

BLAST

**Building Leaders for
Advancing Science
and Technology**

www.blast.spacegrant.org



The Building Leaders for Advancing Science and Technology (BLAST) program offers an exciting, on-campus summer experience designed to increase student interest and curiosity in science, technology, engineering and math (STEM).

BLAST provides a residential opportunity to current 8th and 9th grade students with at least a C+ grade average and a desire to explore STEM opportunities.

Faculty members lead hands-on activities and demonstrations that seek to motivate and inspire students for STEM studies and careers.

BLAST is FREE of charge for students who are selected to participate, but transportation to and from the universities is the responsibility of each family.

The program is a partnership between the Virginia Space Grant Consortium, Old Dominion University, the University of Virginia, Virginia Tech and the Commonwealth of Virginia.

**Application Opens:
November 2018!**

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Virginia Space Coast Scholars

Launchpad to Study the Earth, the Atmosphere and Beyond



Free Online STEM Program for High School Sophomores with 2.7 GPA or higher

The Virginia Space Coast Scholars (VSCS) program is for high school sophomores interested in science, engineering, and technology related to current NASA missions by NASA Wallops Flight Facility.

The program features two key elements. The first is an on-line science, technology, engineering, and mathematics (STEM) learning experience featuring five modules.

Upon completion of the online program, top performing scholars may be invited to attend a seven-day residential

Summer Academy at NASA Wallops Flight Facility on Wallops Island, VA.

During the week-long FREE summer academy, scholars will learn firsthand from NASA professionals and their partners about the latest, cutting-edge technologies and missions.

Virginia Space Coast Scholars is a partnership between the Virginia Space Grant Consortium and NASA Wallops Facility with funding support from the Commonwealth of Virginia.



vscs.spacegrant.org



Virginia Aerospace Science and Technology Scholars (VASTS)

A NASA-based science, technology, engineering and mathematics (STEM) educational program for high school juniors and seniors



ABOUT VASTS

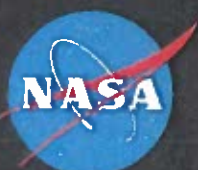
VASTS is a free competitive program that allows high school juniors and seniors to take an online NASA-developed course. Students learn about a broad range of science, technology, engineering and mathematics (STEM) skills. Based on course performance, scholars may be selected to participate in an all-expense paid seven-day residential Summer Academy at NASA Langley Research Center.

COURSEWORK

Scholars can receive two college credits for successful completion of online coursework and two additional credits for the Summer Academy. The course is offered for free online from December through May and consists of seven lessons and a final project that allows scholars to build their knowledge of NASA, space exploration and key STEM skills.

SUMMER ACADEMY

Scholars selected for the Summer Academy will spend seven days with STEM mentors and master educators at NASA Langley Research Center in Hampton. Scholars will work in project teams to design a human mission to Mars and will be immersed in hands-on experiential STEM activities.



**APPLICATION
OPENS
AUGUST 15**

ELIGIBILITY

- High School junior or senior
- Virginia resident
- U.S. citizen
- Minimum GPA of 2.7
- Have access to the internet

For more information visit: vsgc.odu.edu/VASTS/

CLOUDSAT

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It's not always rocket science.
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- Work on a mission design project
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- Tour NASA facilities
- Open the door to a world of career possibilities at NASA!

Contact: joyce.h.corriere@nasa.gov
More info: www.vsgc.edu.edu/VESSS

**Application Opens
August 15**

VIRGINIA EARTH SYSTEM SCIENCE SCHOLARS (VESSS) COURSE

VESSS is a **FREE** program that allows **high school juniors and seniors** to engage in a NASA-developed course using an Environmental/Earth Science theme. The online course teaches a broad range of science, technology, engineering and mathematics (STEM) skills aligned with the Virginia Standards of Learning. Based on course performance, scholars may be selected to participate in an all-expense paid seven-day residential Summer Academy at NASA Langley Research Center.

COURSE

This transferable, three-credit, dual enrollment course, offered through Thomas Nelson Community College (TNCC), engages the student in real world investigation of the Earth and its highly dynamic systems through the use of the latest research and data from NASA's Earth Science missions.

RESIDENTIAL NASA SUMMER ACADEMY

Students selected to participate in the **FREE** seven-day Summer Academy are immersed in the design of a hypothetical mission to study one of the Earth's major spheres and how the spheres are interconnected. Students will address a real-world scenario relating to one of the four major spheres based studies which are currently being studied or that will be studied by NASA.



**THOMAS
NELSON**

The program is a partnership between the Virginia Space Grant Consortium, NASA Langley Research Center, Hampton University, Thomas Nelson Community College and the Virginia Aerospace Business Association (VASBA).