



HIGH SCHOOL ENVIRONMENTAL SCIENCE LABS

Wednesdays, September 2-December 2 (no class Sept 23, Nov 25; 12 weeks)

11:15am-12:45pm

Ages 14+

Students discover how Earth's natural systems work as they explore ecosystems, biodiversity, soil, water, air, climate, energy, pollution, conservation and sustainability while developing laboratory techniques, collecting and analyzing data, and applying scientific thinking to solve environmental challenges. A brief review of relevant material starts each lab, followed by a lab period which includes lab preparation, experimentation and clean-up. Lab supplies are included in registration fee.

Instructor: Peyton White, MSc

Location: STEM Lab (suite 21)

Course fee: \$285 OR \$28/lab (plus \$0.99 AH fee)

10% member discount

10% sibling discount

Register for full semester or individual labs.

LAB SCHEDULE:

Scientific Inquiry – Wednesday, September 2

Learn how environmental scientists investigate natural systems by making observations, collecting data and using the scientific method.

Ecosystems and Energy Flow – Wednesday, September 9

Explore how energy moves through ecosystems and how producers, consumers and decomposers depend on one another to maintain ecological balance.

Biodiversity – Wednesday, September 16

Discover how biodiversity supports healthy ecosystems while investigating how populations grow, compete, and respond to environmental changes.

Soil Science – Wednesday, September 30

Examine the physical and chemical properties of soil to understand its critical role in supporting plants, cycling nutrients, and sustaining ecosystems.

Water Quality – Wednesday, October 7

Investigate the importance of freshwater resources by testing water quality and learning how pollution affects aquatic ecosystems and human health.

Climate – Wednesday, October 14

Explore Earth's atmosphere and investigate how greenhouse gases influence weather, climate, and global temperature.

Pollution – Wednesday, October 21

Study the sources and impacts of pollution while collecting and analyzing environmental data.

Renewable and Nonrenewable Energy – Wednesday, October 28

Compare renewable and nonrenewable energy sources while investigating how engineering and technology can improve energy efficiency and sustainability.

Waste Management and Recycling – Wednesday, November 4

Analyze how reducing, reusing, recycling, and composting help conserve natural resources and minimize the environmental impacts of waste.

Human Impacts – Wednesday, November 11

Examine how habitat loss, pollution, and human development affect ecosystems while exploring strategies for conservation and habitat restoration.

Environmental Toxicology – Wednesday, November 18

Investigate how pollutants move through food webs and learn how bioaccumulation and biomagnification can impact both wildlife and human health.

Sustainability Challenge – Wednesday, December 2

Apply environmental science concepts to design practical, sustainable solutions that address real-world environmental challenges in local communities.

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