

STEM-E SESSIONS HIGH SCHOOL STUDENT CONFERENCE Friday, October 2

Session	Location	Presenter
Sparking Innovation: Intro to Arduino Circuits Dive into electrical engineering with Arduino! Build functional circuits using LEDs, resistors, sensors, and buzzers. Discover how real-world programming impacts daily life while exploring exciting, high-tech careers in electronics and computer science.	BURRELL 102 B	BETABOX LEARNING  Rachael Scheatzle STEM Instructor & School Success Manager betaboxlearning.com
The NC Arboretum - Step into the Role of a Wildlife Scientist Ever wondered how scientists keep track of the animals that live among us? Meet a live animal ambassador up close and explore to make your own discoveries-how to spot, observe, & share your findings with scientists to help protect your local wildlife!	303 Burrell 3rd Floor Elevator	 Trudie Henninger, M.S. Education Outreach Manager thenninger@ncarboretum.org
Immunoassay Investigation Ever wondered what it's like to work in a lab? Learn micropipetting techniques for measuring liquids, then use your new skills to conduct an immunoassay test to identify unknown proteins. Engage in hands-on science & testing by professionals in the field	102 C Burrell	 Lily Dancy-Jones, M.S. Western STEM Outreach Coordinator office: (828)782-2322 cell: (252)258-0541 ldancy-jones@ncbionetwork.org www.ncbionetwork.org/stem-outreach

STEM-E SESSIONS HIGH SCHOOL STUDENT CONFERENCE Friday, October 2

Drones-Take Flight! Take flight! Discover the ethics of drone technology and how these tools power real-world search and rescue missions. Then, team up with your peers to fly a drone yourself in this hands-on, STEM engineering workshop with experts.	SCC Gymnasium	Scott Freeman, CCS CTE Drone and Computer Programming
BOT vs. Border: The Maze Runner Challenge Students will design and build their own mazes, incorporating turns, obstacles, and different terrain challenges. Once their mazes are complete, students will program their robots to successfully navigate the course from start to finish. As they test and refine their designs, students will practice problem-solving, coding, engineering design, and troubleshooting while adapting their robots to overcome increasingly challenging obstacles.	SCC Gym	 Gretchen A. Dietz, Ph.D., Director and Assistant Professor Engineering Discovery Program College of Engineering and Technology gdietz@wcu.edu
Discover Predicting Weather! Discover how we track nature's forces! Through demos, discussions, and hands-on challenges, you'll explore how weather data is collected and analyzed to predict everything from a sunny afternoon to a major storm using weather stations & instruments.	102 D Burrell	North Carolina Institute for Climate Studies <i>NCSU Research Team</i>  https://ncics.org/ 151 Patton Avenue Asheville, NC 28801
Blast off with the NC Children's Mobile Museum! Explore 9 hands-on exhibits featuring planetary science, robotics, optics, and geology. Solve space puzzles, build engineering skills, and Talk with expert STEAM educators to discover real-world science communication.	Burrell Parking Lot Students may come by and experience the museum until 12:30! Come during Lunch break!	Caleb Riggs Mobile Museum Manager North Carolina Children's Museum 919-933-1455 https://northcarolinachildrensmuseum.org/