



UNITED STATES
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USAFA K-12 STEM Outreach Program Newsletter

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United States Air Force Academy and Air Force STEM Webpages

<https://www.usafa.edu/stem-outreach/>

<http://www.usafa.af.mil/>

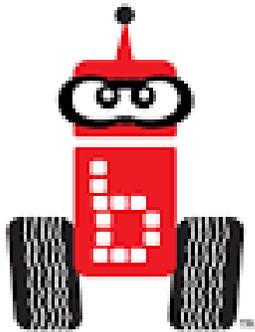


QR Code for USAFA K-12 STEM Outreach page

Free 10 year Old Summer STEM Camp

A free, energy themed summer day camp for 10 year olds will be held at USAFA on June 1-4 from 8:00-1:00PM. Students must be 10 years old on June 1st. Registration runs from Feb 21- March 31. Students need to complete an application and provide two reference letters. Acceptance and non-acceptance emails will be sent in April. Email Sandy Lamb for the application and reference letter format at sandra.lamb.ctr@usafa.edu.

Expanding Botball Robotics in the Pikes Peak Region



We are excited to bring Botball to the Pikes Peak Region. This is a great opportunity to teach 6-12th grade students coding! Botball robots are autonomous and students learn to program in C and other compatible languages. The KISS Institute has full and partial scholarships available to cover the \$2,500 robotics kits. Interested coaches and team members will receive free training workshops at King Elementary School on March 21-22 from 8:00-3:00PM. Complete an application and email Jackie Kablean if you plan to attend training at krableanj@wsd3.org. A Botball

Tournament will be held May 9th at King Elementary. Botball is fun and exciting! Check out the many YouTube Botball videos.

Access the Botball application at <https://www.kipr.org/botball/what-is-botball/botball-team-scholarship-application> Direct questions about the Botball program to Carol Goodgame at 1-617-997-3621 or visit www.kipr.org <<http://www.kipr.org>> for more information.

****The next 3-5th grade Junior Botball Challenge (JBC) will be held at the 21C Library on May 22 from 10:30-3:00PM****

Young Women's STEM Day at USAFA

On Saturday, April 18th from 8:00-4:00PM, 70 girls in 6th-12th grade will engage in an action packed day of STEM activities. This event is a partnership between the Society of American Military Engineers (SAME) and USAFA faculty members. Activities include: architectural, rocketry, chemistry, biology and physics activities and tours of Cyber City and the Aeronautics Facility. Registration begins on March 1st. Email Sandy Lamb @ sandra.lamb.ctr@usafa.edu for the registration link.

USAFA K-12 STEM Outreach Mission

The United States Air Force Academy Science, Technology, Engineering, and Math (STEM) Outreach Program mission is to offer a variety of programs and services that effectively engage, inspire and attract the next generation of STEM talent.

USAFA Office of Research

DFRO Mission

Execute today's research in order to develop leaders for tomorrow's battlespace

Vision

Be the catalyst for innovation supporting all institutional research, brokering key associations, and developing officers of character

for the Air Force

Contact Us

Lt Col Chris McClernon
Associate Dean for Research
719.333.4195

Mr. Rick Rogers
DFRO Deputy Director
719.333.4195

Sandy Lamb
STEM Outreach Coordinator
719.333.8990
sandra.lamb.ctr@usafa.edu

Astronaut Adventures Event

3, 2, 1 BLASTOFF! This was the phrase that 420 K-12th grade students and chaperones heard while attending an Astronaut Adventures event at the Air Force Academy on February 6th. Students were divided by age groups and experienced three fun and informative sessions.

Astronaut Nick Hague spoke to students in the USAFA Planetarium and shared his experiences aboard the International Space Station. He stressed the importance of persevering through failure and holding on to one's dreams. He communicated the excitement of working with scientists and engineers from around the world and discussed his spacewalk experiences. Students watched a video called "Astronaut" which enlightened them about the human physiology of space travel and the many dangers that astronauts prepare for during their many years of training. Col Hague also shared video footage from the International Space Station. Following the videos, students asked Col Hague many questions and were appreciative of his thoughtful answers.

Former astronaut Duane Carey spoke to students about his experiences piloting the Space Shuttle Columbia and making repairs to the Hubble Telescope. He explained to students that he was a struggling student in school but kept working to achieve his dream of becoming an astronaut. He shared photos and video clips of eating, sleeping, exercising and conducting experiments while in space. This session also included a Q&A session and audience members weren't bashful with their questions.

The third session featured Ms. Stacey Lazzelle's rocket fuel demonstrations and discussion about physiological aspects of going into space. Loud booms and bright flashes of color dazzled the audience. Students and adults were eager participants in this session.

Northrup Grumman was a generous supporter of this exciting community event.

