SCHOOL PROFILE 2010-2011

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Changing Hearts and Minds to Value Education
Science Park High School, serving grades 7-12, is a college preparatory institution. Their paths of study feature a variety of AP and Honors courses, as well as a wide range of academic electives. Consistently, Science Park has 99% of each graduating class attend post secondary institutions such as: Princeton, Harvard, Yale, Duke, Dartmouth, Lehigh, NYU, and Cornell to name a few.

MISSION

The mission of Science Park High School is to encourage and prepare its students towards successful further study and lifelong contributions in the fields of Science, Technology, Engineering, and Mathematics. We accomplish this through a rigorous curriculum that is punctuated by college level coursework and that emphasizes interdisciplinary study, research, ethical and responsible leadership, global perspectives, and service.

To meet the challenges of the 21st century, our students must be critical thinkers, problem solvers, computer literate, and committed to school and community. To that end, we have established an educational plan which focuses on the creation of a school whose mission is to transform the teaching and learning of mathematics and science by developing ethical leaders. The future leaders will know the joy of discovering and forging connections within and among mathematics, science, the arts, and the humanities by means of exemplary laboratory environments characterized by research, innovative teaching and service.

The Academies at Science Park High School stress both core courses that are needed to fulfill high school requirements as well as electives which are needed for career pathways. After taking courses from these three areas, student will have a strong foundation for entrance into college. In addition, these subjects will ultimately support specific career goals.

Applied Science Academy

Engineering/Architecture/Computer Science
Geographic Information Systems

Behavioral Science Academy

Natural Science
Social Science
Education

Pure Science Academy

Health/Medical
Research/Science

Furthermore, the introduction of Problem Based Learning (PBL) across the curriculum will encourage students to use their creativity and reasoning skills to address issues pertinent to their community.
SCIENCE PARK

STUDENT

AWARDS, COMMENDATIONS & ACCOMPLISHMENTS

- In September of 2009 Science Park was awarded the National Blue Ribbon School status by the United States Department of Education.
- Science Park has continuously ranked among the top seventy five high schools in the state by NJ Monthly Magazine.
- Second in the state in our District Factor Group (DFG) by the Star Ledger
- At the 2010 Essex County Math League, Science Park students placed 3rd overall, and won 1st Place Team for Calculus, as well as, 1st Place Individual for Calculus and 3rd Place Team for Advanced Math.
- At the 10th Congressional District Art Show, in the Computer Graphics Category, Science Park students placed Overall 3rd Place Individual, and 1st Place Individual.
- Science Park High School sponsored a National High School Debate Tournament which featured students from six different states, including NY, NJ, PA, MD, VA, and Texas February 3 - 5, 2010. It was part of the yearlong celebration of Science Park High Schools’ Debate Teams 30th anniversary.
- Science Park debate team and debate alumni sponsored a public debate on Governor Christie’s education policies on May 20, 2010.
- Science Park sent two policy debaters to represent the State of New Jersey at National Forensics League Nationals in Alabama in June of 2010.
- Three Science Park debaters represented the Newark Public School District at Emory University’s Barkley Forum debate tournament in February 2010.
- Jonathan Alston received the Debate Coach of the Year Honor from the New Jersey Forensics League in March of 2010
- Science Park debaters participated and won a series of tournaments around the country, including Univ. of North Texas, Columbia and Yale.
- Science Park debaters helped established the Association of Undocumented-Americans, holding first ever conference to provide information to the talented non-citizens in the Newark Public Schools System.
- Science students participated in the May 2010 American Chemical Society in partnership with NJIT statewide Chemistry Olympics. Two students earned First Place in the Biochemistry Lab Events.
- 2 Science Park students participated in the Jan 2010 National Science Olympiad winning 8th place in the Environmental Design event.
- Science Park students received $50,000.00 sponsorship from Saiichi Sankyo to participate in the statewide Students 2 Science program.
- Science Park was awarded $ 4,980.00 from the TOSHIBA Foundation Grant for the “Greenhouse Project for Special Needs Students”
- Science students participated in the national Project SEED Summer Student Research Program: Summer 2009: 2 SPHS students won first place and were awarded laptops and during the Summer 2010 a SPHS student placed first and won a laptop.
- SPHS received $10,500.00 from UMDNJ Partnership to provided sponsorship for the participation of 7 students in the 2009-10 Student Independent Research program. In SPHS received $7,500.00 from UMDNJ Partnership to provided sponsorship for the participation of 5 students 2010 - 2011 Student Independent Research program.
SCIENCE PARK PARTNERSHIPS

Local colleges provide ancillary programs for academic support and enrichment of our students. The various partnerships and programs enhance our students’ education, provide SAT enrichment, and offer college tours. These ongoing groups contribute significantly to foster extra support to Science High students.

- W.E.B. De Bois at Princeton
- Explorer’s Club/Newark Museum
- NJIT (Chemistry)
- Rutgers, Newark
- ECC (Biology)
- Kean
- Montclair
- UMDNJ
- Public Health Research Institute
- Seeds at Stevens Institute of Technology
- 100 Black Men
- NJPAC Resident Artist
- 100 Black Men
- Princeton Review
- Talent Search at NJIT & Essex County College
- Upward Bound at Seton Hall, UMDNJ, Montclair & William Patterson
- Seeds at Stevens Institute of Technology
- Saturday Academy & Institute for Critical Thinking at Rutgers, Newark
- Pre-College at UMDNJ
- Public Health Research Institute
- Explorer’s Club/Newark Museum
- ACE Mentoring (Architecture, Construction & Engineering)
- Civil Air Patrol
- ASPIRA
- Best Friends
- University Heights/Science Park
- Do Something
- Delta Teen

SCIENCE PARK ATHLETIC CHAMPIONSHIPS

- Science Park Girls Tennis: SEC Divisional Champs 2009
- Science Park Girls Soccer: SEC Divisional Champs 2009
- Science Park Girls Volleyball: Essex County Finalists; Group I State Finalists 2009
- Science Park Girls Basketball: SEC Divisional Champs 2010
- Science Park Boys Basketball: Sectional State Champs 2010
- Science Park Softball: SEC Divisional Champs 2010
- Science Park Girls Basketball 2000 Point High Scorer 2009
SAT Results for class of 2010

SAT subject tests with 5 or greater participants

<table>
<thead>
<tr>
<th>Subject</th>
<th>SPHS Mean</th>
<th>National Mean</th>
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<tbody>
<tr>
<td>English Literature</td>
<td>517</td>
<td>580</td>
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<tr>
<td>U.S. History</td>
<td>473</td>
<td>601</td>
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<tr>
<td>Mathematics Level 1</td>
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<td>605</td>
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<td>Mathematics Level 2</td>
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<td>Spanish</td>
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<tr>
<td>Spanish with Listening</td>
<td>770</td>
<td>653</td>
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College Board AP®:

a) 132 students participated in 15 different AP exams and sat for 230 tests.
b) 49% of students taking AP Exams scored 3 or better.
c) 24% of students taking AP Exams scored 4 or better.
d) 18.2% of students taking AP Exams scored a 5.
<table>
<thead>
<tr>
<th>MATHEMATICS</th>
<th>SCIENCE</th>
<th>Social Studies</th>
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<tr>
<td><strong>College Prep</strong></td>
<td><strong>College Prep</strong></td>
<td><strong>College Prep</strong></td>
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<tr>
<td>Algebra I</td>
<td>Earth Science</td>
<td>World History/World Cultures</td>
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<tr>
<td>Algebra II</td>
<td>Space Sciences</td>
<td>U.S. History I</td>
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<tr>
<td>Geometry</td>
<td>Life Science</td>
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<td>Calculus</td>
<td>Environmental Science</td>
<td>Economics</td>
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<td>Discrete Mathematics</td>
<td>Biology w. Lab</td>
<td>Sociology</td>
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<td>Probability/Statistics</td>
<td>Calculus I</td>
<td>Women's Studies</td>
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<td>Computer Science I</td>
<td>Pre-Calculus</td>
<td>Ethics</td>
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<td>Pre-Calculus</td>
<td>SAT Skills</td>
<td>Educational Psychology</td>
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<tr>
<td><strong>Honors Offerings</strong></td>
<td></td>
<td>African American History</td>
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<td>Algebra I</td>
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<tr>
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<td>Geometry</td>
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<td>Algebra II (PLUS)</td>
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<td><strong>AP</strong></td>
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<td>Calculus BC</td>
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<td>Computer Science</td>
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<td><strong>The Arts</strong></td>
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<td><strong>College Prep</strong></td>
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<td>Drama</td>
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<td>Mixed Chorus IV</td>
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<td>SAT Skills</td>
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<td>Creative Writing</td>
<td>Portuguese I</td>
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<td>Forensics Debate I</td>
<td>Portuguese II</td>
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<td>Forensics Debate II</td>
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<td>English Composition</td>
<td>Concert Band I</td>
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<td>English Literature</td>
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<tr>
<td>English III</td>
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<td>English IV</td>
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<td><strong>Honors Offerings</strong></td>
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<td>Instrumental Music III</td>
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<td>Business and Personal Law</td>
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</table>

**Honors Offerings**

- Algebra I
- Algebra II
- Geometry
- Algebra I (PLUS)
- Algebra II (PLUS)
- Geometry (PLUS)
- Pre-Calculus

**AP**

- Calculus AB
- Calculus BC
- Computer Science
- Statistics

**Honors Offerings**

- Biology
- Chemistry
- Physics
- Environmental Science

**AP**

- Biology
- Calculus
- Computer Science
- Statistics

**The Arts**

- Art I
- Art II
- Art III
- Mixed Chorus I
- Mixed Chorus II
- Mixed Chorus III
- Mixed Chorus IV
- Advanced Mixed Chorus I
- Advanced Mixed Chorus II
- Advanced Mixed Chorus III
- Advanced Mixed Chorus IV
- Concert Band I
- Concert Band II
- Concert Band III
- Concert Band IV
- Desktop Publishing I
- Desktop Publishing II
- Instrumental Music I
- Instrumental Music II
- Instrumental Music III
- Instrumental Music IV
- Computer Animation
- Web Page Design
- Computer Applications
- Business and Personal Law

**Social Studies**

- World History/World Cultures
- U.S. History I
- U.S. History II
- Economics
- Sociology
- Women's Studies
- Ethics
- Educational Psychology
- African American History

**Honors Offerings**

- World History/Cultures
- U.S. I
- U.S. II

**AP**

- U.S. History
- European History
- World History
- Macroeconomics
- Microeconomics
- Government(s) and Politics
- World History/Cultures
Academy of Art University
The University of Akron
Albright College
Alfred University
Amherst College
Arizona State University
The University of Arizona
The Art Institute of New York City
Barnard College
Baruch College of the CUNY
Benedict College
Berkeley College - Newark Campus
Bethune-Cookman University
Bloomfield College
University of Bonn
Boston College
Boston University
Boston University (College of Arts and Sciences)
University of Bridgeport
Brown University
Bryn Athyn College of the New Church
Bucknell University
Caldwell College
Carnegie Mellon University
Central Pennsylvania College
Central State University
Chestnut Hill College
Cheyney University of Pennsylvania
Clark Atlanta University
Colby College
Colgate University
Columbia University
Columbia University (Columbia College)
Cooper Union for the Advancement of Science & Art
Coppin State University
Cornell University
Cornell University (College of Arts & Sciences)
County College of Morris
Daemen College
Daniel Webster College
Dartmouth College
Delaware State University
Delaware Valley College
DeVry University
Dowling College
Drew University
Drew University
Drexel University
Duke University
Duke University (Pratt School of Engineering)
East Stroudsburg University of Pennsylvania
Emory-Riddle Aeronautical University - FL
Essex County College
Farleigh Dickinson University
Farleigh Dickinson University, Edward Williams College
Farleigh Dickinson University, Madison
Felician College
Florida Institute of Technology
Fordham University
Fort Valley State University
Franklin and Marshall College
Franklin Pierce University
The George Washington University

The George Washington University (School of Int'l Affairs)
Georgetown University
Georgetown University (The Walsh School of Foreign Service)
Georgia Institute of Technology
Georgia State University
Georgian Court University
Hampton University
University of Hartford
HoHoKus RETS
Honolulu Community College
Howard University
Hudson County Community College
Hunter College of the CUNY
Hunter College of the CUNY
Iona College
John Jay College of Criminal Justice of the CUNY
Johns Hopkins University
Johnson & Wales University
Johnson C. Smith University
The Juilliard School
Kean University
Kentucky State University
Keystone College
Lackawanna College
Lafayette College
Lake Land College
Lehigh University
Lehigh University (Arts, Humanities, & Social Sciences)
Lehigh University (Biosciences & Bioengineering)
University of Maine
Manhattan School of Music
Marist College
Marquette University
University of Maryland, Eastern Shore
University of Maryland, Eastern Shore
Maryland Institute College of Art
University of Maryland University College
University of Maryland, College Park
University of Massachusetts, Dartmouth
University of Medicine and Dentistry of New Jersey
Mercer County Community College
Miami Dade College-North Campus
University of Miami
Michigan Institute of Aeronautics
University of Michigan
Middlesex County College
Monmouth University
Montclair State University
Moravian College
Morehouse College
Morgan State University
Morris College
University of New Haven
New Jersey City University
New Jersey Institute of Technology
New Jersey Institute of Technology (College of Science and Liberal Arts)
New Jersey Institute of Technology (Newark College of Engineering)
New Jersey Institute of Technology (School of Management)
The College of New Jersey
The College of New Jersey
New York University
New York University (College of Arts and Science)
New York University (Liberal Studies)
New York University (Stern School of Business)
New York University - Abu Dhabi
Newbury College
Niagara University
Norfolk State University
The University of North Carolina at Chapel Hill
University of North Carolina at Charlotte
North Carolina Central University
North Carolina State University
University of North Dakota
University of North Texas
Nyack College
The Ohio State University
Pace University, New York City
Pace University, White Plains
Pennsylvania State University, Altoona
Pennsylvania State University, Harrisburg
Pennsylvania State University, University Park
Pennsylvania State University, University Park (College of Engineering)
University of Pennsylvania
University of Pennsylvania (College of Arts & Sciences)
University of Pittsburgh at Greensburg
Polytechnic Institute of NYU
Princeton University
Ramp College of New Jersey
Randolph College
Rensselaer Polytechnic Institute
University of Rhode Island
Richard Stockton College of New Jersey
Rider University
University of Rochester
Rosemont College
Rowan University
Rutgers, The State University of New Jersey at Camden
Rutgers, The State University of New Jersey at New Brunswick
Rutgers, The State University of New Jersey at New Brunswick (College of Nursing)
Rutgers, The State University of New Jersey at New Brunswick (Rutgers Business School: Undergraduate)
Rutgers, The State University of New Jersey at New Brunswick (School of Arts and Sciences)
Rutgers, The State University of New Jersey at New Brunswick (School of Business)
Rutgers, The State University of New Jersey at New Brunswick (School of Engineering)
Rutgers, The State University of New Jersey at New Brunswick (School of Environmental and Biological Sciences)
Sacred Heart University
Saint Augustine’s College-NC
College of Saint Elizabeth
College of Saint Elizabeth
Saint Joseph’s University
Saint Peter’s College
San Francisco State University
Sarah Lawrence College
Savannah State University
School of Visual Arts
University of the Sciences in Philadelphia
The University of Scranton
Seton Hall University
Seton Hall University (College of Arts & Science)
Seton Hall University (College of Education & Human Services)
Seton Hall University (Pre-Professional & Special Programs)
Seton Hall University (School of Business)