

Virginia Earth System Science Scholars



About The Program

The VESSS program challenges the next generation of scientists and engineers to become part of the solution to one of the most significant issues faced by society - climate change and its global impacts. While working with some of the world's leading authorities on climate change issues, the course develops skills across a range of science, technology, and mathematics (STEM) careers. During the summer academy, at NASA's Langley Research Center, facility tours, accomplished guest speakers, and direct mentoring by NASA scientists and engineers ensure an unforgettable week while designing a satellite mission to study climate change. The program is free of charge to selected students.

On-line Course

In the online portion, a free transferable, four-credit GOL 105 dual enrollment course, offered through Virginia Peninsula Community College (VPCC), engages the student in real-world investigations of the Earth and its systems using the latest research and data from NASA. Students develop an understanding of the Earth's responses to both natural and man-made changes to the climate and the impacts of these changes on global society. Examples of topics discussed are sea-level rise, glacial melt, and global temperature changes using NASA's major Earth Science missions. In addition, topics address how the global Earth System is changing, how the Earth System will change in the future, and the causes of these changes.

Residential NASA Summer Academy

Students selected to participate in the free seven-day Summer Academy are immersed in designing a hypothetical mission to study Earth's major spheres and how the spheres are interconnected. While there, they will meet scientists and engineers leading the research on the global impacts of climate change. Students can earn additional transferable credit in Supervised Studies (GOL 199).

Let's work towards making our Earth a better place. Sign up for VESSS for your NASA experience. Visit <https://spacegrant.net/apps/?pk=vesss> to apply.

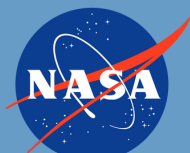


Applications Open:
August 15 —October 26

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vsgc.odu.edu/vesss

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