Today’s Agenda

1. Course Information
2. Introduction to Life

Text:

HUMAN BIOLOGY - 8TH EDITION

Most other recent human biology textbooks will also be acceptable if it contains information on all of the body systems.
Grading Protocol

Lecture:
- Lecture Exams (3 @ 150pts) 450
- Final Exam 200
- Research Project 60
- Lecture & HW Assignments 40
Lecture Total 750

Lab:
- Labs 100
- Lab Quizzes 150
Lab Total 250

A = 90-100%
B = 80-89%
C = 65-79%
D = 55-64%
F < 54%

You must pass the lab and the final to pass the course.

Final Exam

Thursday, June 21st

5:30-7:20pm

Extra Credit

Study Guides - up to 5pts each (20pts)

Jeopardy - up to 5pts each (20pts)
CLASS RULES

1. **DOWNLOAD THE SYLLABUS.** You are responsible for the information presented there.
2. **ATTENDANCE.** Come to class. I will do what I can to encourage regular attendance.
3. **NO CELL PHONES.** Turn ‘em off.
4. **PARTICIPATE.** Ask questions in class. Get a study partner or group and study together.
5. **NO “MAKE-UP” WORK.**

The Website
http://instruct.westvalley.edu/granieri
Biology: Study of Life

• Characteristics
• Hierarchies
• Interactions/Ecology
• Classification

Characteristics of Life

Organization/Hierarchy
  Homeostasis
  Growth/development
  Interactions
  Metabolism
  Adaptation
  Reproduction
  Response to stimuli

Hierarchy
Hierarchy

Classification of Life

Two Kingdoms

Five Kingdoms

Six Kingdoms

Domains?
Bacteria and Archaea are Prokaryotic Domains

- DNA
- Plasmids
- Asexual reproduction
- Cell membrane
- No nucleus
- No organelles
- No compartments
- Small single cells

Prokaryotic Cells are Small & Simple

- DNA
- Plasmids
- Asexual reproduction
- Cell membrane
- No nucleus
- No organelles
- No compartments
- Small single cells

The Eukaryotic Domain
4 Kingdoms

- Protista
- Plantae
- Fungi
- Animalia
Eukaryotic Cells are Large & Complex

- DNA
- Large cells
- Cell compartments
- Organelles
- Nucleus
- Ability to specialize
- Can be multicellular
- Sexual or asexual reproduction

Classification Scheme

- Domain
- Kingdom
- Phylum
- Class
- Order
- Family
- Genus
- Species

**Genus species**

**Ex. Homo sapien**

**Mycobacterium tuberculosis**