


# EXPANDING HORIZONS 2017 STEM DISCOVERY PROGRAM

For Grades 3-8

PALM DESERT


One Week: July 24-July 28  
9 a.m.-4 p.m.



9-10 a.m.  
**Check-in, Guest Speakers** 

10 a.m.-11:45 p.m.  
**Ecosystems**

Learn about the intricate systems involved within an ecosystem. Each organism has its own niche, or role to play. Consider a small puddle at the back of your home. In it, you may find all sorts of living things, from microorganisms, to insects and plants. This community of living organisms is dependent on non-living components of the ecosystem like water, sunlight, turbulence in the puddle, temperature, atmospheric pressure and even nutrients in the water or soil. Take a peek into the complex and wonderful interaction of the living and non-living components within their ecosystem environment!

11:45 a.m.-12:15 p.m. **Lunch** 

12:15-2 p.m.  
**Robotics**

An introduction to robotics that will enhance your academic skills for the future. Have a blast and gain hands-on experience in graphical programming, electronics, and robotics. Apply practical STEM skills, use creative problem solving, and participate in challenging activities that encourage a love of science, technology and engineering. Learn scientific principles as they build their robots--engaging their hands and their minds.

2-3:45 p.m.  
**Anatomy and Physiology**

Discover fascinating facts ranging from the major body systems to individual cells. Learn about the inside of the human body, including how the parts of the body all fit and work together. Also learn about the nature of matter and the principles of chemistry that are important to human physiology. Students will explore the organization of the human body, how the nervous system allows us to receive, process, and interpret sensation, the sending of messages to our muscles and glands, how the skeletal and muscular systems make movement possible, and how the circulatory and respiratory systems work together.

3:45-4 p.m. **Daily Wrap** 

**Limited scholarships are available!**

Visit our website for requirements and to apply.

**Note:** The same course topics will be taught for the elementary strand as for the middle school strand, but the content and activities will be grade-level appropriate.

This is a sample schedule. Content may be delivered in a different sequence.

## PROGRAM INFORMATION

**Phone:** (951) 827-1032

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