Biomimicry and Science: Applying Nature’s Strategies introduces students to eco-literacy and design innovation concepts through project-based learning methodologies and by emphasizing real-world applications. At a time when we need sustainable solutions to solve many pressing local and global challenges, researchers are finding that solutions to many of these problems already exist in nature. Biomimicry is, essentially, looking to nature for strategies to solve human challenges. This course introduces students to biomimicry via numerous striking examples, with connections to core content in chemistry, physics, and biology.

Biomimicry and Science: Applying Nature’s Strategies includes:

- **Introduction to Biomimicry**, a lesson that can be used from the launching point of any classroom to orient students to the exciting practice of biomimicry
- **15 unique and engaging biomimicry lessons**—five for each of three core areas: chemistry, physics, and biology
- **A capstone biomimicry design challenge** provides students an opportunity to participate in an international design challenge through The Biomimicry Institute
- **All lessons offered in both English and Spanish** with a range of teaching strategies, including slideshows, videos, activity sheets, assessments, technology tools, extension opportunities, critical thinking cards, and an inspirational poster
- **Alignment** to Common Core State Standards (CCSS), Next Generation Science Standards (NGSS), Cloud Education for Sustainability (EfS) Standards & Performance Indicators, Texas Essential Knowledge & Skills (TEKS), Secretaría de Educación Pública (SEP), and Competencias Universidad Nacional Autónoma de México (UNAM)