### **BIOGEOCHEMICAL CYCLING** & CLIMATE CHANGE



Ecology Bio 366 Stuart R. Borrett

## Reminders

#### <u>Assignments</u>

Read:Review NotesMCQ3:Note Card Due ThursdayEcoPhoto:Comment #2 (June 15)<br/>Reflection Essay (June 19)

#### Vocabulary

Biogeochemistry, turn over time, petagram, sink, passive pool, terms defined in lecture

# Learning Objectives

At the end of this material, you should be able to:

BIOGEOCHEMICAL

- 1. Describe the general chemical composition of life
- 2. Distinguish between gaseous and sedimentary types of biogeochemical cycles
- 3. Explain the pathways and processes in the movement of carbon, nitrogen, phosphorus, sulfur, and oxygen.
- 4. Predict how the carbon cycle responds to elevated atmospheric  $CO_2$
- 5. Determine if elevated  $CO_2$  could increase forest carbon sequestration
- 6. Use scientific methods to predict the effect of human activity on climate change
- 7. Describe how biogeochemical cycles are linked