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University of the Virgin Islands

# Mathematics Behind the Science (MBS)



## PROGRAM DESCRIPTION

**Mathematics Behind the Science (MBS)** is a six week, residential, summer bridge program open to high school seniors and current UVI freshmen that completed MAT 024 interested in Biology, Chemistry, Computer Science, Mathematics, Engineering, Marine Biology, or Physics.

## PROGRAM DATES

Typically, the **Mathematics Behind the Science** summer bridge program coincides with UVI's second summer school session. The program lasts six weeks and usually starts the last week in June until the last Friday in July.

## WHAT ARE THE COMPONENTS?

- A residential agreement to live on the St. Thomas campus for the summer
- A bridge to Calculus or Pre-Calculus math course
- A computing course
- A "Success in STEM" and college preparedness class
- A Scientific Reading and Writing course
- Career sessions
- Field trips

## WHO IS ELIGIBLE?

Students from St. Croix, St. Thomas, and St. John are highly encouraged to apply. The applicant must have a genuine interest in pursuing a degree in science, mathematics, engineering, technology, or biomedicine. Acceptance into an accredited college or university for students in 12th grade (preference given to applicants enrolling at UVI) is also required.

## HOW TO APPLY?

Visit our website at <http://mbs.uvi.edu>. Follow the link to the online application form. Submit additional application materials by email to [ecs@uvi.edu](mailto:ecs@uvi.edu). Completed applications are due by **May 15th**. Please apply early to receive full consideration!

## Acknowledgements

Math Behind the Science is managed by the **Emerging Caribbean Scientists (ECS) Program**. ECS provides UVI students with counseling, scholarships, research experiences, scientific seminars and graduate school preparation workshops. Funding for MBS is provided by the National Science Foundation (NSF), through the Historically Black Colleges and Universities Undergraduate Programs (HBCU-UP), and by individual donors to the university.



## Contact Information

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## Mathematics Behind the Science (MBS) Program cont'd...



### **What is the purpose of the program?**

Mathematics Behind the Science aims to illuminate uses of mathematics and computation in the sciences and strengthen students' ability to use computation as a problem solving tool in future careers. It also strengthens the mathematical proficiency of entering students, better preparing them for success in college level mathematics courses. It facilitates the transition between high school performance and that expected at the university level. Furthermore, it establishes a community of learners supporting student success throughout the undergraduate college years as a science STEM major.

### **What are the costs?**

There is no cost to participants or their parents. Funding is provided by the NSF and private donations and sponsors.

### **APPLICATION MATERIALS**

- Online Application form
- 500-600 word Essay
- Parent or Guardian consent (if applicable)
- High school transcript
- Two Letters of Recommendation

### **GENERAL INFORMATION**

The **University of the Virgin Islands** is a learner-centered institution dedicated to the success of its students and committed to enhancing the lives of the people of the U.S.

Virgin Islands and the wider Caribbean through excellent teaching, innovative research, and responsive community service. It enrolls over 2,500 full-time and part-time students on the St. Thomas and St. Croix campuses.



The **College of Science and Mathematics** offers programs leading to bachelors degrees in biology, marine biology, chemistry, computer science, mathematics and applied mathematics. Associates degrees are offered in process technology, physics, and computer science. Masters degrees are offered in mathematics for secondary teaching, and in marine & environmental studies. Other programs that may be of interest to MBS participants are the Research Initiative for Scientific Enhancement (**RISE**) Program, Minority Access to Research Careers (**MARC**) program, Boston University Early Medical School Selection Program (**EMSSP**), the **Cybersecurity** Fellowship, the **Dual Degree Engineering** programs with Columbia University, University of Florida, and University of South Florida, the Summer Science Research Institute (**SSRI**) and the Summer Undergraduate Research Experience (**SURE**).

For more information, contact the **Emerging Caribbean Scientists (ECS) Program** by sending an email to [ecs@uvi.edu](mailto:ecs@uvi.edu) or call 340-693-1249. Visit us on the web at <http://ecs.uvi.edu>.