I. **Announcements**: Please check & sign attendance roster.
Not on list? See Pat during break/ class. Lab 1 Histology tomorrow in 130 HUE: 12 n 1 pm sections. Much fun!!

II. **Introduction**: Staff, office hr, required sources, course overview, grading, expectations & success. Q?

**Human Physiology** LS ch 1, DC Module 1
A. What? cf: Anatomy LS p 1
B. Where? Body Levels of Organization LS pp1-6, DC pp1-5
C. How? Different Study Approaches LS p 1

**Homeostasis** LS ch 1, DC Module 1
A. What? Maintenance of ECF LS p 8
B. Where? ECF = Plasma + Interstitial LS fig 1-4 p 8
C. How? Simplified Homeostatic Model cf: LS fig 1-7 p 14 Balances LS p 9, DC pp 5-6
D. Why? Cell survival! LS fig 1-5 p 9, DC p 5

III. **Cell Anatomy, Physiology & Compartmentalization** LS ch 2
B. Basic survival skills LS ch 1 p 3
C. Organelles = Intracellular specialty shops
   Endoplasmic Reticulum (ER), Golgi, Lysosomes, Peroxisomes & Mitochondria, LS fig 2-1, 2-2, 2-3 pp 20-3

IV. **Nutrition & Physiology** Lab Thurs! Fun again!
A. Reflection: AEC Notes? aec.uoregon.edu/peer-notetaking
B. Review: Homeostatic Model for BP? Active work!
C. C. Organelles = Intracellular specialty shops w/membranes
   1. Endoplasmic Reticulum (ER) 2. Golgi 3. Lysosomes
   4. Peroxisomes & 5. Mitochondria. LS 2012 pp 20-34 fig 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-8 pp 20-7 tab 2-1 p 36
D. What about aunts? LS 2006, p 32
E. Physiol News: Mom's eggs execute Dad's mitochondria?

IV. **Anoerobic vs Aerobic Metabolism Overview** Many sources!
Mathews & Fox 1976...LS 2012 pp 26-33, fig 2-15 p 33

V. **Introduction to Genetics** LS 2012 ch 2 p 20-1 + Appendix C
B. How does information flow in the cell? fig C-6
C. How does DNA differ from RNA? pp A-20 thru A-22
E. How & where are proteins made? fig C-7, C-9
F. Class skit: Making proteins @ ribosomes!

**Nutrition Primer** DC Module 2, Sizer & Whitney(S&W) Sci Lib
A. Essential Nutrients: H₂O, 1⁻ Carbohydrates,
²°Fats, ³ Proteins, Vitamins, Minerals; Macro- vs Micro-?
B. Dietary Guidelines: USDA, AICR, Eat Like the Rainbow!
Bl 121 Lecture 6

I. **Announcements** Next session Q? ~½ review, then Exam I. Fun Lab 3 Nutrition after Exam II Q?

II. **Nutrition News + Connections** Be a whiz at healthy grilling! American Institute for Cancer Research, Grilling Quiz! Dietary Guidelines for Americans 2015-2020, Blue Zones?

III. **Digestion Connections** LS ch 15, DC Module pp 17-23
A. Histology of the gut LS fig 15-2, 15-3 p 442-3
B. Stomach protein digestion + zymogens? LS fig 15-7, 15-9
C. Accessory organs: Pancreas & Liver + Recycling! LS pp 457-63
E. Summary of chemical digestion LS tab 15-5 p 466
F. Large intestine? LS fig 15-24 pp 472-4

Exam I Review Slides

STUDY SMART