BACKGROUND
Research shows 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 the college environment. The STEM Institute was founded in 1992 with the support of NASA and CASHEE to ensure that Hispanic, female, and other minority students continue to achieve academic excellence throughout their pre-college, undergraduate, and graduate years by means of continuous programmatic support.

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
The STEM Institute is a FREE program. Students who are accepted will receive free textbooks and supplies. Public transportation, breakfast and lunch will be provided free of charge for eligible students ONLY if funds will be available.

BENEFITS
Students who successfully complete the program will receive one elective high school credit depending on the courses they enroll in. Courses vary each summer and focus teamwork, creative hands-on experiences and critical thinking skills. Courses are supervised by the program assistant director and a team of CCNY instructors and Ph.D. students teach the courses.

ABOUT THE STEM INSTITUTE
The STEM Institute is a challenging academic enrichment program designed to encourage minority students in grade 9-11 to maximize their academic potential by providing them with an educational program in college-level study. The STEM Institute offers courses in the physical sciences, mathematics, English, engineering and computer programming. A select group of students are also offered the opportunity to conduct research with faculty at The Grove School of Engineering. All students who participate are encouraged to pursue careers in the field of engineering, technology, science, business, and mathematics.

The STEM Institute is a collaborative initiative between the AMNH, STEP Program, 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 2011 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:
June 28 to August 4, 2012
Monday to Friday
9:00 am – 4:00 pm

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

PROGRAM COMPONENTS
• 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 Information Sessions: Students are provided with exposure to science and mathematics as applied to the industry. As part of the program representatives from the faculty at The City College of New York and outside corporations visit the students to speak to them about the different career choices 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 both parents and students.
• College Information Sessions: Students who participate in The STEM Institute take part in information sessions on the college application process, scholarships and research opportunities.
PROGRAM ELIGIBILITY

Students will be nominated and screened by sponsoring high school 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 and Science Regents score(s) of 90 or better
- 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 college

APPLYING TO THE STEM INSTITUTE

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.

Also visit us at: http://www.facebook.com/steminstccny

Mail complete applications to:

Otto Marte, Assistant Director
Grove School of Engineering
The City College of New York
140th Street & Convent Avenue, T-2M1
New York, NY 10031
Tel: (212) 650-6190
Fax: (212) 650-8139

AVAILABLE COURSES FOR SUMMER 2012:

**Group A:** Calculus I (1 elective HS credit) & Engineering Design 10100 (Non-credit)
Pre-requisite: Pre-Calculus (10th & 11th Graders)

**Group B:** Calculus I (1 elective HS credit) & College Critical Writing & Reading (1 elective HS credit)
Pre-requisite: Pre-Calculus (10th & 11th Graders)

**Group C:** College Pre-Calculus (1 elective HS credit) & General College Physics (1 elective HS credit). Pre-requisite: College Advanced Algebra or being placed by STEM Placement exam. (10th & 11th Graders)

**Group D:** Honor HS Geometry (1 elective HS credit) & one of the following (All 1 elective HS credit):
- General Chemistry
- College Critical Writing & Reading
Pre-requisite: Advanced Algebra (9th - 11th Grades)

**Group E:** Advanced College Algebra & one of the following (All 1 elective HS credit):
- General Chemistry
- College Critical Writing & Reading
Pre-requisite: Non-ESL students for choice 2 ONLY (9th - 11th Grades)

**Group F:** Engineering 103 (Intro to Computer Methods) (Non-credit) & Research in one of the following areas: 1. Electrical Engineering, 2. Civil Engineering, 3. Mechanical Engineering, 4. Science (Biology, Chemistry or Physics)
Pre-requisite: Calculus and US citizenship for Research ONLY (11th & 12th Graders)