



UNITED STATES
AIR FORCE ACADEMY

USAFA K-12 STEM Outreach Program Newsletter

January 2019

Volume 2, Number 7

In This Issue

Registration for FREE USAFA Legacy Craftsman Camps

Seeking 10th Grade Legacy Camp Teacher

Looking for Additional Junior Botball Coaches

Free 10 Year Old Summer STEM Day Camp

STEM Lending Library

Registration for FREE Summer USAFA Legacy Craftsman Camps for 11-15 Year Olds Opened January 1st / Registration Ends March 1 (June 3-7 for 11-12 year olds and June 10-14 for 13-15 year olds)

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/>

AIR FORCE STEM INNOVATION NATION

Target Candidates
Not Requirements

- First-generation college
- Involved in extracurricular activities
- School underserved in STEM
- Qualify for free/reduced lunch
- Underrepresented in STEM careers
- Minority (gender, race)
- Overcoming challenges hindering academics
- Military dependents

Visit our website to apply:
<http://wpafbstem.com/pages/legacy.html>



QR Code for USAFA K-12 STEM Outreach page

Seeking 10th Grade Legacy Camp Teacher

USAFA STEM Outreach is seeking a 10th grade Legacy Camp Teacher for the June 10th-14th Camp. The person must have high school teaching experience, have excellent computer skills and have experience with drone building and Raspberry Pi. If interested, send a resume to Sandy Lamb at sandra.lamb.ctr@usafa.edu.

Looking for Additional Jr. Botball Coaches

Junior Botball is an exciting robotics 4th and 5th grade challenge that teaches students C and C+ programming. Training is provided for coaches and your school receives the robot and a year's registration fee for free! The competition will take place on May 7th. There are spots left for 5 schools. Consider the opportunity to teach elementary students an important computer language! Contact Sandy Lamb by February 15th if interested.

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.

Lt Col Donald Rhymer
Associate Dean of Research
719.333.4195

Mr. Rick Rogers
DFRO Deputy Head
719.333.4195

Sandy Lamb
STEM Outreach Coordinator
719.333.8990
Sandra.Lamb.ctr@usafa.edu

Free 10 Year Old Summer STEM Day Camp

4th or 5th grade teachers are encouraged to nominate students that demonstrate a high interest in STEM areas for a free weeklong USAFA STEM Day Camp held June 3-7. Students must be 10 years old by the camp start date. Two letters of recommendation are needed. To receive the application form and reference letter format, contact Sandy Lamb @ sandra.lamb.ctr@usafa.edu. Registration closes on March 1st.

STEM Lending Library

Check-outs and returns are on Wednesday and Thursday afternoons at 4:00PM. Depending on availability, items may be checked out for 6-8 weeks. Email Sandy Lamb for check-outs at sandra.lamb.ctr@usafa.edu.

(2) 2m Air Tracks



2 Pitsco Straw Rocket Launchers



(12) Breakout Boxes



3 Straws and Connector sets



4 Funflakes sets



2 Makedo Cardboard Construction Kits



Ozobot Classroom Set



(8) WeDo 2.0



(18) Cubelets



(10) Mindstorms EV3



(14) Code-a-Pillars



(6) SPRK+ & (10) Bolts



(12) Ollies



(3) BB-8



(10) Snap Circuits

(7) Little Bits



(14) Keva Contraptions



(6) Dash & Dot Wonder Packs



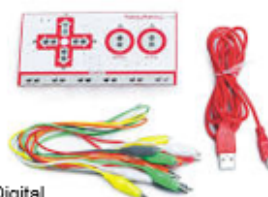
(2) Beebot Class Bundles



(7) LabQuest 2



(14) Makey Makey Kits



(20) Molymod Molecular Model Sets



(5) Compound Microscopes



(7) Pluggable Digital Microscopes with prepared slides



(8) iPad Air 2 in shockproof cases for programming WeDo, Mindstorms, Spheros and Ozobots

(6) Rube Goldberg Kits



(1) Dewar Flask for Liquid Nitrogen



(2) Portable wind tunnels



(1) Element Flashcards



5 volume *Chemical Demonstrations* by Shakhshiri



(1) Transform Infrared Spectrometer



(1) Element Sample Set



Chemistry Kits:

Chemical Reactions Kit: What is this Powder?

Chemical Reaction Mania Kit

Controlling a Chemical Reaction