



THE NEW YORK CITY DEPARTMENT OF EDUCATION

## Stuyvesant High School

345 Chambers Street, New York, NY 10282-1099

Telephone: (212) 312-4800 Facsimile: (212) 587-3874

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Spring 2023

### **Biology & Geo-Sciences Department**

The Department of Biology and Geo-Sciences is pleased to present the following educational opportunities to enhance your science experience at Stuyvesant High School. The following three courses are being offered to incoming 9th graders:

- AP Biology,
- AP Environmental Science, or
- Honors Modern Biology

Most students will take the Honors Modern Biology course in 9th grade, which is a very comprehensive advanced biology survey course. Honors Modern Biology will prepare students for science electives available to upperclassmen at Stuyvesant. It covers the study of living organisms, basic chemistry, biochemistry, chemical life processes, organismal anatomy and physiology, genetics, evolution and ecology supplemented by supportive laboratory activities.

Eligibility for Advanced Placement (AP) courses will be based on your child's score on the Stuyvesant Placement Exam offered virtually over the summer and, if applicable, their Living Environment Regents Examination from 7th/8th grade if your child has taken the exam. The Regents exam is not required to be considered for an AP course in 9th grade science.

Students will be selected for the AP Biology and AP Environmental Science courses based on their performance on the Stuyvesant High School Science placement exam and if applicable, the Living Environment Regents exam. Student placement is also contingent on seat availability and teacher availability.

Students **must** indicate their interest in being considered for the AP Biology course or the AP Environmental course on the Incoming Science Form for Biology on the **Talos Incoming Portal** parent account. Instructions for the placement exam will be shared at a later date based on your indicated preferences in Talos. Advanced Placement courses are college level courses; the curriculum and assessment requirements are outlined by the College Board and can be found on their [website](#).

For more information, please visit our school website at: [www.stuy.edu](http://www.stuy.edu)

***Mimi Prabhu/Assistant Principal for Biology, Computer Science & Special Education***  
[mprabhu@schools.nyc.gov](mailto:mprabhu@schools.nyc.gov)



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### **World Languages Department**

In choosing a second language all incoming freshmen have two choices:

1. Begin a new language (Mandarin, French, German, Japanese, Latin, or Spanish)  
—or—
2. Continue studying the language they have studied in middle school. (Mandarin, French, German, Japanese, Latin, or Spanish)

*Please read carefully and use the following information in supporting student decisions.*

1. Preference for one language should not be the basis of a student's decision to come to Stuyvesant; specific language placement will not be guaranteed to any student.
2. Students are required to take three (3) years of the same language in our building and complete the LOTE (Language Other Than English) exam in that language.
3. Students will list three (3) choices for language preference on the Biographical Sheet. The program office places the student in one of their three language study choices by lottery. If the Biographical Sheet does not list three choices, students forfeit their choice and programming will be random.
4. Students must commit to one language for three (3) years. For example, if the student begins with French 1, the student is expected to complete a 3-year sequence in French. If the student is continuing with a language, a Level 2 student will still complete three years of study in this language, which will require the AP or another Level IV course.
5. Placement is determined based upon availability, performance in middle school courses including proficiency exam results, the WL assessments given at Camp Stuy, as requested, and programming requirements.
6. Incoming students who wish to continue a language studied in middle school may request an assessment by a world language educator to be completed prior to school beginning in September if they are seeking placement in a Level 2 course. Students should only request this assessment if they have received and can prove two years of formal education in that language. Additionally, students should only request an assessment if they are confident that they would excel at the attached self-assessment without support. Students may only request placement for a Level 2 course in one language.
7. Students requesting an assessment for placement in a Level 2 course should perform a self-assessment using the appropriate language document of their interest [linked here](#).
8. Language classes at Stuyvesant are *second* language classes and not *heritage* language classes. Heritage language learners are students who enter the school with previous knowledge of a language, from either having been born in a foreign country or speaking the language at home. Such students are discouraged from continuing to study their home language to satisfy the Stuyvesant LOTE requirement. They are strongly encouraged to learn a new language instead.

**Francesca McAuliffe/Assistant Principal for World Languages & Music**  
[fmcauliffe@stuy.edu](mailto:fmcauliffe@stuy.edu)



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## Mathematics Department

Since 1904, Stuyvesant High School has represented the best of New York City's public schools, educating, and challenging and molding the finest students that our city—no, the world! —has to offer. We congratulate you on all your accomplishments thus far, and we are excited to play a role in all of your many accomplishments yet to come.

I know that many of you have questions about math placement for next year. Students from almost 170 different middle schools will be starting their journeys at Stuy in September; that means hundreds of different math teachers, hundreds of different mathematical backgrounds and experiences. This naturally makes determining placement for each individual student a bit of a challenge. During Camp Stuy, you will be taking a math placement exam to help determine which course is best for you. Part of this exam will also be used to determine placement in honors and Math Team courses. In addition, we will also consider courses and/or Regents exams that students may have taken in middle school. This is where we need your help! There is a Math Survey Form included with the Talos parent account on the Incoming Portal. It is *essential* that you and your parent/guardian complete this survey as quickly and as accurately as possible so that we may begin the process of determining math class placement for you. You will also be asked to submit a copy of your final 8<sup>th</sup> grade report card—**PLEASE** submit that to us as soon as you get it. This is in addition to the “last report card you received” that is being asked for on other surveys in the Portal. Without these documents, it will be more difficult to make the best decisions regarding your math placement. Please note that courses taken outside of school will not be considered for placement.

Once the survey results are in, I will email you a summer assignment designed to prepare you for your math class in September. (If you are currently taking 8<sup>th</sup> grade math or Algebra 1, for example, it will be an assignment consisting of important algebra concepts.) These assignments are meant to *review* topics that you've learned, but we will also be providing supplementary resources for you to brush up on anything you need more help with. Just as important as submitting your 8<sup>th</sup> grade report cards, it is important that you complete this assignment by the due date so that your math teacher knows how best to support you in September.

Please feel free to email me if you have any questions or concerns, and for additional information about the math department, scan the QR code below. I look forward to meeting you next year.

*Eric Smith/Assistant Principal for Mathematics*

[ESmith42@schools.nyc.gov](mailto:ESmith42@schools.nyc.gov)





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### **Stuyvesant Math Team**

The Stuyvesant Math Team is the largest high school math team in New York City with nearly 200 students on the team. Unlike many schools, Math Team is not just a club at Stuyvesant, but rather it has a full class that takes place every day during 1st period. This class is graded Pass/Fail, and students do earn credit for the class. Many students on the math team will take the Math Team class all four years they are at Stuyvesant, as it provides an opportunity to practice problem solving techniques, learn new topics, work on teamwork, and compete in multiple competitions that are taken during class time. In addition to the class, there are weekly practices on Tuesdays after school for freshmen and sophomores (juniors and seniors meet on Fridays).

#### **Math Team Selections**

Every year, 300-400 incoming freshmen sign up for the math team, while we have only two sections of the freshman course, giving us at most 68 seats that we can fill. All students interested in joining should complete the interest form linked below so we have contact and background information:

<https://forms.gle/Kk8dLTf3bpxXMgLUA>

#### **Fall 2023 Selection**

The first round of selections for the fall semester will be made based on the results of the placement exam, which is given during Camp Stuy at Stuyvesant on June 8<sup>th</sup>. All incoming students take the placement exam. Students selected after the first round will be contacted regarding the next round of selections, tentatively scheduled for June 17<sup>th</sup>. Students who are not selected may still attend after-school practices, held each Tuesday. If you are unavailable to attend on June 17<sup>th</sup>, please contact Mr. Sterr.

#### **Spring 2024 Selection**

If a student does not get selected for the fall, we will conduct another round of tryouts during the fall semester for the spring semester, which will give them another chance to join the team.

More information about the Stuyvesant math team is available on our website: [mathteam.stuy.edu](http://mathteam.stuy.edu).

***Brian Sterr/Head Math Team Coach***

[sterr@stuy.edu](mailto:sterr@stuy.edu)



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### **Social Studies Department**

All 9<sup>th</sup> grade students will be enrolled in either a yearlong Global Studies course or in AP Human Geography.

#### **Global Studies I and II:**

The course is a chronological study of world history. This course will examine the development of belief systems, political organizations, cultures and more from the Ancient World to 1770 C.E.

#### **Advanced Placement Human Geography:**

This course is ideal for students who have already completed the Global Studies course in grade 8. Students will be selected by lottery for the remaining seats. This course studies the interactions of humans with the world around them. Topics studied include: geography, patterns of population, migration, culture and cultural change, language and world religions, political maps, agriculture, industry, urbanization and globalization.

#### **Course options for incoming sophomore students in Social Studies:**

#### **Global Studies III and IV:**

This course is designed to familiarize the student with the history of the world starting with the 18<sup>th</sup> century CE and ending with modern day events. This course will culminate in a Global Studies Regents examination.

#### **Advanced Placement European History:**

The A. P. European History course is the equivalent of a college survey course in modern European history. The A. P. syllabus begins with the Renaissance and covers all of European history through the present. However, since students in the course must also prepare for the Regents Exam in Global History, the course also covers the non-Western history up to the present day, but in less depth than either AP World History or Global Studies.

#### **Advanced Placement World History:**

This course examines the cultural, economic, political, and social developments that have shaped the world from c. 1200 CE to the present. This course will prepare students to take both the Advanced Placement World History examination and the Global Studies Regents examination.

All sophomore students will be enrolled in Advanced Placement World History, Advanced Placement European History or Global Studies III/IV. All of these courses meet both city and state curriculum requirements for completion of the course in Global Studies. Please contact Ms. Suri to ensure that you are placed in the appropriate sophomore year class.

*Jennifer Suri, Assistant Principal for Social Studies & Research*

[JSuri@schools.nyc.gov](mailto:JSuri@schools.nyc.gov)



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## Musical Ensemble Auditions for Fall 2023

Stuyvesant offers a plethora of instrumental and choral music classes and currently has eleven performing ensembles. The information below specifies the available classes and audition requirements for each class. All performing groups (except for Beginner Band) meet for four years. Every student who is not in an ensemble will be programmed for a one-term Music Appreciation class during freshman, sophomore, or junior year. Students who are selected for the instrumental or choral program and successfully complete at least one year of it, are exempt from the Music Appreciation requirement.

Auditions will be remote/virtual this year and videos must be submitted by June 15, 2023. Students may audition for chorus, band, orchestra, or classical piano (as choral accompanists). Auditions for all music ensembles are required. Students are strongly encouraged to audition for multiple ensembles and may be able to participate in both instrumental and choral programs.

For each audition, students will submit a video of themselves playing or singing no later than June 15, 2023. At the beginning of each video, the student needs to clearly state their name, homeroom (if known), 9-digit OSIS number, describe past music experience (if any), and indicate why they wish to join an ensemble. Please be sure to name your video with your full name and OSIS number before submitting. Please note that you need to have a Google account in order to upload a video. If you do not have a Google account, please create one so you can upload your video.

Follow the audition requirements listed on the next page, and use the appropriate Google form (found in the instructions below) to submit your audition video by June 15, 2023. For example, if you are auditioning for the chorus, please upload your audition video to the Chorus Auditions Google form. **Please view this chorus [VIDEO](https://www.youtube.com/watch?v=bWP1fq107i4) for information about the choral program: <https://www.youtube.com/watch?v=bWP1fq107i4>.**

After evaluating audition materials, the teacher will determine placement and the appropriate ensemble for each student. Students will be placed into ensembles based on their skill level, available space, and unique programming situation. If a student is not chosen for an ensemble, they are encouraged to audition again during the fall semester of ninth grade.

For questions about specific ensemble requirements, please contact the teacher of the ensemble (listed below). For more general questions, please contact the Coordinator of the Music Department, Liliya Shamazov (LShamazov@stuy.edu) or the Assistant Principal, Francesca McAuliffe (FMcauliffe@stuy.edu).

ENSEMBLE	TEACHER NAME	TEACHER EMAIL	INSTRUMENTS
<b>BAND</b>	Dr. Gregor Winkel	<a href="mailto:GWinkel@schools.nyc.gov">GWinkel@schools.nyc.gov</a>	Woodwinds, Brass, percussion, keyboard, guitar, and bass (for Jazz band)
<b>STRINGS</b>	Mr. Joseph Tamosaitis	<a href="mailto:JTamosa@stuy.edu">JTamosa@stuy.edu</a>	All strings & advanced woodwinds, brass, and percussion for the Symphony Orchestra
<b>CHORUS</b>	Mrs. Liliya Shamazov	<a href="mailto:LShamazov@stuy.edu">LShamazov@stuy.edu</a>	All voices
<b>PIANO</b>	Mr. Harold Stephan	<a href="mailto:HStephan@stuy.edu">HStephan@stuy.edu</a>	Advanced Classical piano (student should be playing professionally for at least 7 years)





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## AUDITION REQUIREMENTS

ENSEMBLE	AUDITION REQUIREMENTS:
<b>BANDS</b> <b>(Concert Bands, Symphonic Band, Jazz Band)</b>	Submit a video playing a prepared piece and a major scale of your choice. At the beginning of the video, clearly state your full name, homeroom, 9-digit OSIS number, describe past music experience (if any), and indicate why you wish to join an ensemble. Upload audition video to this <a href="#">Band</a> Google Form
<b>Beginner Band</b> (1-year course) serves as an introduction to learning a woodwind or a brass instrument and is an audition base for more advanced bands. No previous musical experience is necessary. Preference will be given to those with some musical background. If demand exceeds 50 students, selection will be through a lottery.	If you <u>do not</u> play an instrument or wish to learn a new one, submit a video indicating why you wish to join the Beginner band and what instrument you consider studying. Upload audition video to this <a href="#">Beginner Band</a> Google Form
<b>ORCHESTRAS</b> <b>(Intermediate, Advanced, Symphony)</b>	Submit a video playing a prepared piece and a major scale of your choice. At the beginning of the video, clearly state your full name, homeroom, 9-digit OSIS number, describe past music experience (if any), and indicate why you wish to join an ensemble. Upload audition video to this <a href="#">Orchestra</a> Google Form
<b>CHORUSES</b> <b>(Oratorio Choir, Men's Chorus, Women's Chorus)</b> No prior singing experience is required for the audition. If accepted, students will be placed into one of the choruses at the discretion of the choral director.	Submit a video singing a song of your choice. It could be accompanied or sung a cappella. Your face must be visible. At the beginning of the video, clearly state your full name, homeroom, 9-digit OSIS number, describe past music experience (if any), and indicate why you wish to join an ensemble. Upload audition video to this <a href="#">Chorus</a> Google Form
<b>CHORAL PIANO ACCOMPANIST</b> Students who demonstrate an advanced level of Classical piano technique may be accepted into the program as a choral accompanist. A student needs to take professional piano lessons for at least 7-8 years and study traditional Classical repertoire. Students studying piano seriously are strongly encouraged to audition. Some students may be asked to join a zoom call to evaluate sight singing skills.	Submit a video (or a few separate videos) playing two contrasting pieces that demonstrate ability to play in various styles (Baroque, Classical, Romantic, or 20 <sup>th</sup> Century) – memorization is not required, but preferred. Submit a video playing one major scale and one minor scale (student's choice), 2 octaves up and down, both hands.  Pianists are strongly encouraged to also audition for the chorus as singers. Since there is a limit of piano accompanist positions, students who are not chosen to play their freshman year may join the chorus as a singer and audition to play every semester. Upload audition video to this <a href="#">Piano</a> Google Form

*Liliya Shamazov/Music Coordinator & Choral Director*

[lshamazov@schools.nyc.gov](mailto:lshamazov@schools.nyc.gov)



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### **Physical Education Department (Uniform Orders & Swimming)**

The ability to swim is a life skill we believe every student at Stuyvesant High School should be able to do by the time they graduate. Therefore, we require all of our students to demonstrate proficiency in swimming as part of our overall educational program.

Therefore, each year students are required to take a swimming proficiency test during the planned Camp Stuy. Students that do not pass the test are programmed for one semester of swimming during either freshman or sophomore year at Stuyvesant. This is a requirement for a Stuyvesant endorsed diploma.

**On June 8, 2023. students should come prepared to swim, with a bathing suit, towel and flip flops.** Students will be required to show proficiency in two strokes - freestyle and a second stroke. Any student that is a “non-swimmer” should inform the swim teachers during camp stuy. They will not be required to take the swim test and will be placed in a beginner level learn to swim class during Freshman year.

Physical Education uniforms and changing in the locker rooms will be required for participation in Physical Education class. Students will be required to wear sneakers suitable for activity.

If you wish to purchase your PE uniform for pick up at Camp Stuy, please place your order using this link by June 3, 2023.

<http://stuy.enschool.org/apps/forms2/?f=27187>

T-shirt- \$10.00

Shorts- \$15.00

Under Armor t-shirt- \$20.00

Sweatpants-\$20.00

Should you have any concerns, or any issues, please feel free to contact Mr. Moran.

***Brian Moran/Assistant Principal for Physical Education and Safety & Security***

[bmoran@schools.nyc.gov](mailto:bmoran@schools.nyc.gov)





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### Chemistry, Art & Technology Departments

The Chemistry, Art and Technology Departments are pleased to offer the following courses for 9th, 10th, 11th & 12th grade students to enhance your experience at Stuyvesant High School:

	<b>Fall Term</b>	<b>Spring Term</b>
9 <sup>th</sup> Grade	Art Appreciation	Art Appreciation
10 <sup>th</sup> Grade	Modern Chemistry AP Chemistry <sup>1</sup> Computer Science <sup>2</sup> Computer Science <sup>2</sup> Technical Drawing <sup>2</sup>	Modern Chemistry or AP Chemistry <sup>1</sup> Technical Drawing <sup>2</sup> or Computer Science <sup>2</sup> or Computer Science <sup>2</sup>
11 <sup>th</sup> Grade	Elective	Elective
12 <sup>th</sup> Grade	Technology Course <sup>5</sup>	Technology Course <sup>5</sup>

Most students will take **Modern Chemistry** in sophomore year, which is based on the New York State Regents Chemistry curriculum. Students will also be able to select **Sophomore AP Chemistry** in lieu of **Modern Chemistry** in sophomore year.

We also offer electives such as Organic Chemistry I and II, Advanced Chemistry Lab, Science and Society, Science Olympiad and Introduction to Robotics.

Students will also be able to take Architecture, Interior Design, Advanced Robotics, Photography, Engineering Design, 3D Art and Technology, Video Journalism, Woodworking or Ceramics as their senior year technology course, and students will be able to take Introduction to Robotics, Graphic Arts, Animation or Guitar Making as a technology elective during junior or senior year.

For more information about the departments, please visit our school website at: [www.stuy.edu](http://www.stuy.edu).

**Scott Thomas/Assistant Principal for Chemistry, Physics and Technology**

[sthomas24@schools.nyc.gov](mailto:sthomas24@schools.nyc.gov)

1: Students will be selected for the Sophomore AP Chemistry course based on their academic performance in freshman year.

2: Students can take a full-year of Computer Science or one term of Computer Science and one term of Drafting in sophomore year.

3: Students will be selected for AP Physics 1 and 2 based on their academic performance in junior year.

4: Students will be selected for AP Physics C (Mech) and (E&M) based on their academic performance in junior year.

5: Students will choose from a list of technology courses for their senior year technology requirement.



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### English Department

#### **Mission Statement**

The Stuyvesant English Department's most vital jobs are to help students use literature to understand their world and themselves, and to help them to articulate their thoughts clearly, both orally and in writing. Students at every grade level should expect to read literature that will challenge and engage them, to listen to and participate in class discussions and activities that will deepen their understanding of the texts, and to complete assignments designed to improve their writing skills and provide new insights into the works and topics they address. We believe that Stuyvesant students should be given a great deal of freedom in determining their own trajectory through the English program. Nevertheless, there are some canons of literature that all students will encounter and some common skills that all students should become proficient in during their four years at Stuyvesant.

#### ***Freshman Year (Freshman Composition):***

- All students should expect to read texts representing a variety of eras and countries and will be exposed to a wide range of literary genres, including novels, nonfiction, poems, plays and short stories. Students will learn to analyze and discuss basic literary elements, such as plot, setting, character, mood, dialogue, theme, and subtext.
- All students should expect to write critically and creatively in response to those works (both in class and over the course of at least five major assignments per semester), to improve grammar skills and vocabulary, and to learn the fundamentals of the literary essay (thesis statements, use of quotation as evidence, etc.). The second term also emphasizes nonfiction writing, particularly research writing, for which students will learn to interpret and cite information from a variety of sources.

#### ***Sophomore Year (Foundations of Literature):***

- All students should expect to read canonical works from the Classical Era to the present day, and to develop an appreciation for how works of literature reflect and comment on the historical eras from which they emerge. Students will learn about the major philosophical and artistic movements (such as Rationalism, Romanticism and Modernism) that provide historical context for the texts and may be asked to consider the texts through a variety of critical approaches.
- All students should expect to write critically and creatively in response to these works, both in class and over the course of at least four major assignments per semester. Students will build upon and move beyond the basic skills they learned as freshmen, focusing especially on literary analysis and how to deepen and develop ideas. All students should also expect to develop supplementary grammar skills.

#### ***Junior Year:***

- All students must devote at least one semester to a core English class, in which they should expect to read major works of American literature. There are three likely trajectories for juniors, who may choose to:
  - Spend the entire year studying American literature, either by enrolling in one of the AP Language and Composition classes or by taking both terms of American Literature
  - Spend a semester studying American Literature and devote the other semester to a more specialized literature or workshop class



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- Spend the entire year studying American Literature and take one or more of the specialized classes concurrently, as English electives
  - All students should expect to write critically and creatively in response to the literature, both in class and over the course of at least four major assignments per semester. Students will build upon and move beyond the skills they learned in the first two years, focusing especially on how to develop a personal voice and sense of style. All students should also expect to review for the ELA Regents exam (which they will take at the end of the second semester).

### ***Senior Year:***

- All students must devote at least one semester to a core English class, in which they should expect to read major works of World literature. There are three likely trajectories for seniors, who may choose to:
  - Spend the entire year studying major works of World literature, either by enrolling in one of the AP Literature classes, by taking both semesters of Writing in the World, or by taking Writing in the World one semester and another core class, such as Shakespearean Literature, in the other
  - Spend a semester in one of the core classes and devote the other semester to a more specialized literature or workshop class
  - Spend the entire year in one of the core classes and take one or more of the specialized classes concurrently, as English electives
- All students should expect to experiment with a variety of critical and creative responses to the literature; assignments may require students to experiment with longer and/or non-traditional forms. In the first semester, students will complete at least four major assignments, including a personal essay which they may choose to develop and submit as a college essay. In the second semester, students will complete at least one major assignment in each marking period, the last of them a course-appropriate culminating project that may have a research and/or portfolio component.

Students wishing to see the syllabi for individual courses should read the course descriptions in the “Programming” window of the school website at [www.stuy.edu](http://www.stuy.edu) or the Talos course catalog.

***Eric Grossman/Assistant Principal for English***

[egrossm@schools.nyc.gov](mailto:egrossm@schools.nyc.gov)



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### **Health Education**

The Health Education Department is pleased to present the following educational opportunities to enhance and expand your Freshman year Health Education experience at Stuyvesant High School.

Health Education is a one semester class that can be taken either during your freshman year or junior year at Stuyvesant High School. The goal of this class is to encourage freshmen or junior students to develop an understanding and commitment to their own personal role in maintaining their physical, emotional and mental wellness. During the course of the term the following topics are taught and discussed:

- Infectious and non-infectious diseases
- The role of medicine in maintaining one's wellness
- Substance abuse
- Proper nutrition
- Human sexuality
- Mental Health
- First aid and CPR
- Family life
- Climate change and various other Public Health issues

Health Education is a highly participatory class that uses a lot of creative project-based activities to help a student to master the above topics as well as to promote a student's self-esteem. There are also other activities such as field trips and guest speakers that bring their knowledge and expertise into the student classroom for classroom presentations. One of these invited speakers is the *American Red Cross* that will discuss "Emergency Preparedness" and "CPR".

Again, welcome to Stuyvesant and may your journey at Stuyvesant be a rewarding one that will open up many new opportunities and experiences for you.

If you have any further questions, please visit the Stuyvesant website at [www.stuy.edu](http://www.stuy.edu).

***Elizabeth Fong/Assistant Principal for Health, Physics & the Library***  
[efong@schools.nyc.gov](mailto:efong@schools.nyc.gov)



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### Physics Department

The Physics Department is pleased to present the following educational opportunities to enhance and expand your science classroom and laboratory experience at Stuyvesant High School.

#### 11th Grade – Junior Year at Stuyvesant

When you are an 11<sup>th</sup> grade junior student you will be taking the one-year New York State Regents Physics course which at Stuyvesant is called *Honors Physics*. This course is designed to provide a fundamental understanding of the principles and laws of physical science and at the same time provides a student with a deeper understanding of some of these laws. The basic syllabus has the following topics: Mechanics, Energy, Electricity and Magnetism, Wave Phenomena, Modern Physics, Optics and Nuclear Energy. *Honors Physics* will prepare a student for the advanced Physics electives offered by the Physics Department. Ultimately, the study of *Honors Physics* will sharpen a students' problem solving and critical thinking skills.

#### 12<sup>th</sup> Grade – Senior Year at Stuyvesant

When you are a 12<sup>th</sup> grade senior there are several possible Physics elective courses for your selection. There are two possible AP Physics classes and two possible Physics electives offered

AP Physics B 1 and 2 – This is a one-year AP class that requires a knowledge of algebra. Selection is based on how well you do in the 11<sup>th</sup> grade *Honors Physics* class. The topics covered are Mechanics, Thermodynamics, Light, Electricity and Magnetism, Quantum Theory and Relative Theory. This course prepares a student to take the College Board AP Physics B level exam.

- AP Physics C 3 and 4 – This is a one-year AP class that requires a knowledge of calculus. Selection is based on how well you do in the 11<sup>th</sup> grade *Honors Physics* class and how well you do in AP Calculus BC. The topics that are covered in depth are Mechanics and Electromagnetism. This course prepares a student to take the College Board AP Physics C level exam in May.
- Digital Electronics – This is a one-term Physics elective. This course will give you a basic fundamental understanding of how the hardware inside a computer works. This is a project-based class.
- Science Fiction Cinema – This is a one-term Physics elective. The student will explore the different intellectual trends throughout cinema history that helped shape the type of science fiction genre for the times. This is a discussion and project-based class.
- If you have any further questions, please visit the Stuyvesant website at: [www.stuy.edu](http://www.stuy.edu)

**Elizabeth Fong/Assistant Principal for Physics, Health & the Library**  
[efong@schools.nyc.gov](mailto:efong@schools.nyc.gov)



THE NEW YORK CITY DEPARTMENT OF EDUCATION

## Stuyvesant High School

345 Chambers Street, New York, NY 10282-1099  
Telephone: (212) 312-4800 Facsimile: (212) 587-3874

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### **The Stuyvesant Library**

The Library Department is pleased to present the following educational opportunities to enhance and expand your Freshman year Library experience at Stuyvesant High School. The Stuyvesant Librarians are looking forward to meeting you and assisting you with your research reports, citations and developing your pursuit of independent reading.

Students that have a 1<sup>st</sup> period to 9<sup>th</sup> period day program are welcome to visit the library during their lunch period or free period or during the 10<sup>th</sup> period at the end of their school day. Students that have a 2<sup>nd</sup> period to 10<sup>th</sup> period day program also can visit during their lunch or free period or during 1<sup>st</sup> period at the start of the school day. The Library will be open for “after hours” until 5:00 pm beginning in October.

All Freshmen will be scheduled to go to the Library for a “Freshmen Library Orientation” during the Fall semester but you can start coming to the library on the first day of school to start using all of the library’s services.

The librarians are always looking for volunteers to assist and become “Stuy Library Monitors”. The librarians accept monitor applications at the start of every semester. So, you can join the “Library Team” right away in the 9<sup>th</sup> grade or at the start of another semester when you are ready and available.

You can visit the Stuyvesant Library Website at <http://stuy.libguides.com> to see the entire comprehensive array of library services. You can also check out the Stuy Library Catalog at <http://search.follettsoftware.com/metasearch/ui/3699> to see what books we have available and to access Sora for ebooks and audiobooks.

The Library Department at Stuyvesant goes beyond the traditional function of lending books out. It is a comprehensive multi-functional library that has all the features of a traditional library and yet has kept up with the innovations and trends of the modern digital age.

The Librarians, Mr. Bowlin, Mr. Cheng, Ms. Kennedy and Ms. McGregor, wish you an enjoyable summer and we will see you in September.

***Elizabeth Fong/ Assistant Principal for the Library, Health & Physics***  
[efong@schools.nyc.gov](mailto:efong@schools.nyc.gov)