
BACKGROUND

The STEM Institute was founded in 1992 with support from NASA and CASHEE to ensure that Hispanic, female, and under-represented minority students achieve academic excellence through continuous programmatic support throughout their pre-college, undergraduate, and graduate years.

We have discovered that many successful high school students do not maintain the same level of academic excellence during their early college years because they are under-prepared for the unique challenges of college.

The STEM Institute prepares students for the greater demands of college-level study and helps them adjust to campus life. It offers academic and tutoring support services designed to help students prepare for these new challenges.

COST AND BENEFITS

The STEM Institute is a FREE program. Students who are accepted will receive **FREE** textbooks and public transportation. Breakfast and lunch will also be provided free of charge for eligible students.

Most importantly, students who successfully complete the program will receive **either one elective high school credit or college credit(s)**, depending on the courses they enroll in.

The courses offered focus teamwork, creative hands-on experiences and critical thinking skills. Teachers from the Department of Education supervise each course and a team of CCNY instructors and Ph.D. students teach the courses.

WHAT IS STEM INSTITUTE?

The STEM Institute is a challenging academic enrichment program designed to encourage minority students in grade 9-11 to maximize their full potential, by providing them with an educational program in college-level courses in the Physical Sciences, Mathematics, English, and Engineering Design. A selected number of students are also offered the opportunity to conduct research with faculty members at the Grove School of Engineering. All students who participate are encouraged to pursue careers in the field of engineering, computer science, science, business, and mathematics.

The STEM Institute is a collaborative initiative between the College NOW, the Biomedical Engineering, NOAA CREST programs at The City College of New York, Grove School of Engineering, the New York City Department of Education, and the Center for the Advancement of Hispanics in Science and Engineering Education (CAHSEE).

SUMMER 2009 PARTICIPANTS



DATES OF THE STEM INSTITUTE

The STEM Institute is offered during the New York City Public High School summer session. This year the program will be offered from:

June 29 – August 6, 2010
Monday to Friday
9:00am – 4:00pm

Tutoring sessions will be offered daily from 8:00 – 9:00am and from 4:00 – 5:00pm.

STEM OFFERS.....

- **A Unique Classroom Experience:** Students learn from Engineering, Science and Mathematics faculty at The City College of New York, as well as High School Teachers.
 - **Career Development Information Sessions:** Students are provided with exposure to science and mathematics as they are applied to industry. As a part of the program representatives from major companies and City College faculty members make frequent visits to talk to the students about the numerous career options available in engineering and other science-related disciplines.
 - **Parental Involvement:** A parent and student orientation session is held before the program begins, in order to discuss the roles and responsibilities of parents and students.
 - **College Information Sessions:** Information sessions on the college application process, Financial Aid, scholarships and research opportunities are provided to student participants of The STEM Institute.
-

WHO IS ELIGIBLE FOR STEM?

Students will be selected on the basis of:

- Demonstrating “Ganas” – Spanish for *commitment to succeed* – in science, engineering or mathematics
- Successful completion of academic instruction in math and science at student’s grade level
- A high school average of 90% or better
- Math regent score(s) of 90% or better
- A good record of school attendance
- Willingness to participate in different aspects of the program until graduation from high school and to continue to maintain contact with the program throughout their college education

APPLYING TO STEM

To apply to The STEM Institute, please visit:

<http://ccny.cuny.edu/engineering/stem>

or

contact Mr. Marte at marte@ccny.cuny.edu for an application

Mail complete applications to:

Attn: Otto Marte, Assistant Director
Grove School of Engineering
The City College of New York
140th Street & Convent Avenue, T-2M32
New York, NY 10031
Tel: (212) 650-6190
Fax: (212) 650-8139

AVAILABLE COURSES FOR SUMMER 2010:

Group A: Calculus I (3 college credits) & Engr. 101 (Robotics) (3 college credits)

Pre-requisite: Pre-Calculus
(Students Grades 10th & 11th)

Group B: Calculus I (3 college credits) & Engr. 103 (Intro to Computer Method for Engineers) (2 college credits)

Pre-requisite: Pre-Calculus
(Students Grades 10th & 11th)

Group C: Pre-Cal A (3 college credits) & General Physics (1 elective HS credit)

Pre-requisite: Advanced Algebra
(Students Grades 10th & 11th)

Group D: Pre-Cal B (3 college credits) & one of the following:

1. General Chemistry (1 elective HS credit)
2. Critical Writing & Reading (1 elective HS credit)

Pre-requisite: Advanced Algebra
(Students Grades 10th & 11th)

Group E: Advanced Algebra (1 elective HS credit) & one of the following:

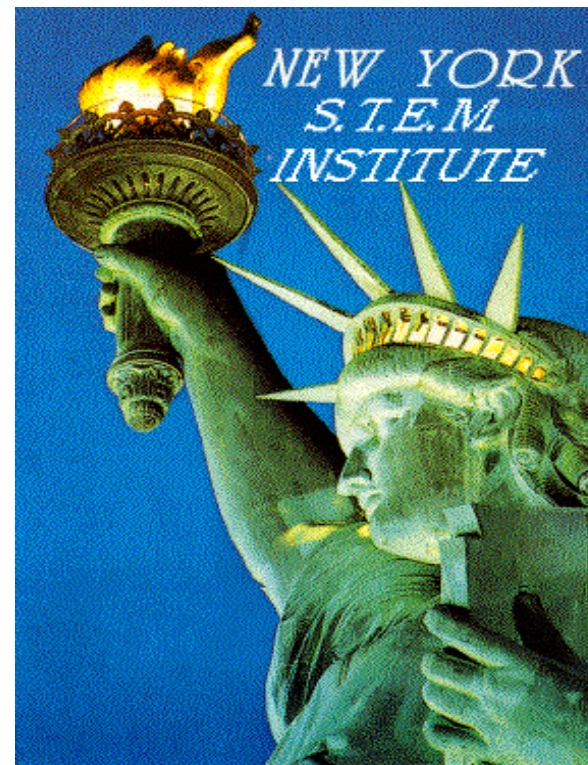
1. General Chemistry (1 elective HS credit)
2. Critical Writing & Reading (1 elective HS credit)

(Students Grades 9th & 10th)

Group F: Engr. 103 (2 college credits) & Research in one of the following:

1. Electrical Engineering
2. Civil Engineering
3. Science (Biology, Chemistry or Physics)

Pre-requisite: Pre-Calculus and **US Citizenship for Research component ONLY**
(Students Grades 11th & 12th)



The Science, Technology, Engineering and Mathematics (STEM) Institute



**Application Deadline
April 15th, 2010**

EARN FREE COLLEGE CREDIT AND RESEARCH EXPERIENCE, WHILE STILL IN HIGH SCHOOL!! Meet NASA scientists, astronauts, and distinguished Professors in a college campus setting.