Bio-1
Study Guide for Chapter 41

**Disclaimer**  This sheet does NOT necessarily include everything you will need to know for the exam – it is merely to help guide your studying. You will be responsible for everything that has been covered in lecture, for information from any videos that we watched or activities that we did in class, and for relevant information in the book.

**Vocabulary**
- Albedo
- Aphotic zone
- Benthic zone
- Biome
- Biosphere
- Pelagic zone
- Chaparral
- Climate
- Eutrophic
- Oligotrophic
- Savanna
- Solar footprint
- Tundra

**Important Concepts**
From the movie "Planet Earth: From Pole to Pole", know basic environmental conditions, major plant/animal life, and adaptations of those organisms to their environment for the following biomes:
- Polar (Arctic & Antarctic)
- Artctic Tundra
- Boreal Forest (Taiga)
- Temperate Broadleaf Forest
- Tropics (Rainforest)
- Coastal Ocean
- Tundra

Be able to compare and contrast the following biomes in terms of dominant plants, amount of precipitation, temperature, dominant animals, adaptations of plants and animals, and natural / anthropogenic disturbances:
- Tropical Rainforest, Temperate Grassland, Chaparral, Desert, Savanna

Be able to compare and contrast the above biomes with the biomes that you saw in the video as well.

What are the important physical factors that determine the characteristics of an ecosystem (biome)? Which 2 of these are MOST important?

What are the 3 factors that influence the amount of solar radiation received at high vs. low latitudes?

To which biome does San Diego belong?

Understand how lakes can vary (seasonally, nutrient / oxygen content).

How do the headwaters of a river differ from downstream waters?

Be familiar with the 4 important coastal ecosystems that we discussed in class.