The Bronx High School of Science
Course Offerings and Information for Incoming Freshmen

Please check our Course Guide on the website www.bxscience.edu for course descriptions.
In This Document Learn About:

- Courses you will take as a Freshman
- Future Course Offerings
- Honors and AP Courses

Freshman Program:

- English - Full year 1 period /day (5 pds / week)
- Global Studies - Full year 1 period /day (5 pds / week)
- Math - Full year 1 period /day (5 pds / week)
- Science - Full year 7 to 10 periods /week (5 pds lecture + 2 pds lab) or (for honors 8 pds /week + 2 pds lab)
- Foreign Language - Full year 1 period / day (5 pds / week)
- Lunch or Math Team 1 period / day - (5 pds / week)
- Physical Education (3 days a week) - usually fits into the Science program (7 periods Science + 3 periods Physical Education)
- One Term Writing Seminar - 1 period / day for 1/2 year (flips with Research Literacy)
- One Term Research Literacy - 1 period / day for 1/2 year (flips with Writing Seminar)
- Performing Musical Group - if applicable (see Arts & Music below)
English
Damaris Fernandez, Assistant Principal, fernande@bxscience.edu

Requirement:
Students are required to take 4 years of English and pass the English Regents Exam.

E1—Freshman English
Curriculum Includes:
• Greek mythology
• Steinbeck and Orwell
• Short Stories
• Betty Smith and J.D. Salinger
• Shakespeare

E1H—Honors English
Admission based on English writing placement test given at Incoming Student Orientation on June 10, 2010.
• More intensive literary analysis
• Additional writing components

EWS—Writing Seminar (One Term)
• Grammar Component
• Intensive Writing Focus

English Classes you may take in the future:
• AP English Literature & Composition
• AP English Language & Composition
• Honors Journalism
• Honors Creative Writing
• Yearbook
• Newspaper
• And More

Please check the Course Guide on the Bronx Science website for full list.
Social Studies
David Colchamiro, Assistant Principal, colchami@bxscience.edu

Requirement:
Students are required to take 4 years of Social Studies and pass two Social Studies Regents Exams.

H1—Global Studies 1
First year of two year Global Studies Course

H1X—Advanced Placement World History
- Satisfies Global Studies Requirement
- Admission based on English placement test given on June 10, 8th grade Social Studies grade and SHSAT score.
- Indicated interest on biographical form or at orientation on June 10
- Two year commitment
- AP exam will be taken at the end of Sophomore year and is required of all students in the class.

Social Studies Classes you may take in the future:
All AP classes offered including:
- United States History
- European History
- Microeconomics
- Macroeconomics
- US Government
- Comparative Government
- Human Geography

Social Studies Research Program (optional)
- Do original research with a professor/researcher at a college or university
- 3-year course sequence beginning in sophomore year
- Submit your research paper to Intel and other competitions in your senior year

Please check the Course Guide on the Bronx Science website for full list.
Mathematics
Rosemarie Jahoda, Assistant Principal, jahoda@bxscience.edu

Freshman Math Class
Course placement is based on:
- Bronx Science Placement Test score
- SHSAT Mathematics score
- NYS Mathematics Regents score
- Previous course work

Placement Test
- June 10, 2010 at 8:45
- Bring two #2 pencils
- No calculators allowed
- Practice test available in Mathematics Department section of the Bronx Science website

Math Team
- Qualifying Exam at Incoming Student Orientation on June 10, 2010, from 1:30-2:50 if not taking Honors Biology Placement Test and 3:50-4:00 for students taking Honors Biology Placement Test
- Bring #2 pencils, calculators are not allowed
- Math Team class replaces lunch three days per week
- Prepare to participate in math contests
- Participate in challenging problem solving activities
- For more information contact Ms. Joanne Strauss at strauss@bxscience.edu

Mathematics Electives you may take in the future

- AP Calculus AB
- AP Calculus BC
- AP Statistics
- AP Computer Science
- Multivariable Calculus
- Differential Equations
- Linear Algebra
- Game Programming
- Combinatorics
- Number Theory

Please check the Course Guide on the Bronx Science website for full list.
Science
Jean Donahue PhD, Assistant Principal, Biology, donahue@bxscience.edu
Annelisse Falzone, Assistant Principal, Physical Science, falzone@bxscience.edu

Requirement:
Students must take a minimum of four years of science at Bronx Science, including at least one in the Biology Department. Most students will take Biology (Living Environment) in their freshman year. Students who have taken Biology Living Environment in 8th grade will take Chemistry (a Physical Science Department course) in freshman year.

The Biological Science Department

Research Literacy
- Required for all freshman
- Learn to think scientifically:
  - design experiments
  - carry out an extended investigation in groups
  - analyze data
  - write a research paper

Biology
SB1—Freshman Biology
- 7 periods per week
- weekly lab
- Living Environment Regents in June

SBII—Honors Freshman Biology
- Admission based on voluntary placement test administered at the Incoming Student Orientation on June 10, 1:30-2:50.
- more intensive and extensive than regular freshman biology: 10 periods per week
- additional and more extensive labs than regular freshman biology
- for the student who has a particular interest in biology
- Living Environment Regents in June
Biology Electives you may take in the future

- AP Biology, Psychology and Environmental Science
- Post AP classes including Genetics and Child Psychology
- Other elective courses including Microbiology, Human Physiology, Epidemiology, Animal Behavior, Horticulture, Nutritional Science and Forensics

For more details, see the course guide on the Bronx Science website.

Biology Research Program (optional)

- Do original research with a professional scientist at a college or university laboratory
- 3-year course sequence beginning in sophomore year
- Submit your research paper to Intel and other competitions in your senior year

The Physical Science Department

Physical Science (Chemistry & Physics)

- Honors Freshman Chemistry(SC11). Admission based on math placement exam given on June 10, 2010
- All students must take Chemistry and Physics before or during the junior year

Physical Science Electives you may take in the future

- Honors classes in Chemistry and Physics
- AP classes in Chemistry and Physics
- Other elective courses including Organic Chemistry, Electronics and Astronomy/Astrophysics
- Post AP classes
- For more details, see the Course Guide on the Bronx Science website

Physical Science Research Program (optional)

- Do original research with a professional scientist at a college or university laboratory
- 3-year course sequence beginning in sophomore year
- Submit your research paper to Intel and other competitions in your senior year

Please check the Course Guide on the Bronx Science website for full list.
Foreign Language
Lisa Rocchio, Assistant Principal, rocchio@bxscience.edu

Requirement:
Students are required to have a three year sequence in Foreign Language (at least 2 years at Bronx Science) and pass the Regents Examination

Required Classes
- Freshman class placement based on seat availability, prior language experience and preference indicated on biographical form.
- A minimum of two years of foreign language study at Bronx Science and a Regents Examination is required
- Students placed in a first year language must take three years at Bronx Science
- Students may not change languages once they begin a new language or continue studying the language they took in middle school
- May take an additional language as an elective if programming permits beginning in sophomore year

Elective Classes you may take in the future
AP classes in most languages
Advanced elective classes in many languages
Check the Course Guide on the Bronx Science website for more details.

Please check the Course Guide on the Bronx Science website for full list.
Fine Arts & Music
Fred Levy, Assistant Principal Art, levy@bxscience.edu
Lisa Rocchio, Assistant Principal Music, rocchio@bxscience.edu

Requirement:

All students must take one year (two terms) of an arts class for graduation.

Classes which satisfy the Arts requirement:

- Performing music groups, including Concert Band, Jazz Band, Chorus and Orchestra
- Art classes including AP Studio Art, AP Art History, Design Studio, Painting, and Photography
- Drama
- Music history
- Art and music in summer school

Music Auditions
- Held June 15, 16, 17, 18 and 21
- Register on the Bronx Science website under selected links

Please check the Course Guide on the Bronx Science website for full list.
Physical Education
Trudi DiUbaldo, Coordinator, diubaldo@bxscience.edu

Requirement:

- New York State requires that all students take Physical Education each term they are in attendance.
- Health Education is required either in junior year or in summer school.
- Physical Education class is offered 3 days a week.
- Athletic Teams do not count towards the Physical Education requirement.

Lunch
All students are required to have a lunch period unless they are on Math Team. Math Team students are allowed to eat lunch during the Math Team period.

Summer School
Phoebe Cooper, Assistant Principal Organization, cooper@bxscience.edu

- Optional for students interested
- Offer art, music and health
- Satisfy the high school arts and health requirement
- Register on the Bronx Science website
- Check the Bronx Science website for more information