

**MIDWOOD HIGH SCHOOL AT BROOKLYN COLLEGE**  
**MICHAEL MCDONNELL, PRINCIPAL**  
**2839 BEDFORD AVENUE**  
**BROOKLYN, NEW YORK 11210**  
**[www.midwoodhighschool.org](http://www.midwoodhighschool.org)**  
**718-724-8500**

Midwood High School at Brooklyn College is nationally recognized as a school for academic excellence. Its prestigious Medical Science Institute, its equally challenging Humanities Program and its goal-oriented Liberal Arts and Science Institute offer students a comprehensive and balanced education. The dedication and expertise of its faculty encourages student enthusiasm and academic success. Midwood High school at Brooklyn College provides its students with the benefit of the academic and physical resources of Brooklyn College.

*“Your school emphasizes our nation’s educational system at its best”.*  
- *President Clinton*

*“Midwood High School is a genuine testament to New York City’s belief in excellence.”*  
- *Mayor Guiliani*

*“ The success of Midwood is an inspiration to urban school systems throughout the nation. I congratulate Principal Lewis Frohlich and all the teachers and students of Midwood High School.”*  
- *Senator Schumer*

*“The exceptional number of Advanced Placement students at Midwood is testament to your school’s continued academic excellence. Clearly, your leadership has produced a school community with a strong focus on demanding performance standards together with a deep understanding of the strategies needed to achieve these standards.”*  
- *Deputy Chancellor Judith Rizzo*

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## **ADMISSIONS**

### **MEDICAL SCIENCE INSTITUTE & THE HUMANITIES INSTITUTE**

Students who have been accepted to these programs have traditionally had the following range of scores and grades:

**English (90-100)    Math (90-100)    Social Studies (90-100)    Science (90-100)**  
**Standardized Test Scores: Math Level(s) 3-4    English Language Arts Level(s) 3-4**

### **MEDICAL SCIENCE INSTITUTE** (OPEN TO ALL N.Y.C. RESIDENTS)

The **MEDICAL SCIENCE INSTITUTE** provides students with a challenging sequence of courses focusing on science and mathematics. Students are required to complete 5 years of science and 4 years of mathematics. Three years of a world language are also required. Students select one of the three Medical Science Tracks, which begins in their sophomore year.

**Science Research** – The purpose of this track is to introduce students to the excitement of science research. In this track students will take courses in Research Methods and Research Projects. These are elective courses in which students are taught to solve various scientific problems by performing hands-on activities. Students in this elite track will be given the opportunity to apply to become members of Midwood’s Science Research Program. Those students will be presented the opportunity to volunteer in top N.Y.C. research laboratories culminating in the completion of an original science research project. Students will enter this project in various science competitions including the Intel Science Talent Search, the Siemen’s Westinghouse Science Competition and the N.Y.C. Science and Engineering Fair.

**Pre-Engineering** – The purpose of this track is to introduce students to the excitement of engineering. In this track students will take courses in Robotics and Advanced Robotics. These are elective courses in which students are taught to build and program robots to complete assigned tasks. Students will be given the opportunity to apply to take advanced courses in Mechatronics and become member of Midwood’s Robotics Team.

**Modern Science** – The purpose of this track is to introduce students to the current scientific topics and medical practices. In this tack students will take courses in Medical Issues and/or Psychobiology. Students in the Medical Issues courses will investigate the morality of certain medical practices and the impact of current medical policies on the medical field. Students in Psychobiology courses will examine the anatomy and physiology of the brain as well as the psychology of the mind.

## **HUMANITIES INSTITUTE (OPEN TO ALL N.Y.C. RESIDENTS)**

The **HUMANITIES INSTITUTE** concentrates on English, social studies, and languages. Students are required to complete additional electives in English and in social studies, as well as 3 years of a modern world language, 3 years of science and 3 years of mathematics. As part of the Humanities Institute, students must complete 3 years of a world language at Midwood High School even if they have accelerated credit.

**\*The Humanities endorsement requires courses and credits that lead to an Advanced Regents Diploma**

### **Track 1: World Languages-Latin**

World Languages is a program for students with a distinct interest in a classical approach to the humanities and sciences through the study of Latin. This program will support and prepare students for careers and degrees in all fields of study in a global economy. Students will also take up to three (3) years of a world language that culminates in a LOTE exam.

### **Track 2: AP Capstone Seminar**

AP Capstone is an option for students who have a distinct interest in taking a college level research course and have displayed academic excellence at Midwood High School. Select students will be invited to take this course although it is open to ALL students who show an interest. Students will be able to take the AP Capstone: Research course as seniors and may earn an AP Capstone Diploma issued by the College Board.

### **Track 3: Music Track**

Students interested in participating in the Music program should have previous experience in Instrumental or Vocal Music. This track will provide students with the opportunity to strengthen their instrumental or vocal skills and participate in performances at Midwood High School

### **Track 4: CTE Law Track**

The Law track is a CTE (Career and Technical Education) Program that is designed for students interested in careers and degrees in the legal fields. Classes offered are intro to law and criminal law.

### **Track 5: CTE Media Arts**

Media Arts is a CTE (Career and Technical Education) program that is designed for students interested in careers and degrees in the media arts. Classes offered include film production, graphics arts and media production.

## **SELECTION CRITERIA FOR THE LIBERAL ARTS AND SCIENCE INSTITUTE (OPEN ONLY TO STUDENTS WHO RESIDE IN THE GEOGRAPHICAL CATCHMENT AREA) (See your 8<sup>th</sup> grade guidance counselor to confirm your eligibility)**

## **LIBERAL ARTS & SCIENCE INSTITUTE**

The Liberal Arts & Science Institute consists of **3** main strands.

**Honors Liberal Arts & Science Institute Academy Strand** – Students will take a course sequence that result in an Advanced Regents Diploma (Regents Chemistry and Regents Trigonometry and a three year world language sequence which cumulates in the LOTE exam.)

**College & Career Readiness Strand** – Students choose either CTE-Career and Technical Education and/or College Preparatory Courses which consist of Engineering, Media Arts, Law/Gilder Lehrman and a world language track.

**College Support Strand** – This strand is for students who did not attain a proficient score on the 8<sup>th</sup> grade ELA and Math State Exams. The goal of this program is to provide support for all courses required for a Regents Diploma. Classes in social and emotional learning will be combined with technological centered courses in the four core subject areas of English, Math, Science and Social Studies.

*\*All program requirements may be subject to slight modifications due to budgetary constraints.*

**For further information, please contact Ms. Carol Ardito, Midwood's Parent Coordinator.**

## **STUDENTS APPLYING TO THE MEDICAL SCIENCE INSTITUTE**

Students applying to the **Medical Science Institute** at Midwood High School will be ranked based on a numerical value determined from their subject grades, standardized exams. Student grades are the primary factor in determining student ranks. The weights attributed to each subject and exam are included in the table below.

<b>MEDICAL SCIENCE INSTITUTE</b>				
<b>SUBJECT AREA GRADES</b> 52% of total	MATH 35%	SCIENCE 22%	SOCIAL STUDIES 15%	ENGLISH 28%
<b>STANDARDIZED EXAM GRADES</b> 48% of total	ELA		MATH	
	40%		60%	

**Subject Grade Notes:** If a subject area grade is missing it will be replaced with the average of the other subject areas and then used in the calculation.

**Non-Traditional Subject Grade Notes:**

For the subject grade component we look at the four core subjects and weigh the Math grade as 35%, English as 28%, Science as 22%, and Social Studies as 15%. Since we are not using a simple average of all grades a student would be severely negatively impacted if they did not have a grade for one of these subjects. For that reason if a subject area is missing it will be replaced with the average of the other subject areas and then used in the calculation. If a student had a course grade greater than 100 it was changed to 100 since there is little logic in final grades greater than 100. Letter grades were converted to number based on A=95, B=85, C=75, etc. For any letter grade including plus or minus we added or subtracted three points (e.g. B+ = 88 and C- = 72) This correlates with what most institutions using a four point GPA scale equate.

**Standardized Exam Notes:** New York State ELA and Math Common Core exams will be used to determine the weighted average of the standardized exams. If a student has not taken the New York State ELA or Math Common Core exams they must submit the results of some other standardized achievement test (i.e., Terra Nova).

**Attendance Notes:** Total attendance is determined by adding the number of days absent and one half of the number of days late. For each day of missing attendance in excess of ten the calculated numerical value is lowered by a tenth of a point.

**Special Circumstance Bonus Points** may be awarded based on verified information from guidance counselors or outside sources.

## **STUDENTS APPLYING TO THE HUMANITIES INSTITUTE**

Students applying to the **Humanities Institute** at Midwood High School will be ranked based on a numerical value determined from their subject grades, standardized exams. Student grades are the primary factor in determining student ranks. The weights attributed to each subject and exam are included in the table below.

<b>HUMANITIES INSTITUTE</b>				
<b>SUBJECT AREA GRADES</b> 52% of total	MATH 28%	SCIENCE 15%	SOCIAL STUDIES 22%	ENGLISH 35%
<b>STANDARDIZED EXAM GRADES</b> 48% of total	ELA		MATH	
	60%		40%	

**Subject Grade Notes:** If a subject area grade is missing it will be replaced with the average of the other subject areas and then used in the calculation.

**Non-Traditional Subject Grade Notes:**

For the subject grade component we look at the four core subjects and weigh the Math grade as 35%, English as 28%, Science as 22%, and Social Studies as 15%. Since we are not using a simple average of all grades a student would be severely negatively impacted if they did not have a grade for one of these subjects. For that reason if a subject area is missing it will be replaced with the average of the other subject areas and then used in the calculation. If a student had a course grade greater than 100 it was changed to 100 since there is little logic in final grades greater than 100. Letter grades were converted to number based on A=95, B=85, C=75, etc. For any letter grade including plus or minus we added or subtracted three points (e.g. B+ = 88 and C- = 72) This correlates with what most institutions using a four point GPA scale equate.

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**ACADEMIC ACHIEVEMENTS**

- **Midwood High School has constantly ranked among the top schools with science research.**
- **Midwood High School was twice named a School of Excellence by the United States Department of Education. Midwood was selected by Redbook Magazine as one of American’s fifty outstanding high schools.**
- **Midwood High School was selected as one of America’s outstanding schools by U.S. News and World Report.**

**Of the 2018 Graduation Class:**

- *95% went to college*
- *Approximately 98% earned Regents endorsed diplomas*
- *SAT mean scores were significantly over the state and national means*
- *Rated in the top 100 high schools in American by the College Board Advanced Placement Program*
- *Awarded over \$46 million in college scholarships and research competitions*

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**BROOKLYN COLLEGE – COLLEGE NOW**

- **Students at Midwood High School are enriched in various ways by the academic and physical resources of Brooklyn College.**
- **Students are encouraged to enroll in courses at the college campus, if qualified.**
- **Students have the opportunity to use the college library.**
- **Students may participate in appropriate college cultural and career programs.**
- **Students may participate in research under the tutelage of college professors.**
- **9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> grade students can apply for high school credit at no cost.**
- **11<sup>th</sup> and 12<sup>th</sup> grade students can apply for college credit at no cost.**

**KINGSBOROUGH – COLLEGE NOW**

- **Midwood High School students may attend weekend classes on the campus of Kingsborough Community College.**
- **11<sup>th</sup> and 12<sup>th</sup> grade students are encouraged to enroll if the qualified.**
- **Students can apply for college credit at no cost.**

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## **CURRENT & PROJECTED ELECTIVES**

*Offerings of electives are subject to modifications due to budgetary constraints.*

In addition to the mandated enriched sequences in the major subject areas, Midwood will offer the following electives:

### **SCIENCES:**

A.P. Biology	Medical Issues	Sci. Research Projects
A.P. Chemistry	Psychobiology	Sci. Research Methods
A.P. Physics 1	Anatomy & Physiology	Forensics
A.P. Physics 2	Pre-Engineering Program	Robotics
A.P. Physics C	Mechatronics	Sports Medicine
A.P. Environmental Science		Emergency Medical Training

### **MATHEMATICS:**

A.P. Calculus	Calculus	Intro to Computer Programming
A.P. Statistics	Pre-Calculus	
A.P. Computer Science	Math Team	

### **HUMANITIES:**

#### **English**

A.P. Capstone Seminar(MSI)-Grade10  
A.P. Capstone Seminar(Humanities)-Grade10  
A.P. Capstone Seminar(LASI)-Grade 11  
A.P. Capstone Seminar Research-Grade 12  
African/American Literature  
American Classics  
Art & Literature  
Creative Writing  
Drama  
Journalism  
Scientific Non-Fiction  
The Art of Public Speaking  
True Crimes  
Yearbook

#### **Social Studies**

A.P. Human Geography  
A.P. Macro-Economics  
A.P. Gov't & Politics  
A.P. U.S. History  
A.P. World History  
America in Vietnam  
Civil Law  
Community Service  
Constitutional Law  
Criminal Law  
Criminology  
Historiography  
Intro to Law  
Law Internship  
Mock Trial  
Social Science Research  
Urban History

#### **World Languages**

A.P. French  
A.P. Spanish  
French  
Spanish

### **ARTS:**

#### **Music**

Chorus  
Advanced Chorus  
Marching Band/Concert Band  
Music Appreciation  
Music Production  
Stage Band

#### **Fine Arts**

Drawing  
Graphic Arts  
Media Design  
Painting  
Video Production

### **HEALTH/PHYS ED:**

Athlete Fitness	Tennis
Dance	Weight Training
Handball	Yoga
Fitness/Aerobics	Yoga Fusion

### **CAREER TRACKS IN ENGINEERING & MEDIA PRODUCTION**

# STUDENT ACTIVITIES

4-H Club  
Alternative Music Appreciation Club (AMA)  
Amnesty International  
Anime Club  
Arista/Archon Society  
Art Club  
Bio-Med Society  
Black Heritage Alliance  
Bollywood  
Creative Writing  
Culture Club  
Cyber Designing  
Cycling Club  
Drama Club  
Film Making Club  
FOGUE  
Forum-Social Studies  
French Club  
Future Doctors of Midwood  
Future Lawyers of Midwood  
Gardening Club  
Gay-Straight Alliance  
Greek Club  
HOPS (Help Out Poverty Stricken)  
Jewish Student Union  
Key Club  
Knitting & Felting Club  
Korean Japanese Club (KJC)  
K-Pop Club  
Midwood Glee  
Midwood Media Club  
Midwood Mentors (M&M'S)  
Midwood Social Justice Club  
Muslim Student Association  
Natural Hair Club  
Patterns  
Peace Builders  
Philosophy Club  
Ping Pong  
Pride Club  
Red Cross Club  
SING  
Step Team  
Students For Liberty  
The French Circle  
UNICEF Club  
UNO Club  
Video Yearbook Club  
World Issues Club

## Academic Groups

Math  
Moot Court

Mock Trial  
Ocean Science  
Debate Team  
Science Research  
Publications  
Argus-English  
Forum-Social Studies  
Lemma-Math  
Introspect-Science  
Patterns-English  
Rapport-World Language

## City of Midwood-Student Gov't Organization

Consultative Council  
Election Commission  
City Council

## Boys Varsity Teams

Basketball	Lacrosse
Baseball	Soccer
Bowling	Swimming
Football	Tennis
Golf (CoEd)	Volleyball
Track (Indoor, Outdoor, Cross Country)	
Handball	Wrestling
Cricket	

## Girls Varsity Teams

Basketball	Swimming
Bowling	Tennis
Handball	Volleyball
Track (Indoor, Outdoor, Cross Country)	
Softball	Soccer
Lacrosse	Flag Football
Badminton (Club)	

## Junior Varsity Teams

Boys Basketball	Boys Football
Boys Baseball	Boys Lacrosse
Boys Track (Indoor, Outdoor)	
Girls Track (Indoor, Outdoor)	
Girls Basketball	

## Weekend Trips

Freshman-Sophomore  
Junior-Senior

## TRANSPORTATION TO MIDWOOD HIGH SCHOOL

SUBWAY: #2 Train, #5 Train to Flatbush Avenue  
Q Train to Avenue H

BUS: B6, B11 to School  
B41 to Nostrand Avenue & Flatbush Avenue  
B44 to Nostrand Avenue & Flatbush Avenue  
B49 to Ocean Avenue and Avenue H  
Q35 to Flatbush Avenue & Nostrand Avenue

