



**“31 Wonderful Years of STEM Education” Camp**

The 4-H Electric Camp will be held June 27 – June 30, 2022 on the University of Tennessee, Knoxville campus. At this exciting camp, you will explore the world of energy, electricity, energy conservation, electrical safety and other basic sciences in fun-filled, "hands-on" learning activities. This year's learning activities include:

**Wiring an Extension Cord** - This learning center will teach you some basic wiring techniques that are used by electricians’ every day. You will have the opportunity to demonstrate what you have learned by wiring up an extension cord with USB charging capabilities which you can take with you to use in your home.

**Biomimetic Robot** - Students will learn about the engineering design process, biomimetics, and robotics while building a biomimetic robot (a robot inspired by nature).

**Robotics** - Robots were once only seen in science fiction movies; however, today robots are used to do many tasks. In this learning center you will see the latest robot technology and then try your hand at programming a robot to perform a specific task.

**Home Energy Conservation** – We use electricity to light our home, cook our food, play music, and operate televisions. But as we use more electricity in our homes, our electric bills rise. In this activity, you will learn how conserving electricity in your home not only helps to lower your electric bill but also helps to conserve our environment.

**Electric Vehicles** – Many car manufacturing companies today are producing electric vehicles (EVs). Some EVs have a battery instead of a gasoline tank, and an electric motor instead of an internal combustion engine to power the vehicle. Others use a combination of a gasoline and an electric motor to power the vehicle. In this learning center, you will learn about the latest technology in electric vehicles

**Electrical Safety** – Electric power does a tremendous amount of work for us; but, because it is such a powerful force we must be careful around it. This learning center will teach you how to play it safe around high voltage power lines.

In addition to learning about energy, electricity and basic sciences, you will also participate in many other fun-filled activities associated with 4-H Camp. This year's program highlights include:

<b>Monday, June 27</b>	<b>Tuesday, June 28</b>	<b>Wednesday, June 29</b>
Arrival	Breakfast	Breakfast
Registration and Orientation	Learning Centers	Learning Centers
Swimming	Lunch	Lunch
Dinner	Trip and Dinner at Dollywood	Swimming
Opening Assembly and Recreation		Pizza Party
		Final Program
	<b>Thursday, June 30</b>	Swim Party and Dance
	Depart for Home	

**Registration:**

1:00 - 3:00 p.m. (EDT) Monday, June 27.

**Adjournment:**

8:00 a.m. (EDT) Thursday, June 30.

**Cost:**

The cost to attend the 4-H Electric Camp is \$300.00. This fee includes your dorm room, meals, admission to Dollywood and other activities. Please make your check payable to The University of Tennessee and return with your registration card.

**Who Can Attend:**

The 4-H Electric camp is a fun-filled, rewarding adventure in electricity for girls and boys enrolled in the 6<sup>th</sup> and 7<sup>th</sup> grades. 4-H members who attended camp as a 6<sup>th</sup> grader **are eligible** to return as a 7<sup>th</sup> grader.

**Transportation:**

Your County Extension agent will provide you with information as to the arrangements made for the transportation of you and others from your region to the 4-H Electric Camp. Transportation to the camp is furnished by sponsors of the camp.

**Health Service:**

Campers will be covered with a limited amount of sickness and accident insurance from the time they leave home until they return. Services of doctors will be available in Knoxville. In case of emergencies, we will follow the policy and information on Form 600A. Be sure it is complete and accurate. Precautions to safeguard campers will be taken but UT Extension cannot be responsible for accidents.

**What to Bring:**

Sheet and blanket or sleeping bag	Comfortable shoes
Towel and washcloth	Raincoat, umbrella
Soap, toothpaste, etc.	Swim wear
Appropriate clothing (sports clothes in good taste will be appropriate for most of the conference. No cut offs, tank tops or short shorts please!)	Work-type clothing to wear when working in your hands-on learning centers

**Visit the 4-H Electric Camp Web site at:**

E12-4315-00-001-22

Programs in agriculture and natural resources, 4-H youth development, family and consumer sciences, and resource development.

University of Tennessee Institute of Agriculture, U.S. Department of Agriculture and county governments cooperating.

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