

Mrs. Selmser mrsseimser@ivytechcs.org

- Oceanography
- Cooking
- Baking

Office Hours

Mondays & Fridays

10:30 to 12:30



Standard grading scale:

A = 90 - 100

B = 80 - 89

C = 70 - 79

D = 60 - 69

F = anything below 60%

Weights

50% Attendance

20% Quizzes

15% Labs

5% Video Notes

10% Unit Tests



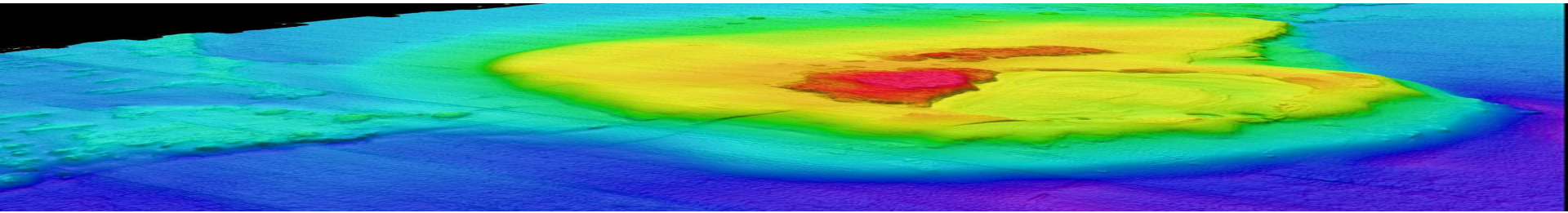


Introduction: Oceanography

This course is designed to introduce students to physical and biological processes in the oceans in a way that links these concepts together within our earth's systems.

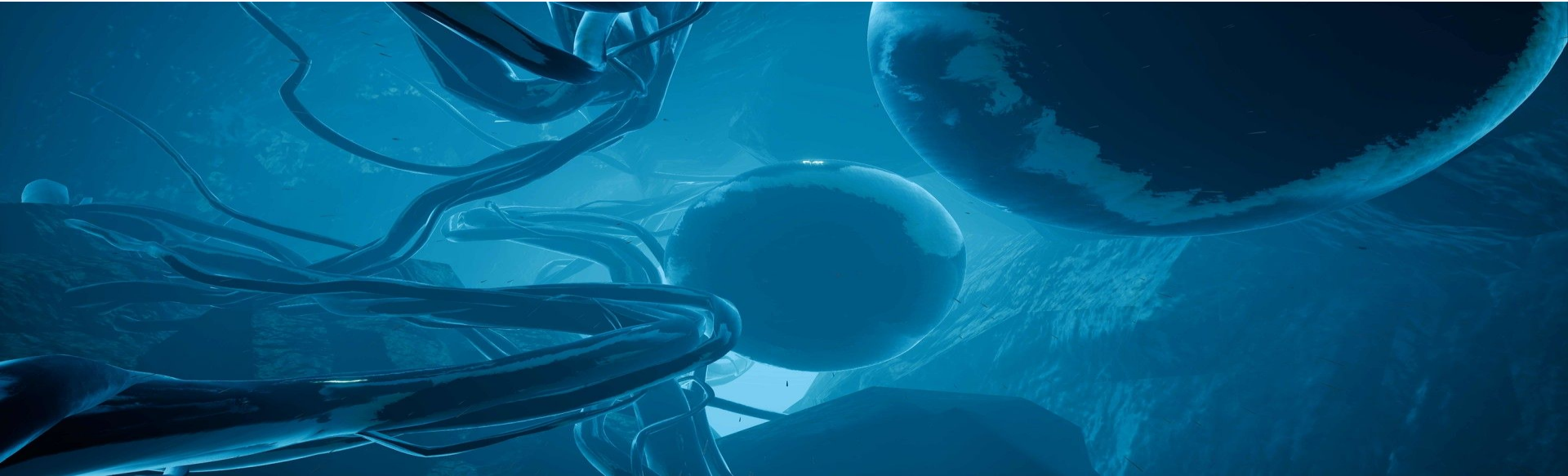
This includes the principles of physical oceanography. This includes planetary rotation and revolution, plate tectonics, bathymetry, waves, tides, currents, and large-scale ocean circulation and weather patterns. The marine biological study includes the exploration of estuaries, sandy beaches, coral reefs, intertidal zones, kelp forests, and pelagic and benthic environments including hydrothermal vents. The course concludes with an investigation of fish with an emphasis on Chondrichthyes.

Throughout the course, examples will be given to show how physical oceanography affects and is affected by the biological, chemical, and geological processes--the biogeochemical cycles of our earth.



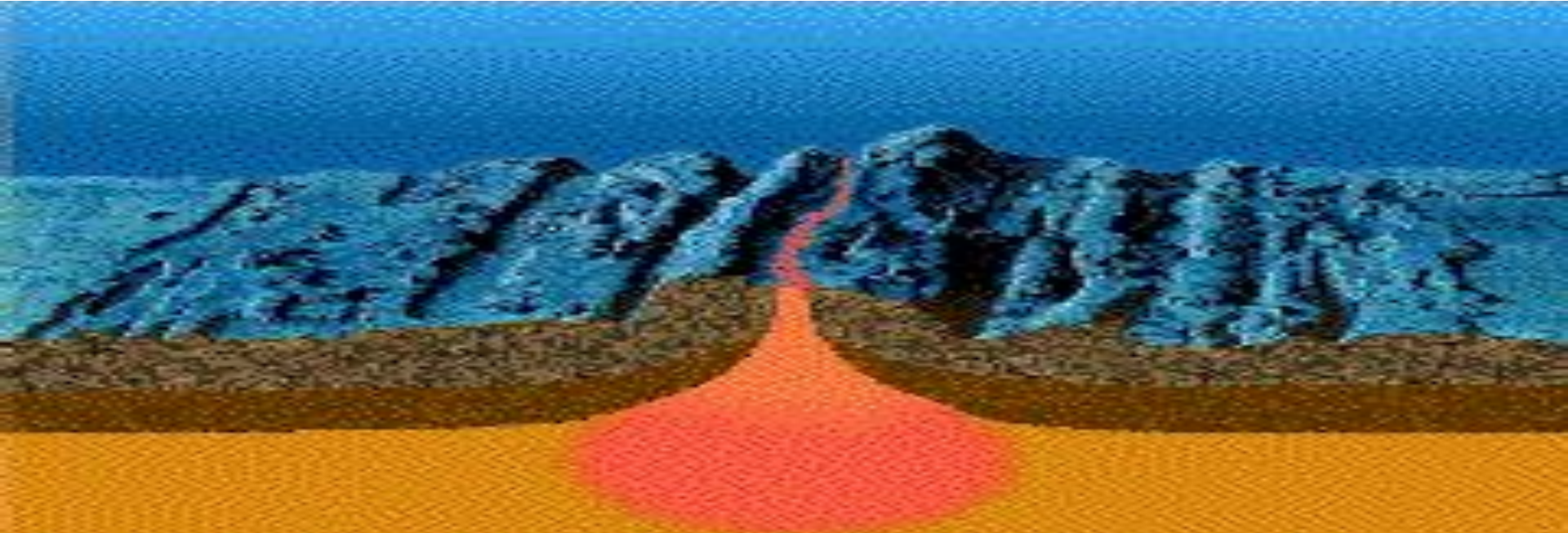
Unit 1: Water Planet

- Earth's Rotation & The Reason for the Season
- Latitude and Longitude
- Hydrologic Cycle
- Oceanographic Maps



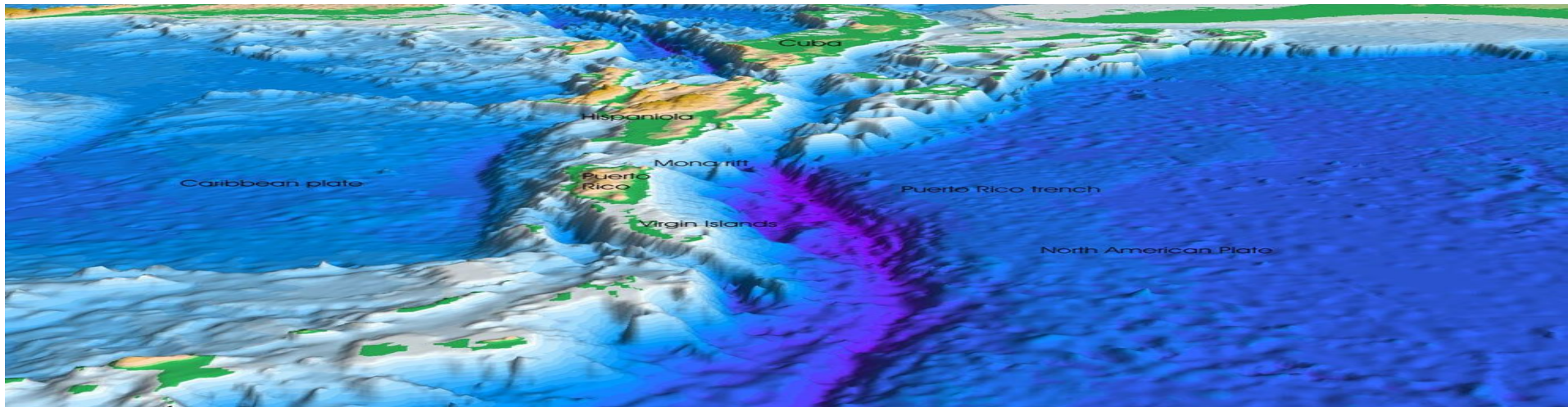
Unit 2: Plate Tectonics

- Geology
- Continental Drift, Boundaries and Hot Spots
- Geologic Events



Unit 3: Bathymetry & Sedimentation

- Ocean Floor Features
- Bathymetric Tools
- Bathymetric Charting
- The Stories of Sediments Part 1
- The Stories of Sediments Part 2



Unit 4: Ocean Atmosphere

- Ocean Atmosphere Part 1
- Ocean Atmosphere Part 2
- Ocean Currents
- Weather: Hurricanes
- Weather: El Niño
- Global Warming: Causes
- Global Warming: Effects



Unit 5: Waves and Tides

- Mechanics of Waves
- Types of Waves
- Tides



