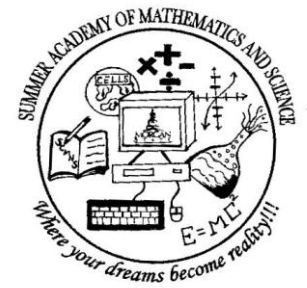




SAMS

SUMMER ACADEMY OF MATHEMATICS AND SCIENCE



THE CONCEPT

The *Summer Academy of Mathematics and Science (SAMS)* is an intensive six-week academic residential summer program sponsored by the Actuarial Science Program at Morgan State University (MSU). The SAMS program is designed primarily for students preparing to enter the 10th, 11th, or 12th grades who have exceptional interests in attending university as well as entering MSU freshmen enrolled in any program of the School of Computer Mathematical and Natural Science who possess the drive to increase their Mathematics, English and Computer Science skills to stay one step ahead of their peers. Approximately 30-35 students will be selected to receive innovative classroom instruction as well as hands-on experiences in Mathematics, English (reading and writing skills) and Computer Science as well as investigate various careers in the sciences.

The SAMS program is designed to provide encouragement and foster excitement among students in mathematics and science. Our primary focus is on students from urban settings and underrepresented groups who may come from very diverse backgrounds but united by the desire and motivation to excel academically.

On entering the program, all students will be assessed to ascertain their present Mathematics, English and Computer Science skill levels. Students will then be divided into smaller groups to assist us in attending to the individual needs of each student, identifying their areas of deficiency and helping them to progress at a greater rate from their present level. Each of these smaller groups will be led by a professor and classroom student assistant. Moreover, students can obtain university equivalent course credit for passing their assigned mathematics module. We provide math courses in algebra, precalculus and calculus along with English courses that focus on building their compositional, grammatical and business-writing skills as well as their Verbal SAT skills. Additionally, we offer computer science courses that provide students with both introductory and advanced programming and robotic concepts utilizing various apparatus and techniques such as the Finch robots and the LEGO Mindstorm.



A critical component of the Program is exposing students to lucrative and not very well known careers in mathematics and the natural sciences. One such career option, which we will help students explore, is the area of actuarial science. Each week is dedicated to a mathematics- or science-related discipline. Through discipline-specific activities and experiments integrating math and computer science coursework learnt, field trips to various partnering companies and presentations by individuals from industry providing insight on their professions, we are able to spark students' interest while raising awareness of these careers in the math and science disciplines. We will also provide guidance to students wishing to pursue these paths as well as available scholarship opportunities.



CAMPUS LIFE

Students will stay in our residential facilities at MSU for the duration of the six weeks and will have access to all campus' facilities (library, computer labs, athletic facilities, etc). They will receive personal tours of the University and students' meals will be served in our University cafeterias. These are the same facilities used by Morgan State University students on campus. Students in the program will be supervised by University Faculty mentors along with MSU Student Assistants.



COSTS

The Summer Academy of Mathematics and Science Program is committed to making opportunities available to all interested and deserving students, regardless of their current financial situation. As a result, we only require a registration fee of \$50 as a demonstration of your commitment to the program. Tuition, residential costs, textbooks, academic supplies and meals for the six weeks are completely **FREE**. In addition, students will receive a weekly stipend for attending the program to help offset any related incidental costs.

REASONS TO APPLY

The Program will:

- ❖ Provide **FREE** tuition
- ❖ Weekly stipend
- ❖ Stay in campus dorms
- ❖ College credit for classes



HOW DO I APPLY?

There are several ways to obtain application materials for SAMS

- ✚ By emailing the Director at nicassia.williams@morgan.edu
- ✚ By contacting the Director by phone at (443) 885-4374; fax at (443) 885-8101
- ✚ By visiting the Program's website at

http://www.morgan.edu/School_of_Computer_Mathematical_and_Natural_Sciences/High_School_Outreach.html

- ✚ In writing, by sending request to:

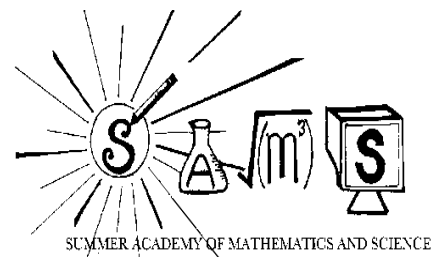
SAMS

Nicassia Williams

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Morgan State University

Baltimore, MD 21251



PROGRAM START DATE: JUNE 18 – END DATE: JULY 27

The deadline for 2012 SAMS Program is March 16, 2012.