# Physical Anthropology – Study Guide – Exam 2

## I. Human Growth and Development
Know about: The interaction of genes and environment, difference between growth and development, sexual dimorphism, preagricultural and modern diets and the implications to health, essential amino acids and their sources, stages of the human life cycle, explanations for aging, views of behavioral ecology and evolutionary psychology on human social behaviors, current scars of our biological history on modern society

## II. Primates

### Primates in general
Where do primates fit in the taxonomic plan?
Why are primates a “generalized” order? How that has been significant to their success?
What are the general evolutionary trends in primate evolution?
What has been the most common explanation for primates’ suite of traits?
What is the geographic distribution of the major primate taxa today?
What are the forms of primate locomotion and what taxa are associated with each?
What are the anthropoid dental formulas and associated taxa?
What are the most commonly observed behaviors, and why are they important to anthropology?
What are the differences between socioecology (aka behavioral ecology) and sociobiology?

### Species Identification and Behavior
At least be able to tell the differences between: prosimians and anthropoids, monkeys and apes, New World from Old World (aka Platyrrhine and Catarrhine), Haplorhine (dry) and Strepsirhine (wet-nosed). Optimally, be able to differentiate between lemurs/lorises and tarsiers; callithricids and cebids; cercopithecines and colobines; hylobatids, pongids, and hominids.

Why are bonobos preferred to common chimpanzees in studying human behavior?
How do the two types of chimps differ?
What sorts of primate behaviors did we discuss; try to think of examples from the films and the importance of the behaviors

### Evolution and Fossils
What are homologies and analogies? Which are most useful to us in cladistics?
What is a primitive and what is a derived structure; which is most used in taxonomy?
What are the epochs of the cenozoic era and their rough dates? What fossil primates are most associated with each?
What are the two main theories on primate evolution?
What are the three modes of speciation and the two explanations for the rate of evolution?
How can we differentiate hominoids from anthropoids from hominids in fossils?
What are the methods used in archaeological dating, their uses, and their hindrances?