



Email Newsletter

ETSU Summer Institute for High School student



Enroll Now for June 3- 21, 2024, space is limited

www.etsu.edu/applied-stem

Offering two programs for high school students

Applied STEM Foundations – 3 weeks (June 3- 21)

Applied STEM foundation is a **3-week** experiential program that covers, computing, digital media, engineering, and other STEM concepts. The program is for high school students to explore interest in a STEM major. The focus will be on ETSU's programs (new and existing), Mechatronics, Digital Development (TBD), Engineering Technology, Digital Media, and Computing. The three-week programs will expose students to selected STEM-related programs offered at ETSU. Each week students will be allowed to explore areas and careers in STEM through the use of classroom lectures, various field trips, and speaker presentations.

Capstone Project plus,

Field Trips to the observatory, Medical School, Simulation labs, and obstacle course. See STEM in action



1. Cost - \$25
2. 9 am– 3 pm. Lunch provided
3. For more info email roache@etsu.edu (Dr. Evelyn Roach)
Dr. Keith Johnson
(johnsonk@etsu.edu)

Enroll in a program that may lead to earning college credit while in high school

Environmental Health Lab

Experience – 1 week (June 3- 7)

Students will work with two of the department's outstanding faculty to explore concepts in environmental and occupational health and safety science. The program offers students the opportunity to conduct, well water simulation and stream water sampling and characterization; measurement of indoor air quality; and other hands-on activities in the lab; as well as learn how environmental health impacts what we eat and drink.

Program Objectives

- Facilitate students' understanding of the skills needed to succeed in a STEM major.
- Promote student exploration of STEM concepts, careers, and major development in STEM.
- Facilitate students working collaboratively in diverse teams, valuing and leveraging individual strengths to achieve common goals.
- Help students develop personal and professional goals, identifying potential career paths within STEM and mapping out steps to achieve them.

Explore how development in STEM impacts non-traditional STEM fields and is changing our world.

1. What is your story, hear presentations on how to incorporate storytelling into design
2. Celebrate -Ability and advancement in STEM
3. Take a Biology break with Dr. Jones



Program Structure

Students will be in the classrooms in the morning and will engage in hands-on activity in the afternoon. The activities are designed to take the classroom outside. Each activity will have a fun component tied to a learning component.

Capstone Presentation

Students will have the opportunity to showcase what they learn. Work will be judged by experts and prize maybe awarded in several categories.

Classroom lecture with faculty from Computing, Digital Media, Engineering and Environmental Health

Featured Presenters



Lauren started her career at the National Governors Association in Washington, DC, where she fell in love with disability policy after being assigned staff to Delaware Governor Jack Markell's initiative, "A Better Bottom Line: Employing People with Disabilities."

Lauren Pearcy, Executive Director - 615.741.5019 | lauren.j.pearcy@tn.gov
TN Council on Development Disabilities



Dr. Jones' research interests include areas of animal behavior, ecology, population genetics, and neuroethology. Dr Jones takes a multifaceted approach to his work including computer modeling, field and laboratory experimentation, and using molecular markers to analyze the genetic structure of populations.

Dr. Thomas C. Jones (jonestc@etsu.edu)
Professor of Biological Sciences, ETSU
Tel: 423-439-6930



Dr. Buerkle's research and teaching focus on rhetoric, the study of public messages. He started teaching because he love the life of the mind. Studying communication has changed the way Dr. Buerkle sees and approach the world and teaching lets him share that passion with others.

Dr. C. Wesley Buerkle (buerkle@etsu.edu)
Professor & Interim Chair
Department of Communication Studies & Storytelling
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