

Princeton International School of Mathematics and Science

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2016-2017 School Profile

THE SCHOOL

Princeton International School of Math and Science (PRISMS), located in Princeton, NJ, is a comprehensive four-year international boarding and day school enrolling students in grades 9 to 12. PRISMS is accredited by Middle States. The school was founded in 2013, on the concept of combining the best of China's STEM education with the best of America's STEM education. PRISMS emphasizes the research and development process by reinforcing research skills, such as open-minded inquiry, problem-solving and innovation. Its first graduating class was in June 2016.

ADMISSIONS PROCESS

The PRISMS admissions process is selective. All applicants are interviewed and screened thoroughly. A completed file consists of an application, transcripts, teacher recommendations, standardized testing - SSAT (Secondary School Admissions Test) and interview. In addition, all international students must submit the TOEFL (Test of English as a Foreign Language) with required scores of 100 or higher.

RESEARCH PROGRAM

A core feature of the PRISMS educational experience is a four-year research and development program threaded through our four-year high school curriculum. Our aim is that students begin by learning research skills in order to better prepare them for meaningful research or development projects in grades 11 and 12. This we accomplish by integrating Research Skills into our 9th grade Bridging the Arts Science and Engineering (BASE) program, and through 10th grade core Science and Applied Engineering courses.

In grades 11 and 12 students can choose a topic in which to conduct research within one of our STEM Research and Development areas. Typically a student will begin working on a project in the 11th grade and continue it into the 12th grade.

ADVANCED CURRICULUM

All courses are taught at the honors, AP, and post-AP levels. PRISMS students must take the following classes to meet graduation requirements:

| Subject | Min. Credits | Subject | Min. Credits |
|------------|--------------|-------------|--------------|
| Biology | 1 | Mathematics | 4 |
| Chemistry | 1 | English | 4 |
| Physics | 1 | History | 2 |
| STEM | 3 | Applied | 2 |
| Electives | | Engineering | |
| Humanities | 2 | Research & | 2 |
| Electives | | Development | |
| Fine Arts | 1 | | |
| World | 3 | | |
| Language | | | |

1 credit is equivalent to 1 academic year length (2 semesters).

Advanced Placement Course Offerings:

- AP Biology
- AP Calculus BC
- AP Chemistry
- AP Computer Science A
- AP English Language and Composition
- AP Physics
- AP Statistics
- AP Studio Art: Portfolio
- AP US History

Courses Beyond Advanced Placement level:

| | |
|------------------------|-----------------------------------|
| Analytical Chemistry | Molecular Biology & Biotechnology |
| Differential Equations | Partial Differential Equations |
| Linear Algebra | Organic Chemistry & Biochemistry |
| Quantum Mechanics | Probability & Statistics |

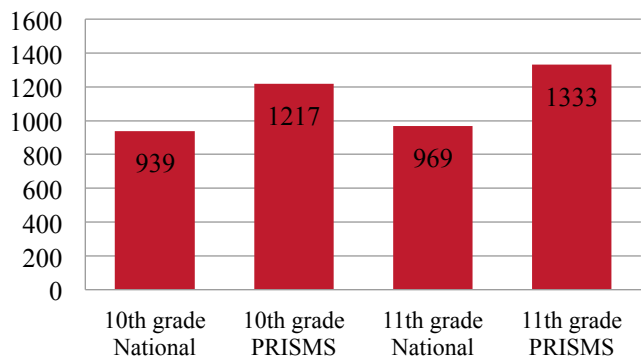
GRADING SYSTEM

The following scale represents the grading system for PRISMS. All staff and faculty members are required to comply with the listed ranges for each designated grade.

| | | | | | | | | | | | |
|----|--------|------|----|-------|------|----|-------|------|----|----------|------|
| A | 93-100 | 4.00 | B+ | 87-89 | 3.33 | C+ | 77-79 | 2.33 | D+ | 67-69 | 1.33 |
| A- | 90-92 | 3.67 | B | 83-86 | 3.00 | C | 73-76 | 2.00 | D | 64-66 | 1.00 |
| | | | B- | 80-82 | 2.67 | C- | 70-72 | 1.67 | F | below 64 | 0.00 |

All Honors and AP-level courses are not weighted. PRISMS does not perform individual student ranking.

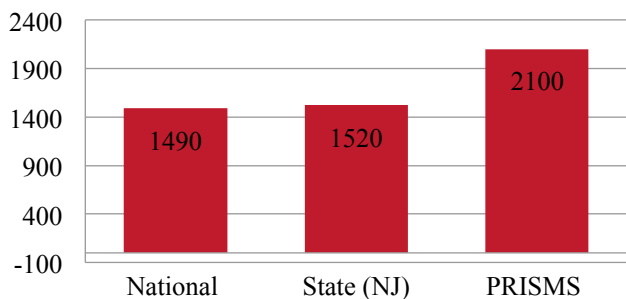
PSAT/NMSQT Total Scores: Oct. 2015



| PSAT/NMSQT 2015 | 10 th grade National | 10 th grade PRISMS | 11 th grade National | 11 th grade PRISMS |
|-----------------|---------------------------------|-------------------------------|---------------------------------|-------------------------------|
| ERW* | 468 | 509 | 480 | 653 |
| Math | 470 | 707 | 489 | 680 |
| Total | 939 | 1217 | 969 | 1333 |

* ERW is Evidence-Based Reading and Writing (Redesigned PSAT/NMSQT, October 2015)

SAT Total Scores: 2015



| SAT 2015 | National | State (NJ) | PRISMS |
|----------|----------|------------|--------|
| Reading | 495 | 500 | 640 |
| Math | 511 | 521 | 770 |
| Writing | 484 | 499 | 690 |
| Total | 1490 | 1520 | 2100 |

ACADEMIC DISTINCTIONS

PRISMS math and physics teams have won TOP 10 places in international competitions such as Princeton University Mathematics Competition, Princeton University Physics Competition, Yale Physics Olympics, and Harvard/MIT Mathematics Competition.

May 2015 Advanced Placement Results**:

| AP Exam 2015 | Students Tested | Students Scoring 5 | Students Scoring 4 | Mean Score |
|------------------|-----------------|--------------------|--------------------|------------|
| Biology | 4 | 1 | 2 | 4 |
| Chemistry | 14 | 8 | 3 | 4.3 |
| Physics C | 2 | 1 | 1 | 4.0 |
| Physics 1 and 2 | 1 | 0 | 1 | 4.0 |
| Calculus BC | 14 | 6 | 1 | 3.4 |
| Comp. Science | 18 | 10 | 5 | 4.3 |
| Eng. Lang. Comp. | 16 | 5 | 6 | 3.5 |
| Statistics | 8 | 5 | 3 | 4.6 |
| US History | 5 | 1 | 1 | 3.2 |
| Microeconomics | 4 | 2 | 2 | 4.5 |

**On May 2016, 65% of students participated in AP examinations.

SAT II Subject Test Scores:

| Subject | Students Tested | Mean Score |
|--------------------|-----------------|------------|
| Biology | 3 | 710 |
| Chemistry | 13 | 755 |
| English Literature | 2 | 540 |
| French | 1 | 700 |
| Math Level I | 3 | 767 |
| Math Level II | 22 | 778 |
| Physics | 10 | 778 |
| U.S. History | 2 | 650 |

Reference:

PSAT 2015: Understanding Score: <https://collegereadiness.collegeboard.org/pdf/2015-psat-nmsqt-understanding-scores.pdf>

SAT 2015: State Profile Report (New Jersey): https://secure-media.collegeboard.org/digitalServices/pdf/sat/NJ_15_03_03_01.pdf

University & College Acceptances – Class of 2016

Bolded and asterisk (*) indicates college matriculation and enrolled

| | |
|---|--|
| Adventist University of Health Sciences | Rensselaer Polytechnic Institute * |
| Andrews University | Rhodes College |
| Augsburg College | Rider University |
| Bard College | Rochester Institute of Technology |
| Bellarmino University | Rose-Hulman Institute of Technology |
| Binghamton University | Rutgers University-New Brunswick |
| Boston University | Rutgers University-New Brunswick (School of Engineering) |
| Brown University * | Saint Michael's College |
| Bucknell University | Santa Clara University |
| Buena Vista University | Siena College |
| Butler University | Southern Adventist University |
| California Institute of Technology * | St. Ambrose University |
| California Polytechnic State University, San Luis Obispo | St. Norbert College |
| Coe College | Temple University |
| Colorado School of Mines | The Catholic University of America |
| Concordia University Chicago | The George Washington University |
| Cornell University | The University of North Carolina at Chapel Hill |
| Cornell University (College of Engineering) * | Tufts University |
| DePaul University | University of California, Berkeley * |
| Drexel University | University of California, Davis (Engineering) |
| Duke University (Pratt School of Engineering) * | University of California, Davis |
| Earlham College | University of California, Irvine |
| Eckerd College | University of California, Los Angeles |
| Elmhurst College | University of California, San Diego * |
| Harvey Mudd College | University of California, Santa Barbara |
| Haverford College | University of Colorado at Boulder |
| Illinois College | University of Dayton |
| Illinois Institute of Technology * | University of Illinois at Chicago |
| Iona College | University of Illinois at Urbana-Champaign * |
| Iowa Wesleyan College | University of Kansas |
| Kettering University | University of Maryland, College Park |
| La Sierra University | University of Massachusetts, Amherst |
| Lafayette College | University of Michigan * |
| Loyola University Chicago | University of Michigan (Engineering) |
| Marquette University | University of Minnesota, Twin Cities |
| Massachusetts Institute of Technology * | University of Notre Dame * |
| Milwaukee School of Engineering | University of Pittsburgh |
| New York University | University of Southern California * |
| Northern Illinois University | University of Vermont |
| Oberlin College of Arts and Sciences * | University of Washington * |
| Ohio Wesleyan University | Virginia Tech |
| Pennsylvania State University - All Campuses | Wartburg College |
| Purdue University | Worcester Polytechnic Institute |