

# Earth Systems Course Description

In **Earth Systems**, students explore the dynamic interactions among Earth’s four main spheres — the **geosphere, hydrosphere, atmosphere, and biosphere**. This course examines how energy and matter move through these systems and shape our planet over time. Topics include **rocks and minerals, plate tectonics, earthquakes, volcanoes, weather and climate, the water, carbon, and nitrogen cycles, and human impact on Earth’s natural processes**.

Through **hands-on labs, models, and projects**, students will analyze real-world environmental issues and develop an understanding of how Earth’s systems connect and change. Emphasis is placed on **scientific inquiry, data analysis, and problem-solving skills** to better understand the planet we live on and how to protect it.

## Course Outline

Semester 1	Semester 2
<ul style="list-style-type: none"><li>● Nature of science</li><li>● Earth’s Systems</li><li>● Earth’s Minerals</li><li>● Internal Processes</li><li>● Surface Processes</li></ul>	<ul style="list-style-type: none"><li>● Hydrosphere</li><li>● Atmosphere</li><li>● Earth and Space</li></ul>