

# 2022-23 School Profile

## Princeton International School of Mathematics and Science

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### ADMINISTRATION

**Matthew Pearce**, *Principal*

**Dr. Xiaoyu Wang**, *Deputy Principal*

**Joseph Li**, *Asst. Principal for Academics*

**Bradford Carpenter**, *Asst. Principal for Student Life*

**Dr. Xiang Gong**, *Asst. Principal*

**Dr. Steven Chen**, *Director of Academics*

**Adam Kemp**, *Head of STEAM Department*

**Dr. Yang Yang**, *Director of Admissions*

**Tiger 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 #2 Best Boarding High School in NJ by Niche
- ◇ Rated #4 Best Private High School in NJ by Niche
- ◇ Rated #5 Best High Schools for STEM in NJ by Niche

### SCHOOL DATA



- ◇ 120 Students
- ◇ 70% International Students
- ◇ 60% Boarding Students
- ◇ Class of 2023: 27 Seniors



- ◇ 5:1 student to faculty ratio
- ◇ 15 FT Faculty
- ◇ 53% holding Doctorate
- ◇ 93% holding Master's

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## PRISMS RESEARCH PROGRAM

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### 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

Sophomore students are required to take *Applied Engineering 2*, which builds on the 9<sup>th</sup> grade *Applied Engineering 1* course by offering more skills in the form of 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 10<sup>th</sup> 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 11<sup>th</sup> grade and continue it through the 12<sup>th</sup> grade.

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## CURRICULUM HIGHLIGHTS

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### AP Courses Offered in 2022-23

<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 &amp; BC</i>	<i>AP Visual Arts Studio</i>
<i>AP Statistics</i>	<i>AP Spanish</i>
<i>AP Computer Science A &amp; A+</i>	<i>AP Mandarin</i>

### Post-AP Courses Offered

<i>Molecular Biology &amp; Biotechnology</i>	<i>Inorganic &amp; Analytical Chemistry</i>
<i>Advanced Topics in Molecular Biology</i>	<i>Modern Theoretical Physics</i>
<i>Neuroscience, Psychology, and Philosophy</i>	<i>Astrophysics and Astronomy</i>
<i>Organic Chemistry &amp; Biochemistry</i>	<i>Linear Algebra</i>
	<i>Artificial Intelligence</i>
	<i>Artificial Intelligence In Action</i>
	<i>Data Science</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:

<b>A</b> 93-100	<b>B+</b> 87-89	<b>B-</b> 80-82	<b>C</b> 73-76	<b>D+</b> 67-69	<b>F</b> 63 & Below
<b>A-</b> 90-92	<b>B</b> 83-86	<b>C+</b> 77-79	<b>C-</b> 70-72	<b>D</b> 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 in 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 those students who opted for remote instruction. PRISMS intends to provide in-person instruction going forward.

### 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

<p>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:</p>	<u><b>Clubs</b></u>	<p><i>Mock Trial Club</i>  <i>Model UN</i>  <i>Neuroscience Club</i>  <i>Physics Club</i>  <i>PRISMS Gives</i>  <i>PRISMathics</i>  <i>Public Speaking</i>  <i>Quiz Bowl</i>  <i>Rock Band</i>  <i>Rubik's Cube Club</i>  <i>Science Bowl</i>  <i>Science Olympiad</i></p>	<p><i>Theatre Club</i>  <i>Video Editing Club</i>  <i>Yearbook</i></p>
	<u><b>Athletics</b></u>	<p><i>Badminton</i>  <i>Basketball</i>  <i>Cycling</i>  <i>Ping Pong</i>  <i>Running</i>  <i>Soccer</i>  <i>Volleyball</i>  <i>Walking</i></p>	

## Standardized Testing

SAT Test Scores, Averages, 2021-22				Advanced Placement Results, 2021-22
	PRISMS	NJ	National	<p>In May 2022, 79 PRISMS students took AP Exams. A total of 233 exams were taken in 23 subjects.</p> <ul style="list-style-type: none"> <li>◇ 84% of AP Exams scored 3 or higher</li> <li>◇ 67% of AP Exams scored 4 or higher</li> <li>◇ 41% of AP Exams scored 5</li> </ul>
<b>Math</b>	768	562	528	
<b>Verbal</b>	659	563	533	

## COLLEGE ADMISSION

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

# PRISMS College and University Acceptances 2016-2022

(Matriculations in bold)

Agnes Scott College  
University of Alabama  
**Amherst College**  
**Andrews University**  
University of Arizona  
Berklee College of Music  
Boston University  
Bowdoin College  
**University of British Columbia**  
**Brown University**  
Bryant College  
Bryn Mawr College  
**California Institute of Technology (2)**  
**California Polytechnic State University, San Luis Obispo**  
**University of California, Berkeley (6)**  
University of California, Davis  
University of California, Irvine  
University of Calif., Los Angeles  
**University of Calif., San Diego (6)**  
**University of Calif., Santa Barbara (4)**  
Cambridge University, Christ's College  
Cambridge University, Girton College  
**Cambridge University, King's College**  
**Cambridge University, Trinity College**  
**Carleton College**  
**Carnegie Mellon University (8)**  
Case Western Reserve  
**University of Chicago (5)**  
**Claremont McKenna College**  
Clark University  
Colgate University  
**University College of London**  
University of Colorado at Boulder  
**Columbia University (1)**  
**Cornell University (6)**  
University of Delaware  
**Delft University of Technology**  
Drexel University  
**Duke University (4)**  
Eckerd College  
Embry-Riddle University  
Emerson College  
**Emory University (3)**  
Florida Institute of Technology

**Fordham University**  
Franklin and Marshall College  
George Washington University  
Georgia Institute of Technology  
Hamilton College  
**Harvey Mudd College**  
Haverford College  
Howard University  
**University of Illinois at Urbana-Champaign (5)**  
**Illinois Institute of Technology (3)**  
Imperial College London  
Indiana University, Bloomington  
**Johns Hopkins University**  
**Kenyon College**  
King's College London  
**University of Kyoto**  
Lafayette College  
**University of Maryland, College Park**  
**Massachusetts Inst. of Technology (14)**  
University of Miami  
**University of Michigan, Ann Arbor (2)**  
Middlebury College  
University of Minnesota, Twin Cities  
Muhlenberg College  
University of New Hampshire  
New Jersey Institute of Technology  
**New York University**  
**University of North Carolina at Chapel Hill (2)**  
Northeastern University  
**Northwestern University (3)**  
**University of Notre Dame**  
**Oberlin College**  
Ohio Wesleyan University  
Ohio State University  
**Olin College of Engineering**  
Pace University  
Pennsylvania State University  
**Pennsylvania State University, Penn State Harrisburg**  
University of Pennsylvania  
**University of Pittsburgh**  
**Pratt Institute**

**Princeton University**  
**Purdue University (2)**  
Reed College  
**Rensselaer Polytechnic Institute (3)**  
**Rice University (3)**  
Ringling College of Art and Design  
Rochester Institute of Technology  
University of Rochester  
Rose-Hulman Institute of Technology  
**Rutgers University-New Brunswick (2)**  
Sarah Lawrence College  
Savannah College of Art and Design  
School of The Art Institute of Chicago  
**School of Visual Arts**  
**University of Southern California (2)**  
University of St. Andrews  
**Stanford University**  
Stevens Institute of Technology  
Swarthmore College  
Temple University  
University of Toronto  
**Tufts University**  
Tulane University  
**Vanderbilt University (3)**  
Vassar College  
University of Vermont  
**Villanova University**  
University of Virginia  
Virginia Tech  
University of Warwick  
Washington University in St. Louis  
**University of Washington (2)**  
**Wellesley College (2)**  
Wesleyan University  
**Williams College**  
University of Wisconsin, Madison  
**Worcester Polytechnic Institute**  
**Yale University**