

## **Environmental Science I**

### **RCAS Policies/Procedures:**

Students will be required to follow all RCAS policies and procedures. To view the RCAS High School Student Handbook, click [handbook](#).

### **Course Description:**

Do you love the great outdoors? Are you passionate about the environment? Environmental Science is a course that enables students to develop an understanding of the natural environment and the environmental problems the world faces. Students will participate in projects that will explore opportunity to manage, conserve, and preserve our natural resources. This semester will establish foundational knowledge around environmental science, ecology, and population dynamics.

**Textbook:** Environmental Science: Your World, Your Turn, Saavas Science

### **Required Resources:**

**“Limited Choice” Resources:** (students will be asked to choose at least one title from this list)

### **Student Choice:**

Will student be asked to choose additional reading material from the classroom or school library?

Yes

## **Essential Questions:**

What are the structure and function of ecosystems?

What are the major biomes of the Earth?

What biodiversity is associated with the major biomes of Earth?

What are common dynamics of species populations?

What factors affect human populations?

What are common consequences of human population growth?

What approaches address overpopulation?

## **Essential Learning Intentions:**

Student can analyze feeding relationships within an ecosystem/biome.

Student can use a model to analyze population dynamics/growth.

Student can identify environmental factors that impact human population.

Student can evaluate how various environmental factors impact human population both positively and negatively.

Student can evaluate environmental consequences of overpopulation.

Students can evaluate human impacts of overpopulation.

Students can evaluate how human populations move through demographic transition.

Student can analyze how improved healthcare, education, and increasing efficiency/sustainability addresses overpopulation.