arizona	Haverford College	Rochester Institute of Technology
Berklee College of Music	Howard University	University of Rochester
Boston University	University of Illinois at Urbana-Champaign (7)	Rose-Hulman Institute of Technology
Bowdoin College	Illinois Institute of Technology (3)	Rutgers University-New Brunswick (2)
University of British Columbia	Imperial College London	Santa Clara University
Brown University	Indiana University, Bloomington	Sarah Lawrence College
Bryant College	Johns Hopkins University	Savannah College of Art and Design
Bryn Mawr College	Kenyon College	School of The Art Institute of Chicago
California Institute of Technology (2)	King's College London	School of Visual Arts
California Polytechnic State University, San Luis Obispo	University of Kyoto	University of Southern California (2)
University of California, Berkeley (7)	Lafayette College	University of St. Andrews
University of California, Davis	University of Maryland, College Park	Stanford University
University of California, Irvine	Massachusetts Inst. of Technology (16)	Stevens Institute of Technology
University of Calif., Los Angeles (3)	University of Miami	Swarthmore College
University of Calif., San Diego (6)	University of Michigan, Ann Arbor (3)	Syracuse University
University of Calif., Santa Barbara (4)	Middlebury College	Temple University
University of Cambridge (3)	University of Minnesota, Twin Cities	University of Toronto
Carleton College	Muhlenberg College	Tufts University
Carnegie Mellon University (8)	University of New Hampshire	Tulane University
Case Western Reserve	New Jersey Institute of Technology	Vanderbilt University (4)
University of Chicago (5)	New York University (3)	Vassar College
Claremont McKenna College	University of North Carolina at Chapel Hill (4)	University of Vermont
Clark University	Northeastern University	Villanova University
Colgate University	Northwestern University (3)	University of Virginia
University College of London	University of Notre Dame	Virginia Tech
University of Colorado at Boulder	Oberlin College	University of Warwick
Columbia University (1)	Ohio Wesleyan University	Washington University in St. Louis
Cornell University (7)	Ohio State University	University of Washington (2)
University of Delaware	Olin College of Engineering	Wellesley College (2)
Delft University of Technology	Pace University	Wesleyan University
Drexel University	Pennsylvania State University	Williams College
Duke University (5)	Pennsylvania State University, Penn State Harrisburg	University of Wisconsin, Madison
Eckerd College	University of Pennsylvania	Worcester Polytechnic Institute
Embry-Riddle University	University of Pittsburgh	Yale University (2)
Emerson College	Pratt Institute	
Emory University (5)	Princeton University	
Florida Institute of Technology	Purdue University (2)	
Fordham University		
Franklin and Marshall College		