



UNITED STATES
AIR FORCE ACADEMY

USAFA K-12 STEM Outreach Program Newsletter

May 2018

Volume 2, Number 2

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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/>

<https://afstem.afciviliancareers.com/>



QR Code for USAFA K-12 STEM Outreach page

Department of Defense FIRST Robotics STEM Grants

FIRST is a non-profit organization that has developed four robotics leagues for students ranging from 1st to 12th grades. The four leagues are: FIRST LEGO League Junior (FLL Jr) for 6-9 year olds, FIRST Lego League (FLL) for 9-14 year olds, FIRST Tech Challenge (FTC) for middle and high school students and FIRST Robotics Competition (FRC) for high school students. Teams consisting of 5-10 students are posed with a challenge and then build and program a robot to complete it. Local competitions occur between October and March. For more information visit www.firstinspires.org.

Each Spring, the Air Force Academy has the opportunity to recommend approximately 15 teams for a Department of Defense FIRST Robotics STEM grant. For teams that have never participated (called rookie) the grant may cover the following: Jr. FLL- team registration and/or a team kit, FLL - team registration and/or a field set up kit or a robot kit, FTC - a team registration, Matrix or Tetric competition kit, and for FRC - one team registration and/or a kit of parts. For veteran teams any combination of the following may be provided: Jr. FLL- registration and a base kit, FLL - registration and a field set-up kit, FTC - registration and veteran electronic module and sensors kit, and for FRC - partial team registration. Grant recipients will be notified of the exact award.

The top 15 applications received will be recommended to the Department of Defense FIRST STEM Robotics point of contact. Being a former grant recipient does not guarantee continued recommendation. If you would like to be considered for this year's recommendation please complete the attached application. Submit applications to Sandy Lamb by May 30th at sandra.lamb.ctr@usafa.edu.

Data Collection Tools

If you benefitted from a STEM Friday or from the USAFA Lending Library this year and have not completed a survey yet, please do so. Surveys help inform future STEM Outreach decisions. Your feedback is very much appreciated. Send attached forms to sandra.lamb.ctr@usafa.edu.



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.

Contact Us

USAFA Office of Research

The Office of Research strives to build a positive relationship with K-12 students and educators and encourage recruitment/growth of future cadets to develop skills implicit to national security and the nation's competitive edge.

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Legacy Camp Update

We have 60 incoming 6-10th grade students participating in our summer STEM Camps. These students represent 35 different schools from 4 states. Many thanks to teachers who wrote letters of recommendation. Registration for the 2019 Legacy Camps opens next January.



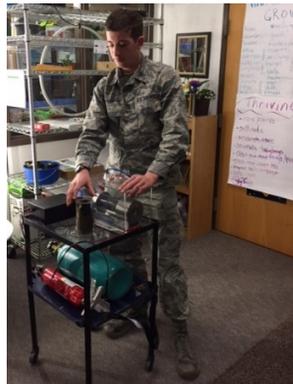
2018 Warrior Games

USAFA is hosting the Warrior Games June 1-9. Warrior Games are an adaptive sports competition for wounded, ill and injured service members and veterans. Adaptive sports and athletic reconditioning activities play a fundamental role in the successful recovery and reintegration of our service members and veterans. The Warrior Games are free and open to the public. Approximately 250 competitors representing teams from the Army, Marine Corps, Navy, Air Force, and U.S. Special Operations Command (SOCOM) will participate in the competition. They will go head-to-head in 11 sports including archery, cycling, indoor rowing, volleyball, shooting, swimming, powerlifting, wheelchair basketball, track and field. You can access the schedule at this site:

<https://dodwarriorgames.com/schedule/>

STEM Club Cadets Support Local Events

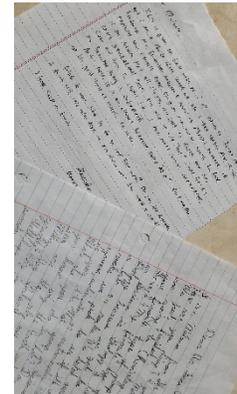
The USAFA STEM Club supports a variety of evening and weekend STEM Events.



CIC Robbie Pothoff demonstrates a hybrid rocket at a teacher workshop.



C4C Hanna-Lee Harjono and C4C Camila Hilsaca build straw bridges with Kilmer Elementary students.



Cadets wrote hundreds of Science Pals letters to local students.