

STEM-E SESSIONS Middle School Sessions Thursday, October 1

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!	Outside Burrell Parking Lot under Eaves	 Trudie Henninger, M.S. Education Outreach Manager thenninger@ncarboretum.org
Gown Up! Gowning is a common practice used to prevent contamination during manufacturing. In this activity, students will have an opportunity to dress up just like industry professionals. Students will discuss the diversity of careers and the importance of biotechnology in North Carolina.	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

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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 Bradford HALL	DRONE Instructor Scott Miller, JCPS SME STEM Instructor
Robot Races & Chariot Challenges Students will have a blast exploring technology and engineering with Sphero robots! They'll learn how to control and program these small robots while working in teams to design and build their own chariots. Then, it's race time!	SCC Gym	 Gretchen A. Dietz, Ph.D., Director and Assistant Professor Engineering Discovery Program College of Engineering and Technology gdietz@wcu.edu
Step into a Meteorologist's Shoes! Explore weather stations and tools like anemometers with NCSU's Research Team. Learn about	102 D Burrell	North Carolina Institute for Climate Studies NCSU Research Team  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/