William Paterson University has been awarded a grant from PSE&G to sponsor a science-focused Pre-College Summer Enrichment Program for high-achieving High School students. To be eligible for acceptance into the program, applicants must come from a low-income household or be a first-generation prospective college student. The PSE&G STEM program will give students a true taste of college life for two consecutive weeks during the Summer of 2015 (July 13 – 24) and will consist of academic courses, college-preparation information sessions, leadership training, off-campus field trips, and a residential dormitory experience. For more information, email Youthprograms@wpunj.edu or call Rosie at (973) 720-2354.

Requirements for Participation in the Aim High Academy:

- Students must either meet the federal **low-income guidelines** (please visit www2.ed.gov/about/offices/list/ope/trio/incomelevels.html to determine if you meet the eligibility requirements) or be **first-generation** prospective college students (your parents have not earned a Bachelor’s degree).
  - Students must have at least a 3.0 GPA and must provide evidence of high achievement in a New Jersey high school, including cumulative GPA, SAT/ACT scores, and a letter of recommendation from one of your high school teachers. Students must also submit a one-page essay (typed and double-spaced) stating why you wish to be a part of this program.
  - Return the completed application to William Paterson University by May 2015. It can be sent via E-mail to Youthprograms@wpunj.edu, faxed to (973) 720-2298 (Attention: PSE&G), or mailed to WPU’s Center for Continuing and Professional Education at 1600 Valley Road in Wayne, NJ, 07470.

Academic Enrichment Courses Offered:

**Applications of Mathematics 7/13/15-7/17/15**
The objectives of this course are to enable participants to: (i) experience the ubiquity of math in our daily lives; (ii) understand the universality and applicability of mathematics by using the similar mathematical tools in seemingly diverse areas; (iii) develop critical thinking; and (iv) recognize the importance of mathematics in their future careers.

Participants will investigate scenarios from science, business and/or industry using mathematical tools and critical thinking. Case-studies will range from simple to complex problems, with an emphasis on mathematical modeling, analysis and interpretation of solutions. Most of the mathematical concepts required will be discussed during the sessions, however, participants are expected to know at least Algebra I. Prior knowledge of Calculus is beneficial but not required. All participants will also work individually or in groups, on related projects and present their findings on the last day.

**Virtual Word 07/20/15 to 07/24/15**
For students who want to put themselves in the virtual world of cyber space, one way to be in such an environment is to create your own website. In this course, students will learn the basic concepts of web design and development, web-based multimedia, online forms, HTML, JavaScript, graphical components, audio, video, client/server computing, and website maintenance and management. At the end of the weeklong course, participants will: learn the fundamentals of web design, implementation, and maintenance. Acquire the knowledge of multimedia presentation and manipulation. Be in the cyber world with dynamic and interactive web pages.
William Paterson University
Pre-College Summer Youth Programs
2014 PSE&G Pre-College STEM Program

Application (Due Thursday, May 14, 2015)

**Student Information:**
First and Last Name: ___________________________ Date of birth: ___/___/____
Race/Ethnicity: ___________________________ Gender: _____ Age: _____
E-mail Address: ___________________________ Social Security # (optional): ____________
Home Address: ____________________________
Home Phone #: ____________________ Cell Phone #: ____________________________
High School you are currently attending: ____________________________
Grade you will be entering September 2014: __________
Cumulative GPA: ___________ Average Grade Earned in H.S. Science Courses: __________
SAT and/or ACT Scores (please specify test taken and score earned): ________________

Please check which of the following requirements applies to you:

☐ I live in a low-income household* ☐ I am a first-generation college student

*Students must provide proof of a low-income household (i.e. 2014 W-4 tax form)

**Guidance Counselor Contact Information:**
Name: ___________________________ Phone: ___________ Email: ____________________________

**Parent/Guardian Information:**
First and Last Name: ____________________________
E-mail address: ____________________________
Home Phone #: ____________________ Cell Phone #: ____________________________

If selected for PSE&G Pre-College STEM Program, I will allow my son/daughter to reside on the William Paterson University campus from July 12 – 24, 2015.

______________________________________________
(Parent/Guardian Signature Required)