

## In This Issue

Registration for USAFA  
Sponsored STEM  
Bootcamp April 1st

Win a Thermo Scientific  
Spectrometer

USAFA Sponsored  
Middle School STEM  
Events

## United States Air Force Academy and Air Force STEM Webpages

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

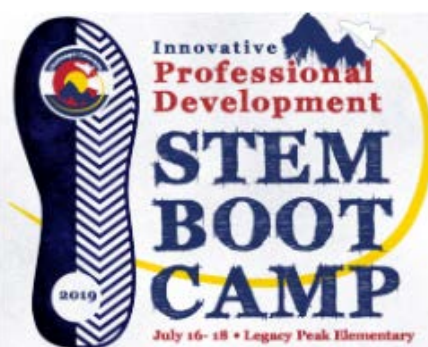
<http://www.usafa.af.mil/>

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



QR Code for USAFA K-12  
STEM Outreach page

## Registration for USAFA Sponsored STEM Bootcamp April 1st



STEM Bootcamp is a professional development program organized and delivered by the Challenger Learning Center of Colorado to improve STEM teaching skills for southern Colorado educators. It is funded by the Air Force Academy and the Mikkelson Foundation. This year's STEM Bootcamp will be held July 16-18 at Challenger's new facility and Legacy Peak Elementary – 8701 Wolf Valley Drive, Colorado Springs. K-6<sup>th</sup> grade teachers are encouraged to register beginning April 1<sup>st</sup> at 5:00PM. Bootcamp fills up quickly, so register early!

## Win a Thermo Scientific Spectrometer!

Local middle and high school teachers have a chance to win a Thermo Scientific SPECTRONIC 200 visible spectrophotometer for their classrooms! These spectrometers are durable, easy to use and great for quantitative and qualitative analysis. Through a grant from the Mikkelson Foundation, four schools will be selected to receive a spectrometer after a required day-long workshop at the Air Force Academy. During the workshop, teachers and students will learn about proper care and handling of the equipment, spectroscopy in general and the machine's use in chemical analysis. Participants will engage in a series of "canned" experiments which will allow them to become comfortable with the spectrometer. A portion of the workshop encourages students and teachers to design and execute their own experiments. As a final project, participants from recipient schools will submit a short paper describing the experiments they've completed and plans for future spectrometer use. The proposed dates for the workshop are either Saturday, 5 October 2019 or Saturday, 19 October 2019. Please send the information below to Dr. Ron Furstenau at [furstrp@gmail.com](mailto:furstrp@gmail.com) by 1 May 2019. Winners will be contacted via email by 15 May 2019.

Name:

Email address:

School:

Grade levels for which the spectrometer will be used:

Do your students currently use a visible spectrometer?

Courses for which the Spectronic 200 will be used:

Labs for which the Spectronic 200 may be used:

- Example: AP Chemistry - kinetics of the decomposition of blue dye in bleach

- Example: 6<sup>th</sup> grade science - measure the amount of blue dye in Powerade vs Gatorade

Estimated number of students impacted over the course of a year in each course:

Any additional information you'd like to provide that might aid us in the selection process:



## 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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## USAFA Sponsored Middle School STEM Events

Dr. Kimm De La Harpe, associate physics professor, and 40 female cadets recently supported a Girls in the Middle event in La Junta. Female cadets volunteered to lead stations pertaining to zoology and ecology, light and electricity, music, slime, computer programming and robots, light and optics and ice cream. Approximately 180 middle-school girls attended the event.



112 girls attended a Western Slope Girls in STEM Conference. Girls were from 17 schools, 5 towns and 5 districts in western Colorado. Many Girl Scouts attended as a way of earning their STEM badges.

