

# North Shore Community College “Kids to College” Program

## Discovering the Science in Nature, Saturdays, Feb 15 to March 15

For details or to enroll, contact Nancy Tracy, Youth Programs  
ntracy@northshore.edu 978-236-1232



### About This Course

Each session is based upon math, language and science concepts and designed with a flexible nature that allows participants to reach their highest potential. Read the short descriptions below to learn about the different areas we will be focusing on each week.

#### Week 1: Introduction

Our first class will bring the Equine Discovery Center (EDC) Mobile Classroom to the NSCC



to introduce some of the animals to our class. The animal ambassadors will provide reference for all of our topics. The adventurers will begin to link concepts together such as, horse, blacksmith, and transportation. These three words will help us discuss anatomy, history, and technology.

#### Week 2: “The Knee Bone’s Connected to the...”

The skeleton is a framework for all mammals, but do all mammals have the same frame? Does a horse have a knee? How about an elbow? This module will have us comparing and contrasting skeletons of different types. We’ll also learn about calcium: What is it? Where do we get it? Does our skeleton need it?

#### Week 3: Home Sweet Home

New England is home to a wide variety of animal species and plants, living in many different settings: woods, marshes, meadows. We will be looking at the different habitats of animals native to our area. We will discover what “home” means to native birds, mammals, amphibians, reptiles, and even insects.



#### Week 4: Water, Water, Everywhere

The Earth is comprised of:

- a. 10% water
- b. 28% water
- c. 55% water
- d. 71% water

As explorers, we will search out water sources and collect samples. We will look into a drop of water and spy on the microscopic animals that reside in the tiny world. We will learn about potable water (what is it?), why humans can’t drink salt water and whether all animals drink H<sub>2</sub>O.



*Answer: If you picked ‘d’ – 71% water – you are correct.*

#### Week 5: Can’t Get There From Here

“Excuse me, could you tell me how to get to ...?”

Before computers, before GPS – how did we navigate? Where did we get directions? How did we get from Point A to Point B?

The answer: we relied on cartographers. No, a cartographer doesn’t make carts, they make maps. In this lesson, we will learn some basic mapping skills and then set off to make our own maps. We will finish our exploration into cartography with a scavenger hunt – and no relying on Google Maps!

