

VIRGINIA SPACE GRANT CONSORTIUM

FREE NASA OPPORTUNITIES FOR VIRGINIA HIGH SCHOOL STUDENTS!

Old Dominion University
Peninsula Center
600 Butler Farm Road, Suite 2200
Hampton, VA 23666
(757) 766-5210
FAX (757) 766-5205
vsge@odu.edu
Http://www.vsgc.odu.edu

Greetings,

Virginia Space Grant Consortium (VSGC) provides **FREE** Science, Technology, Engineering and Math (STEM) opportunities for Virginia students in grades 10th, 11th, and 12th. The programs inspire students who possess technical and/or scientific interests and are motivated to learn about the many different opportunities that NASA offers. Please share the information on the following programs with your students.

Member Institutions:

College of William and Mary

Hampton University

Old Dominion University

University of Virginia

Virginia Polytechnic
Institute and State University

MathScience Innovation Center

Science Museum of Virginia

Virginia Air and Space Center

NASA Langley Research
Center

NASA Goddard Space Flight
Center's Wallops Flight Facility

State Council of Higher
Education for Virginia

Virginia Community
College System

Virginia Department
Of Education

Center for Innovative
Technology

The **Virginia Space Coast Scholars (VSCS)** is an interactive online STEM learning experience for 10th grade students highlighted by a seven-day residential summer academy at NASA Wallops Flight Facility focusing on the current missions at Wallops. Learn more about VSCS at <http://vsgc.odu.edu/spacecoast/>. **Course application OPEN UNTIL October 17, 2021.**

The **Virginia Aerospace Science and Technology Scholars (VASTS)** is an interactive online STEM learning experience for 11th and 12th-grade students, highlighted by a seven-day residential summer academy at NASA Langley Research Center focusing on human spaceflight. **Students can earn up to five free dual enrollment college credits.** Learn more about VASTS at <http://vsgc.odu.edu/VASTS/>. **The application OPEN UNTIL October 24, 2021.**

The **Virginia Earth System Science Scholars (VESSS)** is an interactive online STEM learning experience for 11th and 12th-grade students, highlighted by a seven-day residential summer academy at NASA Langley Research Center focusing on the Earth's responses to climate changes, weather, and natural hazards. **Students can earn up to five free dual enrollment college credits.** Learn more about VESSS at <http://vsgc.odu.edu/VESSS>. **The application OPEN UNTIL October 24, 2021.**

Thank you and best wishes.

Mary Sandy
Director
VIRGINIA SPACE GRANT CONSORTIUM
600 Butler Farm Road, Suite 2200
Hampton VA 23666
757.766.5210
aphill@odu.edu

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 is an (STEM) on-line learning experience featuring five modules. Upon completion of the on-line program, a competitive selection process will identify top performing scholars who will be invited to attend a seven-day residential summer academy at NASA Wallops Flight Facility on the Eastern Shore.

Virginia students must be a U.S. Citizen or legal permanent resident to attend the Summer Academy.

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



Applications open August 15, 2021
Closing October 17, 2021



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 three 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.

VIRGINIA
SPACE GRANT
CONSORTIUM



The material contained in this document is based upon work supported by a National Aeronautics and Space Administration (NASA) grant or cooperative agreement. Any opinions, findings, conclusions or recommendations expressed in this material are those of the author and do not necessarily reflect the views of NASA.

APPLICATION
OPENS:

AUGUST 15

CLOSES:

OCTOBER 24

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/

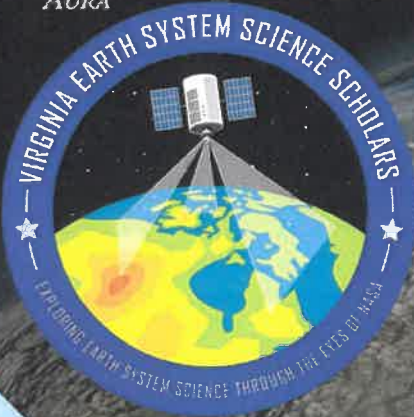
CLOUDSAT

CALIPSO

AQUA

PARASOL

AURA



It's not always rocket science.
Explore another side of NASA!



VIRGINIA EARTH SYSTEM SCIENCE SCHOLARS (VESSS)

This **FREE** program awards **high school juniors and seniors up to five transferable college credits** through engagement in a NASA-developed course using an Environmental/Earth Science theme. The on-line course develops skills across a range of science, technology, engineering and mathematics (STEM) and is aligned with the Virginia Standards of Learning. Scholars selected from the on-line course may be invited to participate in a **FREE** seven-day residential Summer Academy at NASA Langley Research Center.

ON-LINE COURSE

VESSS engages students in authentic investigations of the Earth's dynamic natural systems by using the latest data and research techniques employed by NASA's own Earth Science missions. Students interested in analyzing the role of natural and man-made changes in natural hazards, climate variability, and weather patterns will find the course especially engaging! The on-line VESSS course is offered for dual enrollment (GOL 105, 4 credits) through Thomas Nelson Community College (TNCC).

RESIDENTIAL NASA SUMMER ACADEMY

Participants in the **FREE** seven-day Summer Academy will collaborate in a team setting to plan a hypothetical satellite mission designed to address a gap in our current scientific understanding of Earth's complex systems. Facility tours on-center at NASA Langley, accomplished guest speakers, and direct mentoring by NASA scientists and engineers ensure an unforgettable week! Students may earn one additional college credit in Independent Research (TNCC GOL 199) by completing the Summer Academy.

- Design a simulated satellite mission
- Enjoy mentoring by NASA scientists/engineers
- Tour NASA facilities
- Open the door to a world of internships and career possibilities at NASA!

Contact: Joyce Corriere
jcorrier@odu.edu

More info: vsgc.odu.edu/VESSS



Application Information

Opens: August 15, 2021
Closes: October 24, 2021



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