Forestry, Wildlife and Fisheries

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For more information, contact:
Jennifer Richards, Curriculum Specialist, University of Tennessee Extension
Sharon Jean-Philippe, Associate Professor of Urban Forestry, Department of Forestry, Wildlife and Fisheries, University of Tennessee
Augustin Engman, Assistant Professor of Fisheries, Department of Forestry, Wildlife and Fisheries, University of Tennessee
Destiny Brown, Graduate Assistant, University of Tennessee

Forestry

- Identify the parts of a tree: limb, branch, root, leaf, trunk.
- Define the following terms: conifer, deciduous, fragmentation.
- List common components of soil.
- Describe the role that each of the following plays in soil: carbon, oxygen, nitrogen and phosphorous.
- Create a visual presentation of the life cycle of both conifers and deciduous trees across all four seasons.
- Compare and contrast a growing tree and a dormant tree.
- Identify direction and linear distance by using a compass and pacing.

Wildlife

- Define the following terms: wildlife, community, species, habitat, prey, predator, food chain and species diversity.
- List the characteristics of each of the basic groups of animals: mammals, fish, birds, reptiles, insects and amphibians.
- Understand that different animals require different types of habitats to survive, but all habitats include food, cover, water and room for the animal to live.
- Describe a common habitat for a given species.
- Describe the role species diversity plays in an ecosystem.
- Determine which wildlife animal finds their food, cover and water in the backyard setting.
- Identify common wildlife species of Tennessee and the food they eat.
- Recognize bird calls.
Forestry, Wildlife and Fisheries Beginner Outcomes

**Fisheries**

- Identify the basic parts or anatomy of a fish.
- Classify various bodies of water as either salt or fresh (oceans, seas, lakes, rivers and canals).
- Identify different species of fish found in your region of the state.
- Diagram the life cycle of a given fish species – egg, larval, fry, juvenile, adult, spawning.
- Define five common capture methods of fishing.
- Label the basic parts of a fishing rod.
- Identify types of bait used for various fishing techniques.
- Demonstrate safe practices when fishing.

**Careers in Forestry, Wildlife and Fisheries**

- Research a specific career in forestry, wildlife or fisheries.
- Research the skills and education needed to pursue a career in forestry, wildlife or fisheries.